P. R. MALLORY & CO. Inc.

MALLORY

RADIO SERVICE ENCYCLOPEDIA

REPLACEMENT RECOMMENDATIONS
FOR ALL PRE-WAR RECEIVERS

FIFTH EDITION

P. R. MALLORY & CO., INC.
INDIANAPOLIS 6,
INDIANA

5th EDITION

P. R. MALLORY & CO. Inc.
MALLORY
RADIO SERVICE ENCYCLOPEDIA

FIFTH EDITION—APRIL, 1946

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THE END OF AN ERA

. . . the Fifth Edition MYE brings you FINAL servicing data on all prewar receivers

★ It has been more than four and one-half years since the Fourth Edition MALLORY-YAXLEY RADIO SERVICE ENCYCLOPEDIA was issued. In the meantime, many of you have been anxious to know when the next book would be available. During the war years it was obviously impossible to undertake the tremendous job of gathering and compiling the necessary data, and likewise impossible to publish such a book.

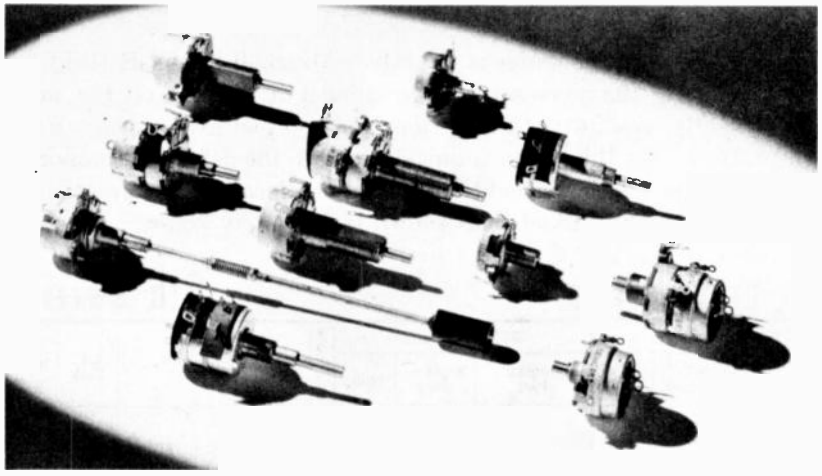
THE LAST ROUNDUP

At the close of the war it was apparent that the need for a new edition was twofold: not only did we realize that you needed an up-to-date manual of service data, but we also realized that—with the beginning of a new era in radio—you needed IN ONE BOOK complete information on ALL PREWAR RECEIVERS produced during the old era (through the spring of 1942). Prewar radios will undoubtedly be in use for many years to come. But because they will be out of production—superseded by newer models—reliable data will become increasingly hard to obtain. In the FIFTH EDITION we have gathered complete data on the servicing of all prewar receivers into one handy volume. This is the FIFTH and FINAL edition that will be devoted to prewar receivers, for the days ahead promise to keep us more than busy in keeping you up-to-date with new developments.

THE DATA YOU WANT

It is no news to you radio service engineers that replacements are becoming more complicated right along. Take controls for an example. The variety and complexity of shafts is enough to drive you to distraction. We anticipated this in our compilation of recommended replacements in the Fifth Edition MYE. It took time and hard work to get the maximum universal replacement from the minimum of controls and shafts, but we stuck to the job until we were satisfied that it was what you wanted . . . that it would simplify and speed up your work.

Our approach to the task of giving you accurate, up-to-date information on other replacements was just as painstaking and



thorough. But reliable data cannot be obtained and compiled without time and effort. It takes an experienced field organization, plus a continuous, efficient follow-up system, to get samples of original parts, circuit information, schematics. It takes a permanent, full-time inside staff to analyze samples and data and fit them into a universal replacement plan whenever possible. Then the recommendation is not ready to go into the Encyclopedia until actual field checks have been made. Nothing is left to chance. The data must be carefully checked and approved, or no recommendation is made.

The job is now completed. In presenting this Fifth Edition of the MYE, we renew again the responsibility we accepted almost thirteen years ago—to provide you with factual, usable, *reliable* data that would make your job easier and more profitable.

FEATURES OF THE FIFTH EDITION

Let's go through the book together. Because of the tremendous amount of new information, we have had to devote almost 450 pages to listings as compared to 99 pages in the First Edition, 145 pages in the Second, 195 pages in the Third, and 400 pages in the Fourth.

All the features you have praised so highly have been retained. In the tube section of the listings, you will note that we again show not only the correct tube complement (by type number) for the receiver listed, but also the total number of tubes. Even when you don't know the exact model of a receiver (in many instances the number has been obliterated) a comparison of the types and numbers of tubes with the listings in the MYE will make instantaneous identification possible.

In the last column of listings, we have again incorporated the correct reference, by volume and page number, to Rider's Manuals—up to and including the current Volume 14. This is a real time-saver for those of you who want to know more about the circuit of a receiver, and particularly where the circuit may have been changed during a previous service repair.

All other tried, tested-and-proven-worthy features remain, brought up-to-date—current in every respect. The Fifth Edition of the MYE is for you—the radio *service* engineer. It has been streamlined—stripped of all non-essentials. It gives you the specific answer you need "in one book, on one page, on one line." To give you these answers requires a real investment. It requires a responsible, experienced staff the year 'round. It requires an elaborate filing system for keeping the most complete and authoritative recommendations on receivers and specific servicing data in the entire world . . . every single model of every receiver has its own file folder containing every bit of available data on that particular model.

But beyond physical considerations, it requires a sincerity of purpose that is unmatched, we believe, by any other radio parts manufacturer. That purpose is to help you in your daily work, to save you time, to give you quickly the correct answers to radio servicing problems.

So, in dedicating the Fifth Edition of the MYE to you, we say:

WE HOPE YOU LIKE IT—and be sure to write us your suggestions for improvement.

We acknowledge a debt of gratitude to the entire industry for its spontaneous and whole-hearted co-operation, and its permission to use information without which it would have been impossible to make this Fifth and Final Edition of the MYE complete.

It is our earnest hope that you will find this edition of your MYE even more helpful to you than its fore-runners.

How to use the Encyclopedia

● As an example of the time-saving features possible with the use of the Encyclopedia, let's consider the servicing of an actual receiver in the shop. Assuming that many of the parts need replacing, we can proceed in a standard routine manner to get the set satisfactorily repaired and back to the customer in an absolute minimum of time.

The receiver we encounter is the Silver-Marshall Model R (RT) and upon removing the chassis from the cabinet it appears on the workbench exactly as shown in the bottom and top pictures on pages 6 and 7 respectively. On this set we'll quickly replace the defective component parts. On page 346 you'll find the complete replacement information for the Silver-Marshall Model R as shown immediately below.

5th Edition MALLORY RADIO SERVICE ENCYCLOPEDIA 5th Edition

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SILVER-MARSHALL R, RT	Vol.	4360	15	MR44	M26			3162	4	TC74					10	24A, '27, '35, '47, 80.	465	2-13,14
	Tone	14438	95	MR39				13181	4	TC71								
								13177	14	TC70								

CONTROLS

Having found that the volume control is defective, we will replace this part first. Looking at the bottom of the chassis we see the original control as pictured at the right in the partial illustration, Fig. 1, and indicated by arrow "A" in the complete chassis view on pages 6 and 7.

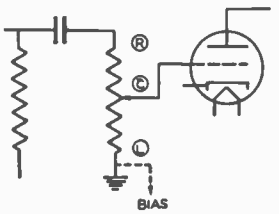


FIGURE 2

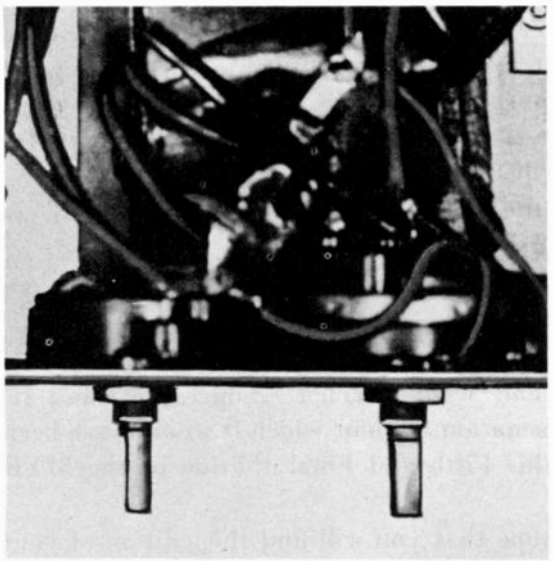


FIGURE 1

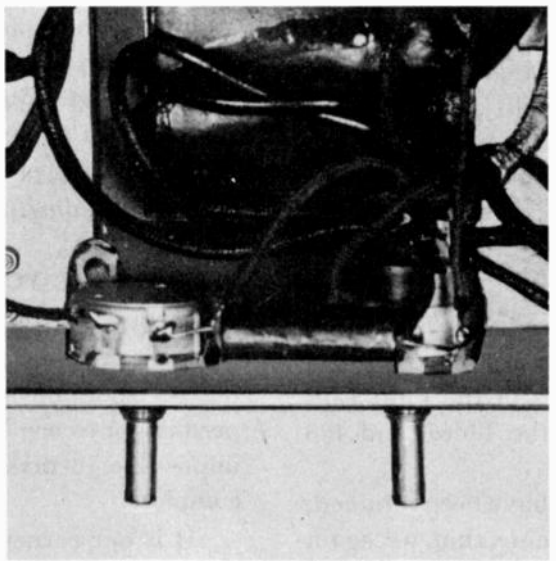
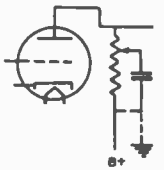


FIGURE 3

We find that it is connected in the receiver as shown in reference circuit 15, page 463. See illustration Fig. 2.

The original control is found to have an overall resistance value of 250,000 ohms with a single-pole, single-throw switch. The shaft is of 1/4" diameter and 5/8" length. These requirements are easily met by the Mallory MR44 control and M26 attachable switch. You will find that these units are specified under the sub-heading "Correct Replacement" under the main heading of "Controls." To install, assemble the switch to the control, cut the shaft to proper length, and remove the channel edges of the shaft to provide the 3/32" milled flat as employed on the original control. The ease with which this replacement is accomplished is readily apparent when you examine the illustration showing the complete replacement (Fig. 3).

Next, we will replace the tone control in the receiver. It appears as shown at the left in the partial chassis illustration Fig. 1, and is indicated by arrow "B" in the complete chassis illustration on pages 6 and 7. This control is wired into the receiver



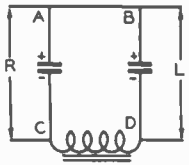
CIRCUIT 95

FIGURE 4

as indicated by reference circuit 95, page 466. See illustration Fig. 4.

Looking under the "Correct Replacement" column we find that the Mallory Type MR39 is recommended for this application. To install, cut the shaft to proper length and remove the channel edges of the shaft to provide the 3/32" milled flat as employed on the original control. The complete replacement is illustrated in Fig. 3.

CONDENSERS



CIRCUIT 4

There are three electrolytic condensers in the receiver and we'll replace them all to be sure we don't leave any defective ones. The first condenser we find is one marked with the part number 3162 and is the output filter condenser as shown in Condenser Reference Circuit No. 4, page 473 as listed for this receiver and shown above.

This condenser is a 12 mfd. dry electrolytic and it appears in the chassis as the bottom unit in the partial under chassis view Fig. 5. The unit is indicated by the arrow "C" on the complete under chassis view page 6.

First remove the nut and bolt that fasten one side of the bracket holding the condensers in place. Then unsolder the leads from this condenser going to the number four pin of the 80 rectifier tube and to chassis ground. Now by lifting on one side of the bracket, it will be possible to remove this condenser. To install the recommended replacement, the Mallory TC74, use as short a lead as possible in connecting the positive side to the number four pin on the 80 rectifier socket, and the negative lead to the nearest good chassis ground. Solder in place and the installation is complete as shown in the partial under chassis view Fig. 6.

The next condenser we encounter is marked with part number 13181 and is an 8 mfd. dry electrolytic used as input filter condenser in circuit No. 4. It is located immediately under the bracket on the right-hand side (looking at under chassis view facing control shafts) as shown in the partial under chassis view Fig. 5 and complete under chassis view by arrow "C" on page 6.

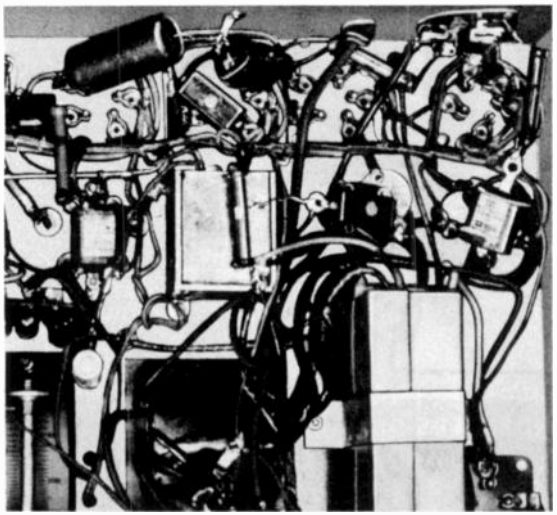


FIGURE 5

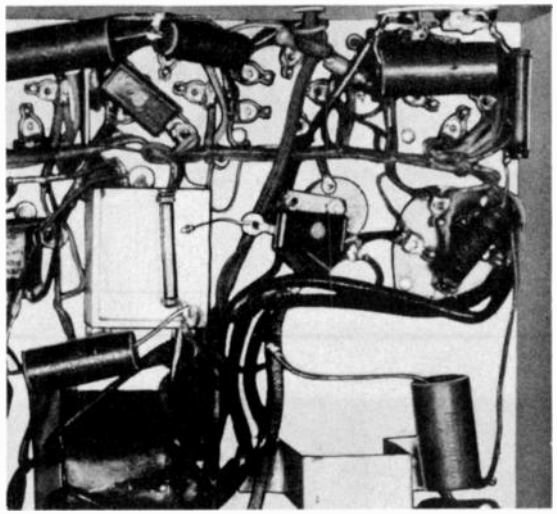
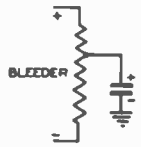


FIGURE 6

The replacement is most readily accomplished as follows. The bracket being loosened for the first condenser, it is merely necessary to unsolder the lead going to pin four of the 80 rectifier socket, and the other lead going to pin five on the speaker socket. Replace with the recommended Mallory TC71 by connecting the positive lead to pin three and the negative lead to pin five of the speaker socket. Use as short lead lengths as possible and solder in place. By using short leads, insulation of leads will not be necessary and the condenser will be held securely in place. The completed installation is shown in under chassis view Fig. 6.



CIRCUIT 14

The third condenser has the part number 13177 and is a 4 mfd. dry electrolytic used as illustrated in Condenser Reference Circuit No. 14, page 473 listed for this receiver and shown at left.

It is located to the left and adjacent to the 8 mfd. unit as shown in the partial under chassis view Fig. 5 and identified by arrow "C" in the complete under chassis view page 6.

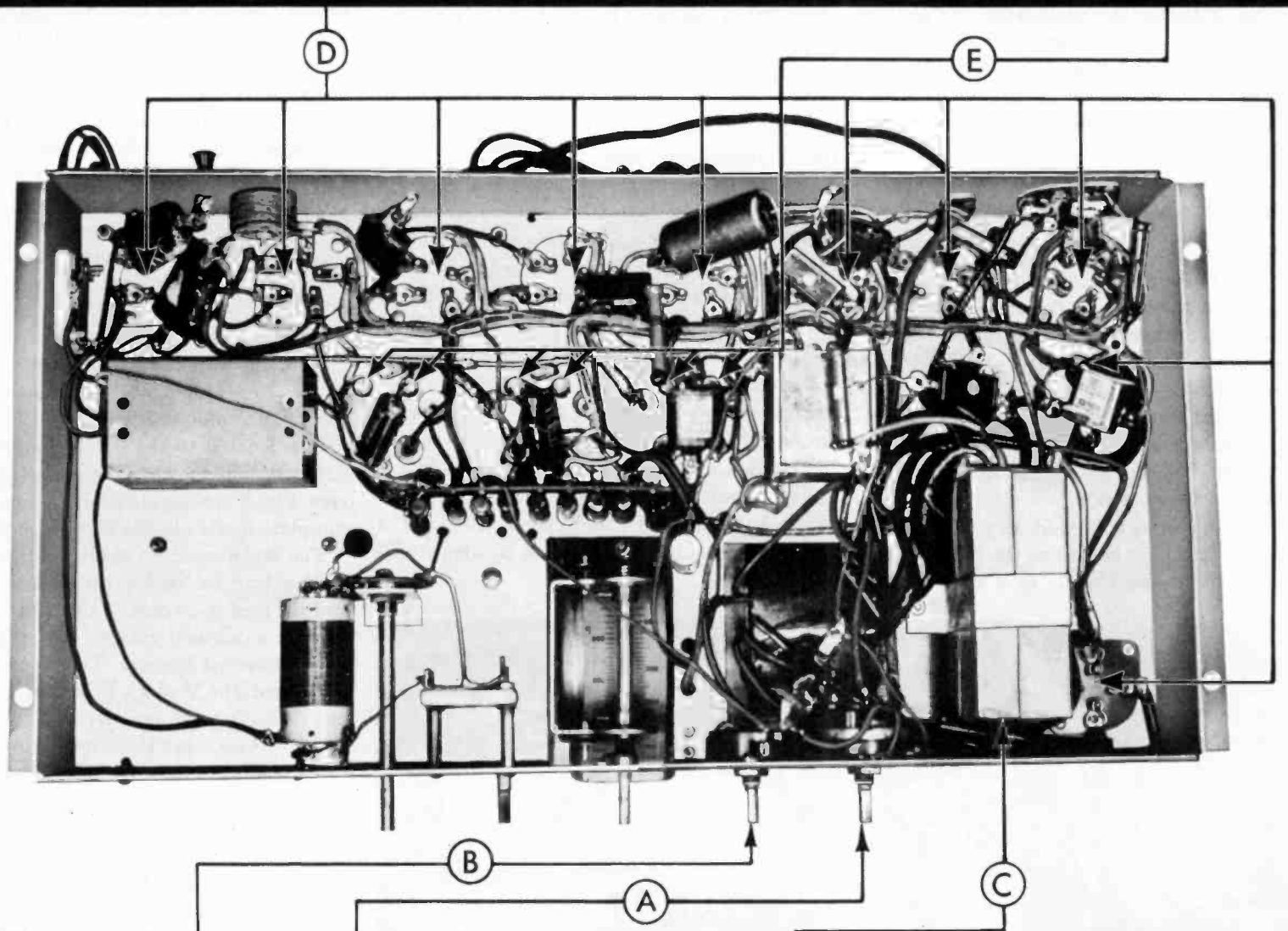
The replacement is easily made by unsoldering the lead to the tap on the bleeder resistor and the lead to chassis ground. As with the previous condensers, remove by slipping from under loosened bracket. The recommended replacement, the Mallory TC70, fits in very nicely by connecting the positive lead to tap on the bleeder resistor and the negative lead to nearest good chassis ground. Again use as short leads as possible, solder in place, and the job is done. The complete installation is shown in the partial under chassis view Fig. 6.

After completing the installation, the bracket should again be fastened to chassis or removed completely to prevent the loose end from rubbing against leads placed near it.

We now have all the controls and electrolytic condensers replaced which should take a very short time once you get the hang of using the Encyclopedia.

COMPLETE TUBE COMPLEMENT

I. F. PEAK
465



CONTROLS

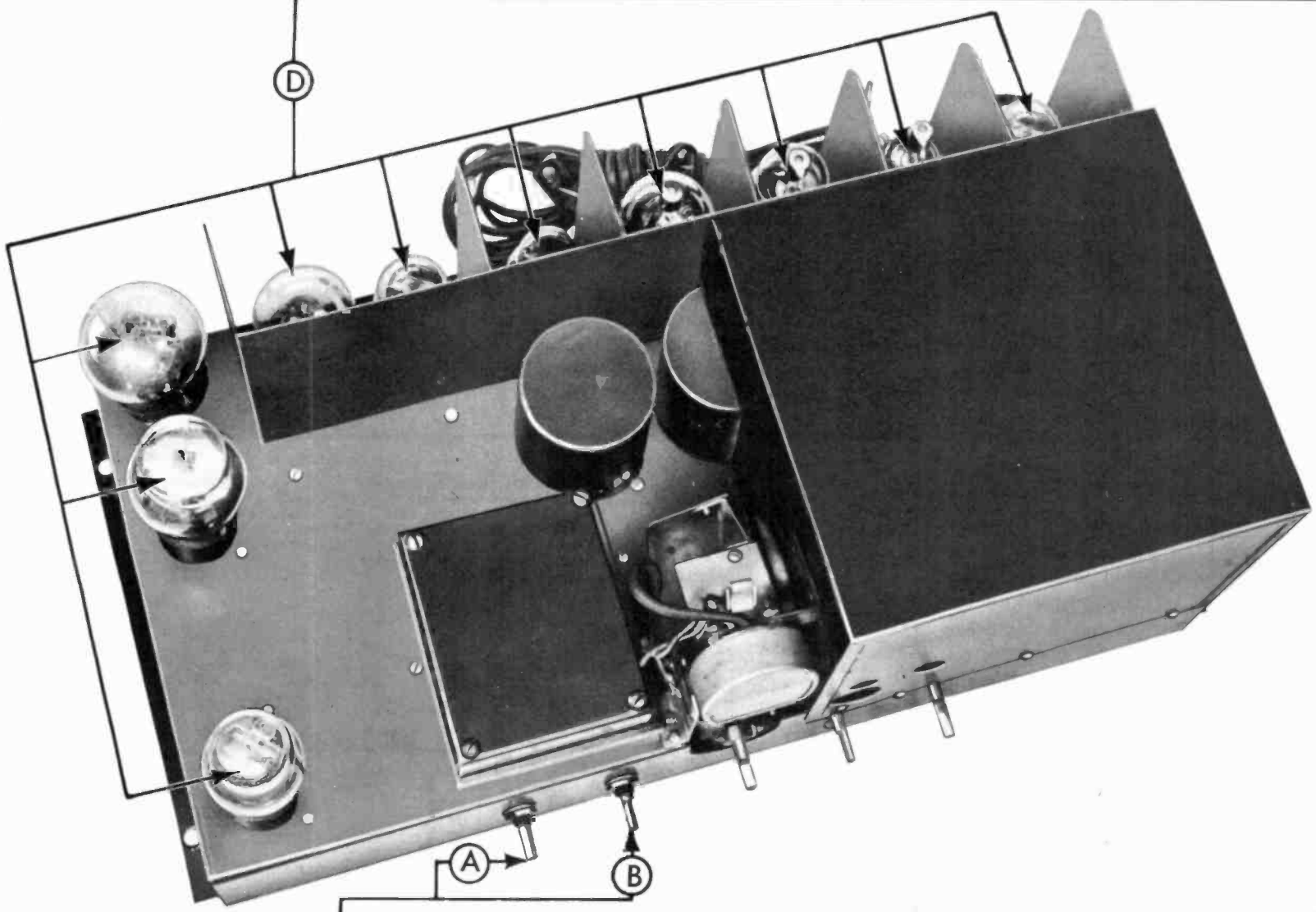
Tone	Vol.

CONDENSERS

Original Part	Circuit	Correct Replacement	Note
3162	4	TC74	
13181	4	TC71	
13177	14	TC70	

COMPLETE TUBE COMPLEMENT

10 24A, [4]27, [2]35, [2]47, 80



Use	Original Part	Circuit	Correct Replacement	Switch	Bias	Note
Vol.	4360	15	MR44	M26		
Tone	14438	95	MR39			

VIBRATORS

VIBRATORS		
Original Part	Replacement	*Note
1245	292	C3
1261	291	C3
1266	859	C3

Since this particular receiver did not use a vibrator, none could be illustrated; however you'll find the same easy-to-use system as shown at left for this replaceable part where applicable. In all replacements be sure to read the note, as it may be very important for accurate replacement.

TUBES

The tubes are listed next, both for the total number used in the receiver and the amount of each type. Here is a reprint as listed on page 346 for the Model R which we just finished servicing. In the column, "Total Number of Tubes," the ballast tubes are not included, but are usually listed in the number of each type. The small superior figures indicate the number of each type used, and if no superior figure appears, it indicates that only one tube of that type is used.

No. Tubes	Complete Tube Complement
10	24A, ^{2}27, ^{2}35, ^{2}47, 80

This column serves the two-fold purpose of identifying unmarked receivers and enabling you to carry a complete set of tubes before seeing the radio. If tube types have been changed during production, they will be indicated as 57-77, meaning some models use the 57 2.5-volt tube, and others the 77 6.3-volt equivalent. (Arrow "D" on pages 6 and 7 shows the actual tubes in the receiver as listed in the accompanying example.)

I. F. PEAK

In the column headed I. F. Peak the Intermediate Frequency is listed for all superheterodyne receivers, making it unnecessary to search through numerous lists for the proper information. In some cases I. F. Peaks were changed during production to eliminate interference in certain localities, in which case both I. F. Peaks are listed. The intermediate frequency for the Silver-Marshall model R is 465 kc. and arrow "E" on page 7 shows the points where the adjustments would be made.

I. F. Peak
264
264
261 472.5

RIDER'S REFERENCE

Rider's Reference
2-13,14

Occasionally, it may be necessary to have a complete circuit diagram of the receiver for certain complicated replacements or tracing of the wiring which may have been changed. The last column gives the volume and page number in Rider's Manuals on each of these receivers. As an illustration, the Silver-Marshall Model R is listed at the right.

In this case, the schematic diagram will be found in Rider's Volume 2 on page 13 under Silver-Marshall. Fig. 7 shows a reduced reproduction of the actual page.

SUMMARY

The set we have just serviced was assumed to be in the worst possible condition; however, by using this simple step-by-step system, we have it in good condition in less time than it would normally take to replace a by-pass alone. By using the book and the same system, you'll get the sets off your bench in record time.

In listing the Rider page numbers it should be noted that reference is usually made to the actual page carrying the schematic diagram. In cases where it was advisable to list a series of pages we have indicated them by listing the first and last page of the series.

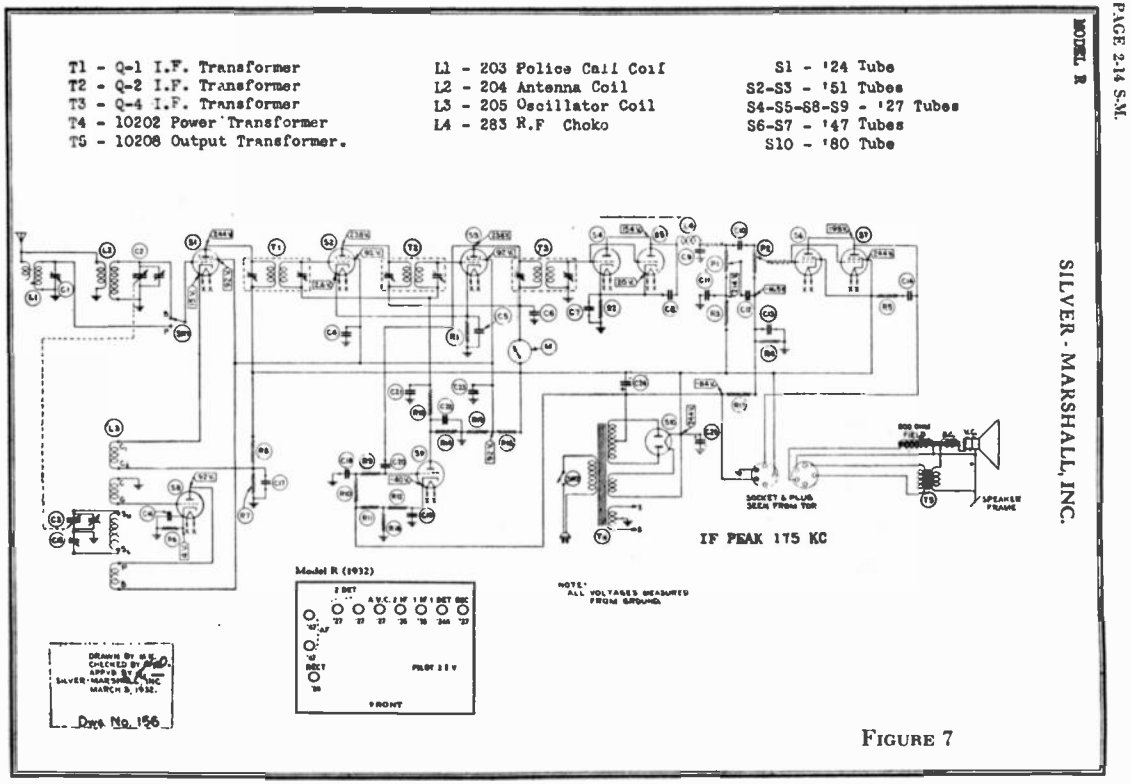


FIGURE 7

General Information

● Now just a short review to make sure that the listing arrangement is absolutely clear.

The Encyclopedia is divided into three major sections:

Section A . . . . . Controls
Section B . . . . . Condensers
Section C . . . . . Vibrators

There are approximately 28,000 different models of radio receivers listed, and still there are some on which no records are available. Whether given in the listing section or not, information contained in the book will enable you to effect a quick and highly satisfactory repair.

ENCYCLOPEDIA—LISTINGS

MANUFACTURER AND MODEL
FARNSWORTH
AC70, AC71 (C3-1)
AC90, AC91 (C4-1)
ACL55, ACL56 (C2-3) . . . . .

Receivers are listed either by the manufacturer's name, or the trade-name, according to popular usage. A cross-index in the listings will help you locate the receiver you are looking for.

Model numbers precede chassis numbers, with few exceptions. In these cases, model numbers are in parentheses and follow chassis numbers.

CONTROLS

CONTROLS						
Use	Original Part	Cir-cuit	Correct Replacement	Switch	Bias	*Note
Vol.						
Tone						
Sen.						
Vol.						
Vol.						
Tone						
Vol.						
Tone						
Vol.						
Tone						

USE—Controls are listed with an abbreviation of their most common designation; i.e., "Vol." = volume control; "Supp." = Suppressor Control. A complete list of abbreviations is on page 461.

CONTROLS						
Use	Original Part	Cir-cuit	Correct Replacement	Switch	Bias	*Note
	. . . . .					
	. . . . .					
	. . . . .					
	A33006.					
	A33077.					
	A33063.					
	. . . . .					
	. . . . .					
	. . . . .					

ORIGINAL PART—This column lists the identifying part number stamped on the control, if this information is available. Many times it is possible to find the correct replacement for an identified control even though the model number of the receiver is not shown, or has been obliterated through handling.

CONTROLS						
Use	Original Part	Cir-cuit	Correct Replacement	Switch	Bias	*Note
		127				
		22				
		98				
		18				
		18				
		22				
		75				
		22				
		127				

CIRCUIT—Numbers refer to "A" Control Circuits on pages 463 to 468. These schematic circuits enable you to check the receiver on which you are working to make sure the circuit has not been changed during a previous repair or during that particular model's life in its period of manufacture.

CONTROLS						
Use	Original Part	Cir-cuit	Correct Replacement	Switch	Bias	*Note
			MR48.			
			MR33.			
			D.			
			MR48.			
			MR48.			
			K12.			
			MR48.			
			K12.			
			MR48.			

CORRECT REPLACEMENT—Here are listed recommended correct replacements. Where a recommendation reads "500M" or is not a definite recommendation, and is followed by a note in the Note Column, it means that the complete or partial value of a control is known. The note referred to gives clear, concise instructions to make a quick, satisfactory replacement.

CONTROLS						
Use	Original Part	Cir-cuit	Correct Replacement	Switch	Bias	*Note
				. . . . .		
				. . . . .		
				M26		
				. . . . .		
				M26		
				. . . . .		
				. . . . .		
				. . . . .		

SWITCH—The number of the replacement switch which must be used with the recommended control is listed in this column.

CONTROLS						
Use	Original Part	Cir-cuit	Correct Replacement	Switch	Bias	*Note
					. . . . .	
					. . . . .	
					. . . . .	
					EX200	
					EX200	
					. . . . .	

BIAS—This column tells you that the control is used in a cathode or "bias" circuit. The original control contained a fixed resistance which must be duplicated.

All carbon controls which may possibly be used in "bias" type circuits are provided with a separate adjustable resistor of 500 ohms total resistance. This may be adjusted to the value given in the "Bias" column. "EX350" means that the resistor is to be set at 350 ohms and wired between the right-hand terminal of the control and the cathode circuit.

Wire-wound controls contain an adjustable section for this purpose. Where a wire-wound control is specified, the bias column will contain a numeral from 1 to 5 designating the correct setting for this adjustable section.

*NOTE—

CONTROLS						
Use	Original Part	Cir-cuit	Correct Replacement	Switch	Bias	*Note
					See No	te A14
					. . . . .	
					See No	te A19

On pages 461 to 462 there are over seventy-five "A" (control) Notes. These are valuable because they tell what to do and how to do it. They tell how to make a quick and easy replacement when information is impossible to obtain. They permit the selection of a proper control either at your distributors, or to tell him by mail the correct resistance and the right taper which, with a sketch of the shaft that you will make, will enable you to receive the right control without delay, loss of time, or customer dissatisfaction.

The "Note" sections ("A" Controls, "B" Condensers, "C" Vibrators) of the encyclopedia are without doubt the finest and most helpful compilation ever printed.

We strongly advise, for your own benefit, that you read these "Note" sections. They will save you time and worry and will make money for you.

CONDENSERS

CONDENSERS			
Original Part	Circuit	Correct Replacement	*Note
8, 8			
10			
A10005			
5-5			
10			
8-4			
8, 8			
10			

ORIGINAL PART—Under the heading "Original Part" is listed either the value of the original condensers or the part numbers originally used. Condensers are listed in the order of their importance. First, filter units, second, bypass units. Filter units are in most instances listed in their respective order of installation, from the rectifier to the load.

8-8-8 means that there is one condenser with three 8 mfd. sections used in the circuit.

8, 8, 8 means that there are three 8 mfd. condensers used in the circuit.

CONDENSERS			
Original Part	Circuit	Correct Replacement	*Note
	1		
	19		
	23		
	1/13		
	15		
	23		
	1		
	19		

CIRCUIT—The use of each condenser section is not given because this is clearly shown in the schematics of condensers circuits. "B" (condenser) Circuits are shown on pages 473 to 476. A double number 1/13 means that sections of the condenser are used in two different circuits; i.e., Circuit No. 1 and Circuit No. 13, both shown on page 473.

CONDENSERS			
Original Part	Circuit	Correct Replacement	*Note
		ST595	
		TC32	
		2S567	
		2S567	
		TC32	
		2S567	
		ST595	
		TC32	

CORRECT REPLACEMENT—Here are listed recommended correct replacements by catalog number (ST595, etc.). The word "Buffer" refers to the secondary or buffer condenser which is connected across the secondary of the vibrator power transformer, the value being given in the "original part" column.

***NOTE—**

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

CONDENSERS			
Original Part	Circuit	Correct Replacement	*Note
			B14
			B14

On pages 469 to 472 there are over one hundred and fifty "B" (condenser) NOTES. These are valuable because they tell you what to do and how to do it. They tell how to make a quick and easy replacement when information is impossible to obtain. *They permit the selection of the right condenser without referring to original color coding which may have been obliterated by age, by factory changes during production, or by a previous repair to the receiver. Quick, accurate and wonderfully easy condenser replacements will be effected by reading "B" (condenser) Notes.*

VIBRATORS

ORIGINAL PART—This column lists the identifying part number stamped on the vibrator if this information is available. It is often possible to determine the correct replacement for a certain part number vibrator by checking this column even though the model is unknown or not listed.

VIBRATORS		
Original Part	Replacement	*Note
1245	292	C3
1261	294	C3
1266	859	C3

REPLACEMENT—Here the correct replacement is listed. No guesswork for all have been field-tested just as has every other bit of information in the encyclopedia.

NOTE—Clear instructions for installation, or for the proper selection of a unit, are given in 23 concise notes on pages 476, 477.

VIBR. CONN.—Vibrator connections are shown on page 478. They're easily understood for they show the appearance and connections of all replacement units.

Now that an explanation of the encyclopedia has been completed, it is only fair to say that every possible help and advice has been compiled to help you. Make use of this help for increased effectiveness in your service work.

QUICK REFERENCE

"A" (CONTROL) SECTION

Explanation of Abbreviations 461
Explanation of Notes 461-462
Control Circuits 1 to 24 463
Control Circuits 25 to 50 464
Control Circuits 51 to 76 465
Control Circuits 77 to 100 466
Control Circuits 101 to 124 467
Control Circuits 125 to 151 468

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"C" (VIBRATOR) SECTION

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ACME ELEC. & MFG. CO.																		
AC7	Vol.		35	MR44				2-3	1	See Note	B1				7	‡26, 27, 71A, 80		1-1
SG88	Vol.		12	A5MP				8-8-8	3	3S584					8	‡24, ‡27, ‡45, 80		1-1
AC98	Vol.		7	UC500				8-8-8	3	3S584					8	‡24, ‡27, ‡45, 80		3-2
"Moto-Midget"	Vol.		33	MR48	M26	See Note A1									5	‡39, 36, 37, 41		4-1
	Vol.		6	MR33	M26	See Note A2												
ACRATEST PRODUCTS																		
37	Vol.		36	100M No. 1		See Note A3		2-8-8	1	See Note	B2				7	‡53, ‡56, ‡46, 5Z3		6-1
								10	15	TC22	B6							
38	Vol.		36	100M No. 1		See Note A3		2-8-8-8	‡	See Note	B2				8	‡53, ‡50, 80, 83		6-2
								10	15	TC22	B6							
47	Vol.		23	LL				8	12	ST595					4	‡6A6, ‡6B5		7-3
								8	13	ST595								
108	Vol.		23	LL				8, 8	22	ST595					5	‡57, ‡2B6, 83		5-1
120	Vol.		16	MR44				6, 6	2	ST595					5	‡56, ‡15, 80		6-4
126	Vol.		23	LL				4-4	1	See Note	B2				8	‡57, ‡56, ‡50, ‡81		5-2
194	Vol.		6	H7				8-8	22	2S567	B24				5	‡78, 77, 76, 80 or ‡6D6, 6C6, 76, 80		7-1
196, 197	Vol.		15	MR39				2-8-8-8	‡	See Note	B2				8	‡57, ‡56, ‡50, 80, 83		6-1
198, 199	Vol.		15	MR39				2-8	1	See Note	B2				8	‡57, ‡56, ‡46, ‡80		6-2
200	Vol.		15	MR39				8-8	1	2S567	B26				4	6A6, ‡41, 80		7-2
418	Vol.		23	LL				1-4	‡	See Note	B4				8	‡57, ‡45, ‡RK18, RK19, 80		5-3
728								8-8	1	2S567	B26				3	2B6, 57, 80		6-3
								16	15	TC26								
								10	15	TC22								
739								8-8	1	2S567	B26					80		5-4
770	Vol.		23	MM				6714	4	2S567	B33				6	‡36, ‡37, ‡2A3		6-4
1416	Vol.	304	23	LL				8	13	TC52					8	‡6C6, ‡76, ‡48		8-1
1800	Vol.		141	MR53				8-8	1/13	2S567	B40				5	6C6, 79, ‡42, 5Z3		8-1
	Phono.		‡	MR39				8	1	ST595								
								2	13	TC70								
1820	Vol.		141	MR53				8	1	RS213					5	6C6, 79, ‡6B5, 5Z3		8-2
	Tone		41	MR53				8-8	1/13	2S567	B41							
								10	15	TC22								
								2	13	TC70								
1850	Vol.		141	MR53				16	1	RS216					12	‡6C6, ‡76, ‡6B5, ‡5Z3		8-2
	Fader		‡	MRT460				8	1	RS213								
								10	15	TC32								
1900	Vol.		23	MM				8, 8	1	RS213					6	‡6B5, ‡5Z3		7-4
ACRATONE—Also see Federated Purchaser and Airking.																		
L5	Vol.	P660	18	MR48	M26			P474	32	RS213					7	6L7, 6K7, 6C5, 6H6,		
	Tone	P661	34	MR39				P160	32	2S567	B81					6F5, 6F6, 5Z4	456	
								P304	15	TC22								
L6	Vol.	P660	18	MR48	M26			P474	32	RS213					8	6L7, 6K7, ‡6Q7, 6C5,		
	Tone	P661	44	MR39				P160	32	2S567	B81					‡6F6, 5Z4	456	
								P304	15	TC22								
L7	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, 19, ‡30, ‡34	456	
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
X6	Vol	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3			‡	
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
Z4	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 19, ‡30, 32, 34	456	
	Tone	P682	44	MR39				.01-.01		Buffer	B14							
Z5	Vol.	P691	45	Order from	Mfr.			P958	1	2N518		P402	245C	C3	6	1C6, 34, ‡30, 32, 19	456	
	Tone	P692	44	MR39				.01-.01		Buffer	B14							
ADDISON																		
N655	Vol.		64	MR48	M27			8-4	1	2N516			Order from Mfr.		6	1C6, 34, ‡30, 19	465	
	Tone		22	‡		See Note A5		.01-.01		Buffer	B14							
ADMIRAL—See Continental.																		
ADVANCE ELECTRIC CO.																		
"A" Auto	Vol.		33	MR48		See Note A1		10	15	TC22					5	‡36, 41		
Falck "Super B"	Vol.		7	G				6-6	4	2S567	B33				7	‡51, ‡24, 27, 47, 80	‡	2-1
	Tone		22	MR44														
Falck "E"	Vol.		7	MR45				6-6	4	2S567	B33				4	35, 24, 47, 80		2-1
77, 88, 89	Vol.		7	C				6-6	1	2S567	B26				6	‡24, 27, 45, 80		2-2
	Tone		22	MR44		See Note A4												
AERO PRODUCTS—	See Chas.	Hoodwin.																
AETNA—Also see Walgreen																		
4T '36	Vol.		6	MR18	M26	EX125		16-12	23	TCS44					4	6D6, 6C6, 43, 25Z5		
5T '36	Vol.		18	MR48				16-12	27	TCS44	B55				5	6A7, 6D6, 75, 43, 25Z5	465	
	Tone		22	‡		See Note A5												
B25-RS	Vol.	2009C	18	MR48	M27										5	1C6, 1A4, 1B5, 30, 19	456	
55RS	Vol.	2009	18	MR48	M26			317	4	RS213					5	6A7, 6D6, 75, 42, 80	456	
57RS	Vol.	2009	18	MR48	M26			311	27	ST599					6	6A7, 6D6, 75, 43, 25Z5, 6G5	456	
								314	27	ST597								
251 (T.R.F.)	Vol.	91114	7	UC513	6	EX400		2111	1/15	4S715					4	6D6, 6C6, 43, 25Z5		
252	Vol.		7	MR45	M26	EX120		16-8-5-5	6/15	3S584/TN111	B5				4	6D6, 6C6, 43, 25Z5		§6-1

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS: Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	CONDENSERS: Original Part	Circuit	Correct Replacement	*Note	VIBRATORS: Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
AETNA—Also see Wallgreen — Continued																		
255	Vol.	2426	6	MR24	M26	EX200		2525	6	RS224					4	6D6, 6C6, 25L6, 25Z5, R55CP		
	Tone	259	21	MR48				5	15	TC22								
370	Vol.	2009	18	MR48	M26			311	27	ST599					6	6A7, 6D6, 75, 43, 25Z5, 6G5	456	
								314	27	ST597								
630, 635, 652	Vol.		18	MR48				8-8	1	2S567	B26				6	‡6D6, 76, 75, 6B5, 80	456	
	Tone		22	MR33														
700	Vol.		18	MR48				16, 16	27	TC45					5	6A7, 6D6, 75, 43, 25Z5	456	
	Tone		34	MR33														
AIRCASTLE—Also see Spiegel & Radio Prods. Corp.																		
A31	Vol.		18	MR48				8-4	23	2S567	B33				5	6A7, 6D6, 75, 42, 80	456	§5-2
BA41	Vol.		45	MR48	M26		A21	8-8	1	2N518		P402	245C	C3	6	1C6, 34, ‡30, 32, 33	456	
								.01-.01		Buffer	B14							
L5	Vol.	P660	18	MR48	M26			P474	32	RS213					7	6L7, 6K7, 6C5, 6H6, 6F5, 6F6, 5Z4	456	
	Tone	P661	34	MR39				P160	32	2S567	B81							
								P304	15	TC22								
L6	Vol.	P660	18	MR48	M26			P474	32	RS213					8	6L7, 6K7, ‡6Q7, 6C5, ‡6F6, 5Z4	456	
	Tone	P661	44	MR39				P160	32	2S567	B81							
								P304	15	TC22								
L7	Vol.	P691	45	Order from Mfr.				P391	1	2N516		P402	245C	C3	7	1C6, 19, ‡30, ‡34	456	
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
X6	Vol.	P691	45	Order from Mfr.				P391	1	2N516		P402	245C	C3	6	1C6, 19, ‡30, 32, 34	456	
	Tone	P692	‡	MR39				.01-.01		Buffer	B14							
Z4	Vol.	P680	45	Order from Mfr.				P391	1	2N516		P402	245C	C3	6	1C6, 19, ‡30, 32, 34	456	
	Tone	P682	44	MR39				.01-.01		Buffer	B14							
Z5	Vol.	P691	45	Order from Mfr.				P958	1	2N518		P402	245C	C3	6	1C6, 19, ‡30, 32, 34	456	
	Tone	P692	44	MR39				.01-.01		Buffer	B14							
14-112S	Vol.	3038	18	UM157-SS12				2994	1	2N518	B85	3000	294	C3	6	‡78, 6A7, 75, 42, 84	262	
	Tone	3034	22	MR36				578	15	TC22								
	Sen.	3035	7	C1MP				.0075		Buffer	B14							
14-127ES	Vol.	2726	18	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 76, ‡42, 6G5, 80	456	
	Tone	2737	147	MR55				3351	23	RS219								
631-6	Vol.	A15130-3	45	MK401				A14684	46	FP354		A-15301	245A	C3	6	7A8, ‡7B7, 7C7, 7C6, 6G6G	456	
	Tone	A15128-2	22	MK400	M26			.01		Buffer	B14							
961	Vol.	A15130-3	45	MK401				A14799-2	1	TCD74					10	6SA7GT, 6SK7GT, ‡6P5GT, ‡6K6GT, 6G5, 6SF5GT, 5Y3G	456	
	Tone	A15128-3	44	MK400	M26													
1061	Vol.	A15130-3	45	MK401				A14799-2	1	TCD74					10	6SA7GT, 6SK7GT, ‡6P5GT, ‡6K6GT, 6U5, 6SF5GT, 5Y3G	456	
	Tone	A15128-3	44	MK400	M26													
AIRKING																		
Dynamic 2 Range	Vol.		6	SRP263				8-8	6	2N516					4	6D6, 6C6, 43, 25Z5		7-4
								5	15	TC22								
Knave	Vol.		18	MR48	M26			16-8-5-5	1/15	3S584/TN111	B5				6	6A7, ‡6D6, 75, 43, 25Z5	456	7-1
	Tone		106	MR48														
Magnetic	Vol.		6	SRP263				8-8	24	2N516					4	6D6, 6C6, 38, 76		7-4
								5	15	TC22								
Royalty	Vol.		18	MR48	M26			16, 16	1	ST597					8	6A7, ‡6D6, 75, 76, ‡42, 80	456	7-2
	Tone		21	MR48				5	15	TC22								
4	Vol.		8	MR28	M26			30-20	24	2N513					4	12K7GT, 12J7GT, 35L6GT, 35Z5GT		11-1
4T "Comet"	Vol.		7	MR45	M26	EX300		12-8-5-5	1/15	3S584/TN111	B5				4	78, 77, 43, 25Z5		5-1
Atlas 5T Universal	Vol.		18	MR48	M26			16-8-5-5	6/15	3S584/TN111	B5				5	6A7, 78, 75, 43, 25Z5	456	5-2
6-Tube AC Super	Vol.	2443	18	MR48	M26			1846	4	RS213					6	‡6D6, 76, 75, 42, 80	456	
	Tone	2619	22	MR39				1615	15	TC22								
6T TRF-LW	Vol.		6	F7				8, 8	4	RS213					6	‡58, 57, ‡47, 80		5-3
	Tone		21	MR53														
6E	Vol.		45	MR48				8	1	TC71					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	456	9-1
	Tone		21	MR48	M26			16	1	TC74								
								5	15	TC22								
7T BC "Super"	Vol.		6	MR18			A14	8, 8	4	RS213					7	‡58, ‡57, ‡47, 80	175	5-1
	Tone		21	MR53														
7T TRF-LW	Vol.		6	F7		2		8, 8	4	RS213					7	‡58, 57, ‡47, 80		5-4
	Tone		21	MR53														
9E	Vol.		127	MR48				16, 16	1	ST597					9	‡6K7, 6A8, 6H6, 6F5, 6C5, ‡6F6, 5Z4	456	9-3
	Tone		21	MR48	M26													
10	Vol.		6	SRP263				8-8	24	2N516					4	6D6, 6C6, 38, 76		7-4
								5	15	TC22								
11F	Vol.		15	MR48				16	1	RS216					11	‡6K7G, 6A8G, 6H6G, 6G5, ‡6C5G, ‡6N6G, 5V4G	456	8-1
	Tone		41	MR48	M26			30	1	RS224								
								5	15	TC22								
21, 22 Series	Vol.	700A	7	MR28	M26			1051	24/15	3N527					4	6D6, 6C6, 38, 76		8-2
23X	Vol.		8	MR28	M26			30-20	24	2N513					4	12K7GT, 12J7GT, 35L6GT, 35Z5GT		11-1
27, 28A	Vol.		18	MR48				20	6	TC47					5	6A7, 6D6, 75, 43, 25Z5	456	7-8
								10	6	TC44								
								5	15	TC22								
37, 39	Vol.		6	G	6	2		16-8-6-10-10	8/15	See Note	B3				5	‡77, 78, 43, 25Z5	456	§4-1
40	Vol.		6	MR48				8-8	24	2N516					4	6D6, 6C6, 38, 37		6-1
								5	15	TC22	B6							

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AIRKING — Continued																		
41, 42	Vol.	700A	6	MR28	M26			8-8	24	2N516					4	6D6, 6C6, 38, 76		7-4
								5	15	TC22								
47, 48, 57, 58	Vol.		18	MR48				20	6	TC47					5	6A7, 6D6, 75, 43, 25Z5	456	7-8
								10	6	TC44								
								5	15	TC22								
50 AC-DC	Vol.		6	MR48				8-8	6	2N516					4	6D6, 6C6, 43, 25Z5		6-1
								5	15	TC22								
52, 54	Vol.		6	H7	6	3		8-4	1	2S567	B26				5	‡57, 58, 47, 80	456	4-1
66	Vol.		18	MR48	M26			16-8-5-5	6/15	3S584/TN111	B5				5	6A7, 6D6, 75, 43, 25Z5	456	6-2
70	Vol.		18	MR48				16, 16	1	TC74					7	6A7, 6D6, 76, 75, ‡42, 80	456	6-2
	Tone		21	MR48				5	15	TC22	B6							
72, 73	Vol.		18	MR48				24	6	TC47					6	6A7, 6D6, 75, 6G5, 43, 25Z5, 36H	456	8-3
	Tone		22	MR48				12	6	TC44								
								4	13	TC42								
								5	15	TC22								
76	Vol.		106	MR48	M26			16-8	1	3S584	B8				6	6A8G, 6K7G, 6Q7G, 6N6MG, 6G5, 5W4	456	9-2
	Tone		106	MR48														
81 Series	Vol.	700A	7	MR28	M26			1051	24/15	3N527					4	6D6, 6C6, 38, 76		8-2
209	Vol.		45	MR48				16	1	ST597					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	456	7-6
	Tone		21	MR48	M26			8	1	ST595								
								5	15	TC32								
211	Vol.		45	MR48				24	6	TC47					6	6A8, 6K7, 6H6, 6F5, 43, 25Z5	456	7-7
	Tone		21	MR48	M26			12	6	TC44								
								10	15	TC32								
213	Vol.		45	MR48				16, 16	1	ST597					9	‡6K7, 6A8, 6H6, 6F5, 6C5, ‡6F6, 5Z4	456	7-3
	Tone		21	MR48	M26													
214	Vol.		6	MR24				24-10-5	24/15	3N527	B268				3	6D6, 6C6, 25A7G, 80F		8-8
221, 222, 223	Vol.		18	MR48	M26			8	1	ST595					5	6A7, 6D6, 75, 6F6, 5Z4	456	7-9
	Tone		21	MR48				16	1	ST597								
								5	15	TC32								
222 (AC-DC)	Vol.	1102410	7	MR28	M26			1102010	1	2N509					4	6D6, 6C6, 25L6G, 25Z5		9-4
224, 225	Vol.		45	MR48				24	6	TC47					6	6A8, 6K7, 6H6, 6F5, 43, 25Z5	456	7-7
	Tone		21	MR48	M26			12	6	TC44								
								10	15	TC32								
227, 228, 229	Vol.		18	MR48				8-16	1	3S584	B8				6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	456	7-5
	Tone		57	MR48	M26			5-5	15	TN111								
250	Vol.		7	F			A14	8-8	1	2N509					5	6A7, 6D6, 6C6, 43, 25Z5	456	8-4
								5	15	TC22								
250B	Vol.	1055	7	F	6			1135	1	2N513					5	6A7, 6D6, 76, 25L6G, 25Z5	456	9-4
252	Vol.	1102444	18	MR48	M26			1102012	1	2N514	B66				5	6A7, 6D6, 75, 25L6G, 25Z5	455	9-3
257	Vol.	1102445	18	MR48				1102012	1	2N514	B66				5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	455	10-1,2
260	Vol.		18	MR48				20-10	6	2N509					5	6A7, 6D6, 75, 43, 25Z5, 42H	456	8-4
								5	15	TC22								
261	Vol.		18	MR48				8-8	1	2N518					5	6A7, 6D6, 75, 42, 5W4	456	8-5
								5	15	TC22								
501	Vol.		106	MR48	M26			8-16	1	3S584	B8				6	6A8G, 6K7G, 6Q7G, 6N6MG, 6G5, 5W4	456	9-2
	Tone		106	MR48														
503	Vol.		106	MR48	M26			8-16	1	3S584	B8				6	6A8G, 6K7G, 6Q7G, 6N6MG, 6G5, 5W4	456	9-2
	Tone		106	MR48														
505	Vol.		106	MR48	M26			8-16	1	3S584	B8				6	6A8G, 6K7G, 6Q7G, 6N6MG, 6G5, 5W4	456	9-2
	Tone		106	MR48														
522 Series	Vol.	700A	7	MR28	M26			1051	24/15	3N527					4	6D6, 6C6, 38, 76		8-2
600	Vol.		18	MR48				24	6	TC47					6	6A7, 6D6, 75, 6G5, 43, 25Z5	456	7-10
	Tone		22	MR48				12	6	TC44								
								4	14	TC42								
								5	15	TC22								
688	Vol.		7	MR28	M26			10	24	TC44					5	6D6, 6C6, 38, 76, 6E5, M84F		9-5
								5	15	TC22								
699	Vol.		7	MR28	M26			10	24	TC44					4	6D6, 6C6, 38, 76, ‡M55HG		9-5
								5	15	TC22								
700	Vol.		7	MR28	M26		A14	24-10-5	24/15	3N527	B268				4	6D6, 6C6, 43, 25Z5, M55HG		8-6
700LW	Vol.		7	MR28				24-10-5	24/15	3N527	B268				4	6D6, 6C6, 43, 25Z5, M55HG		9-6
701, 702, 703	Vol.		7	MR28				24-10-5	24/15	3N527	B268				5	6D6, 6C6, 43, 25Z5, 6E5, ‡M30HG		9-7
704	Vol.		7	MR28	M26			30	1	TC47					6	6D6, ‡76, 25L6G, 6E5, 25Z5, M42HG		9-6
								15	1	TC45								
705	Vol.		7	MR28	M26		A14	24-10-5	24/15	3N527	B268				4	6D6, 6C6, 43, 25Z5, M55HG		8-6
710	Vol.	1055	7	F	6			24-10-5	24/15	3N527	B268				5	6A7, 6D6, 6C6, 43, 25Z5, M49HG	456	8-7
715	Vol.	1055	7	F	6			24-10-5	24/15	3N527	B268				5	6A7, 6D6, 6C6, 43, 25Z5, M49HG	456	8-7

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AIRKING — Continued																		
720, 721	Vol.		18	MR48	M26			24-10-5	1/15	3N527	B269				5	6A7, 6D6, 75, 43, 25Z5, M49HG	456	9-8
725	Vol.		18	MR48	M26			30-10	6	2N513					6	6A7, 6D6, 75, 6G5, 25N6G, 25Z5, M42HG	456	9-7
	Tone		147	MR48											4	1D7G, 1D5G, 1H6G, 1F5G	456	8-5
730, 731	Vol.		18	MR48	M26										5	6A7, 6D6, 75, 43, 25Z5, M49HG	456	9-8
770	Vol.		18	MR48	M26			24-10-5	6/15	3N527	B269				6	6A7, 6D6, 75, 6G5, 43, 25Z5, M42HG	456	9-8
	Tone		147	MR48											4	6D6, 6C6, 25L6, 25Z5		9-9
771	Vol.		18	MR48	M26			24-10-5	6/15	3N527	B269							
	Tone		147	MR48											4	6D6, 6C6, 25L6G, 25Z5, M55HG		9-10
777	Vol.		7	MR48	M26			30	1	TC47					5	6D6, 6C6, 25L6G, 25Z5, 6E5, ²03G, M49HG		9-10
								16	1	TC45					5	6A7, 6D6, 75, 25L6G, 1V	456	9-11
X780B	Vol.		7	MR28				34-10	1	2N513					5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	456	9-12
801	Vol.		7	MR28	M26			34-10	1	2N513					5	6A7, 6D6, 75, 25L6G, 25Z5	456	9-13
810	Vol.	1126	18	MR48	M26			1125	1	2N509					6	6A7, 6D6, 75, 6V6G, 6G5, 80	456	9-13
815	Vol.	1126	18	MR48	M26			1141	1	2N513					7	6A7, 6D6, 76, 6G5, 6F5G, 25L6G, 25Z5	456	9-13
822, 822X	Vol.	1084	18	MR48	M26			1083	1/15	2N513/TC29					5	6A7, 6D6, 75, 6V6G, 80	456	9-8
823	Vol.	1084	18	MR48	M26			1090	15	RS219					5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	456	9-13
824	Vol.	1101	18	MR48	M26			1083	1/15	2N513/TC29					7	6A7, 6D6, 76, 6G5, 6F5G, 25L6G, 25Z5	456	9-13
	Tone		147	MR48											5	6A7, 6D6, 75, 6V6G, 80	456	9-11
X825	Vol.		18	MR48	M26			15	1	RS216								
826X	Vol.	1084	18	MR48	M26			1083	1/15	2N513/TC29					5	6A7, 6D6, 75, 25L6G, 25Z5	456	9-13
828	Vol.	1101	18	MR48	M26			35	1	RS224					7	6A7, 6D6, 76, 6G5, 6F5G, 6V6G, 80	456	9-11
	Tone		147	MR48				15	1	RS216								
								50	15	TC29								
832	Vol.	1084	18	MR48	M26			1083	1/15	2N513/TC29					5	6A7, 6D6, 75, 25L6G, 25Z5	456	9-13
833	Vol.	1084	18	MR48	M26			1090	1	RS216					6	6A7, 6D6, 75, 6V6G, 6G5, 80	456	9-13
834	Vol.	1101	18	MR48	M26			1083	1/15	2N513/TC29					7	6A7, 6D6, 76, 6G5, 6F5G, 25L6G, 25Z5	456	9-13
	Tone		147	MR48														
	Vol.		18	MR48	M26			35	1	RS224					7	6A8G, 6K7G, 6H6G, 6E5, 6F5G, 6V6G, 5Y3G	456	9-15,16
X837, X837S	Tone		147	MR48				15	1	RS216								
								50	15	TC29								
	Vol.	1101	18	MR48	M26			35	1	RS224					7	6A7, 6D6, 6G5, 76, 6F5G, 6V6G, 80	456	9-11
838	Tone		147	MR48				15	1	RS216								
								50	15	TC29								
850	Vol.		18	MR48	M26										4	1D7G, 1D5G, 1H6G, 1F5G, 2BG	456	9-14
870, 871	Vol.		18	MR48	M26			24-10-5	1/15	3N527	B269				5	6A7, 6D6, 75, 43, 25Z5	456	9-8
886	Vol.		7	MR28	M26			10	24	TC44					5	6D6, 6C6, 38, 76, 6E5, M84F		9-5
								5	15	TC22					4	6D6, 6C6, 25L6G, 25Z5		9-17
908	Vol.	1102417	8	MR28	M26			1102010	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5	455	9-17
	Phono.	1102414	63	MR39	M26			10	15	TC22					5	6A7, 6D6, 75, 25L6G, 25Z5	456	9-9
909	Vol.	1102444	18	MR48	M26			1102012	1	2N514	B66				5	6A7, 6D6, 75, 25L6G, 25Z5	456	9-14
910	Vol.		18	MR48	M26			1171	1	2N514	B66				5	6A7, 6D6, 75, 25L6G, 25Z5	455	9-17
	Tone		21	MR48											5	6A7, 6D6, 75, 25L6G, 25Z5	456	9-14
911	Vol.	826	18	MR48	M26			1171	1	2N514	B66				5	6A7, 6D6, 75, 25L6G, 25Z5	455	10-1
	Tone	1175	21	MR48											5	6K8G, 6D6, 75, 25L6G, 25Z5, M49HG	455	11-2
912	Vol.	1102444	106	MR48	M26			1102017	1	2N514	B66				8	6A7, 6D6, 75, 76, ²25L6G, ²25Z5, M49HG, M55HG	455	11-2
	Tone	1102571	106	MR48											7	6K8G, 6D6, 75, 6F5G, 6V6G, 80, 6G5	455	11-3
914	Vol.		18	MR48	M26			20-40	1	2N514					4	6D6, 6C6, 38, 76		8-7
	Tone		‡	MR48											4	6D6, 6C6, 43, 25Z5		8-8
920	Vol.		18	MR48	M26			38-18	1	2N514					4	6D6, 6C6, 25L6G, 25Z5		9-12
	Tone		21	MR48				40	12	TC48					4	6D6, 6C6, 38, 76		8-7
X937	Vol.		127	MR48	M26			25-16	1	See Note	B3				4	6D6, 6C6, 43, 25Z5		8-8
	Tone		‡	MR48											4	6D6, 6C6, 25L6G, 25Z5		9-12
1000	Vol.	700A	7	MR28	M26			1051	24/15	3N527	B61							
1001	Vol.	1001A	7	MR28	M26		A14	24-10-5	24/15	3N527	B268							
1001-B	Vol.	700A	7	MR28	M26			1135	1	2N513								
2000	Vol.	700A	7	MR28	M26			1051	24/15	3N527					4	6D6, 6C6, 38, 76		8-7
2001	Vol.	1001A	7	MR28	M26		A14	24-10-5	24/15	3N527	B268				4	6D6, 6C6, 43, 25Z5		8-8
2001-B	Vol.	700A	7	MR28	M26			34-10	1	2N513					4	6D6, 6C6, 25L6G, 25Z5		9-12

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AIRKING — Continued																		
2206	Vol.	700A	7	MR28	M26			1152	1	2N513					4	6D6, 6C6, 25L6G, 25Z5, M55HG		9-12
2207	Vol.	700A	7	MR28	M26			1152	1	2N513					4	6D6, 6C6, 25L6G, 25Z5, M55HG		
3905	Vol.		18	MR48	M27			8	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	10-2
3906LW	Vol.		18	MR48	M27			8	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-3
3907	Vol.		8	MR28	M26		A14	30-40	24	2N511					5	12K7GT, 12J5GT, 12F5GT, 35L6GT, 35Z5GT		11-4
	Phono.		63	MR44	M26			50	15	TC29								
3910	Vol.	2419	18	MR48	M27			2025	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	10-2
3912	Vol.		18	MR48	M27			100-70	76	See Note	B3				5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5GT	455	11-5
								24	76	TC47								
3916	Vol.		18	MR48	M27			100-70	76	See Note	B3				5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5GT	455	11-5
								24	76	TC47								
3950	Vol.		18	MR48	M27			24-125	24	See Note	B3				5	1A7G, 1N5G, 1H5G, 1A5G, 50Z7G	455	11-6
								20, 20	24	TC47								
3980	Vol.		127	MR48	M26			16, 20	1	TC74					6	6A8G, 6K7G, 6H6G, 6F5G, 6V6G, 6X5G	455	11-1
	Tone		‡	MR48														
4000	Vol.		18	MR48	M26			40-30	24	2N511					5	12A8GT, 12K7GT, 12Q6GT, 35L6GT, 35Z5GT	455	11-4
4000A	Vol.		18	MR48	M26			40-30	24	2N511					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	11-4
4001	Vol.		45	MR48	M26			40-30	24	2N511					6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT	455	11-6
4002	Vol.		45	MR48	M26			40-30	24	2N511					6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT	455	11-7
	Tone		106	MR48														
4007	Vol.		45	MR48	M26			40-30	24	2N511					6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT	455	11-7
4012	Vol.		18	MR48	M24			25, 25	24	TC47					5	1A7G, 1N5G, 1H5G, 1A5G, 50Y8GT	455	11-8
								150-35	24	See Note	B3							
4034	Vol.	2436	127	MR48				40-30-30	46	TC48/2N513					8	12K8, 12K7GT, 12J5GT, 6E5, 12J7GT, 50L6GT, 50Y6GT	455	14-1
	Tone	2513	22	MR48	M26													
4100	Vol.		18	MR48	M26			30, 30	24	TC47					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-7
4136	Vol.	1102454	18	MRT427				12-12-20	46	TCD65/TC65					6	6SA7, 6SK7, 6SQ7, 6SJ7, 6F6GT, 6X5GT	455	14-3
	Tone	1102515	22	MR48	M26													
4200	Vol.		18	MR48	M26			20, 20	24	TC47					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-8
								35	12	TC48								
4232, 4233	Vol.	2456	18	MR48	M26			2066	46	*TC48					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-5
4234	Vol.	2456	18	MR48	M26			2066	46	*TC48					6	*12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-4
4245, 4247	Vol.	2462	18	MR48	M26			2067	46	TC74/TCD65					6	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 6SJ7GT, 6X5GT	455	14-6
	Tone	2519	‡	MR48														
4265, 4267	Vol.	2462	* 18	MR48	M26			2067	46	TC74/TCD65					6	6SA7GT, 6SK7GT, 6SQ7GT, 6SJ7GT, 6X5GT, 6V6GT	455	14-6
	Tone	2519	‡	MR48														
5000	Vol.		45	MR48				16	1	TC74					6	6K8GT, 6K7GT, 6H4GT, 12SJ7GT, 6V6GT, 6X5GT	455	11-9
	Tone		22	MR48	M26			25	1	TC77								
X8312	Vol.		127	MR48	M26			40	1	TC48					10	6A7, 6D6, 75, 76, *25L6G, *25Z5, 6G5, *M42HG	456	9-18
	Tone		‡	MR48														
9722	Vol.		8	MR28	M26			30, 30	24	TC47					4	12K7GT, 12J7GT, 35L6GT, 35Z5GT		11-1
9822, 9822A	Vol.		8	MR28	M26			30, 30	24	TC47					4	12K7GT, 12J7GT, 35L6GT, 35Z5GT		11-1
9823	Vol.		8	MR28	M26			30, 30	24	TC47					4	12K7GT, 12J7GT, 35L6GT, 35Z5GT		11-1
9922	Vol.		8	MR28	M26			30, 30	24	TC47					4	12K7GT, 12J7GT, 35L6GT, 35Z5GT		11-1
AIRLINE—See Montgomery Ward.																		
AIR QUEEN—See Airking																		

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALL AMERICAN MO HAWK																		
D	Vol.	7740	24	DRP169	6			1-1-1.5		See Note	B1				7	§24, 27, §45, 80		1-14
								.073		On 60 cy	B9							
								.2		On 25 cy	B9							
DC	Vol.		25	DRP169				8	4	RS213					9	§22, §12A, §71A		1-27
DC7 110V	Vol.		24	GG				1.5-2	1	See Note	B7				7	§36, §37, §33	175	3-22
	Tone		22	MR33														
DC7 220V	Vol.		24	GG				1.5-2	1	See Note	B7				7	§36, §37, §33	175	3-21
	Tone		22	MR33														
DC65 110V	Vol.		8	G				3.5		See Note	B11				6	§39, 36, 37, §33	175	3-28
	Tone		22	MR36														
DC65 220V	Vol.		8	G	6			1.5-2		See Note	B7				6	§39, 36, 37, §38	175	3-29
	Tone		34	MR36														
H	Vol.	7740	24	DRP169				1-1-1.5	1	See Note	B1				8	§24, 27, §45, 80		1-15
								.073		On 60 cy	B9							
								.2 Mfd		On 25 cy	B9							
J	Vol.	61272	6	F7	6			6900/61366	4	RS213					6	§24, 45, 80		1-16,17
								61278/61356	4	RS216								
K	Vol.		15	MR48				1-2-4	1	See Note	B1				9	§24A, §27, §45, 80		1-18
	Tone		22	MR33				.1		See Note	B9							
P	Vol.		6	F7				6900/61366	4	RS213					6	§24A, 47, 80		1-19
								61278/61356	4	RS216								
S6	Vol.		8	G				6900	4	RS213					6	§24, 35, 27, 47, 80	175	1-21,22
S7	Vol.		8	G				6900/61366	4	RS213					7	§24, §35, 27, 47, 80	175	1-23,24
	Tone		34	MR33				16	4	RS216								
S8	Vol.		8	G				6900	4	RS213					8	24, §27, §35, §47, 80	175	1-25,26
	Tone		34	MR36				61278	4	RS216								
SW8	Vol.		17	MR48	M26			8, 8	1	TC71					8	§35, §24, §27, 47, 80	485	3-23
	Tone		22	MR18														
S10	Vol.		13	MR48				6900/61366	26	RS213					10	§24, §35, §27, §47, 80	175	3-24
	Tone		41	MR48														
S40	Vol.		2	MR24				8-8	1	2S567					4	§57, 47, 80	175	3-25
								10	19	TC22	B6							
S50	Vol.		6	MR15	M26			8, 8	1	ST595					5	§57, 58, 47, 80	175	3-25
	Tone		22	MR18				10	19	TC22	B6							
S63	Vol.		42	H				6900	1	RS213					6	§35, 27, 24, 47, 80	175	3-26
	Tone		22	MR18				10	15	TC22								
SA65	Vol.		15	MR48	M26			8, 8	1	RS213					6	§58, 57, 55, 47, 80	175	3-27
	Tone		22	MR18				10	16	TC22	B6							
S80	Vol.		8	H	6		A14	8, 8	1	RS213					8	24, §35, §27, §47, 80	175	3-31
	Tone		39	MR44														
SW80	Vol.		15	MR48				8, 8	1	RS213					8	§56, §57, §58, 47, 80	485	3-32
	Tone		22	MR18														
SA90	Vol.		18	MR48	M26			8, 8	1	RS213					9	§24, §35, 55, 27, §47, 80	175	3-33
	Tone		21	MR48				10	15	TC22	B10							
	Sen.		‡	F		See Note	A4											
SA91	Vol.		15	MR48				8, 8	1	RS213					9	55, §57, §58, 56, §47, 80	175	3-34,35
	Tone		21	MR48				10	15	TC22								
	Sen.		‡	F														
SA110	Vol.		18	MR48				4-8-4-8	1/2	See Note	B3				11	§56, §57, §58, §46, 83	175	3-36
	Tone		21	MR48				10	15	TC22	B6							
	Sen.		‡	C														
SA130	Vol.		15	MR48	M26			8, 8, 8	7	RS213					13	§56, §57, §58, §47, 82	175	3-37-39
	Tone		39	‡		See Note	A5	5	15	TC22								
	Sen.		8	MR21		See Note	A4											
SG 110V DC	Vol.		12	MR18				2-2-2	‡	See Note	B11					‡		3-17
U55	Vol.		6	MR24				16-5	6	See Note	B5				5	§44, 43, 25Z5	485	3-40
								12	6	TC44	B12							
								10	15	TC22								
A10 PWR. PK								2-4-4	3	See Note	B13					BH		3-14
B7	Vol.		25	DRP239											6	§32, 33, 30		
B30-31	Vol.		25	DRP169											6	30, §31, §32		3-19
C6 Studio	Vol.		6	G7				8-8-8	3	3S584					6	§24, §45, 80		1-20
B80	Vol.		43	DRP169				8	12	ST595					8	§34, 32, §30	175	3-30
	Tone		21	MR44														
90 Series to 95	Vol.		6	G7				2-2-2	3	See Note	B1				10	§27, §45, 80		1-10,11
								.1		TP428	B9							
96	Vol.	731S	6	G7				2-2-2-1-1	3	See Note	B1				8	§24, §27, §45, 80		1-12
								.1		TP428	B9							
ALLIED RADIO CORP.																		
5T Auto	Vol.		7	G		2	A1								5	37, 41, 57, §58		3-18
5X	Vol.	P1579	18	MR48	M26			8-4	23	2S567	B33				5	6A7, 6D6, 75, 41, 80	456	8-12
6-Tube Auto	Vol.		7	G		2	A1								6	§58, 57, 37, §41		3-18
6P	Vol.	P1677	18	MR48	M27			P958	1	2S567	B26	P402	245C	C3	6	6D8G, 6S7G, 6T7G, §30, 19	456	8-14
	Tone	P1764	44	MR39				.01-.01		Buffer	B14							
6T Dual Wave	Vol.	9070	15	MR48	M26			9110-0	1	2S567	B26				6	47, 55, 57, §58, 80	175	3-10,11
								8876-0	17	TC32								
6W	Vol.	P1579	18	MR48	M26			P1591	23	2S567	B33				6	6A7, 6D6, 75, 6H5, 41, 80	456	8-12
	Tone	P1642	34	MR39														
6Y	Vol.	P1555	18	MR48	M26			P1561	27	TCS45					5	6A7, 6D6, 75, 25B6G, 25Z5	456	8-11

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CORP.—Continued																		
7M	Vol.		139	‡		See Note	A19	4-16	23	3S584	B8				7	6A7, 6D6, 76, 75, 6U5, 42, 80	456	8-13
	Tone		139	MR39				10	19	TC22								
7T	Vol.		7	F				8, 8	25	ST595					7	[3]24,[3]35, 47, 27, 80	175	3-15
	Tone		22	MR33														
8T (810)	Vol.		46	See Note			A5								8	[3]30,[3]32,[3]34,[3]49	‡	3-17
8/9 AC	Vol.		3	D7				4-2-1	3	See Note	B1				9	[3]26, 27,[3]71A, 80		3-1
12T Class "B" Super	Vol.		45	MR44				8	3	RS213					12	[3]46,[3]56, 57,[3]58, 83	177.5	3-14
	Tone		22	MR33				8-8	3	2S567	B78							
80AC	Vol.	718	18	MR48	M26			701	23	2S567	B33				5	6A7, 6D6, 75, 42, 80	456	7-1
118	Vol.		15	MR48	M26			12	34	RS215					9	[3]24,[3]27,[3]35,[3]47, 80	175	3-8,9
	Tone		44	MR33				8	34	RS213								
AC5	Vol.	B48	7	MR37				2-1	1	See Note	B1				5	[3]24, 45, 80		3-2
A9701, A9702, A9703, A9704	Vol.		6	MR18				16-12	23	TCS44					4	6D6, 6C6, 43, 25Z5, L49C		8-1
A9705	Vol.		18	MR48				16-12	27	TCS44					6	6A7, 6D6, 6G5, 75, 25L6, 25Z5	456	8-1
A9706	Vol.		6	MR21				16-12	27	TCS44					4	6D6, 6C6, 25L6, 25Z5, L49C		10-1
A9707	Vol.		18	MR48				8-4	23	2S567					6	6A7, 6D6, 75, 42, 6G5, 80	465	10-1
	Tone		34	‡		See Note	A5											
A9710, A9711E, A9711, A9712, A9712E	Vol.		45	MR48				16-12	27	TCS44					7	6A7, 6D6, 76, 6G5, 6K5, 25L6, 25Z5	465	8-2
	Tone		34	MR39														
A9715, A9716, A9717, A9718	Vol.		6	MR18				16-12	23	TCS44					4	6D6, 6C6, 43, 25Z5, L49C		8-1
A9720, A9721, A9722	Vol.		18	MR48				8-4	23	2S567	B33				7	[3]6K7, 6A8, 6Q7, 6G5, 6F6, 5Y3	465	8-2
	Tone		34	MR39														
A9724, A9725, A9726	Vol.		18	MR48											6	6A7, 6D6, 75, 76, [3]48	465	8-3
A9728, A9729, A9730	Vol.		54	MR48				8-8	1	2S567	B26	P402	245C	C3	6	6D8, 6S7, [3]6L5, 19	465	8-3
	Tone		22	MR44				.01		Buffer	B14							
A9733, A9734	Vol.		45	2 Meg. No. 1		See Note	A19	12-18	1	2S569	B26				15	[3]6K7, 6A8, [3]6H6, 6G5, [4]6C5,[3]6F6,[3]5Z3	465	8-4
	Tone		‡	Y1000MP				8	13	ST595								
								10	15	TC22								
A9735	Vol.		18	MR48				16-12	27	TCS44					6	6A7, 6D6, 75, 6G5, 25L6, 25Z5	456	8-1
A9740	Vol.	3171	6	MR21	M26	EX250		3013	27	TCS45					5	6D6, 6C6, 43, 25Z5, L55B		9-1
A9741	Vol.	2775	18	MR48	M26			3041	1	2N518					6	6A7, 6D6, 75, 41, 80, 6G5	465	9-3
	Tone	3545	22	MR33														
A9744, A9745 A9746	Vol.	2239	18	MR48				2627	1/15	3S579					6	6A7, 6D6, 75, 41, 80, 6G5	465	
	Tone	2199	22	MR33	M26			3041	1	2N518	B10							
								1693	15	TC22	B10							
A9752, A9753, A9754, A9755	Vol.	2198	18	UM154-SS16				1476	25	RS216					8	6A7, 6K7, 75, 6C5, [3]6F6, 6G5, 80	465	9-5,6
	Tone	2199	44	MR33	M26			1477	25	RS215								
A9757, A9758	Vol.	3403	45	TM251-SS16				3167	25	RS223					11	[3]6K7, 6A8, 6J7, 6H6, [3]6C5,[3]6F6, 80	465	9-9-12
								3041	25/13	2N518								
								1693	20	TC22								
								1110	13	TC71								
A9760, A9761, A9762	Vol.	2239	18	MR48											4	1C6, 34, 1F6, 33, 5E1	465	9-15,16
A9768, A9769, A9770	Vol.	2239	45	MR48				3060	1	2N518		3069	245A	C3	7	6A7, [3]15, [3]76, 6G5, 19	465	9-7,8
	Tone	2199	22	MR33	M26			1693	15	TC22								
								.01-.01		Buffer	B14							
A9775	Vol.		18	MR48				8-4	1	2S567					5	6A7, 6D6, 75, 42, 80	456	8-5
A9776, A9777, A9778	Vol.	P680	45	Order from	Mfr.			8-8	1	2N518		P402	245C	C3	6	1C6, 34,[3]30, 32, 19	456	8-6
	Tone	P682	44	MR39				.01-.01		Buffer	B14							
A9780, A9781 (Ch. B-6)	Vol.	P801	15	UM163-SS3	M26			P1293	4	2S567	B33	P1414	859	C3	6	[3]6D6, 75, 41, 84, 6A7	175	10-2
	Tone	P828	22	MR39				P1312	15	TC32								
								.0075		Buffer	B14							
A9782, A9783	Vol.		45	UM154			A96	8-6	23	2S567	B33		294	C3	7	6D6, 6A7, 6K7, 6H6, 6C5, 6V6G, 84	175	8-7
	Tone		22	MR44				.0075		Buffer	B14							
A9784	Vol.	P1408	17	UM161-SS12	M26			6-8	1	2N518			294	C3	8	6D6, 6A7, 6K7, 6R7, [3]6C5,[3]6V6G, 0Z4	175	10-3
	Tone		22	250M No. 1		See Note	A3	.0075		Buffer	B14							
A9785, A9786	Vol.	P1158	15	MRT436	M26			P1154	14	RS223					19	[4]6K7, 6A8, 6H6, 6C5, 6G5, 85, 6D6, 42, [4]45,[3]5W4, 80, 83	456	9-17,18
	Tone	P1159	22	MR39				P1155	3	ST597								
	Bass	P1211	21	MR48				P1156	2/3	RS223								
								P950	13	2N518								
								P1043	13	TC71								
								P304	15	TC32								
A9788, A9789	Vol.	P1158	15	MRT436	M26			P1154	14	RS223					11	[3]6K7, 6A7, 6H6, 6G5, [3]6C5,[3]6F6, 80	456	9-19
	Tone	P1159	44	MR39				P1155	1	ST597								
								P1156	1	RS223								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CORP.—Continued																		
A9809	Vol.		18	MR48				8-4	1	2N518			See Note C8		4	6A7, 34, 1B5, 41	456	10-4
								10	15	TC22								
								10	‡	TC22								
								.01		Buffer	B14							
A9811	Vol.		18	MR48				8-4	1	2N518			Order from Mfr.		6	1C6, 34, [3]30, 19	465	10-4
	Tone		22	‡		See Note A5		10	‡	TC22								
								.01-.01		Buffer	B14							
A9820 (Ch. B-102)	Vol.		18	MR48	M26	EC240		8-8	4	TCS71	B3		294	C3	6	[2]6K7, 6A8, 6Q7, 6F6, 0Z4	262	10-5
	Tone		22	‡		See Note A5		.01		Buffer	B14							
A9825	Vol.	3171	6	MR21	M26	EX250		3013	27	TCS45					4	6D6, 6C6, 43, 25Z5, L55B		9-1
A9826, A9828	Vol.	2239	18	MR48											4	1C6, 34, 1F6, 33, 5E1	465	9-15,16
A9830, A9831	Vol.	2699	45	TM228-SS16				3167	25	RS223					11	[2]6K7, 6L7, 6J7, 6H6, [2]6C5, 6G5, [2]6F6, 5Z3	465	9-21,22
	Tone	2700	22	MR33	M26			1476	25	RS216								
								1110	13	TC71								
								3170	19	TC32								
								8876	15	TC22								
A9833 to A9838 incl.	Vol.	2966	45	TM234-SS16				3060	1	2N518		3069	245A	C3	8	[3]15, 6A7, [3]76, 6G5, 19	465	9-23-28
	Tone	2965	44	MR33	M26			3159	13	TC62								
								8876	15	TC22								
								.01-.01		Buffer	B14							
A9848, A9849 (Chassis 68)	Vol.	6229	45	MR48	M26			8826	1	2N518					6	6A7, 6K7, 6Q7, 6B5, 80, 6G5	465	9-29,32
	Tone	6223	22	MR48														
A9848, A9849 (Chassis 266)	Vol.	6229	45	MR48	M26			24-266	1/19	3S579	B141				6	6A7, 6D6, 76, 6F5G, 42, 80	465	9-30,32
	Tone	6223	22	MR48														
A9848, A9849 (Chassis 268)	Vol.	6229	45	MR48	M26			19-266	1/13	3S584	B79				7	6A7, 6K7, 76, 6F5G, 6B5, 80, 6G5	465	9-30,32
	Tone	6223	22	MR48														
A9851 (Ch. B-2)	Vol.		18	MR48	M26			18-6	6	2N509					5	6A7, 6D6, 75, 43, 25Z5, L49B	456	10-6
A9852, A9854	Vol.	P1158	15	MRT436	M26			P1154	14	RS223					11	[2]6K7, 6A7, 6H6, 6G5, [2]6C5, [2]6F6, 80	456	9-19,20
	Tone	P1159	44	MR39				P1155	1	ST597								
								P1156	1	RS223								
A9855, A9856	Vol.	P1158	15	MRT436	M26			P1154	14	RS223					19	[4]6K7, 6A8, 6H6, 6C5, 6G5, 85, 6D6, 42, [4]45, [2]5W4, 80, 83	456	9-17,18
	Tone	P1159	22	MR39				P1155	3	ST597								
	Bass	P1211	21	MR48				P1156	2/3	RS223								
								P950	13	2N518								
								P1043	13	TC71								
								P304	15	TC32								
A9857, A9857E (Ch. A-1)	Vol.		18	MR48	M26			8-4	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5W4	456	10-7
	Tone		34	‡		See Note A5												
A9861, A9862, A9863, A9864, A9865, A9866 (Ch. M-5)	Vol.		18	MR48	M27			8-8	1	2N518			245C	C3	7	1C6, [3]34, [3]30, 19	456	10-8
	Tone		22	MR53				.01-.01		Buffer	B14							
A9870 (Chassis Z3)	Vol.		45	MR48	M26			8-4	1	2N518					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	456	8-9
	Tone		34			See Note A3												
A9880	Vol.	P801	17	UM163-SS3	M26			P795	4	TCS71		P816	294	C3	6	6D6, 6A7, 6K7, 75, 6F6, 84	175	8-10
	Tone	P828	22	MR39				G864	15	TC22								
								.0075		Buffer	B14							
A9891 (Ch. AM-4)	Vol.		15	MR53				25	1	RS223					12	[4]6K7, 6A8, 6H6, 6C5, 6G5, [2]6L6, [2]5W4	456	10-9
	Tone		44	MR33				12	1	RS215								
								30	14	RS223								
								5	15	TC22								
A10500, A10501 (Ch. 5Z)	Vol.	P1515	18	MR53	M26			P1511	23	RM262					5	6A7, 6D6, 75, 41, 80	456	10-10
A10510, A10511, A10512, A10513 (Ch. 8K)	Vol.	P1821	140	MRT436	M26			P1825	1/13	3S584					8	6A7, 6D6, 75, [3]76, [3]42, 80	456	10-11
	Tone	P1822	140	UM160-SS1				P1873	15	TC22								
A10515, A10516, A10517, A10518 (Ch. 8T)	Vol.	P1821	140	MRT436	M26			20-25	1	2N511					7	6A7, 6D6, 75, 76, [3]43, 25Z5, 17AJ	456	10-11
	Tone	P1822	140	UM160-SS1				10	15	TC22								
A10700, A10701	Vol.	P3961	18	UM161-SS18	M27			P3971	1/12	FP409					5	1A7, 1N5, 1H5, 3Q5, 117Z6	455	
A10702	Vol.	P3746	18	MK401	M26			P3792	24/13	TN129					5	12A8, 12SK7, 12SQ7, 50L6, 35Z5	455	
A10703, A10704	Vol.	P3346	18	Order from Mfr.				P3355	24	2N511					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	
A10705, A10706, A10707	Vol.	P3746	18	MK401	M26			P3355	24	2N511					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	
A10708, A10709, A10710	Vol.	P3746	18	MK401	M26			P3792	24/13	TN129					5	12A8, 12SK7, 12SQ7, 50L6, 35Z5	455	

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CORP.—Continued																		
A10711, A10712, A10713	Vol.	P3930	18	MK401	M26			P3935	1	FP211					6	[2]12SK7, 12SA7, 12SQ7, 50L6, 35Z5.	455	
A10715, A10716, A10717	Vol.	P3527	18	MK401	M26			20-20	1	2N509					6	[2]12SK7, 12SA7, 12SQ7, 35L6, 35Z5.	455	
	Tone	P3528	22	MK401				20	15	TC26								
A10718	Vol.	P3335	18	MK401	M26			10-10	1	FP231					7	6A7, 6D6, 75, 76, [3]41, 80	455	
	Tone	P3337	22	MK401														
A10719	Vol.	P3335	18	MK401	M26			P3419	1	FP231					7	6A7, 6D6, 75, 76, [3]41, 80	455	
	Tone	P3337	22	MK401														
A10720, A10721	Vol.	P3471	45	MK401				20-15	25/13	FP234					11	6A8G, [3]6K7G, [4]6J5G, [3]6F6G, 5Z3	455	
	Tone	P3472	‡	Order from	Mfr.			25	1	RS223								
A10724	Vol.	P2321	18	UM154-SS3	M26			P2329	23	TCS71		P1414	859	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	
								.006		Buffer	B14							
A10725	Vol.	P3961	15	UM161-SS18	M27			P3971	‡	FP409					6	[2]1N5, 1A7, 1I5, 3Q5, 117Z6	455	
A10731, A10732	Vol.	N2876	18	UM154-SS18	M26			N2915	24	2N511					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10733, A10734, A10735	Vol.	N2087	18	UM154-SS22	M26			N2015	24	2N511					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10736, A10737	Vol.	N1537	6	UM129-SS18		EX200		N1850	24/15	3N533					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT		
A10739	Vol.	N2411	106	MR48	M26			30-30-20	1/15	See Note	B3				6	6A8GT, 6K7GT, 6Q7GT, 25C6G, [3]25Z6G	456	
	Tone	N2435	106	UM160-SS1				N2436	‡	TC47								
A10740	Vol.	N2163	18	MR48	M26			N2206	24	2N511					6	12A8GT, 12K7GT, 12J5GT, 12Q7GT, 35L6GT, 35Z5GT	456	
	Tone	N2157	22	MR28														
A10741	Vol.	N2282	17	MR53	M26			N2283	1	FP225	B3				7	6A8G, 6K7G, 6Q7G, [3]6K6G, 6J5G, 80	456	
	Tone	N2281	44	MR40														
A10745	Vol.	N2070	18	UM154-SS18	M26			N2015	24	2N511					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10748	Vol.	N2623	18	UM161-SS18				N2748	24/12	FP304					5	1A7GT, 1N5GT, 1I5GT, 1A5GT, 35Z5GT	456	
A10750, A10751	Vol.	N2482	45	MRT440				N2459	25	TC74					12	6A8GT, 6SK7, [7]76, [3]6F6G, 80	456	
	Tone	N2483	‡	UC513				N2460	25	TC74								
A10755	Vol.	N2411	106	MR48	M26			30-30-20	10/15	See Note	B3				7	6A8GT, 6K7GT, 6Q7GT, 6U5/6G5, 25C5G, [3]25Z6G	456	
	Tone	N2435	106	UM160-SS1				30	10	TC47								
A10760	Vol.	N1238	18	Order from	Mfr.			N1369	24/15	FP328		N1236	264	C3	4	6A8GT, 6K7GT, 6Q7GT, 6K6GT	456	
								.008-.008		Buffer	B14							
A10765	Vol.	4839	18	MK401	M26			10625	4	TC62					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y4G	455	
A10766	Vol.	4839	18	MK401	M26			10625	4	TC62					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y4G	455	
A10768, A10769, A10770, A10771, A10772, A10773, A10774	Vol.	11434	20	TM251-SS22				11324	1	FP234					8	6SA7, 6SK7, 6SQ7, [3]6K6G, 6SF5, 5Y4G, 6AB5	455	
	Tone	11435	‡	‡		See Note A19												
A10775	Vol.	10441	15	MK401	M27			1693	19	TC22					5	1A7G, [2]1N5G, 1I5G, 1A5G	455	
	Tone	11098	22	Order from	Mfr.													
A10777, A10778	Vol.	4871	45	UM154-SS22				11150	1	FP371	B8	3698	245A	C3	6	6D8G, 6S7, 6L5G, 6T7G, 6G6G, 6U5	455	
	Tone	4872	22	UM133-SS22	M26			1693	15	TC22								
								.03		Buffer	B14							
A10780	Vol.		20	‡		See Note A19		20-20	1	FP234					12	6K8, 6SK7, 6I16, [3]6C5, [3]6SF5, [3]6K6G, 6AB5, 5Y4G	455	
	Tone		‡	‡		See Note A19		8	13	TC52								
A10782, A10783	Vol.	4871	18	UM154-SS22				11150	1	FP371	B8	4105	294	C3	5	6D8G, 6S7, 6T7G, 6G6G, 6ZY5G	455	
	Tone	10148	22	MR33	M27			1693	15/19	TC22								
								.02		Buffer	B14							
A10785	Vol.	4803	18	MK401	M23			1693	19	TC22					4	1A7G, 1N5G, 1I15G, 1A5G	455	
A10786	Vol.	11132	18	MK401	M27			1693	19	TC22					4	1A7G, 1N5G, 1I15G, 1A5G	455	
A10787	Vol.	4803	18	MK401	M23			1693	19	TC22					4	1A7G, 1N5G, 1I15G, 1A5G	455	
A10788, A10790, A10792	Vol.	10441	45	MK401	M27			1693	19	TC22					6	1A7G, [2]1N5G, [2]1A5G, 1I15G	455	
	Tone	11098	22	Order from	Mfr.													
A10793, A10794	Vol.	4871	18	UM154-SS22				11080	12	TC39					6	6K8, 6SK7, 6SQ7, 6J5G, [3]25L6G	455	
	Tone	4872	44	UM133-SS22	M26			1693	19	TC22								
A10795	Vol.	10441	18	MK401	M27			11493	1	FP214					5	1A7G, 1N5G, 1I15G, 1A5G, 35Z5G	455	
								9196	19	TC26								
A10798	Vol.	17-14536	18	UM154-SS12				17-14297	24/19	FP328		17-14747	859	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	455	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CORP.—Continued																		
A10799	Vol.	17-14536	18	UM157-SS12				17-14299	24/19	FP332		17-14747	859	C3	6	[2]6SK7, 6A8, 6Q7G, 6V6G, 6X5G	170	
	Tone	17-14505	34	UM143-SS12				.005		Buffer	B14							
A10800, A10801, A10802	Vol.	N2087	18	UM154-SS22	M26			N2015	24	2N511					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10803, A10804, A10805	Vol.	N2173	6	UM128-SS22	M26	EX350		N2174	24/15	3N533					4	12A8GT, 12SJ7GT, 50L6GT, 35Z5GT	456	
A10806, A10807	Vol.	N1537	6	UM129-SS18	M26	EX200		N1850	24/15	3N533					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT		
A10810	Vol.	N2223	127	MR53	M26			N2224	4	2S567					5	6A8G, 6K7G, 6Q7G, 6K6G, 80	456	
A10811	Vol.	N2070	18	UM154-SS18	M26			N1366	24	2N511					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10812	Vol.	N2163	18	MR48	M26			N2206	24	2N511					6	12A8GT, 12K7GT, 12J5GT, 12Q7GT, 35L6GT, 35Z5GT	456	
	Tone	N2157	22	MR28														
A10813	Vol.	N2257	18	MR48	M26			N2015	24	2N511					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10814	Vol.	N2282	17	MR48	M26			15-10	1	FP225	B3				7	6A8G, 6K7G, 6Q7G, 6K6G, 6J5G, 80	456	
	Tone	N2281	44	MR40														
A10815	Vol.	N2411	108	MR48	M26			30-30-20	10/15	See Note	B3				6	6A8G, 6K7GT, 6Q7GT, 25C6G, [2]25Z6G	456	
	Tone	N2435	106	UM160-SS1				N2436	10	TC47								
A10818	Vol.	V-20	18	MK401	M26			C236	46	FP360		F-4	246	C3	4	6A8G, 6K7, 6Q7G, 6G6G	456	
								.01-.01		Buffer	B14							
A10818A	Vol.	4839	18	MK401	M26			4841	24	2N509		3698	245A	C3	4	6D8G, 6S7, 6T7G, 6G6G	455	
								1693	15	TC22								
								.03		Buffer	B14							
A10820, A10821	Vol.	N2482	45	MRT440				N2459	25	TC74					12	6A8GT, 6SK7, [7]6, [2]6F6G, 80	456	
	Tone	N2483	‡	UC513				N2460	25	TC74								
A10822	Vol.	N1238	18	Order from	Mfr.			N1369	24/15	FP328		N1236	264	C3	4	6A8GT, 6K7GT, 6Q7GT, 6K6GT	456	
								.008-.008		Buffer	B14							
A10825	Vol.	N2411	106	MR48	M26			30-30-20	10/15	See Note	B3				7	6A8GT, 6K7GT, 6Q7GT, 6U5/6G5, 25C6G, [2]25Z6G	456	
	Tone	N2435	106	UM160-SS1				N2436	10	TC47								
A10826	Vol.	N1738	18	MK401	M27			N1367	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	
A10830, A10831	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N511					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	
A10832	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N511					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	
A10833, A10834, A10835	Vol.	P3099	18	MR48	M26			P2936	1	2N509					6	6A7, 6D6, 75, 25L6, [2]25Z5	455	
	Tone	P3279	22	MR48														
A10836	Vol.	P3335	18	MK401	M26			P3419	1	FP231					7	6A7, 6D6, 75, 76, [3]41, 80	455	
	Tone	P3337	22	MK401														
A10837	Vol.	P3335	18	MK401	M26			P3419	1	FP231					7	6A7, 6D6, 75, 76, [3]41, 80	455	
	Tone	P3337	22	MK401														
A10840	Vol.	P3099	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5, L49B	456	
A10841, A10842	Vol.	P2935	18	MR53	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5, L49B	455	
A10844	Vol.	P3335	18	MK401	M26			P3419	1	FP231					7	6A7, 6D6, 75, 76, [3]41, 80	455	
	Tone	P3337	22	MK401														
A10845, A10846	Vol.	P3471	45	MK401				P1993	25	RS223					11	6A8G, [2]6K7G, [2]6J5G, [2]6F6G, 5Z3	455	
	Tone	P3472	‡	Order from	Mfr.			P3478	25/13	FP234								
A10848	Vol.	P3317	18	MK401	M27			P3024	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	
A10851	Vol.	P2321	18	UM154-SS3	M26			P2329	23	TCS71		P1414	859	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	
								.006		Buffer	B14							
A10852	Vol.	P1371	18	UM154-SS3	M26			P1293	23	2S567		P1414	859	C3	6	[2]6K7, 6A8G, 6Q7G, 6K6G, 6X5G	175	
	Tone	P828	22	MR39				.0075		Buffer	B14							
A10855	Vol.	P3560	18	UM161-SS22	M27			P3563	1	2N511					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 70L7GT	455	
								P3562	‡	TC29								
A10865	Vol.	4839	18	MK401	M26			10625	4	TC71					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y4G	455	
A10866, A10867, A10868	Vol.	11434	20	TM251-SS22				11324	1	FP234					8	6SA7, 6SK7, 6SQ7, [2]6K6G, 6SF5, 6AB5, 5Y4G	455	
	Tone	11435	‡	TM248-SS22	M26													
A10871	Vol.	4871	18	UM154-SS22				11150	1	FP371	B8	4105	294	C3	5	6D8G, 6S7, 6T7G, 6G6G, 6ZY5G	455	
	Tone	10148	22	MR33	M27			1693	15/19	TC22								
								.02		Buffer	B14							
A10873	Vol.	10441	18	MK401	M27			11493	1	FP214					5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5GT	455	
								9196	‡	TC26								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CORP.—Continued																		
A10875	Vol.	4839	18	MK401	M26			10625	4	TC71					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y4G	455	
A10876	Vol.	4839	18	MK401	M26			10625	4	TC71					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y4G	455	
A10877	Vol.		20	‡		See Note A19		20-20	1	FP234					11	6K8, 6SK7, 6H6, [3]6C5, [3]6SF5, [3]6K6G, 5Y4G	455	
	Tone		‡	‡		See Note A19		8	13	TC42								
A10878	Vol.	4871	18	UM154-SS22				11080	12	TC39					6	6K8, 6SK7, 6SQ7, 6J5G, [2]25L6G	455	
	Tone	4872	44	UM133-SS22	M26			1693	19	TC22								
A10879, A10880	Vol.	4803	18	MK401	M23			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
A10882	Vol.	11132	18	MK401	M27			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
A10884	Vol.	10441	18	MK401	M27			1693	19	TC22					5	1A7G, [2]1N5G, 1H5G, 1A5G	455	
	Tone	11098	22	Order from	Mfr.													
A10885	Vol.	10441	18	MK401	M27			11502	4	2N511	B8				5	1A7G, 1N5G, 1H5G, 1A5G, 25Z6G	455	
	Tone	11098	22	Order from	Mfr.			11508	4	FP214	B8							
								1693	19	TC22								
A10886, A10887, A10888	Vol.	10441	45	MK401	M27			1693	19	TC22					6	1A7G, [2]1N5G, [2]1A5G, 1H5G	455	
	Tone	11098	22	Order from	Mfr.													
A10889	Vol.	10772	18	MK401	M27			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1Q5G	455	
A10890	Vol.	4871	45	UM154-SS22				11150	1	FP371	B8	3698	245A	C3	6	6D8G, 6S7, 6L5G, 6T7G, 6G6G, 6AB5	455	
	Tone	4872	22	UM133-SS22	M26			1693	15	TC22								
								.03		Buffer	B14							
A10892, A10896	Vol.	11132	18	MK401	M27			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
A10897	Vol.	10441	18	MK401	M27			1693	19	TC22					5	1A7G, [2]1N5G, 1H5G, 1A5G	455	
	Tone	11098	22	Order from	Mfr.													
A10898	Vol.	10441	18	MK401	M27			11502	4	2N511	B8				5	1A7G, 1N5G, 1H5G, 1A5G, 25Z6G	455	
	Tone	11098	22	Order from	Mfr.			11508	4	FP214	B8							
								1693	19	TC22								
A10899	Vol.	4871	18	UM154-SS22				11080	12	TC39					6	6K8, 6SK7, 6SQ7, 6J5G, [2]25L6G	455	
	Tone	4872	44	UM133-SS22	M26			1693	19	TC22								
B6-30	Vol.		41	E12		See Note A1									6	[2]31, [2]32		3-3
B10500	Vol.	215	18	MR48				1703	23	2S567					6	6A8, 6D6, 6Q7, 6G5, 41, 80	465	
	Tone	304A	34	‡	See Note A3													
B10501	Vol.	215	18	MR48				1703	23	2S567					5	6A7, 6D6, 75, 41, 80	465	11-1
	Tone	304A	34	‡	See Note A3													
B10502, B10503, B10504, B10505, B10506, B10507	Vol.	217	6	‡		See Note A3		16-12	4	TCS44					4	6D6, 6C6, 25L6, 25Z5, L49C		
B10508	Vol.	215	18	MR48				16-12	4	TCS44					6	6A7, 6D6, 6G5, 25L6, 25Z5, 75	465	11-1
B10509	Vol.	217	6	‡		See Note A3		16-12	4	TCS44					4	6D6, 6C6, 25L6, 25Z5, L49C		
B10510, B10511, B10512	Vol.	215	45	MR48				16-12	27	TCS44					7	6A8, 6D6, 76, 6K5, 25L6, 6G5, 25Z5	‡	
	Tone	304A	22			See Note A3		10	15	TC22								
B10514	Vol.	215	18	MR48				1703	23	2S567	B33				6	6A8, 6D6, 6Q7, 6G5, 41, 80	465	
	Tone	304A	34			See Note A3												
B10515, B10516, B10517, B10518	Vol.	218	17	‡		See Note A19		12	1	ST597					9	[3]6K7, 6A8, 6Q7, 6G5, 6C5, [3]6F6, 5Y3	465	11-3
	Tone		44	MR39				18	1	ST597								
								10	15	TC22								
B10520, B10521	Vol.	216	18	MR48	M27			8-8	1	2N518			See Note C8		4	1C7, 1D5, 1H6, 1G5	456	11-3
								.01-.01		Buffer	B14							
B10522	Vol.	215	18	MR48				1703	23	2S567					6	6A8, 6D6, 6Q7, 6G5, 41, 80	465	
	Tone	304A	34	‡			A3											
B10525, B10526	Vol.	P1989	‡	Order from	Mfr.			P1993	30	RS223					16	[4]6K7G, 6L7G, [3]6H6G, [4]6J5G, 6J7G, [3]6L6G, [2]5Z3	456	11-3
	Tone	P1990	34	MR44				P1994	30	RS215								
	Bass	P1991	15	MR48				P1992	30	RS224								
								P1997	13/14	2N516								
B10527	Vol.	218	20	‡		See Note A19		12	1	ST597					9	[3]6K7, 6A8, 6Q7, 6C5, [3]6F6, 6G5, 5Y3	465	11-3
	Tone		44	‡		See Note A5		18	1	ST597								
								10	15	TC22								
B10530, B10531	Vol.	P1555	18	MR48	M26			P1561	4	TCS45					5	6A7, 6D6, 75, 25B6G, 25Z5	456	
B10533, B10534	Vol.	P1515	18	MR53	M26			P1511	23	2S567					5	6A7, 6D6, 75, 41, 80	456	
B10535	Vol.	P1749	80	MRT427	M26			P1755	23	3S584	B8				7	6A7, 6D6, 76, 75, 6U5, 42, 80	456	12-4
	Tone	P1750	80	MR53				P304	19	TC22								
B10536	Vol.	P1579	18	MR48	M26			P1591	23	2S567					5	6A7, 6D6, 75, 41, 80	456	
B10537, B10538, B10539	Vol.	P1916	140	MRT440	M26			P1937	46	RS223					11	6A8, [3]6K7, [4]6J5, 6J7, [3]6F6, 5Z3	456	
	Tone	P1917	140	UM160-SS1				P1939	46	2S567	B82							
B10540, B10541, B10542	Vol.	P1821	140	MRT436	M26			P1825	46	3S584	B87				8	6A7, 6D6, [2]6, 75, [2]42, 80	456	
	Tone	P1822	140	MR53				P1783	15	TC22								
B10543, B10544	Vol.	P1579	56	MR48	M26			P1783	19	TC22					5	1A6, [2]1A4, 30, 1G5G, 1B1	456	12-5
	Tone	P1642	22	MR39														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CORP.—Continued																		
B10545, B10546, B10547, B10548, B10549	Vol.	P1677	18	MR48	M27			P958	1	2N518		P402	245C	C3	6	6D8G, 6S7G, 6T7G, ‡30, 19	456	11-4
	Tone	P1764	44	MR39				.01-.01		Buffer	B14							
B10550	Vol.	P801	18	UM163-SS3	M26			P1293	4	2S567	B33	P816	294	C3	6	‡6D6, 6A7, 75, 41, 84	175	12-6
	Tone	P828	22	MR39				.0075		Buffer	B14							
B10551	Vol.	P1371	45	UM154-SS3	M26			P1293	23	2S567	B33	P1414	859	C3	7	6D6, 6A7, 6K7, 6H6, 6C5, 6V6G, 84	175	
	Tone		22	Order from Mfr.				.0075		Buffer	B14							
B10552	Vol.	P1371	45	UM154-SS3	M26			P1293	23	2S567	B33	P1414	859	C3	7	6D6, 6A7, 6K7, 6H6, 6C5, 6V6G, 84	175	
	Tone		22	Order from Mfr.				.0075		Buffer	B14							
B10553	Vol.	P1677	18	MR48	M27			P958	1	2N518		P402	245C	C3	6	6D8G, 6S7G, 6T7G, ‡30, 19	456	11-4
	Tone	P1764	44	MR39				.01-.01		Buffer	B14							
B10560, B10561	Vol.	2775	15	MR48	M26			3718	1	2N518					7	6A7, 6D6, 76, 75, 41, 6G5, 80	465	12-7,8
	Tone	3545	22	MR33														
B10562, B10563	Vol.	2775	17	MR48	M26			3041	1	2N518					5	6A7, 6D6, 75, 41, 80	465	
	Tone	3545	22	MR33														
B10565, B10566, B10567, B10568	Vol.	4078	17	TM251-SS16				3718	1	2N518					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, ‡6K6G, 5Y4G	465	11-5,6 12-32,34
	Tone	2199	44	MR33	M26			1108	13	TC71								
B10570	Vol.	2775	18	MR48	M26			3041	1	2N518					6	6A7, 6D6, 75, 6G5, 41, 80	465	
	Tone	3545	22	MR33														
B10572	Vol.	3761	15	UM154-SS16				3718	1	2N518					7	6A7, 6D6, 76, 75, 41, 80, 6G5	465	12-9,10 12-32,34
	Tone	2199	22	MR33	M26			1693	15	TC22								
B10575	Vol.	3671	18	MR48				4096	1	2N518		4105	294	C3	5	6D8G, 6S7G, 6T7G, 41, 6ZY5G	465	12-11,12
	Tone	3545	22	MR33				1693	15	TC22								
								.02		Buffer	B14							
B10577, B10578	Vol.	4144	18	MR48	M26			4140	23	2S567					5	6A8G, 6K7G, 6Q7G, 6K6G, 5Y4G	465	11-7,8
B10579	Vol.	4408	17	MR48				3718	1	2N518					6	6A7, 6D6, 75, 41, 80, 6G5	465	11-9,10
	Tone	4409	22	MR33	M26													
B10580, B10581, B10582	Vol.	3403	20	TM251-SS16				3167	46	RS223					11	‡6K7, 6A8, 6J7, 6H6, ‡6C5, ‡6F6, 80	465	11-13,14
								3041	46	2N518								
								1693	20	TC22								
								1110	13	TC71								
B10585, B10586	Vol.	3761	15	UM154-SS16				3718	1	2N518					7	6A7, 6D6, 76, 75, 41, 80, 6G5	465	12-9,10 32-34
	Tone	2199	22	MR33	M26			1693	15	TC22								
B10588, B10589	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	11-15,16
B10590, B10591, B10592, B10593, B10595, B10596	Vol.	3761	17	UM154-SS16				3150	12	ST597					6	1C6, 34, 1F6, ‡30	465	11-16,17
	Tone	2331	44	MR33	M24			1693	19	TC22								12-32,34
B10600, B10601, B10602, B10603, B10604, B01605	Vol.	3761	15	UM154-SS16				3060	1	2N518		3698	245A	C3	7	6D8G, ‡6S7G, 6N5, 19, ‡6L5G	465	12-13,14
	Tone	2199	22	MR33	M26			1693	15	TC22								
								.03		Buffer	B14							32-34
B10606, B10607, B10608, B10609, B10610, B10611	Vol.	4186	15	TM251-SS16				4188	1	2S569		3698	245A	C3	8	‡6S7G, 6D8G, ‡6L5G, 19, 6N5	465	12-15,16
								1693	15	TC22								
								.03		Buffer	B14							
B10612, B10615, B10617	Vol.	3761	17	UM154-SS16											6	6A7, 6D6, 75, 76, ‡48	465	12-17,18
	Tone	2199	22	MR33	M26													
B10620, B10621	Vol.	215	18	MR48				20, 20	4	‡TC47					8	6A7, 6D6, ‡76, 25L6, 6G5, 25Z5	465	14-36
	Tone	304A	22	‡		See Note A5												
B10700	Vol.	N-1434	6	UM118-SS25	M26	EX350		N-1366	1	2N513					5	6A8GT, 6K7GT, 6J5GT, 25L6GT, 25Z6GT	456	14-37
B10702	Vol.	221	18	MR48	M26			16-12	27	TCS44					6	6A7, 6D6, 6Q7, 25A6, 25Z5, 6U5, L49B	465	11-12
B10702 (Late)	Vol.	V-23	6	UM129-SS18	M26	EX200		C-233	46	TN125					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT		14-37
B10704, B10705	Vol.	221	18	MR48	M26			1727	1	2N509					8	6A7, 6D6, 6Q7, 76, ‡43, 25Z5, 6U5	465	12-19
	Tone	305	44	‡		See Note A5												
B10706, B10707	Vol.	221	18	MR48	M26			16-12	27	TCS44					6	6A7, 6D6, 6Q7, 25A6, 25Z5, 6U5, L49B	465	11-12
B10708, B10709, B10710	Vol.	221	45	MR48	M26			32	27	TC47					7	6A7, 6D6, 6K5, 76, 25A6, 25Z5, 6U5	465	12-20
	Tone	305	34	‡		See Note A5		12	27	TC44								
B10711, B10712	Vol.	221	18	MR48	M26			1703	4	2S567					6	6A7, 6D6, 6Q7, 41, 6U5, 80	465	13-6
	Tone	305	34	‡		See Note A5												
B10713, B10714, B10715	Vol.	221	45	MR48	M26			1703	23	2S567					7	6A7, 6D6, 76, 6U5, 6K5, 41, 80	465	12-21
	Tone	305	34	‡		See Note A5												
B10726	Vol.	3403	20	TM251-SS16				3041	25/13	2N518					11	‡6K7, 6A8, 6J7, 6H6, ‡6C5, ‡6F6, 80	465	13-7, 8,9
								3167	25	RS223								
								1110	13	TC70								
								1693	20	TC22								

‡ Data not substantiated.

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† Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CORP.—Continued																		
B10750	Vol.	P2271	18	Order from	Mfr.			10-5	23	2S567					6	6A7, 6D6, 75, 41, 76, 80	456	11-18
	Tone	P2093	...‡..	MK401	M26													
B10760, B10761, B10762	Vol.	P2271	18	Order from	Mfr.			10-5	23	2S567					6	6A7, 6D6, 75, 41, 76, 80	456	11-18
	Tone	P2093	...‡..	MK401	M26													
B10765, B10766, B10767	Vol.	P1989	18/15	Order from	Mfr.			P1993	30	RS223					16	[4]6K7G, 6L7G,[3]6H6G, [4]6J5G, 6J7G,[4]6L6G, [3]5Z3	456	12-1, 2,3
	Tone	P1990	41	MR44				P1994	30	RS215								
	Phono.	P1991	15	MR48				P1992	30	RS224								
B10770, B10771	Vol.	P2271	18	Order from	Mfr.			P1997	13/14	2N516					6	6A7, 6D6, 75, 41, 76, 80	456	11-18
	Tone	P2093	...‡..	MK401	M26			10-5	23	2S567								
B10773	Vol.	P1821	140	MRT436	M26			P1825	1/13	3S584					8	6A7, 6D6, 75, [3]76, [3]42, 80	456	13-10,11
	Tone	P1822	140	UM160-SS1				P1873	15	TC22								
B10780, B10781	Vol.	P2271	18	Order from	Mfr.			P2251	1	2N516		P1414	859	C3	6	6A8G, 6J5G, 6U7G, 6Q7G, 6G6G, 6ZY5G	456	13-14
								.015		Buffer	B14							
B10782	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P2147	859	C3	6	6D8G, 6S7G, 6T7G, 6G6G, 6L5G, 6ZY5G	456	11-19
	Tone	P2137	34	MR39	M27			.015		Buffer	B14							
B10784	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P2147	859	C3	6	6D8G, 6S7G, 6T7G, 6G6G, 6L5G, 6ZY5G	456	11-19
	Tone	P2137	34	MR39	M27			.015		Buffer	B14							
B10786	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P2147	859	C3	6	6D8G, 6S7G, 6T7G, 6G6G, 6L5G, 6ZY5G	456	11-19
	Tone	P2137	34	MR39	M27			.015		Buffer	B14							
B10790	Vol.	P2321	18	UM154-SS3	M26			P2329	23	TCS71		P1414	859	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	11-20
								.006		Buffer	B14							
B10791	Vol	P1371	18	UM154-SS3	M26			P1293	23	2S567		P1414	859	C3	6	[2]6K7, 6A8G, 6Q7G, 6K6G, 6X5G	175	11-21
	Tone	P828	22	MR39				.0075		Buffer	B14							
B10799	Vol.	V20	18	MR53	M26			C239	1/13	FP367					7	6K8, 6K7, 6Q7G, 6J5G,[2]25A6G, 25Z6G	456	.....
	Tone	V15	...‡..	MR48														
B17100	Vol.		18	MR48	M26			40-30	1	2N511					6	12SA7GT, 12SK7GT, [3]12SQ7GT, 35L6GT, 35Z5GT	456	14-54
B17101	Vol.	50.51A	18	MR48	M26			20.103B	1	2N513					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	14-55
B17102	Vol.	50.79	18	MR48	M26			20.103B	1	2N513					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	14-55
B17103, B17104	Vol.		18	MR48	M26			30-20	1	2N513					6	12SA7GT, 12SK7GT, [3]12SQ7GT, 35L6GT, 35Z5GT	456	14-56
B17105	Vol.	50.47A	18	MR48	M26			20.121	63	2N513					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6G, [3]25Z6	456	14-57
	Tone		22	MR48				20.105	24	[2]TC47	B12							
								16	63	TC45								
B17106	Vol.	50.72	124	MRT451	M26			20.133	63/15	2N513/2N509					8	[2]6SK7GT, 6SA7GT, 6J5GT, 6SQ7GT, 25L6GT, [3]25Z6GT	456	14-58
								20.130	63	TC49								
B17109	Vol.	50.67	18	MR48	M27			20.118	1	2N513					7	[3]1N5GT, 1A7GT, 1H5GT, 3Q5GT, 50L6GT, 35Z5GT	456	14-21
B17110	Vol.	50.77	18	MR48	M26			20.107A	4	2S569					7	[2]6SK7GT, 6SA7GT, 6SQ7GT, 6J5GT, 6V6GT, 80	456	14-59
	Tone	55.33	22	MR48				20.89	15	TC26								
B17111, B17112	Vol.	50.65	18	MR48	M27			20.117A	24	2N513					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	456	14-60
								20.120	78	[2]TC2501								
B17113, B17114	Vol.	50.74A	140	MRT450	M26			20.132	1	2S569					8	[2]6SK7GT, 6SA7GT [2]6SQ7GT, [2]6K6GT, 80	456	14-5
	Tone	55.32	140	UC506														
B17125, B17126	Vol.	N3307	18	MK401	M26			N3302	24	2N511					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	14-61
B17127, B17128, B17129	Vol.	N2886	18	MK401	M26			N1366	24	2N513					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	14-61
B17132, B17133, B17134	Vol.	N4213	18	Order from	Mfr.			N4206	24/78	2N513/TC2501					5	1R5, 1T4, 1S5, 3S4, 45Z3	456	14-62
B17135	Vol.	N3045	18	UM154-SS22	M26			N3114	24	2N511					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	14-63
B17136	Vol.	N3065	18	UM154-SS22	M26			N3440	4	2S569					6	6A8GT, 6K7GT, [2]6Q7GT, 6K6GT, 6X5GT	456	14-64
B17137, B17138	Vol.	N2876	18	UM154-SS18	M26			N2915	24	2N511					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	14-66

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CORP.—Continued																		
B17140	Vol.	N4125	18	Order from	Mfr.			N4178	24/15	2S569/TC26		N1460	859	C3	5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	456	14-6
								.006		Buffer	B14							
B17141, B17142	Vol.	N3411	18	MR53	M27			N1367	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	456	14-67
B17145	Vol.	24-103	18	UM157-SS17				18-264	24/19	FP234/TC29		34-104	859	C3	7	‡6SK7, 6SA7, 6SQ7GT, 6J5GT, 6K6GT, 6X5GT	262	14-67,68
	Tone	26-103	22	MR48				.003		Buffer	B14							
B17150	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N513					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	14-69,70
B17155	Vol.	3538	18	MR48	M26			2534	1/15	2S569/TC26					6	‡6SK7, 6SA7, 6SQ7, 6K6GT, 6X5GT	455	14-71
	Tone	3539	21	MR53														
D100, D101	Vol.	50.51A	18	MR48	M26			20.103B	1	2N513					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	14-1
D104, D105	Vol.	N3877	18	MK401	M26			N3302	24	2N511					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	14-1
D109	Vol.	50.47A	18	MR48	M26			20.103B	1	2N513					6	‡6SK7GT, 6SA7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	14-2
	Tone	55.28	22	MR48														
D110	Vol.	24-160	18	TM230-SS25	M26			18-266	1	2N513					7	6SA7, 6SK7, ‡6SQ7, ‡25L6GT, 25Z6GT	455	14-2,3
D121, D122	Vol.	N3248	18	MK401	M26			N3554	24	2N511					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	14-14
D125	Vol.	50.77	18	MR48	M26			20.107A	4	TCS75					7	‡6SK7GT, 6SA7GT, 6SQ7GT, 6J5GT, 6V6GT, 80	456	14-4
	Tone	55.33	22	MR48				20.89	15	TC26								
D127	Vol.	50.74A	140	MRT450	M26			20.132	1	2S569					8	‡6SK7GT, 6SA7GT, ‡6SQ7GT, ‡6K6GT, 80	456	14-5
	Tone	55.32	140	UC506														
D130	Vol.	N4125	18	Order from	Mfr.			N4178	24/15	2S569/TC26		N4160	859	C3	5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	456	14-6
								.006		Buffer	B14							
D132	Vol.	36X275	124	Order from	Mfr.			45X271	24/15	Order from	Mfr.	19A33	248	C3	7	‡6SK7, 6SA7, 6SQ7, 6K6G, 6N7G	456	14-11-13
	Tone	40X212	22	MR55				.008		Buffer	B14							
D140, D141	Vol.	N3411	18	MR53	M27			N1367	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	456	14-15
D149	Vol.	50.74A	140	MRT450	M26			20.132	1	2S569					8	‡6SK7GT, 6SA7GT, ‡6SQ7GT, ‡6K6GT, 80	456	14-5
	Tone	55.32	140	UC506														
D160, D161	Vol.	24-150	149	MK402				18-266	76	2N513					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z4GT	455	14-19,20
								18-271	76	TC2501/TC29	B8							
D165	Vol.	50.67	149	MR48	M27			20.118	1	2N513					7	‡1N5GT, 1A7GT, 1H5GT, 3Q5GT, 50L6GT, 35Z5GT	456	14-21
D170	Vol.	N3045	18	UM154-SS22	M26			N3114	24	2N511					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	14-22
D174	Vol.	N2876	18	UM154-SS18	M26			N2915	24	2N511					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	14-22,23
D176	Vol.	8910	18	‡		See Note A5		8425	1/13	FP371					8	12SA7GT, 12SK7GT, ‡12SQ7GT, ‡35L6GT, 6U5, 35Z6G	455	14-25-27
D180	Vol.	50.77	18	MR48	M26			20.107A	4	TCS75					7	‡6SK7GT, 6SA7GT, 6SQ7GT, 6J5GT, 6V6GT, 80	456	14-4
	Tone	55.33	22	MR48				20.89	15	TC26								
D182	Vol.	85-281	Spec.	Order from	Mfr.			51-266	1/13	FP380					14	6SK7, 6SA7, ‡6AC7, AM		
	Bass	87-281	15	MR53	M26			45-266	15	FP143						‡6SJ7, ‡6H6, 6U5, 6J5, ‡6V6G, 5Y3G. FM 4.3 Mc	465	14-28-30
	Treble	48-281	22	MR48														
D185, D186	Vol.	50.77	18	MR48	M26			20.107A	4	TCS75					7	‡6SK7GT, 6SA7GT, 6SQ7GT, 6J5GT, 6V6GT, 80	456	14-4
	Tone	55.33	22	MR48				20.89	15	TC26								
D189, D190	Vol.	50.74A	140	MRT450	M26			20.132	1	2S569					8	‡6SK7GT, 6SA7GT, ‡6SQ7GT, ‡6K6GT, 80	456	14-5
	Tone	55.32	140	UC506														
D197	Vol.	85-281	Spec.	Order from	Mfr.			51-266	1/13	FPT390					14	6SK7, 6SA7, ‡6AC7, AM		
	Bass	87-281	15	MR53	M26			45-266	15	FP143						‡6SJ7, ‡6H6, 6U5, 6J5, ‡6V6G, 5Y3G. FM 4.3 Mc	465	14-28-30
	Treble	48-281	22	MR48														
D311	Vol.	50.77	18	MR48	M26			20.107A	4	TCS75					7	‡6SK7GT, 6SA7GT, 6SQ7GT, 6J5GT, 6V6GT, 80	456	14-4
	Tone	55.33	22	MR48				20.89	15	TC26								
D312	Vol.	50.70	140	MRT450	M26			20.131	46	TC74					9	‡6SK7GT, 6SA7GT, ‡6SQ7GT, ‡6K6GT, 6U5, 80	456	14-31
	Tone	55.35	140	UC506				20.143	46	2S569								
D315	Vol.	50.77	18	MR48	M26			20.107A	4	2S569					7	‡6SK7GT, 6SA7GT, 6SQ7GT, 6J5GT, 6V6GT, 80	456	14-4
	Tone	55.33	22	MR48				20.89	15	TC26								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CORP.—Continued																		
D345	Vol.	50.77	18	MR48	M26			20.107A	4	TCS75					7	[26]SK7GT, 6SA7GT, 6SQ7GT, 6J5GT, 6V6GT, 80	456	14-4
	Tone	55.33	22	MR48				20.89A	15	TC26								
D355	Vol.	50.77	18	MR48	M26			20.107A	4	TCS75					7	[26]SK7GT, 6SA7GT, 6SQ7GT, 6J5GT, 6V6GT, 80	456	14-4
	Tone	55.33	22	MR48				20.89	15	TC26								
D366, D367	Vol.	50.60	18	MR48	M27			20.124	1	2N511					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	14-4
								20.139	78	Order from	Mfr.							
E9830	Vol.		45	MR44				8-8	4	2S567	B33				8	47,[2]56, 57,[2]58, 80	177.5	3-12
	Tone		22	MR33														
E9831	Vol.		45	MR44				8, 8	4	ST595	B3				10	[2]56, 57,[2]58,[2]47, 80	177.5	3-13
	Tone		22	MR33														
E10700, E10701	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N513					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
E10702, E10703 First Issue	Vol.	V23	6	UM129-SS18	M26	EX200		C233	46	TN125					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT		
E10704	Vol.	V20	18	MR53	M26			C237	46	FP357					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G, K49B	456	
E10705	Vol.	V22	45	MRT427	M26			C237	46	FP357					7	6A8G, [2]6J5G, 6K7, 6F6G, 25L6G, 25Z6G	456	
	Tone	V109	22	MR28		See Note A90												
E10706	Vol.	V22	45	MRT427	M26			C237	46	FP357					7	6A8G, 6K7, 6F6G, [2]6J5G, 25L6G, 25Z6G	456	
	Tone	V109	22	MR28		See Note A90												
E10707	Vol.	V20	18	MR53	M26			C239	1/13	FP367					7	6K8, 6K7, 6Q7G, 6J5G,[2]25L6G, 25Z6G, BK17EI	456	
	Tone	V15	‡	MR48														
E10708	Vol.	V20	18	MR53	M26			C239	1/13	FP367					7	6K8, 6K7, 6Q7G, 6J5G,[2]25L6G, 25Z6G, BK17EI	456	
	Tone	V15	‡	MR48														
E10709	Vol.	V13	18	MR48	M26			C241	6	2N511					7	6K8, 6K7, 6Q7G, 6J5G,[2]25L6G, 25Z6G, BK17EI	456	
	Tone	V15	‡	MR48														
E10710	Vol.	V13	18	MR48	M26			C241	6	2N511					7	6K8, 6K7, 6Q7G, 6J5G,[2]25L6G, 25Z6G, BK17EI	456	
	Tone	V15	‡	MR48														
E10711	Vol.	V22	124	MRT427	M26			C246	54	RS215					9	6K8, 6K7, 6H6,[2]6J5, [2]6F6, 5Y3G	456	
	Tone	V111	22	MR48				C245	54	See Note	B3							
								C247	20	TC26								
E10712	Vol.	V22	124	MRT427	M26			C246	54	RS215					9	6K8, 6K7, 6H6,[2]6J5, [2]6F6, 5Y3G	456	
	Tone	V111	22	MR48				C245	54	See Note	B3							
								C247	20	TC26								
E10713	Vol.	N1734	17	MR48	M26			N1755	24/13	TN129					7	6K7, 6Q7G, 6A8G, 6J5G, [2]25L6G, 25Z6G	456	
	Tone	N1735	44	SRP263														
E10714	Vol.	N1734	17	MR48	M26			N1755	24/13	TN129					7	6K7, 6Q7G, 6A8G, 6J5G, [2]25L6G, 25Z6G	456	
	Tone	N1735	44	SRP263														
E10715	Vol.	N1546	18	MR48	M27			N1367	12	TC42					4	1A7G, 1N5G, 1J5G, 1C5G	456	
E10716	Vol.	N1504	18	UM154-SS18	M27			N1367	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	
E10718	Vol.	V20	18	MR53	M26			C238	1/19	FP332					5	6K8, 6K7, 6Q7G, 25A6G, 25Z6G, K49B/165R8G	456	
	Tone	V15	‡	MR48														
E10719	Vol.	V20	18	MR53	M26			C236	46	FP360		F-4	246	C3	4	6A8G, 6K7, 6Q7G, 6G6G	456	
E10720	Vol.	V20	18	MR53	M26			.01-.01		Buffer	B14							
	Tone	V110	22	MR48				C242	1	FP225		F-4	246	C3	5	6D8G, 6S7G, 6L5G, 1H4G, 1J6G	456	
E10721	Vol.	V20	18	MR53	M26			.01-.01		Buffer	B14							
	Tone	V110	22	MR48				C242	1	FP225		F-4	246	C3	5	6D8G, 6S7G, 6L5G, 1H4G, 1J6G	456	
E10722	Vol.	V22	45	MRT427	M26			.01-.01		Buffer	B14							
	Tone	V109	22	MR28		See Note A90		C237	46	FP357					7	6A8, [2]6J5G, 6K7, 6F6G, 25L6G, 25Z6G	456	
E10723	Vol.	V20	18	MR53	M26			C239	1/13	FP367					7	6K8, 6K7, 6Q7G, 6J5G, [2]25L6G, 25Z6G, BK17EI	456	
	Tone	V15	‡	MR48														
E10725	Vol.	N1238	18	Order from	Mfr.			N1369	24/15	FP328	BF17	N1236	264	C3	4	6A7GT, 6K7GT, 6Q7GT, 6K6GT	456	
E10726	Vol.	V13	18	MR48	M26			.008-.008		Buffer	B14							
	Tone	V15	‡	MR48				C241	6	2N511					7	6K8, 6K7, 6Q7GT, 6J5G, [2]25L6G, 25Z6G, BK17EI	456	
E10727	Vol.	V20	18	MR53	M26			C242	1	FP225		F-4	246	C3	6	6D8G, 6S7G, 6L5G, 1H4G, 1J6G, 6T7G	456	
	Tone	V110	22	MR48				.01-.01		Buffer	B14							
E10728	Vol.	V22	124	MRT427				C246	54	RS215					9	6K8, 6K7, 6H6, [2]6J5, [2]6F6, 5Y3G	456	
	Tone	V111	22	MR48				C245	54	See Note	B3							
								C247	20	TC26								
E10730	Vol.	P3099	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CORP.—Continued																		
E10731	Vol.	P3099	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10732	Vol.	P3099	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10733	Vol.	P2432A	18	MR48	M26		A58	25-10	1	2N513					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	
E10734	Vol.	P2432A	18	MR48	M26		A58	25-10	1	2N513					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	
E10735	Vol.	P2432A	18	MR48	M26		A58	25-10	1	2N513					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	
E10736	Vol.	P2935	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10737	Vol.	P2935	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10738	Vol.	P2935	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10740	Vol.	P3082	18	MR48	M26			P3086	1/15	FP332	B117				6	6A7, 6D6, 75, 76, 41, 80	456	
E10741	Vol.	P2817	18	2 Meg.			A19	P2631	1	TCD72					8	6A7, ²76, 75, 6D6, ²41, 80	456	
E10742	Vol.	P2817	18	2 Meg.			A19	P2631	1	TCD72					8	6A7, ²76, 75, 6D6, ²41, 80	456	
E10743	Vol.	P2659	18	TM233-SS25	M26			P2631	1	TCD72					8	6A7, 6D6, 75, ²76, ²41, 80	456	
E10744	Vol.	P2705	20	MRT451				P1939	1	2N518					11	6A8G, ²6K7G, ²6J5G, ²6F6G, 5Z3	456	
	Tone	P2706	‡	UM160-SS1				P1937	13	RS223								
E10745	Vol.	P2705	20	MRT451				P1939	1	2N518					11	6A8G, ²6K7G, ²6J5G, ²6F6G, 5Z3	456	
	Tone	P2706	‡	UM160-SS1				P1937	13	RS223								
E10746	Vol.	P2935	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10747	Vol.	P2935	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10750	Vol.	P3099	18	MR48	M26			25-10	1	2N513					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10751	Vol.	P2321	18	UM154-SS3	M26			P2329	23	TCS71		P1414	859	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	
								.006		Buffer	B14							
E10752	Vol.	P1371	18	UM154-SS3	M26			P1293	23	2S567		P1414	859	C3	6	²6K7, 6A8G, 6Q7G, 6K6G, 6X5G	175	
	Tone	P828	22	MR39				.0075		Buffer	B14							
E10765, E10765A	Vol.	4803	18	MK401	M23			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10766, E10766A	Vol.	4871	18	UM154-SS22				1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10770	Vol.	4839	18	MK401	M26			4895	4	TC47					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	455	
E10771, E10772	Vol.	4839	18	MK401	M26			10245	25	TC71					5	6A7, 6K7, 6Q7G, 41, 80	455	
E10773, E10774	Vol.	10012	18	MK401				3718	1	2N518					6	6K8, 6K7, 75, 41, 80, 6U5	455	
	Tone	10013	22	UM133-SS25				1693	15	TC22								
E10775	Vol.	10441	18	MK401	M27			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10779, E10780, E10781, E10782	Vol.	4803	18	MK401	M23			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10783, E10784	Vol.	4871	18	UM154-SS22				1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10785, E10785A	Vol.	4803	18	MK401	M23			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10786	Vol.	4871	18	UM154-SS22				4096	1	2N518		4105	294	C3	5	6D8G, 6S7G, 6T7G, 6D6G, 6ZY5G	455	
								1693	15	TC22								
								.03-.03		Buffer	B14							
E10788	Vol.	4871	18	UM154-SS22											6	6K8, 6K7, 6Q7G, 6C5G, ²25L6G	455	
	Tone	4872	22	UM133-SS22	M26													
E10790	Vol.	4871	18	UM154-SS22				4841	24	2N509		3698	245A	C3	6	6D8G, 6S7G, 6L5G, 6T7G, 6G6G, 6N5	455	
	Tone	4872	22	UM133-SS22	M26			1693	15	TC22								
								.03		Buffer	B14							
E10792	Vol.	4803	18	MK401	M23			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10793	Vol.	4871	18	UM154-SS22				1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10794	Vol.	4871	18	UM154-SS22											6	6K8, 6K7, 6Q7G, 6C6G, ²25L6G	455	
	Tone	4872	22	UM133-SS22	M26													
E10795	Vol.	4839	18	MK401	M26			10245	25	TC71					5	6A7, 6K7, 6Q7G, 41, 80	455	
E10797, E10798, E10799	Vol.	10227	124	TM251-SS25				10470	3	RS223					11	²6K7, 6K8, 6Q7G, 6C5G, ²6L6, 6AF6G, ²6AF6G, 5Z3	455	12-22-24
								10102	3	3S584	B8							
								1693	15	TC22								
E10800	Vol.	V20	18	MR53	M26			C237	46	FP357					5	6A8G, 6K7G, 6Q7G, 25Z6G, 25L6G, K49B	456	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CORP.—Continued																		
E10801, E10802	Vol.	V13	18	MR48	M26			C240	24	TC45					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	
								C230	18	TC44								
E10803	Vol.	V20	18	MR53	M26			C237	46	FP357					5	6A8G, 6K7G, 6Q7G, 25L6G, K49B, 25Z6G	456	
E10805	Vol.	V6	6	MR28	M26	EX200		C235	8	Order from	Mfr.				4	6D6, 6C6, 25L6G, 25Z5, K55B		
								C244	8	FP354								
E10806	Vol.	V20	18	MR53	M26			C238	1/19	FP332					5	6K8, 6K7, 6Q7G, 25A6G, 25Z6G, K49C/168R8G	456	
	Tone	V15	‡	MR48														
E10807, E10808, E10809	Vol.	V13	18	MR48	M26			C241	6	2N511					6	6K8, 6K7, 6Q7G, [3]25L6G, 25Z6G, BK17EI	456	
	Tone	V15	‡	MR48														
E10810, E10811, E10812	Vol.	V20	18	MR53	M26			C239	1/13	FP367					7	6K8, 6K7, 6Q7G, 6J5G, [3]25A6G, 25Z6G	456	
	Tone	V15	‡	MR48														
E10813, E10814, E10815	Vol.	V22	124	MRT427	M26			C246	54	RS215					9	6K8, 6K7, 6H6, [3]6J5G, [3]6F6G, 5Y3G	456	
	Tone	V111	22	MR48				C245	54	See Note	B3							
								C247	20	TC26								
E10818	Vol.	V20	18	MR53	M26			C237	46	FP357					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G, K49B	456	
E10821, E10822	Vol.	V22	17	MRT427	M26			C250	54	RS216					12	[4]6K7, 6K8, 6H6, [3]6J5G, [3]6V6G, 5U4G	456	14-48,49
	Bass	V111	125	MR48				C251	54	FP225								
	Tone	V111	‡	MR48				C247	20	TC26								
E10825, E10826, E10827, E10828, E10829, E10830	Vol.	V20	18	MR53	M26			C242	1	FP225		F-4	246	C3	6	6D8G, 6S7G, 6T7G, 6L5G, 1H4G, 1J6G	456	
	Tone	V110	22	MR48				.01-.01		Buffer	B14							
E10831, E10832	Vol.	V20	18	MR53	M26			C236	46	FP360		F-4	246	C3	4	6A8G, 6K7, 6Q7G, 6G6G	456	
								.01-.01		Buffer	B14							
E10835, E10836	Vol.	V18	18	MR48	M27			C230	12	TC42					4	1C7G, 1D5GP, 1F7G, 1G5G	456	
E10840, E10841, E10842	Vol.	P2392	18	MR53	M26			P2397	23	2S567	B33				5	6A7, 6D6, 75, 41, 5Y3G	456	
E10845, E10846, E10847, E10848	Vol.	P2432A	18	MR48	M26		A58	P2668	1	2N513					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	12-25
E10850, E10851	Vol.	P2705	20	MRT451				P1939	1	2N518					11	6A8G, [3]6K7G, [3]6J5G, [3]6F6G, 5Z3	456	12-26,30
	Tone	P2706	‡	UM160-SS1				P1937	13	RS223								
E10855, E10856, E10857, E10858	Vol.	P2498	6	MR36	M26			30	1	TC47					4	6K7, 6J7, 25L6, 25Z6		11-22
								10	1	TC44								
E10860, E10861	Vol.	P2213	6	MR36	M26			P2216	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, L55BG		12-25
E10863, E10864	Vol.	P2213	6	MR36	M26			P2216	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, L55BG		
E10865, E10866, E10867, E10868	Vol.	P2450A	18	MR48	M26			P2456	23	TC71					5	6A7, 6D6, 75, 41, 80	456	11-22
E10870, E10872	Vol.	P2558A	18	MK401	M26			P2575	25	TC72					7	6A7, 6D6, 76, 75, 41, 80, 6G5	456	
	Tone	P2559A	22	MK401														
E10874, E10875, E10876, E10877	Vol.	P2659	18	TM233-SS25	M26			P2631	1	FP231	B128				8	6A7, 6D6, [3]76, 75, [3]41, 80	456	
E10880, E10881	Vol.	P1989	7/45	Order from	Mfr.			25	30	RS223					16	[4]6K7G, 6L7G, 6J7G, [3]6F6G, [3]6J5G, 6F8G, [3]6L6G, [3]5Z3	456	12-27-30
	Tone	P1991	21	MR48				12	30	RS215								
								4-4	13/14	2N518								
E10882A, E10883A, E10884A, E10885A, E10886A, E10887A	Vol.	4871	18	UM154-SS22				4096	1	2N518		4105	294	C3	5	6D8G, 6S7, 6T7G, 6G6G, 6ZY5G	455	12-31
	Tone	10148	22	MR33	M27			1693	15	TC22								
								.03-.03		Buffer	B14							
E10890	Vol.	P2321	18	UM154-SS3	M26			P2329	23	TCS71		P1414	859	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	11-20
								.006		Buffer	B14							
E10891	Vol.	P1371	18	UM154-SS3	M26			P1293	23	2S567		P1414	859	C3	6	[3]6K7, 6A8G, 6Q7G, 6K6G, 6X5G	175	11-21
	Tone	P828	22	MR39				.0075		Buffer	B14							
E10893	Vol.	220	6	II	6			1733	46/15	FP409					4	6D6, 6C6, 43, 25Z5		
E10894	Vol.	221	18	MR48	M26			1733	46/15	FP409					6	6A7, 6D6, 6Q7, 25A6, 25Z5, 6U5	465	
E10895	Vol.	221	18	MR48	M26			1732	1/15	FP316					5	6A7, 6D6, 6Q7, 41, 80	456	
E10896	Vol.	221	127	MR48	M26			1733	46/15	FP409					7	6A7, 6D6, 76, 6K5, 25A6, 25Z5, 6U5	465	
	Tone	305	34	‡		See Note	A5											
E10897, E10898, E10899	Vol.	221	18	MR48	M26			1736	1	FP227					8	6A7, 6D6, 6Q7, 76, 6U5, [3]43, 25Z5	465	
	Tone	305	44	‡		See Note	A5											

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS						
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
ALLIED RADIO CORP.—Continued																		
E10900, E10901, E10902, E10903	Vol.	10227	124	TM251-SS25				10470	3	RS223					11	[3]6K7, 6K8, 6Q7G, 6C5G, [3]6L6, 6AE6G, [3]6AF6G, 5Z3	455	
								10102	3	TCD72								
								1693	15	TC22								
E10905	Vol.	4839	18	MK401	M26			4772	1	2N518					6	6A8G, 6K7, 6Q7G, 6K6G, 6U5, 5Y4G	455	
								1693	15	TC22								
E10906, E10907	Vol.	10057	124	TM251-SS25				10036	24	TCD55		3698	245A	C3	7	[3]6S7, 6K8, 6T7G, 6G6G, 6Z7G, 6N5	455	
	Tone	10058	‡	Order from	Mfr.			1693	15	TC22								
								.03		Buffer	B14							
E10910, E10911	Vol.	4803	18	MK401	M23			1693	19	TC22					5	1C7G, 1D5GP, 1H4G, 1E5GP, 1G5G, 4-1	455	
	Tone	4862	22	UM133-SS25														
E10912, E10913	Vol.	4803	18	MK401	M23			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10914, E10915	Vol.	4871	18	UM154-SS22	M23			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10916, E10917	Vol.	4803	18	MK401	M23			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10920	Vol.	4871	18	UM154-SS22											6	6K8, 6K7, 6Q7G, 6C5G, [3]25L6G	455	
	Tone	4872	22	UM133-SS22	M26													
E10925	Vol.	4803	18	MK401	M23			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
F9451	Vol.		18	UC512				6-12	1	TCD72			292	C3	5	6A7, 6D6, 6B7, 41, 84	456	
								10	15	TC22								
								.02-.02		Buffer	B14							
F9501	Vol.		6	MR39		EX400		20-4-5-5	6/15	See Note	B5				5	78, 44, 77, 43, 25Z5	456	5-1
F9505	Vol.		15	MR44				4-4	4	2S567	B33				5	6A7, 42, 75, 78, 80	456	5-2
	Tone		22	MR39	M27			5, 5	15/19	TC22								
F9511	Vol.		9	Y250MP				5	19	TC22					5	1A6, 19, 30, 32, 34	456	5-2
	Tone		22	MR39														
F9515	Vol.		15	MR44				6-10-5-5	1/15	TCD52/TN111			Order from Mfr.		5	6A7, 42, 75, 78, 84	456	5-3
	Tone		22	MR39	M27			.05-.05		Buffer	B14							
F9521	Vol.		6	G7		2		4-4	4	2S567	B33				4	42, 77, 78, 80		5-3
	Tone		22	Order from	Mfr.													
F9525, F9527	Vol.		6	MR40		EX400		20-4-5-5	6/15	3S52/TN111					4	25Z5, 43, 44, 77		5-4
F9531	Vol.		15	MR48	M26			8	5	TC71					8	37, [3]42, [3]78, 80, 85	465	5-5
	Tone		41	MR39				4	5	TC70								
F9541	Vol.		15	UM154	M26	See Note A96		6-10-5-5	1/15	See Note	B5		Order from Mfr.		6	6A7, 41, 75, [3]78, 84	175	5-6
								.05-.05		Buffer	B14							
F9551	Vol.		15	UM147	M26	See Note A96		8-16	4	TCS74			292	C3	7	6A7, 37, 41, [3]78, 84, 85	‡	5-7
								10	15	TC22								
F9555	Vol.		7	G		2		6-6	1	2N518					5	2A5, 57, [3]58, 80		5-8
								10-10	15	TN111								
F9591	Vol.		15	MR48	M26			8	5	ST595					8	37, [3]42, [3]78, 80, 85	456	5-5
	Tone		41	MR39				4	5	TC70								
F9610, F9612, F9613	Vol.		15	MR48				8, 8	1	RS213					8	2A5, [3]56, [3]57, [3]58, 80	485	
	Tone		22	MR18	M26			10	15	TC22								
F9618, F9619	Vol.		45	MR48				8, 8	1	ST595					12	[3]46, [3]56, [3]57, [3]58, 80	175	7-5
	Suppr.		47	F				5, 5	15/17	TC22								
	Tone		21	MR48														
F9630, F9635	Vol.		45	MR48				8-4	4	2S567	B33				7	[3]56, [3]57, 58, 2A5, 80	456	
	Tone		22	MR33														
F9640, F9645	Vol.		15	MR48				8, 8	4	ST595					8	2A5, [3]56, 57, [3]58, 80	177.5	
	Tone		22	MR33														
F9650, F9654	Vol.		15	MR44				12	4	ST597					10	[3]2A5, 55, 56, 57, [3]58, 80	‡	
	Tone		22	MR33				8	4	ST595								
F9660, F9665	Vol.		45	MR44				12	4	ST597					10	[3]2A5, [3]56, 57, [3]58, 80	177.5	
	Tone		22	MR33				8	4	ST595								
F9670, F9675	Vol.		45	MR44				8	3	RS213					12	5Z3, [3]59, [3]56, 57, [3]58	‡	
	Tone		22	MR33				12-8	3	TCD72								
F9751	Vol.		15	MR44				4-4	4	2S567	B33				5	6A7, 42, 75, 78, 80	456	
	Tone		22	MR39	M27			5, 5	15/19	TC22								
F9761, F9767	Vol.		15	MR48	M26			8	26	ST595					8	37, [3]78, 85, [3]42, 80	456	
	Tone		41	MR39				4	26	TC70								
F9775	Vol.		9	Y250MP				5	19	TC22					5	1A6, 19, 30, 32, 34	456	
	Tone		22	MR39	M27													
F9777	Vol.		15	MR44				6-10-5-5	1/15	See Note	B5		Order from Mfr.		5	6A7, 78, 75, 42, 84	456	
	Tone		22	Order from	Mfr.			.05-.05		Buffer	B14							
G9503	Vol.		6	MR18	M26	EX200		16-12	27	TCS44					4	6C6, 6D6, 12Z3, 43		6-1
G9505	Vol.		7	MR19	M26	EX200		8-4	4	2S567	B33				5	6C6, [3]6D6, 42, 80		6-1
G9511, G9513	Vol.		18	MR48				8-4	23	2S567	B33				5	6A7, 6D6, 42, 75, 80	465	6-1
G9515	Vol.		18	UM154		See Note A96		6-12	1	3S584	B8		292	C3	5	6A7, 6B7, 6D6, 41, 84	456	6-2
								10	15	TC22								
								.02-.02		Buffer	B14							
G9517	Vol.		18	UM154		See Note A96		6-12	1	3S584	B8		292	C3	6	6A7, [3]6D6, 41, 75, 84	175	6-3
								10	15	TC22								
								.02-.02		Buffer	B14							
G9527	Vol.		18	MR48				8-4	23	2S567	B33				5	6A7, 6D6, 75, 42, 80	456	7-1
G9533	Vol.		18	MR48				8-8	4	2S567	B33				6	6A7, [3]6D6, 42, 75, 80	465	6-4
	Tone		22	MR18														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CO	RP.—Continued																	
G9545, G9547, G9549	Vol.	3120	18	MRT427	M26			3004	28	2N518					8	6A7, 42, 76, ‡78, 80, 85	465	6-5
	Tone	3119	22	MR24				1948	28	ST595								
	Suppr.	3121	48	MR20														
G9551	Vol.		6	MR18	M26			4-4	4	2S567	B33				4	42, 77, 78, 80		6-6,7
	Tone		22	MR39	M27													
G9553	Vol.		17	MR48				8-20-5	11	UR182	B17				5	6A7, 6D6, 25Z5, 43, 75	456	6-7
								5	15	TC22								
								5	13	TC52								
G9557	Vol.		17	MR48				5-20-8	11	UR182	B31				5	6A7, 6D6, 25Z5, 43, 75	456	6-6
								5	15	TC22								
G9561, G9563, G9565, G9567	Vol.		15	MR48											5	1C6, ‡30, 33, 34	456	6-7
	Tone		22	MR39														
G9561, G9563, G9565, G9567 (above No. 61700)	Vol.		33	MR48											5	1C6, 19, 30, 32, 34	465	6-8
	Tone		22	MR39														
G9575 to G9605 Inc.	Vol.		15	MR48				8-8	1	2N518					8	‡6D6, 6A7, 75, 76, ‡42, 80	456	7-2
	Tone		22	MR39				8	14	ST595								
								5	15	TC22								
G9599	Vol.		17	UM154		See No	te A96	6-10	1	TCD72			Order fro	m Mfr.	6	6A7, 41, 75, ‡78, 84	465	6-9
								5, 5	15	TC22								
								.05-.05		Buffer	B14							
G9611, G9613	Vol.	1322	45	MR48											5	1A6, 30, 32, 33, 34	465	6-10
G9615	Vol.	1322	18	MR48				1258	1	RS213		1381	F294	C3	5	6A7, 6D6, 75, 38, 84	465	7-3,4
	Tone	1382	22	MR24	M26			1260	1	RS213								
								9328	15	TN111								
								.01-.01		Buffer	B14							
G9617, 9619, 9623, 9625, 9627	Vol.	1289	45	MR48	M27			1291	12	ST595					6	1C6, 34, ‡30, 32, 19	465	7-5
G9629, 31, 33, 35, 37, 39	Vol.	1447	45	MR48	M27			1291	12	ST595					9	‡34, 1C6, ‡30	465	7-9-12
	Tone	1450	22	MR33														
G9643, G9645	Vol.	1495	17	MR48	M26			1477	1	RS215					7	‡6D6, 6A7, 75, 76, 41, 80	465	7-6,7
	Tone	1450	22	MR33				1476	1	RS216								
								8876	15	TC32								
G9881	Vol.		18	UM154		See No	te A96	6-12	1	TCD72			292	C3	5	6A7, 6B7, 6D6, 41, 84	456	6-2
								10	15	TC22								
								.02-.02		Buffer	B14							
G9882	Vol.		18	UM154		See No	te A96	6-12	1	TCD72			292	C3	6	6A7, ‡6D6, 41, 75, 84	175	6-3
								10	15	TC22								
								.02-.02		Buffer	B14							
H9744, H9745	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, ‡34, ‡30, 19	456	
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
H9766	Vol.	P801	17	UM163-SS3	M26			P795	4	TCS71		P816	294	C3	6	6D6, 6A7, 6K7, 75, 6F6, 84	175	
	Tone	P828	22	MR39				G864	15	TC22								
								.0075		Buffer	B14							
H9771	Vol.	1835	6	SRP263	6	EX200		1258	25	RS213					4	6D6, 6C6, 42, 80		
								1260	25	RS213								
								8876	15	TC22								
‡H9773, H9774	Vol.	2239	18	MR48											4	1C6, 34, 1B5, 33, 5E1	465	
H9777, H9779, H9780, H9781, H9782	Vol.	2198	18	UM154-SS16				2289	13	TC42					6	1C6, ‡34, ‡30, 19	465	
	Tone	2331	22	MR33	M23													
H9784, H9785, H9786	Vol.	2198	18	UM154-SS16				1477	25	RS215					8	6A7, 6K7, 75, 6C5, 6E5, ‡6F6, 80	465	
	Tone	2199	44	MR33	M26			1476	25	RS216								
								1110	13	TC71								
H9787, H9791, H9792, H9795	Vol.	2699	18	MRT428				3167	25	RS223					11	‡6K7, 6L7, 6J7, 6H6, 6G5, ‡6C5, ‡6F6, 5Z3	465	
	Tone	2700	22	MR33	M26			1476	25	RS216								
								3170	19	TC32								
								8876	15	TC22								
								1110	13	TC71								
L5	Vol.	P660	18	MR48	M26			P474	32	RS213					7	5Z4, 6F5, 6F6, 6H6, 6K7, 6L7, 6C5	456	
	Tone	P661	34	MR39				P160	32	2S567	B81							
								P304	15	TC22								
L6	Vol.	P660	18	MR48	M26			P474	32	RS213					8	5Z4, 6C5, ‡6F6, 6K7, 6L7, ‡6Q7	456	
	Tone	P661	44	MR39				P160	32	2S567	B81							
								P304	15	TC22								
L7	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, 19, ‡30, ‡34	456	
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
P (AC)	Vol.		15	MR48				4-4	4	2S567	B33				5	47, 55, 57, 58, 80	175	4-1
	Tone		22	MR39				10	19	TC22								
P (Batt.)	Vol.		9	MR20	M26			8	13	TC42					5	‡32, 33, ‡34	175	4-1
	Tone		22	MR39				10	‡	TC22								
SG8	Vol.		6	MR24	M28	See No	te A8	1.8-2.3-2.3	3	See Note	B1				8	‡24, ‡27, ‡45, 80		3-4,5
SG9	Vol.		24	DRP119	6		A9	8, 8, 8	3	ST595					9	‡24, ‡27, ‡45, 80		3-6
	Tone		41	MR48														
SG10	Vol.		7	MR37			A10	2-2.5-2.5	3	See Note	B1				10	24, ‡27, ‡45, 80		3-7

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CORP.—Continued																		
T (Auto.)	Vol.		17	UM154		See Note	A96	6-10	1	TCD72			Order from Mfr.		6	6A7, 41, 75,[3]78, 84	175	
								5, 5	15	TC22								
								.05-.05		Buffer	B14							
U	Vol.		6	MR40		EX400		4-20	6	2N509					5	25Z5, 43, 44, 77, 78		
								5, 5	15	TC22								
U6	Vol.		17	UM163-SS3	M26			P795	4	2S567	B33	P816	294	C3	6	6D6, 6A7, 6K7, 75,		
	Tone		22	MR39				G864	15	TC22						6F6, 84	175	8-10
								.0075		Buffer	B14							
V	Vol.		7	MR40	M26			20-4	6	2N509					4	25Z5, 43, 44, 77	456	
								5, 5	15	TC22								
W	Vol.		15	MR48				8	26	ST595					8	37,[3]42,[3]78, 80, 85	456	
	Tone		41	MR39				4	26	TC70								
Z4	Vol.	P680	45	Order from	Mfr.			P391	1	2S567	B26	P402	245C	C3	6	1C6, 19,[3]30, 32, 34	456	
	Tone	P682	44	MR39				.01-.01		Buffer	B14							
Z5	Vol.	P680	45	Order from	Mfr.			P958	1	2N518		P402	245C	C3	6	1C6, 19,[3]30, 32, 34	456	8-6
	Tone	P682	44	MR39				.01-.01		Buffer	B14							
"Knight" 6820	Vol.		45	MR48				8-4	1	2N518			Order from Mfr.		6	1C6, 34,[3]30, 19	465	
	Tone		22	‡		See Note	A5	.01-.01		Buffer	B14							
AMERICAN BOSCH—See United American Bosch.																		
AMERICAN FOUNDATION FOR THE BLIND																		
U	Vol.		6	SRP263	6			8-16	6	2N509					5	[3]6C6, 6D6, 43, 25Z5	175	7-1,2
	Tone		22	MR33				2-4	15	TN111								
	Phono.		63	MR33														
X	Vol.		6	MR18	M26	EX200		4-4	4	2S567	B33				5	[3]6D6, 6C6, 42, 80		7-1,2
	Tone		22	MR33				5	15	TC22								
	Phono.		63	MR24														
30	Vol.		6	SRP263	6			8-16	6	2N509					5	[3]6C6, 6D6, 43, 25Z5	175	7-1,2
	Tone		22	MR33				2-4	15	TN111								
	Phono.		63	MR33														
AMERICAN TRAN. CORP.																		
25A (A Unit)	Vol.		15	MR48											3	[3]26, 27		1-1
250	Vol.		15	MR44				2-4-4		See Note	B4				7	[3]27,[3]50,[3]81		1-2
AMRAD																		
AC5	Vol.		29				A11	S-60	3	2N518					7	[3]216B, 12,[4]99		1-4
								D-15-30		2N518								
AC6	Vol.		14	MR48											6	[4]26, 27, 71		1-6
AC7, AC7C	Vol.		10	MR21				8-8-8-8	1/14	FP434					8	[3]26, 27, 71A, 80		1-3
DC6, DC6C	Vol.		29	Q											6	[3]01A, 12A or 71A		1-6
	Vol.		29	S														
DC7, DC7C	Vol.		29	S											7	[4]01A, 71A		1-3
70 (Concerto, Nocturn, Opera, Sonata)	Vol.		‡	MR21						See Note	B3				8	[4]26, 27, 10 or 50,[3]81		1-8
81 (Aria, Minuett, Serenata, Duet, Symphony)	Vol.		12	MR33				8-8-18-18	1/22	FP444					8	[3]24,[3]27,[3]45, 80		3-1,2
84, 84C, 84D	Vol.		15	MR48				9-9-18	3	FP434	B83				8	[3]24, 27,[3]45, 80		1-5
171ABC								8-8-8-8	3/14	FP434					1	80		1-2
F516	Vol.	W37343	6	MR18	M26	EX200		W41080	1	RS215					5	[3]6D6, 76, 6B5, 80	450	7-1,2
								W41081	1	RS216								
F546	Vol.	41252	6	G7		2		W36057	1	RS224		37216	246	C3	5	[3]15, 6A7, 38	450	7-3,4
	Tone	32908	34			See Note	A3	W41195	15	TC22								
								.001		Buffer	B14							
F616	Vol.	W37967	18	MR53				W36055	1	RS223					6	6A8G, 6K7G, 6H6G,		
	Tone	W37908	34	MR40	M26			W36057	1	RS224						6F5G, 6N6G,		
																5Z4MG	450	7-5,6
F626	Vol.	37907	‡	DRP304				W36055	1	RS223					6	6A8G, 6K7G, 6J7G,		
	Tone	37908	34	MR40	M26			W36057	1	RS224						6C5G, 6N6G,		
								W40325	‡	RS224						5Z4MG	450	7-7,8
								W37778	15	TN111								
3500-1	Vol.		31	A200P											4	[4]01A		1-1
3500-2	Vol.		14	MR44											4	[4]01A		1-1
7100	Vol.		40	MR21											5	[4]26, 27		1-7
ANDREA																		
CA5 (MI)	Vol.		17	MR53				16-8	6	2N509					5	6A7, 78, 6B7, 43, 25Z5		
	Tone		57	MR44				10	15	TC22							470	8-10
D8L, D8S	Vol.	FM303	127	MR53				HC99	25	RS219					8	[3]6K7G, 6A8G, 6H6G,		
	Tone	FM302	57	MR44				HC71	25/13	2S567						6F5G, 6V6G,		
																5Y4G, 6G5	470	9-4
G42 (Chassis PH2)	Vol.	FM804	63	MR55				‡		See Note	B3				2	50L6GT, 35Z5GT		12-1
1A5 (A5L)	Vol.		17	MR53				8, 8	1	ST595					5	6A7, 78, 6B7, 42, 80	470	8-1
	Tone		57	MR44				10-10	15	TN111								
1A7 (A7L)	Vol.		17	MR53				8	1	ST595					7	[3]6D6, 6A7, 6B7, 42, 80	470	8-2
	Tone		57	MR44				4-4	13/14	2N518								
								10-10	15	TN111								
1B6 (B6L)	Vol.	FM144	15	MR53				HC58	1	2S569					6	6A7, 6K7, 6H6, 6F5,		
	Tone	FM145	57	MR44				HC59	13	Order from	Mfr.					42, 80	470	8-3,4
								HC2	15	TN111								

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ANDREA—Continued																		
1B8 (B8L)	Vol.	FM144	15	MR53				HC64	1/13	3S584	B8				8	6D6, 6A7, ‡6K7, 6H6, 6F5, 42, 80	470	9-3
	Tone	FM145	57	MR44				HC63	1/13	3S584								
								HC2	15	TN111								
1C5 (C5L)	Vol.	FM197	18	MR53				HC72	4	RS215					5	6A7, 78, 75, 41, 80	470	9-1,2
								HC56	13	TC71								
1D6 (D6L)	Vol.	FM271	15	MR53	M26			HC97	4	RS216					6	6A7, 78, 76, 77, 6V6G, 80	470	
								HC56	13	TC71								
1D7 (D7L)	Vol.	FM303	124	MR53				HC99	25	RS216					7	‡6K7G, 6A8G, 6H6G, 6F5G, 6V6G, 5Y4G	470	8-5,6
	Tone	FM302	57	MR44				HC71	25/13	2S567								
1D8 (D8L)	Vol.	FM303	45	MR53				HC99	25	RS216					8	‡6K7G, 6A8G, 6H6G, 6F5G, 6G5, 6V6G, 5Y4G	470	9-4
	Tone	FM302	57	MR44				HC71	25/13	2S567								
1D10 (D10L)	Vol.	FM352	124	MR53	M26			HC113	3	RS215					10	‡6K7G, 6A8G, 6H6G, 6F5G, 6C5G, ‡6V6G, 5U4G, 6G5	470	8-7
	Tone	FM353	22	MR48				HC114	3	RS213								
								HC115	13/14	2N518								
								HC61	15	TC32								
1E6 (PE6L)	Vol.	FM427	18	MR48	M26			HC128	25	RS224					6	6K8, 6K7, 6H6, 6F5, 6V6G, 5Y4G	470	9-5
	Tone	FM428	57	MR44				HC129	25	RS216								
								HC130	13	ST595								
								HC131	15	TC22								
1E6 (PE6S)	Vol.	FM427	18	MR48	M26			HC128	25	RS224					6	6K8, 6K7, 6H6, 6F5, 6V6G, 5Y4G	470	9-6
	Tone	FM428	57	MR44				HC129	25	RS216								
								HC130	13	ST595								
								HC131	15	TC22								
1E8 (PE8L)	Vol.	FM506	15	MR53				HC145	25	RS224					8	‡6K7, 6K8, 6H6, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10
	Tone	FM507	57	MR44				HC148	25/13	3S584	B8							
								HC131	15/19	TC22								
2A5 (A5S)	Vol.		17	MR53				8, 8	1	ST595					5	6A7, 78, 6B7, 42, 80	470	8-1
	Tone		57	MR44				10-10	15	TN111								
2B6 (B6S)	Vol.	FM144	15	MR53				HC58	1	2S569					6	6A7, 6K7, 6H6, 6F5, 42, 80	470	8-3,4
	Tone	FM145	57	MR44				HC59	13	Order from	Mfr.							
								HC2	15	TN111								
2B8 (B8S)	Vol.	FM144	15	MR53				HC64	1/13	3S584	B8				8	6D6, 6A7, ‡6K7, 6H6, 6F5, 42, 80	470	9-3
	Tone	FM145	57	MR44				HC63	1/13	3S584								
								HC2	15	TN111								
2C5 (C5S)	Vol.	FM197	17	MR53				HC72	4	RS216					5	6A7, 78, 75, 41, 80	470	9-1
								HC56	13	TC71								
2D5 (D5)	Vol.	FM399	18	MR48	M26			HC121	1/15	3S584/TC22	B8				5	6A7, 6D6, 75, 41, 80	470	9-14
2D6 (D6S)	Vol.	FM271	15	MR53	M26			HC97	4	RS216					6	6A7, 78, 76, 77, 6V6G, 80	470	
								HC56	13	TC71								
2D7 (D7S)	Vol.	FM303	124	MR53				HC99	25	RS216					7	‡6K7G, 6A8G, 6H6G, 6F5G, 6V6G, 5Y4G	470	8-5,6
	Tone	FM302	57	MR44				HC71	25/13	2S567								
2D8 (D8S)	Vol.	FM303	45	MR53				HC99	25	RS216					8	‡6K7G, 6A8G, 6H6G, 6F5G, 6V6G, 5Y4G 6G5	470	9-4
	Tone	FM302	57	MR44				HC71	25/13	2S567								
2D10 (D10S)	Vol.	FM352	124	MR53	M26			HC113	3	RS215					10	‡6K7G, 6A8G, 6H6G, 6F5G, 6C5G, ‡6V6G 5U4G, 6G5	470	8-8,9
	Tone	FM353	22	MR48				HC114	3	RS213								
								HC115	13/14	2N518								
								HC112	15	TC32								
2E6 (PE6L)	Vol.	FM427	18	MR48	M26			HC128	25	RS224					6	6K8, 6K7, 6H6, 6F5, 6V6G, 5Y4G	470	9-5
	Tone	FM428	57	MR44				HC129	25	RS216								
								HC130	13	ST595								
								HC131	15	TC22								
2E6 (PE6S)	Vol.	FM427	18	MR48	M26			HC128	25	RS224					6	6K8, 6K7, 6H6, 6F5, 6V6G, 5Y4G	470	9-6
	Tone	FM428	57	MR44				HC129	25	RS216								
								HC130	13	ST595								
								HC131	15	TC22								
2E8 (PE8S)	Vol.	FM506	15	MR53				HC145	25	RS224					8	‡6K7, 6A8, 6H6, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10
	Tone	FM507	57	MR44				HC148	25/13	3S584	B8							
								HC131	15/19	TC22								
3A7 (A7L)	Vol.		17	MR53				8, 8	1	ST595					7	‡6D6, 6A7, 6B7, 42, 80	470	8-2
	Tone		57	MR44				4-4	13/14	2N518								
								10-10	15	TN111								
3B6 (B6L)	Vol.	FM144	15	MR53				HC58	1	2S569					6	6A7, 6K7, 6H6, 6F5, 42, 80	470	8-3,4
	Tone	FM145	57	MR44				HC59	13	Order from	Mfr.							
								HC2	15	TN111								
3D5 (D5, D5E, D5S)	Vol.	FM399	18	MR48	M26			HC121	1/15	3S584/TC22	B8				5	6A7, 6D6, 75, 41, 80	470	9-14
3D5 (D5L)	Vol.	FM399	18	MR48	M26			HC121	1/15	3S584/TC22	B8				5	6A7, 6D6, 75, 41, 80	470	9-14
3D7 (D7L)	Vol.	FM303	124	MR53				HC99	25	RS216					7	‡6K7G, 6A8G, 6H6G, 6F5G, 6V6G, 5Y4G	470	8-5
	Tone	FM302	57	MR44				HC71	25/13	2S567								
3D8 (D8L)	Vol.	FM303	45	MR53				HC99	25	RS216					8	‡6K7G, 6A8G, 6H6G, 6F5G, 6G5, 6V6G, 5Y4G	470	9-4
	Tone	FM302	* 57	MR44				HC71	25/13	2S567								
3D10 (D10L)	Vol.	FM352	124	MR53	M26			HC113	3	RS215					10	‡6K7G, 6A8G, 6H6G, 6F5G, 6C5G, ‡6V6G, 5U4G, 6G5	470	8-7
	Tone	FM353	22	MR48				HC114	3	RS213								
								HC115	13/14	2N518								
								HC61	15	TC32								
3E8 (PE8L)	Vol.	FM506	15	MR53				HC145	25	RS224					8	‡6K7, 6K8, 6H6, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10
	Tone	FM507	57	MR44				HC148	25/13	3S584	B8							
								HC131	15/19	TC22								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ANDREA—Continued																		
3E11 (PE11L)	Vol.	FM506	15	MR53				HC153	30	ST597					11	[2]6K7, 6A8, 6H6, 6F5, 6U5, 6C5, [2]6V6G, 5U4G	470	9-11,12
	Tone	FM554	22	MR48				HC154	30	RS219								
								HC155	13	ST595								
4B6 (B6S)	Vol.	FM144	15	MR53				HC58	1	2S569					6	6A7, 6K7, 6H6, 6F5, 42, 80	470	8-3,4
	Tone	FM145	57	MR44				HC59	13	Order from	Mfr.							
								HC2	15	TN111								
4D5 (D5E)	Vol.	FM399	18	MR48	M26			HC121	1/15	3S584/TC22	B8				5	6A7, 6D6, 75, 41, 80	470	9-13,14
4D7 (D7S)	Vol.	FM303	124	MR53				HC99	25	RS216					7	[2]6K7G, 6A8G, 6H6G, 6F5G, 6V6G, 5Y4G	470	8-5
	Tone	FM302	57	MR44				HC71	25/13	2S567								
4D8 (D8S)	Vol.	FM303	45	MR53				HC99	25	RS216					8	[2]6K7G, 6A8G, 6H6G, 6F5G, [2]6V6G, 5Y4G, 6G5	470	9-4
	Tone	FM302	57	MR44				HC71	25/13	2S567								
4D10 (D10S)	Vol.	FM352	124	MR53	M26			HC113	3	RS215					10	[2]6K7G, 6A8G, 6H6G, 6F5G, 6C5G, [2]6V6G 6G5, 5U4G	470	8-8
	Tone	FM353	22	MR48				HC114	3	RS213								
								HC115	13/14	2N518								
								HC112	15	TC32								
4E8 (PE8S)	Vol.	FM506	15	MR53				HC145	25	RS224					8	[2]6K7, 6A8, 6H6, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10
	Tone	FM507	57	MR44				HC148	25/13	3S584	B8							
								HC131	15/19	TC22								
4E11 (PE11S)	Vol.	FM506	15	MR53				HC153	30	ST597					11	[2]6K7, 6A8, 6H6, 6F5, 6U5, 6C5, [2]6V6G, 5U4G	470	9-11,12
	Tone	FM554	22	MR48				HC154	30	RS219								
								HC155	13	ST595								
5A5 (A5L)	Vol.		17	MR53				8, 8	1	ST595					5	6A7, 78, 6B7, 42, 80	470	8-1
	Tone		57	MR44				10-10	15	TN111								
5D7 (D7L)	Vol.	FM303	124	MR53				HC99	25	RS216					7	[2]6K7G, 6A8G, 6H6G, 6F5G, 6V6G, 5Y4G	470	8-5
	Tone	FM302	57	MR44				HC71	25/13	2S567								
5D8 (D8L)	Vol.	FM303	45	MR53				HC99	25	RS216					8	[2]6K7G, 6A8G, 6H6G, 6F5G, 6V6G, 5Y4G, 6G5	470	9-4
	Tone	FM302	57	MR44				HC71	25/13	2S567								
5D10 (D10L)	Vol.	FM352	124	MR53	M26			HC113	3	RS215					10	[2]6K7G, 6A8G, 6H6G, 6F5G, 6C5G, [2]6V6G, 5U4G, 6G5	470	8-7
	Tone	FM353	22	MR48				HC114	3	RS213								
								HC115	13/14	2N518								
								HC61	15	TC32								
5E8 (PE8L)	Vol.	FM506	15	MR53				HC145	25	RS224					8	[2]6K7, 6K8, 6H6, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10
	Tone	FM507	57	MR44				HC148	25/13	3S584	B8							
								HC131	15/19	TC22								
5E11 (PE11L)	Vol.	FM506	15	MR53				HC153	30	ST597					11	[2]6K7, 6A8, 6H6, 6F5, 6U5, 6C5, [2]6V6G, 5U4G	470	9-11,12
	Tone	FM554	22	MR48				HC154	30	RS219								
								HC155	13	ST595								
6A5 (A5S)	Vol.		17	MR53				8, 8	1	ST595					5	6A7, 78, 6B7, 42, 80	470	8-1
	Tone		57	MR44				10-10	15	TN111								
6D5 (PD5, PD5E)	Vol.	FM399	18	MR48	M26			HC121	1/15	3S584/TC22	B8				5	6A7, 6D6, 75, 41, 80	470	9-15,16
6D7 (D7S)	Vol.	FM303	124	MR53				HC99	25	RS216					7	[2]6K7G, 6A8G, 6H6G, 6F5G, 6V6G, 5Y4G	470	8-5
	Tone	FM302	57	MR44				HC71	25/13	2S567								
6D8 (D8S)	Vol.	FM303	45	MR53				HC99	25	RS216					8	[2]6K7G, 6A8G, 6H6G, 6F5G, 6V6G, 5Y4G, 6G5	470	9-4
	Tone	FM302	57	MR44				HC71	25/13	2S567								
6D10 (D10S)	Vol.	FM352	124	MR53				HC113	3	RS215					10	[2]6K7G, 6A8G, 6H6G, 6F5G, 6C5G, [2]6V6G, 5U4G, 6G5	470	8-7
	Tone	FM353	22	MR48				HC114	3	RS213								
								HC115	13/14	2N518								
								HC112	15	TC32								
6E8 (PE8S)	Vol.	FM506	15	MR53				HC145	25	RS224					8	[2]6K7, 6A8, 6H6, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10
	Tone	FM507	57	MR44				HC148	25/13	3S584	B8							
								HC131	15/19	TC22								
6E11 (PE11S)	Vol.	FM506	15	MR53				HC153	30	ST597					11	[2]6K7, 6A8, 6H6, 6F5, 6U5, 6C5, [2]6V6G, 5U4G	470	9-11,12
	Tone	FM554	22	MR48				HC154	30	RS219								
								HC155	13	ST595								
6G61, 6G61A (Chassis G61)	Vol.	FM762	18	‡		See No	te A3	HC202	76/78	2N511/ [2]TC2501					6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	13-4
6G63, 6G63A (Chassis 6G3)	Vol.	FM762	18	‡		See No	te A3	40-40	76/78	2N511					6	1R5, [2]1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	12-1
								100-100	‡	[2]TC2501								
6H43	Vol.	FM842	18	MR48	M26			HC191	1/15	FP306					6	6K8, 6SK7, 6H6, 6SF5, 25L6G, 25Z6G	470	13-1,2
	Tone	FM843	57	MR48														
6H44	Vol.	FM842	18	MR48	M26			HC196	1/15	FP339					6	6K8, 6SK7, 6H6, 6SF5, 6V6GT, 5Y3G	470	13-2,3
	Tone	FM843	57	MR48														
7D7 (D7L)	Vol.	FM303	124	MR53				HC99	25	RS216					7	[2]6K7G, 6A8G, 6H6G, 6F5G, 6V6G, 5Y4G	470	8-5
	Tone	FM302	57	MR44				HC71	25/13	2S567								
7D8 (D8L)	Vol.	FM303	45	MR53				HC99	25	RS216					8	[2]6K7G, 6A8G, 6H6G, 6F5G, 6V6G, 5Y4G, 6G5	470	9-4
	Tone	FM302	57	MR44				HC71	25/12	2S567								
7D10 (D10L)	Vol.	FM352	124	MR53	M26			HC113	3	RS215					10	[2]6K7G, 6A8G, 6H6G, 6F5G, 6C5G, [2]6V6G, 5U4G, 6G5	470	8-7
	Tone	FM353	22	MR48				HC114	3	RS213								
								HC115	13/14	2N518								
								HC61	15	TC32								
7E8 (PE8L)	Vol.	FM506	15	MR53				HC145	25	RS224					8	[2]6K7, 6A8, 6H6, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10
	Tone	FM507	57	MR44				HC148	25/13	3S584	B8							
								HC131	15/19	TC22								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ANDREA—Continued																		
7E11 (PE11L)	Vol.	FM506	15	MR53				HC153	30	ST597					11	6K7, 6A8, 6H6, 6F5,		
	Tone	FM554	22	MR48				HC154	30	RS219						6U5, 6C5, 6V6G,		
								HC155	13	ST595						5U4G	470	9-11,12
8D5 (PD5, PD5E)	Vol.	FM399	8	MR48	M26			HC121	1/15	3S584/TC22	B8				5	6A7, 6D6, 75, 41, 80	470	9-15
8D7 (D7S)	Vol.	FM303	124	MR53				HC99	25	RS216					7	6K7G, 6A8G, 6H6G,		
	Tone	FM302	57	MR44				HC71	25/13	2S567						6F5G, 6V6G, 5Y4G	470	8-5
8D8 (D8S)	Vol.	FM303	45	MR53				HC99	25	RS216					8	6K7G, 6A8G, 6H6G,		
	Tone	FM302	57	MR44				HC71	25/13	2S567						6F5G, 6V6G, 5Y4G,		
																6G5	470	9-4
8D10 (D10S)	Vol.	FM352	124	MR53	M26			HC113	3	RS215					10	6K7G, 6A8G, 6H6G,		
	Tone	FM353	22	MR48				HC114	3	RS213						6F5G, 6C5G, 6V6G,		
								HC115	13/14	2N518						5U4G, 6G5	470	8-7
								HC112	15	TC32								
8E8 (PE8S)	Vol.	FM506	15	MR53				HC145	25	RS224					8	6K7, 6A8, 6H6, 6U5,		
	Tone	FM507	57	MR44				HC148	25/13	3S584	B8					6F5, 6V6G, 5Y4G	470	9-9,10
								HC131	15/19	TC22								
8E11 (PE11S)	Vol.	FM506	15	MR53				HC153	30	ST597					11	6K7, 6A8, 6H6, 6F5,		
	Tone	FM554	22	MR48				HC154	30	RS219						6U5, 6C5, 6V6G,		
								HC155	13	ST595						5U4G	470	9-11,12
9D10 (D10L)	Vol.	FM352	124	MR53	M26			HC113	3	RS215					10	6K7G, 6A8G, 6H6G,		
	Tone	FM353	22	MR48				HC114	3	RS213						6F5G, 6C5G, 6V6G,		
								HC115	13/14	2N518						5U4G, 6G5	470	8-7
								HC61	15	TC32								
9E8 (PE8L)	Vol.	FM506	15	MR53				HC145	25	RS224					8	6K7, 6A8, 6H6, 6U5,		
	Tone	FM507	57	MR44				HC148	25/13	3S584	B8					6F5, 6V6G, 5Y4G	470	9-9,10
								HC131	15/19	TC22								
9E11 (PE11L)	Vol.	FM506	15	MR53				HC153	30	ST597					11	6K7, 6A8, 6H6, 6F5,		
	Tone	FM554	22	MR48				HC154	30	RS213						6U5, 6C5, 6V6G,		
								HC155	13	ST595						5U4G	470	9-11,12
10D10 (D10S)	Vol.	FM352	124	MR53				HC113	3	RS216					10	6K7G, 6A8G, 6H6G,		
	Tone	FM353	22	MR48				HC114	3	RS213						6F5G, 6C5G, 6V6G,		
								HC115	13/14	2N518						5U4G, 6G5	470	8-7
								HC112	15	TC32								
10E8 (PE8S)	Vol.	FM506	15	MR53				HC145	25	RS224					8	6K7, 6A8, 6H6, 6U5,		
	Tone	FM507	57	MR44				HC148	25/13	3S584	B8					6F5, 6V6G, 5Y4G	470	9-9,10
								HC131	15/19	TC22								
10E11 (PE11S)	Vol.	FM506	15	MR53				HC153	30	ST597					11	6K7, 6A8, 6H6, 6F5,		
	Tone	FM554	22	MR48				HC154	30	RS213						6U5, 6C5, 6V6G,		
								HC155	13	ST595						5U4G	470	9-11,12
11E6 (PE66L)	Vol.	FM486	45	MR48	M26			24-24-10	1/15	Order from	Mfr.				6	6K8, 6K7, 6H6, 6F5,		
	Tone	FM487	57	MR44				HC142	13	ST595						6V6G, 5Y4G	470	9-17
11E6 (PE66S)	Vol.	FM486	45	MR48	M26			24-24-10	1/15	Order from	Mfr.				6	6K8, 6K7, 6H6, 6F5,		
	Tone	FM487	57	MR44				HC142	13	ST595						6V6G, 5Y4G	470	9-18
12E6 (PE66L)	Vol.	FM486	45	MR48	M26			24-24-10	1/15	Order from	Mfr.				6	6K8, 6K7, 6H6, 6F5,		
	Tone	FM487	57	MR44				HC142	13	ST595						6V6G, 5Y4G	470	9-17
12E6 (PE66S)	Vol.	FM486	45	MR48	M26			HC141	1/15	Order from	Mfr.				6	6K8, 6K7, 6H6, 6F5,		
	Tone	FM487	57	MR44				HC142	13	ST595						6V6G, 5Y4G	470	9-18
12F5 (Ch. UF-5)	Vol.	FM717	18	UM161	M26		A96	HC195	1/15	FP311					5	12K8, 12SK7, 12SQ7,		
																50L6GT, 35Z5GT	455	11-13
14E6 (PE66L)	Vol.	FM486	45	MR48	M26			24-24-10	1/15	Order from	Mfr.				6	6K8, 6K7, 6H6, 6F5,		
	Tone	FM487	57	MR44				HC142	13	ST595						6V6G, 5Y4G	470	9-17
14E6 (PE66S)	Vol.	FM486	45	MR48	M26			24-24-10	1/15	Order from	Mfr.				6	6K8, 6K7, 6H6, 6F5,		
	Tone	FM487	57	MR44				HC142	13	ST595						6V6G, 5Y4G	470	9-18
21AF5 (Ch. UF-51)	Vol.	FM678	18	UM163	M27		A96	HC190	...‡..	Order from	Mfr.				5	1A7GT, 1N5GT,		
								HC189	...‡..	TC1505						1H5GT, 1Q5GT,		
																25Z6GT	455	11-14
21F5 (Ch. UF-51)	Vol.	FM678	18	UM163	M27		A96	HC190	...‡..	Order from	Mfr.				5	1A7GT, 1N5GT,		
								HC189	...‡..	TC1505						1H5GT, 1Q5GT,		
																25Z6GT	455	11-14
25G5 (Ch. UG-5S)	Vol.	FM734	18	UM161	M26		A96	HC198	1/15	FP311					5	12K8, 12SK7, 12SQ7,		
	Tone	FM735	21	UM154		See Note	A96									50L6GT, 35Z5GT	455	11-15
33F6 (Ch. UF-6)	Vol.	FM699	45	UM154	M26		A96	HC191	1/15	FP306					6	6K8, 6SK7, 6H6,		
																6SF5, 25L6G,		
																25Z6G, F6B	470	11-16
43F6	Vol.	FM699	45	UM154	M26		A96	HC196	1/15	FP339					6	6K8, 6SK7, 6H6,		
																6SF5, 6V6G, 5Y3G	470	12-2
62PX (PXD5)	Vol.	FM399	18	MR48	M26			HC124	6/19	3N527					5	6A7, 6D6, 75, 43,		
																25Z6	470	9-20
62X (XD5)	Vol.	FM399	18	MR48	M26			HC124	6/19	3N527					5	6A7, 6D6, 75, 43,		
																25Z6	470	9-20
400 (B4)	Vol.	FM118	6	MR24		2		HC52	4	RS213					4	6A7, 6F7, 41, 80	470	9-21
								HC56	13	TC71								
401 (B4L)	Vol.	FM133	6	MR24	M26	2		HC52	4	RS213					4	6A7, 6F7, 41, 80	470	9-21
								HC56	13	TC71								
410 (UC4)	Vol.	FM252	6	MR24	M26	3		HC90	6/15	3N527					4	6D6, 6C6, 43, 25Z5,		
																C4B		8-10
411 (UC4L)	Vol.	FM252	6	MR24	M26	3		HC90	6/15	3N527					4	6D6, 6C6, 43, 25Z5,		
																C4B		8-10
500 (UB5)	Vol.	FM100	18	MR53				HC43	6/13	TN125	B101				5	6A7, 78, 6B7, 43,		
								HC2	15	TN111						25Z5	470	9-22
510 (UC5L),																		
511 (UC5S)	Vol.	FM197	18	MR53				HC72	4	RS215					5	6A7, 78, 75, 41, 80	470	9-1
								HC56	13	TC71								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ANDREA—Continued																		
510 (UC5S)	Vol.	FM197	18	MR53				HC74	27	ST599					5	6A7, 78, 75, 43, 25Z5.	470	9-23
								HC75	13	TC71								
511 (UC5L)	Vol.	FM197	18	MR53				HC74	27	ST599					5	6A7, 78, 75, 43, 25Z5.	470	9-23
								HC75	13	TC71								
520 (UD5S), 521 (UD5L)	Vol.	FM330	18	MR48	M26			HC96	6/15	3N527					5	6A7, 6D6, 75, 43, 25Z5	470	8-11
600 (UB6)	Vol.	FM12	18	MR53				HC39	1	2N516/TC55					6	6A7, ‡78, 6B7, 43, 25Z5	470	9-24
								HC46	1	ST595								
								HC2	15	TN111								
610-613 (C6B)	Vol.	FM144	17	MR53				HC77	1	2S569		FM235	245	C3	6	§6S7G, 6D8G, 6T7G, 6L5G, 6K6G	470	9-25
								HC79	15	TC22								
								HC78	13	2N516/TC55								
								HC2	15	TN111								
								.015-.015		Buffer	B14							
610-613 (C32B)	Vol.	FM144	17	MR53				HC77	1	2S569		FM240	See Note	C6	6	§6S7G, 6D8G, 6T7G, 6L5G, 6K6G	470	9-26,27
								HC79	15	TC22								
								HC78	13	2N516/TC55								
								HC2	15	TN111								
								.01		Buffer	B14							
616, 617, 618 (D6B)	Vol.	FM303	124	MR53				HC77	1	2S569		FM235	245	C3	6	§6S7G, 6D8G, 6T7G, 6L5G, 6V6G	470	8-13
	Tone	FM302	57	MR44				HC117	13/14	2N516								
								HC118	13	TC71								
								HC119	15	TN111								
								.015-.015		Buffer	B14							
620 (UD6S), 621 (UD6L)	Vol.	FM271	17	MR53	M26			HC96	6/15	3N527					5	6A7, 78, 75, 25L6, 25Z5	470	9-28
								HC75	13	TC71								
626, 627, 628 (E6B)	Vol.	FM303	17	MR53				HC77	1	2S569	B26	FM477	246	C3	6	§6S7G, 6D8G, 6T7G, 6L5G, 6V6G	470	9-29,30
	Tone	FM302	57	MR44				HC131	15	TC22								
								HC134	13	TC62								
								.015		Buffer	B14							
630, 631 (PUE6L)	Vol.	FM427	18	MR48	M26			HC132	25/19	3N527					5	6K8, 6K7, 6Q7G, 25L6G, 25Z6G, E6B	470	9-31
	Tone	FM428	57	MR44				HC133	25/13/15	3N527								
630, 631 (PUE6S)	Vol.	FM427	18	MR48	M26			HC132	25/19	3N527					5	6K8, 6K7, 6Q7G, 25L6G, 25Z6G, E6B	470	9-32
	Tone	FM428	57	MR44				HC133	25/13/15	2N527								
634 (PUE6S)	Vol.	FM427	18	MR48	M26			HC132	25/19	3N527					3	6Q7G, 25L6G, 25Z6G		9-33
	Tone	FM428	57	MR44				HC133	25/13/15	3N527								
								HC151	25	TC47								
								HC149	19	TC29								
635 (PUE6L)	Vol.	FM427	18	MR48	M26			HC132	25/19	3N527					3	6Q7G, 25L6G, 25Z6G		9-33
	Tone	FM428	57	MR44				HC133	25/13/15	3N527								
								HC151	25	TC47								
								HC149	19	TC29								
1401, 1403, 1405, 1409 (UD14L)	Vol.	FM352	124	MR53	M26			HC109	1	ST599					11	‡6K7G, 6A8G, 6H6G, 6F5G, 6C5G, ‡25L6G, ‡25Z6G. 6G5	470	8-12
	Tone	FM353	22	MR48				HC110	1	RS224								
								HC116	13	ST597								
								HC61	15	TC32								
								HC111	1	2N509								
1402, 1404, 1406, 1408, 1410, (UD14S)	Vol.	FM352	124	MR53	M26			HC109	1	ST599					11	‡6K7G, 6A8G, 6H6G, 6F5G, 6C5G, ‡25L6G, ‡25Z6G, 6G5	470	9-34
	Tone	FM353	22	MR48				HC110	1	RS224								
								HC116	13	ST597								
								HC61	15	TC32								
								HC111	1	2N509								
1530, 1534, 1536, 1538 (PUES)	Vol.	FM506	15	MR53				HC158	22	RS224					12	‡6K7, 6K8, 6H6, 6F5, 6U5, 6C5, ‡25L6G, ‡25Z6G	470	9-35,38
	Tone	FM554	22	MR48				HC159	25	RS224								
								HC160	22/25	2N509								
								HC161	13	TC52								
								HC162	13	TCD52								
								HC112	15	TC32								
1531, 1533, 1535, 1537 (PUEL)	Vol.	FM506	15	MR53				HC158	22	RS224					12	‡6K7, 6K8, 6H6, 6F5, 6U5, 6C5, ‡25L6G, ‡25Z6G	470	9-35,38
	Tone	FM554	22	MR48				HC159	25	RS224								
								HC160	22/25	2N509								
								HC161	13	TC52								
								HC162	13	TCD52								
								HC112	15	TC32								
ANSLEY RADIO LABS.																		
B1	Vol.		12	MR44			A27	10	19	TC22	B20				4	1A6, 1A4, 32, 33 or 1A6, 1A4, 1F4, 1B4	456	7-1
	Tone		71	MR53			A4											
DC	Vol.		26	MR40				2-2-1		See Note	B4				7	‡01A, 71A		2-1
D1	Vol.		50	MR39				32-8-8	1	See Note	B3				4	25Z5, ‡48, 76		6-1
	Hum		51	A3MP				10	15	TC22								
D1 (Rev.)	Vol.		63	MR44				48	‡	FP115					6	‡6C6, ‡48, ‡25Z5		7-2
	Tone		41	MR48														
	Hum		‡	A3MP														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ANSLEY RADIO LA	BS—Continued																	
D1, (3rd type)	Vol.		‡	LL				80	12	2N511	B8				6	[36]C6,[3]25L6,[3]25Z5		8-1
	Tone		41	MR48														
	Hum		‡	MR50														
D1A	Vol.		15	MR48				30-30	1	2N513					6	[36]C5G,[3]25L6G, [3]25Z6G		12-1
	Tone		44	MR48														
D1A (3rd Type)	Vol.		‡	LL				80	12	2N511	B8				6	[36]C6,[3]25L6,[3]25Z5		8-1
	Tone		41	MR48														
	Phono.		‡	MR50														
D1B	Vol.		15	MR48				30-30	1	2N513					6	[36]C5G,[3]25L6G, [3]25Z6G		12-1
	Tone		44	MR48														
D3, D4, D6	Vol.		6	SRP263		EX200		16-8	1	3S584	B8				5	25Z5, 43,[37]7, 78	175	5-1
	Phono.		63	SRP263				2-4	15	TN111								
D9, D10	Vol.		17	MR53	M26			32-24-12	8	Order from	Mfr.				6	6A8G, 6K7, 6Q7G, 25A6G or 25L6, [3]25Z6G	456	8-2
	Tone		57	MR48				10-10	15	TN111								
Dynatone	Vol.		16	MR33				8, 8	3/31	RS213					13	6A8, 6K7, 6H6,[41]223, [2]6F8, [2]2A3, 5Z3, 45	456	11-1
	Tone		‡	MR33				8, 8	3	HS693								
	Vol.		‡	MR33				16	20	RS216								
								10	15	TC22								
D9A, D10A (2.20)	Vol.		17	MR48	M26			30-30	6	2N513					8	6A8G, 6K7, 6Q7G, 6F5G, [3]25L6G, [3]25Z6G	456	11-3
	Tone		22	MR48				10, 10	15	TC22								
								15	13	TC45								
D10A (Tuner 2.30)	Vol.		18	MR48				30-30	1	2N513					7	6K8, 6SK7, 6SQ7, 6SF5, 25L6GT, [3]25Z6GT	456	12-1
	Tone		22	MR48														
D12	Vol.		63	MR48				48-16-8	46	See Note	B3				6	[3]76,[3]48,[3]25Z5		7-2
	Tone		41	MR48				10	15	TC32								
	Hum		‡	A3MP														
D16	Vol.		63	MR44				48	‡	FP115					6	[36]C6,[3]48,[3]25Z5		7-3
	Tone		41	MR48														
	Hum		‡	A3MP														
D16 (Rev.)	Vol.		‡	LL				80	12	2N511	B8				6	[36]C6,[3]25L6,[3]25Z5		8-1
	Tone		41	MR48														
	Hum		‡	MR50														
D17, D18	Vol.		17	MR53	M26			32-24-12	8	Order from	Mfr.				6	6A8G, 6K7, 6Q7G, 25A6G or 25L6, [3]25Z6G	456	8-2
	Tone		57	MR48				10-10	15	TN111								
D17A, D18A (2.21)	Vol.		15	MR48				15-15	1	FP234	B3				11	(AC-DC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, [3]25L6, [4]25Z6, or		
	Tone		22	MR48				10, 10	15	TC22					8	(AC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, [3]25L6, 80	456	11-4
D20	Vol.		‡	LL				80	12	2N511	B8				6	[36]C6,[3]25L6,[3]25Z5		8-1
	Tone		41	MR48														
	Hum		‡	MR50														
D21, D22	Vol.		18	MR53	M26			80	12	2N511	B8				12	6A8G, 6K7, 6Q7G, 6C5, [4]25L6, [4]25Z6	456	§9-1
	Tone		21	MR48				32-24-12	1/13	Order from	Mfr.							
D21A, D22A	Vol.		17	MR44				Tuner Part	No. 2	22					12	(AC) 6A8, 6K7, 6Q7, 6U5, [6]6C5G, [2]2A3, 5Z3, 45, or		
	Treble		‡	MR35				10	13	TC74								
	Bass		‡	MR33				10	15	TC22					14	(AC-DC) 6A8, 6K7, 6Q7, 6U5, [6]6C5G, [4]25L6, [4]25Z6	456	11-5
								Rectifier D2	1A									
								15-15-8	3	See Note	B3							
								8	13	See Note	B3							
								Rectifier D2	28									
								120-105	1	See Note	B3							
D23A (Part 2.21)	Vol.		15	MR48				32-24-12	8	Order from	Mfr.				11	(AC-DC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, [3]25L6, [4]25Z6, or		
	Tone		22	MR48				10-10	15	TN111					8	(AC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, [3]25L6, 80	456	11-4
D24, D25 (7152)	Vol.		80	MR53				32-24-12	6/12	Order from	Mfr.				15	[36]K7, 6L7, 6Q7, 6G5, 6C5, [4]25L6, [4]25Z5	456	8-4
	Tone		80	MR48	M26			80	12	2N511	B8							
	Sen.		7	Order from	Mfr.			10	15	TC22								
D24A, D25A (Part 2.23)	Vol.		45	MR48				10	13	TC74					6	[36]K7, 6K8, 6H6, 6F5, 6U5	456	11-6
	Treble		‡	MR33				10	15	TC22								
	Bass		‡	MR53														
D26	Vol.		‡	MR48	M26			32-24-12	1/13	Order from	Mfr.				3	6C5, 25L6, 25Z6		8-1
D29, D30 (Part 2.21)	Vol.		15	MR48				32-24-12	1/13	Order from	Mfr.				11	(AC-DC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, [3]25L6, [4]25Z6, or		
	Tone		22	MR48				10-10	15	TN111					8	(AC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, [3]25L6, 80	456	11-4
MD1	Vol.		12	MR18				3		2N516	B11				5	30,[3]32, 71A		2-2
U1 AC-DC	Vol.		12	MR24				4-8-2	3	3S584					8	[4]24, 27,[4]45, 80		2-3
	Tone		21	MR44														
U2 AC-DC	Vol.		8	MR34				4-8-2	3	3S584					6	[3]36, 37, 38, 80		2-4
	Tone		22	MR44	M26			10	15	TC22								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ANSLEY RADIO LA	BS—Continued																	
U3	Vol.		7	H	6	2		8-8-2	3	3S584					8	[3]7,[3]8,[3]9, 80	175	5-2
	Tone		41	MR44				4	15	TC22								
U8	Vol.		17	MR44	M26			4-4	1	2N518					8	37,[3]9, 80, 85,[3]89	‡	5-3
	Tone		41	MR44				10-10	15	TN111								
U10	Vol.		6	E	6	2		16-16-16	63	TN129					6	6A7, 6C6, 6D6, 12Z3		
	Phono.		50	MR39				10-10	15	TN111						43, 25Z5	456	6-2
U10, U11 (Late)	Vol.		17	MR53	M26			32-24-12	8	Order from	Mfr.				6	6A8G, 6K7, 6Q7G,		
	Tone		57	MR44				10-10	15	TN111						25A6G or 25L6,		
																[3]25Z6G	456	8-2
51 (Tuner)	Vol.	12.24A	140	MRT460	M26			6.97	15	TC26					5	6K8, 6SK7, 6J5, 6P5,		
	Bass	12.25	140	MR53												6U5	456	13-2
	Treble	12.26	‡	MR55														
51 Amp-Pwr. Pk.								6.102	1	RS223					5	[4]6J5, [4]6V6, 5Y3G		13-2
								6.97	15	TC26								
52 (Tuner)	Vol.		140	MRT460	M26			8	13	TC42					5	6K8, 6SK7, 6J5, 6P5,		
	Bass		140	MR53				10	15	TC22						6U5	456	13-3
	Treble		‡	MR55														
52 (Amp. Pwr. Pk.)								40-30-30	1/15	FP357					6	[4]6J5, [3]25L6, [3]25Z6		13-3
61 (Tuner)	Vol.	12.24A	140	MRT460	M26										6	[4]6SK7, 6K8, 6H6,		
	Bass	12.25	140	MR53												6J5, 6U5	456	13-4
	Treble	12.26	‡	MR55														
61 (Amp. Pwr. Pk.)								6.01	3	HS693					8	[4]6J5, [2]2A3, 45, 5U4G		13-4
								6.24	3	TC74								
								6.52	40	TC45								
								6.53	40	TC71								
62 (Tuner)	Vol.	12.24A	140	MRT460	M26			6.65	13	TC71					6	[4]6SK7, 6K8, 6H6, 6J5,		
	Bass	12.25	140	MR53				6.16	15	TC42						6U5	456	13-5
	Treble	12.26	‡	MR55														
62 (Amp. Pwr. Pk.)								105	1	FP116					10	[4]6J5, [4]25L6, [4]25Z6		13-5
								120	1	FP116								
								10	15	TC22								
								6.25	1/15	FP357	B10							
APEX—See U. S. Radio & Tel.																		
APPEL HENDERSON																		
AC	Vol.		6	G7	6	4		8	3	TC71					8	[3]24, 27, 47,[3]51, 80	‡	2-2
	Tone		22	MR18				4	3	TC71								
DC Comb.	Vol.		6	H7	6	5		.5-1	‡	See Note	B4				8	33,[3]36,[3]37		2-1
	Tone		22	MR18														
4 Tube	Vol.		29	T											4	[3]32, 33, 36		2-4
5 Tube Batt.	Vol.		40			See Note A5									5	[3]32, 36,[3]38		2-4
5 Tube AC	Vol.		6	G7	6	4		4-8	1	2N518					5	[3]35, 24, 47, 80		2-3
	Tone		22	MR18														
ARBORPHONE																		
45	Vol.		10	E12				2-2-2-2	1/14	See Note	B1				8	[4]26, 27,[3]71, 80		§3-1
ARCADIA—See Wells Gardner																		
ARGUS																		
B125	Vol.		‡	‡		See Note A5		8-8-8	3	3S584					7	12,[3]99, RH		1-1
B195	Vol.		18	MR44				‡	‡	See Note	B3				8	[3]99, 10,[3]81		1-1,2
	Sen.		‡			See Note A5												
ARIEL RADIO																		
101	Vol.		3	MR24				15-5	1	3S584	B8				7	[3]24,[3]27,[3]45, 80		§6-2
ARKAY—See R. K. Radio Labs.																		
ARVIN—See Noblitt-Sparks																		
ATCHISON RADIO	MFG. CO.																	
5AC	Vol.		6	G7		5		‡	‡	See Note	B3				7	24,[4]27, 45, 80		1-1
5 (DC Speaker)	Vol.		6	G7		5		‡	‡	See Note	B3				7	24,[4]27, 45, 80		1-1
6AC	Vol.		6	G7				‡	‡	See Note	B3				9	24,[4]27,[3]45, 80		1-2
ATWATER KENT																		
37, 37C, 37F	Vol.	9510	5	SRP239		See Note A12		1.5-1	2	See Note	B1				7	[4]26, 27, 71A, 80		1-7
38	Vol.	9510	5	SRP239		See Note A12		1.5-1	2	See Note	B1				8	[4]26, 27, 71A, 80		1-7
40, 40F	Vol.	13320	5	SRP239		See Note A12		1-1.5-1	3	See Note	B1				7	[4]26, 27, 71A, 80		1-9
41DC	Vol.	13550	5	SRP239		See Note A12									7	[3]12A,[3]71A		1-11
42, 42F	Vol.	13320	5	SRP239		See Note A12		1-1.5-1	3	See Note	B1				7	[4]26, 27, 71A, 80		1-9
43	Vol.	13320	5	SRP239		See Note A12		‡	3	See Note	B1				8	[4]26, 27,[3]12A, 80		3-15,19
44, 44F, 45	Vol.	13390	5	SRP239		See Note A12		1-1-1.5	3	See Note	B1				8	[3]26, 27, 71A, 80		3-15,19
46, 47	Vol.	13320	5	SRP239		See Note A12		‡	3	See Note	B1				8	[4]26, 27,[3]71A, 80		3-15,19
52	Vol.	13320	5	SRP239		See Note A12		‡	3	See Note	B1				7	[4]26, 27, 71A, 80		1-9
53	Vol.	13780	5	SRP239		See Note A12		‡	‡	See Note	B1				7	[4]26, 27, 71, 80		3-19
55, 55C (Early)	Vol.	14250	12	SRP241		See Note A30		2-2.3-2.3	30	See Note	B1				7	[3]24,[3]27,[3]45, 80		3-21
55, 55C (Late)	Vol.		25	DRP301				2-2.3-2.3	30	See Note	B1				7	[3]24,[3]27,[3]45, 80		3-23
55F, 55FC (Early)	Vol.	14250	12	SRP241		See Note A30		1.7-4-1	30	See Note	B1				7	[3]24,[3]27,[3]45, 80		3-24
55F, 55FC (Late)	Vol.		25	DRP301				1.7-4-1	30	See Note	B1				7	[3]24,[3]27,[3]45, 80		3-26

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ATWATER KENT—	Continued																	
56, 57	Vol.	13780	5	SRP239		See Note A12		‡	2	See Note	B1				7	[4]26, 27, 71A, 80		1-9
60, 60C (Early)	Vol.	14250	12	SRP241		See Note A30		2-2.5-2.5	30	See Note	B1				8	[3]24, [4]27, [3]45, 80		3-29
60, 60C (Late)	Vol.	15170	52	DRP301				2-2.3-2.3	30	See Note	B1				8	[3]24, [4]27, [3]45, 80		3-31
60, 60C (3rd Type)	Vol.		25	DRP301				.1-2-1	30	See Note	B1				8	[3]24, [4]27, [3]45, 80		3-32
61, 61C (DC)	Vol.	14890	12	SRP241		See Note A30		4-2	2	See Note	B11				7	[4]22, [3]12A, [4]71A		3-36
66	Vol.	15160	52	DRP301				2.1-2.3-2.3	3	See Note	B2				9	[3]24, [4]27, [3]50, [3]81		3-40,41
67, 67C	Vol.	14630	12	MR39											7	[4]22, [3]12A, [4]71A		3-43
D1 (70, 74, 76)	Vol.	16630	25	DRP301				.5-4-2-1	2	See Note	B11				7	[3]22, [3]12A, [4]71A		3-47,49
D2 (70, 74, 76)	Vol.	16630	25	DRP301				4-2-1-.5	2	See Note	B11				7	[3]22, [3]12A, [4]71A		1-35
F (70, 74, 76)	Vol.	16630	25	DRP301				4-1-.5	2	See Note	B1				8	[3]24, [4]27, [3]45, 80		3-46
								.225		See Note	B9							
L1 (70, 74, 76)	Vol.	16630	25	DRP301				1-2-1-.5	31	See Note	B1				8	[3]24, [4]27, [3]45, 80		3-52
L2 (70, 74, 76)	Vol.	16630	25	DRP301				2-1-1-.5	3	See Note	B1				8	[3]24, [4]27, [3]45, 80		3-53
								.225		See Note	B9							
P (75)	Vol.		25	DRP301				2-1-1-.5	‡	See Note	B1				8	[3]24, [4]27, [3]45, 80		1-43
	Phono.		‡	A				.225		See Note	B9							
80, 80F	Vol.	20840	8	A5MP	6			23146	4	RS213					6	24, [3]35, 27, 47, 80	130	3-67
								22538	4	RS213								
81, 81 (2nd), 81B, 81C	Vol.	21496	54	MR51				22538	12	RS213					7	[3]36, [3]37, [3]38		3-69
82	Vol.	20990	7	A550P	6			23146/22538	4	RS213					7	[3]24, [3]35, 27, 47, 80	130	3-75
82D	Vol.	23228	15	MR48	M26			20049	12	RS216					6	[3]36, [3]37, 33	130	3-71,72
82F	Vol.	20990	7	A550P	6			22538	4	RS213					7	[3]24, 27, [3]35, 47, 80	130	3-75
								23146	4	RS213								
82Q (1st Type)	Vol.	16122	15	MR48	M26			23146/22538	12	RS213					7	[3]30, [3]32, 33	130	3-77
82Q (2nd Type)	Vol.	16122	15	MR39	M26			22538/23146	12	RS213					7	[3]30, [3]32, 33	130	3-79
83, 83F	Vol.	22330	8	A5MP	6			22538	4	RS213					6	24, [3]35, 27, 47, 80	130	3-67
								23146	4	RS213								
								3-4	‡	2S567	B21							
84	Vol.	19040	15	MR48				22538	4	RS213					6	[3]24, 27, 47, 80	130	3-84
								23146	4	RS213								
84 (Late)	Vol.	20180	7	A4MP	6			22538	4	RS213					6	24, 27, [3]35, 47, 80	130	3-85
								23146	4	RS213								
84D	Vol.	23228	15	MR48	M26			20049	12	RS216					6	33, [3]36, [3]37	130	3-81
84F	Vol.	19040	15	MR48				22538	4	RS213					6	[3]24, 27, 47, 80	130	3-84
								23149	4	RS213								
84F (Late)	Vol.	20180	7	A4MP	6			22538	4	RS213					6	24, 27, [3]35, 47, 80	130	3-85
								23149	4	RS213								
84Q	Vol.	19040	15	MR48				22538	12	RS213					7	[3]30, [3]32, 33	130	3-87
85, 85F (Early Late)	Vol.	20030	8	A550P		See Note A4		22538	4	RS213					7	[3]24, [3]35, 27, 47, 80	130	3-89
	Vol.	19040	8	MR48		See Note A27		3-4	4	2S567	B21							
85Q (1st Type)	Vol.	16122	15	MR39				22538	12	RS213					7	[3]30, [3]32, 33	130	3-91
85Q (2nd Type)	Vol.	16122	15	MR39				22538	12	RS213					7	[3]30, [3]32, 33	130	3-93
86, 86F	Vol.	23410	8	A550P				22538	4	RS213					8	[3]24, 27, [3]35, 47, 80	130	3-95
								3-4	4	2S567	B21							
87	Vol.	22050	8	A4MP	6			2-2.3-2.3	3	See Note	B1				9	[3]27, [3]35, [3]47, 80	130	3-99
								.25		See Note	B9							
87D	Vol.	21816	25	DRP301				20049	12	RS216					8	[3]33, [3]36, 37, 38	130	3-103
89, 89F, 89P	Vol.	20389	15	MR48	M26			2-2.3-2.3	3	See Note	B1				10	24, [3]27, [3]35, [3]47, 80	130	3-105
								.25		See Note	B9							
90, 90F	Vol.	20840	8	A5MP	6			22538	4	RS213					7	24, 27, [3]35, 47, 80	130	3-109
								23146	4	RS213								
91, 91B, 91C	Vol.	21496	54	MR51				22472	12	TC52					9	[3]36, [3]37, [3]38	260	3-111
92	Vol.	23228	13	MR48	M26			22538	4	RS213					8	24, [3]35, [3]27, 47, 80	130	3-113
								23146	4	RS213								
92F	Vol.	23228	13	MR48	M26			22538	4	RS213					8	24, [3]27, [3]35, 47, 80	130	3-115
								23146	4	RS213								
								22397	4	TC71								
93 (SW Converter)								22538	1	RS213					4	24, [3]27, 80	1000	3-117
								19728	1	RS213								
94, 94F	Vol.	22650	7	A4MP				19728	4	RS213					7	[3]35, 24, 27, 47, 80	130	3-119
								3-4	4	2S567	B21							
96 (1st Type)	Vol.	20389	13	MR48	M26			19060	4	RS213					8	24, [3]27, [3]35, 47, 80	130	3-121
								1-2-1-.5	‡	See Note	B1							
								.225		See Note	B9							
96 (2nd Type)	Vol.	20389	13	MR48	M26			19060	4	RS213					8	24, [3]27, [3]35, 47, 80	130	3-123
	Tunlgt.	22152	‡	MR34				1-2-1-5	‡	See Note	B1							
								.225		See Note	B9							
96 (3rd Type)	Vol.	20389	13	MR48	M26			19060	4	RS213					8	24, [3]27, [3]35, 47, 80	130	3-125
	ToneB'm	22345	‡	M10MP				1-2-1-.5	‡	See Note	B1							
								.225		See Note	B9							
96F	Vol.	20389	13	MR48	M26			19060	4	RS213					8	24, [3]27, [3]35, 47, 80	130	3-127
	Tunlgt.	22152	‡	MR34				2-2-1-1-.5	‡	See Note	B1							
99 (Types 1 and 2)	Vol.	20389	15	MR48	M26			2-2.3-2.3	‡	See Note	B1				10	24, [3]27, [3]35, [3]47, 80	130	3-129
	Tunlgt.	22152	‡	MR34				.25	‡	See Note	B9							
99 (3rd Type), 99F	Vol.	20389	15	MR48	M26			2-2.3-2.3	‡	See Note	B1				10	24, [3]27, [3]35, [3]47, 80	130	3-132
	Tunlgt.	22344	‡	H				.25	‡	See Note	B9							
99P	Vol.	22455	15	MR48	M28			2-2.3-2.3	‡	See Note	B1				10	24, [3]27, [3]35, [3]47, 80	130	3-132
	Tunlgt.	22344	‡	H				.25	‡	See Note	B9							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ATWATER KENT—	Continued																	
112	Vol.	27674	20	MRT427	M26			28031	28	RS213					12	[2]2A3, 2B7, 5Z3, [3]56, [5]58	472.5	6-1-4
								27583	28	RS216								
								25385	12	ST595								
								25384	12	ST595								
								25379	15	TC22								
126	Vol.	32102	17	UM157-SS12				32136	4	2S567	B33	32138	294	C3	6	6A8, 6F6, [2]6K7, 6Q7, 6X5	264	7-3
								25379	15	TC22								
								.003		Buffer	B14							
135Z	Vol.	27425	19	MR48	M26			26995	1	2N518		28449	F297	C3	5	6A7, 43, 75, 78, 84	264	6-7
								22538	12	RS213								
								25379	15	TC22								
								.05-.05		Buffer	B14							
136	Vol.	32102	17	UM157-SS12				32136	4	2S567	B33	32138	294	C3	6	[2]6K7, 6A8, 6Q7, 6F6, 6X5	264	7-3
								25379	15	TC22								
								.003		Buffer	B14							
137	Vol.	23228	18	MR48	M26			22538	4	RS213					7	[3]58, 55, 56, 47, 80	125	7-7
145	Vol.	27425	18	MR48	M26			19060	1	RS213					5	2A7, 58, 2A6, 2A5, 80	264	5-7
								27585	1	RS213								
E145, E145X	Vol.	23228	18	MR48	M26			10	15	TC22								
								28031	1	RS213					5	2A7, 58, 2A6, 2A5, 80	125	7-9-11
								27585	1	RS213								
								25379	15	TC22								
155	Vol.	24293	55	MR48	M26			24602	9	3S582	B22				5	77, 44, 85, 43, 25Z5	262.5	3-179
								25167	15	TC22								
155 (2nd Type)	Vol.	24293	55	MR48	M26			24602	29	TCS71					5	77, 44, 75, 43, 25Z5	262.5	3-179
								24939	29	TC52								
								24955	29	3S582	B51							
155 (3rd Type)	Vol.	24293	55	MR48	M26			P24955	29	3S582	B32				5	77, 44, 75, 43, 25Z5	262.5	4-1
165	Vol.	24293	55	MR48	M26			25168	1	RS213					5	57, 58, 2A6, 2A5, 80	262.5	4-2
								25167	15	TC22								
165 (2nd Type)	Vol.	24293	55	MR48	M26			25168	1	RS213					5	57, 58, 2A6, 2A5, 80	264	5-9
								25167	15	TC22								
165Q	Vol.	25692	27	MR48	M27		A95	22472	12	TC52					5	1A6, 34, 32, 30, 19	264	4-23
168	Vol.		18	MR48	M26			22538	3	RS213					8	[3]58, 55, 56, [3]47, 80	125	7-13
184	Vol.	27567	2	MR24	M26			28031	25	RS213					4	[3]6C6, 42, 80	450	7-15
								27583	25	RS216								
185	Vol.	24293	55	MR48	M26			25168	1	RS213					5	57, 58, 2A6, 2A5, 80	264	5-9
								25167	15	TC22								
185A	Vol.	24293	55	MR48	M26			25168	1	RS213					5	2A7, 58, 2A6, 2A5, 80	264	5-11
								25379	15	TC22								
188, 188F	Vol.	20389	13	MR48	M26			22538	25	RS213					8	[3]58, 57, 47, [3]56, 80	130	3-135
188, 188F (2nd Type)	Vol.	23228	13	MR48	M26			22538	25	RS213					8	56, [3]58, 55, 57, 47, 80	130	3-137
	Sil.	28220	12	A20MP														
206	Vol.	27425	18	MR48	M26			27592	1/15	3S579	B111				6	2A7, [3]58, 2A6, 2A5, 80	472.5	5-13
								22538	1	RS213								
206D	Vol.	27425	18	MR48	M26			28403	39	2N516	B11				6	[3]78, 6A7, 85, [3]43	472½	7-17
E208	Vol.	29618	18	MR48	M26			29691	1	RS216					8	[3]6K7, 6A8, 6H7, [2]6F6, 5Z4	472½	7-19
								27583	1	RS216								
								25379	15	TC22								
215Z	Vol.	27425	19	MR48	M26			26995	1	2N518		28449	F297	C3	5	6A7, 78, 75, 43, 84	264	6-7
								22538	1	RS213								
								.05-.05		Buffer	B14							
P216	Vol.	28961	18	MR48	M26			28031	1	RS213					6	[2]6D6, 6A7, 75, 42, 80	472½	7-21
								27592	1/14/15	3S579	B111							
217	Vol.	24079	55	MR48	M26			22538/25168	1	RS213					7	[3]58, 55, 56, 2A5, 80	264	4-4
								25379	15	TC22								
217D	Vol.	24079	55	MR48	M26			23981	39	2S562	B11				7	[3]78, 75, [3]43, 37	264	4-5
228	Vol.	20389	13	MR48	M26			22538	4	RS213					8	[3]27, 24, [3]35, 47, 80	130	3-139
228D	Vol	20389	13	MR48	M26			20049	12	RS216					6	[3]36, [3]37, 33	130	3-143
228F	Vol.	20389	13	MR48	M26			22538	4	RS213					8	[3]35, 24, [3]27, 47, 80	130	3-141
								22397	4	TC71								
228Q	Vol.	16122	15	MR39				19728	12	RS213					7	[4]32, [3]30, 33	130	3-145
								23146	12	RS213								
								22538	12	RS213								
236	Vol.	24079	18	MR48	M26			26381	1	ST595					6	[3]58, 56, 2A6, 2A5, 80	125	7-23
								25379	15	TC22								
237Q	Vol.	28961	18	MR48	M26			31552	1	2N516			294	C3	7	1C6, [3]34, 1B5, 30, 19 6Z4	472.5	6-12
								29529	13	ST595								
								.015-.015		Buffer	B14							
246	Vol.	24079	55	MR48	M26			24099	1	RM262					6	56, 57, 58, 55, 47, 80	262.5	3-147
255	Vol.	32398	19	MRT440	M26			22538	25	RS213					5	6A8, 6K7, 75, 6F6, 80	450	7-25
								27583	25	RS216								
260, 260F (Types 1 and 2)	Vol.	20389	15	MR48	M26			22538	2	RS213					10	[4]58, [3]56, [2]47, 80	130	3-149
	ToneB'm	27190	‡	M15MP														
260, 260F (3rd Type)	Vol.	23228	18	MR48	M26			22538	2	RS213					10	57, [4]58, 55, 56, [2]47, 80	130	3-153
	ToneB'm	29020	‡	M20MP														
	Sil.	28220	12	A20MP														
266	Vol.	24079	18	MR48	M26			22538	1	RS213					6	57, 58, 55, 56, 47, 80	262.5	4-6
273D	Vol.		118	MR48	M26			8-8	39	2N516	B11				3	1A6, [3]34	‡	7-26
275	Vol.	25798	55	MR48	M26			26158	29	3S582/TC52	B72				5	6A7, 44, 75, 43, 25Z5	264	4-7
285Q	Vol.	29531	45	MR48	M23			29529	12	ST595					5	1C6, 34, 32, 33, 30	450	6-13

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ATWATER KENT—	Continued																	
286	Vol.	28961	18	MR48	M26			28031	1	RS213					6	²58, 2A7, 2A6, 2A5, 80	472.5	6-15
								27592	1/14/15	3S579	B111							
305Z	Vol.	28961	18	MR48	M26			26995	1	2N518			F297	C3	5	6A7, 78, 75, 43, 6Z4-84	264	6-9
								25379	15	TC22								
								.05-.05		Buffer	B14							
310	Vol.	25798	45	MR48	M26			22538	3	RS213					10	²58, ⁴56, ²2A5, 80	130	4-8
	Sil.	26338	7	H														
312, E312	Vol.	27321	15	MR48	M26			28031	1	RS213					12	²6D6, 6A7, ¹76, ²2A3, 5Z3	472½	7-29
								27583	1	RS216								
								29961	13	ST597								
								25384	13	ST595								
								29962	14	2N518								
								25379	15	TC22								
317	Vol.	28961	45	MR48	M26			28031	1	RS213					7	²6K7, 6A8, 6H6, 6F5, 6F6, 5Z4	472.5	6-17
								27592	1/14/15	3S579	B111							
318	Vol.	27321	55	MR48	M26			28031	1	RS213					8	²58, 2A7, 5, ²2A5, 80	472.5	
325	Vol.	27425	18	MR48	M26			19060	1	RS213					5	2A7, 58, 2A6, 2A5, 80	264	5-7
								27585	1	RS213								
								10	15	TC22								
328 (Early)	Vol.	29618	18	MR48	M26			29691	1	RS216					8	²6K7, 6A8, 6H6, 6F5, 6F6, 5Z4	472.5	6-18
								27592	1/14/15	3S579	B111							
328 (Late)	Vol.	29618	18	MR48	M26			31702	1/14/15	3S579					8	²6K7, 6A8, 6H6, 6F5, 6F6, 5Z4	472.5	7-33
								28031	1	RS213								
P336	Vol.		18	MR48	M26			27592	1/14/15	3S579	B111				6	²6D6, 6A7, 75, 42, 80	472½	7-21
								28031	1	RS213								
337	Vol.	28961	45	MR48	M26			27592	1/14/15	3S579	B111				7	²6K7, 6A8, 6H6, 6F5, 6F6, 5Z4	472.5	6-17
								28031	1	RS213								
356	Vol.	28961	18	MR48	M26			27592	1/14/15	3S579	B111				6	²58, 2A7, 2A6, 2A5, 80	472.5	6-15
								28031	1	RS213								
376	Vol.	27425	18	MR48	M26			27592	1/14/15	3S579	B111				6	²58, 2A7, 2A6, 2A5, 80	472.5	5-13
								22538	1	RS213								
376D	Vol.		18	MR48				28403	39	2N516	B11				6	²78, 6A7, 85, ²43	472½	7-18
385Q	Vol.	29251	27	UC513	13			22472	12	TC52					5	1C6, 34, 32, 30, 19	264	6-19
387	Vol.	25692	12	MR48	M27		A95	22472	12	TC52					7	²34, 1A6, 32, ²30	264	4-9
E412, E412X, P412, P412X	Vol.	27321	15	MR48	M26			29691	46	RS216					12	⁴6K7, 6A8, 6H6, ⁴6C5, ²2A3, 5Z3	472½	7-35
								27583	46	RS216								
								25384	14	ST595								
								29962	14	2N518								
								29964	15	TN111								
415Q	Vol.	29531	45	MR48	M23			29529	12	ST595					5	1C6, 34, 32, 33, 30	450	6-13
416	Vol.	32102	17	UM157-SS12				32136	4	2S567	B33	32138	294	C3	6	²6K7, 6A8, 6Q7, 6F6, 6X5	264	7-3
								25379	15	TC22								
								.003		Buffer	B14							
424	Vol.	23482	55	MR48				25385	1	ST595			222	C1	4	77, 44, 75, 41	264	4-11
								24379	15	TC22								
								25384	1	ST595								
								.01-.01		Buffer	B14							
425	Vol.	24079	55	MR48	M26			25168	1	RS213					5	57, 58, 2A6, 2A5, 80	264	4-24
								25379	15	TC22								
								26381	1	ST595								
427	Vol.	24079	55	MR48	M26			25168	1	RS213					7	²58, 56, 55, 2A5, 80	264	4-4
								25397	15	TC22								
427D	Vol.	24079	55	MR48	M26			23981	39	TCD55	B11				7	²78, 75, 37, ²43	264	4-5
427Q	Vol.	25692	12	MR48	M27			22472	12	TC52					7	1A6, ²34, 32, ²30	264	4-9
435	Vol.	29482	18	MR48	M26			28031	25	RS213					5	6A8, 6K7, 75, 6F6, 80	450	6-21
								27585	25	RS216								
								25379	15	TC22								
435 (2nd Type)	Vol.	29482	18	MR48	M26			8	25	RS213					5	6A8, 6K7, 75, 6F6, 80	450	7-37
								16	25	RS216								
446	Vol.	32102	17	UM157-SS12				32136	4	2S567	B33	32138	294	C3	6	²6K7, 6A8, 6Q7, 6F6, 6X5	264	7-3
								25379	15	TC22								
								.003		Buffer	B14							
447	Vol.		55	MR48	M26			28031	1	RS213					7	²58, 2A7, 2A6, 2A5, 80	472.5	7-39,40
								4	13	RS213								
								10	15	TC22								
448	Vol.	23228	55	MR48	M26			22538	3	RS213					8	²58, 55, ²47, 56, 80	130	4-12
	Sil.	24711	7	E														
465Q	Vol.	27966	27	UC513	7		A95	22472	12	TC52					5	1C6, 34, 32, 30, 19	264	6-23
467Q	Vol.	28961	18	MR48	M26			31552	1	2N516		32138	294	C3	7	1C6, ²34, 1B5, 30, 19, 6Z4	472.5	6-12
								29529	1	ST595								
								.015-.015		Buffer	B14							
469	Vol.	20389	13	MR48	M26			22538	1	RS213					9	²58, ³56, ²47, 80	130	3-155
	ToneB'm	27190	‡	Order from	Mfr.													
469 (2nd Type)	Vol.	23228	18	MR48	M26			22538	2	RS213					9	56, 57, ²58, 55, ²47, 80	130	3-157
	Sil.	28220	12	A20MP														
	ToneB'm	29020	‡	M20MP														
469D	Vol.	23228	18	MR48	M26			23981	39	TCD55	B11				8	²39, 36, 37, 85, ²48	130	3-163
	Sil.	28220	12	A20MP														
469F	Vol.	20389	13	MR48	M26			22538	2	RS213					9	²58, ³56, ²47, 80	130	3-155
	ToneB'm	27190	‡	Order from	Mfr.													

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ATWATER KENT—	Continued																	
469F (2nd Type)	Vol.	23228	18	MR48	M26			22538	2	RS213					9	[3]58, 56, 57, 55, [3]47, 80	130	3-157
	Sil.	28220	12	A20MP														
	ToneB'm	29020	‡	M20MP														
469Q	Vol.	23482	15	MR48				22472	12	TC52					9	[3]34, [3]32, [3]30	130	3-165
475	Vol.	28961	18	MR48	M26			28031	1	RS213					5	2A7, 58, 2A6, 2A5, 80	264	6-27
								27585	1	RS213								
								25379	15	TC22								
480	Vol.	23376	13	MR48	M26			22538	1	RS213					10	[4]58, [3]56, [3]47, 80	472.5	3-159
	ToneB'm	27190	‡	Order from	Mfr.													
485Q	Vol.		18	MR48	M23			29529	12	ST595					5	1C6, [3]1A4, 1B5, 33	450–472.5	7-41
								28031	12	RS213								
487	Vol.	27321	55	MR48	M26			28031	1	RS213					7	[3]58, 2A7, 2A6, 2A5, 80	472½	7-43
								27592	1/14/15	3S579	B111							
509	Vol.	29144	64	MR48				22538	3	RS213					9	[3]58, 2A7, 56, 55, [3]2A5, 80	472½	7-45
510	Vol.	25798	45	MR48	M26			22538	3	RS213					10	[3]58, [4]56, [3]2A5, 80	130	4-8
	Sil.	26338	7	11														
511	Vol.	27732	55	MRT427				22538	1	RS213					11	[3]58, 2A7, 2B7, [3]56, [3]2A3, 5Z3	472.5	6-29,31
								25385	12	ST595								
								27911	24	RS216								
								25384	24	ST595								
								25379	15	TC22								
515Q	Vol.		18	MR48	M27			28031	12	RS213					5	1C6, [3]1A4, 1B5, 33	450	7-41
								29529	12	ST595								
525	Vol.	26564	55	MR48	M26			25168	1	RS213					5	57, 58, 2A6, 2A5, 80	264	5-9
								25167	15	TC22								
								26381	1	ST595								
525Q	Vol.	26718	27	UC513	7		A95	22472	12	TC52					5	1A6, 34, 32, 30, 19	264	4-23
534	Vol.	21496	55	MR48				25385	1	ST595		25595	222	C1	4	77, 44, 75, 41	450	4-11
								24379	15	TC22								
								25384	1	ST595								
								.01-.01		Buffer	B14							
545	Vol.	29482	18	MR48	M26			22538	1	RS213					5	6A7, 6D6, 75, 42, 80	472.5 or 450	6-35
								25384	1	ST595								
555	Vol.	24293	55	MR48	M26			24403	1	2N518					5	47, 55, 57, 58, 80	262.5	4-14
555 (2nd Type)	Vol.	24293	55	MR48	M26			22538	1	RS213					5	57, 58, 55, 47, 80	262.5	4-15
								25184	1	ST595								
556	Vol.	32102	17	UM157-SS12				32273	1	2N518		32138	294	C3	6	[3]6K7G, 6A8G, 6Q7G, 6X5G, 6F6G	264	7-49
								25379	15	TC22								
								.01-.01		Buffer	B14							
557	Vol.	27321	55	MR48	M26			28031	1	RS213					8	[3]58, 2A7, 55, [3]2A5, 80	472.5	5-29
558	Vol.	23228	55	MR48	M26			22538	4	RS213					8	[3]58, 55, 56, 57, 47, 80	130	3-169
	Sil.	28220	12	A20MP														
558D	Vol.	23228	55	MR48	M26			23981	39	TCD55	B11				8	[3]39, 37, 36, 85, [3]48	130	3-163
	Sil.	28220	12	A20MP														
558Q	Vol.	23482	15	MR48				22472	12	TC52					9	[3]30, [3]32, [3]34	130	3-165
559	Vol.	27321	55	MR48	M26			22538	3	RS213					9	[3]58, 55, [3]2A5, 80	472.5	5-25
565Z	Vol.	28961	18	MR48	M26			26995	1	2N518		28449	F297	C3	5	6A7, 78, 75, 43, 6Z4-84	264	6-9
								25379	15	TC22								
								.05-.05		Buffer	B14							
567, 567F	Vol.	20840	8	A5MP	6			22538	4	RS213					7	[3]35, 24, 47, 27, 80	130	3-167
E608	Vol.	29618	18	MR48	M26			29961	1	ST597					8	[3]6D6, 6A7, 85, [3]42, 80	472½	7-51
612	Vol.	23228	55	MR48	M26			22538	2	RS213					12	[4]58, 56, 57, 55, [3]46, [3]83	130	3-171
	ToneB'm	29020	‡	M20MP				23498	2	RS213								
	Sil.	28220	12	A20MP				23479	15	TC36								
625Q	Vol.	29251	27	UC513	13			22472	12	TC52					5	1C6, 34, 32, 30, 19	264	6-19
627	Vol.	23228	55	MR48	M26			22538	4	RS213					7	[3]58, 56, 55, 47, 80	130	3-173
636	Vol.	24098	55	MR48				24298	1	TC52					6	[3]39, 36, 85, [3]41	262.5	3-181
E648	Vol.	29618	18	MR48	M26			29961	1	ST597					8	[3]6D6, 6A7, 85, [3]42, 80	472½	7-51
649	Vol.	27321	17	MR48	M26			29691	1	RS216					9	[3]6K7, 6A8, 6H6, 6C5, [3]6F6, 5Z4	472.5	6-37
								25379	15	TC22								
655Q	Vol.	27966	27	UC513	7		A95	22472	12	TC52					5	1C6, 34, 32, 30, 19	264	6-23
657Q	Vol.	31734	18	MR48	M27			31552	24	2N516					7	1C6, [3]34, 1B5, [3]30	472.5	7-55,56
665	Vol.	24079	55	MR48	M26			25168	1	RS213					5	57, 58, 2A6, 2A5, 80	264	4-24
								26381	1	ST595								
								25379	15	TC22								
666	Vol.	26505	55	UC512	6			26995	1	TCD62		27005	296	C3	6	[3]6D6, 6A7, 85, 6Z4-84	264	5-31
								25379	15	TC22								
								.05-.05		Buffer	B14							
667	Vol.	24079	55	MR48	M26			22538	1	RS213					7	[3]58, 56, 55, 2A5, 80	264	4-4
								25379	15	TC22								
667D	Vol.	24079	55	MR48	M26			23981	39	TCD55	B11				7	[3]78, 37, 75, [3]43	264	4-5
708	Vol.	24079	55	MR48	M26			22538	1	RS213					8	[3]58, 2A6, 2A5, 80	472.5	4-17
								25167	15	TC22								
710	Vol.	27321	18	MR48	M26			28031	1	RS213					10	[3]6D6, 6A7, 6B7, [3]76, [3]45, 5Z3	472½	7-65
								27583	14	RS216								
								25384	14	ST595								
								29964	15	TN111								
711	Vol.	25798	55	MR48	M26			22538	28	RS213					11	[3]58, 55, [3]56, [3]2A3, 5Z3	472.5	4-21
	Sil.	26338	7	11				25384	24	ST595								
								25385	24	ST595								

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ATWATER KENT—	Continued																	
725, 725X	Vol.	29482	18	MR48	M26			28031	25	RS213					5	6A8, 6K7, 75, 6F6, 80	450	7-57
								27585	25	RS213								
735	Vol.	28961	18	MR48	M26			28031	1	RS213					5	2A7, 58, 2A6, 2A5, 80	264	6-27
								27585	1	RS213								
								25379	15	TC22								
747Q	Vol.	31734	18	MR48	M27			31552	24	2N516					7	1C6,[3]34, 1B5,[3]30	472.5	7-55,56
P755	Vol.	28961	18	MR48	M26			28031	1	RS213					5	6A7, 6D6, 75, 42, 80	264	7-59
								27583	1	RS216								
								25379	15	TC22								
756, 756B	Vol.	21496	55	MR48				24298	1	TC52					6	[3]39, 36, 85,[3]41	262.5	3-183
E765	Vol.	28961	18	MR48	M26			28031	1	RS213					5	6A7, 6D6, 75, 42, 80	472½	7-61
								27592	1/14/15	3S579	B111							
768Q	Vol.	27965	18	MR48	M27			22472	12	TC52					8	1C6,[3]34,[4]30,32	472.5	6-38
776	Vol.	26505	55	UC512	6			26995	1	TCD62		27005	296	C3	6	6A7,[3]6D6, 41, 84, 85	264	6-41
								25379	15	TC22								
								.05-.05		Buffer	B14							
788	Vol.	25798	55	MR48	M26			22538	1	RS213					8	[3]58, 2A6, 2A5, 80	472.5	5-37
	Sil.	26338	7	11				23579	15	TC22								
808	Vol.	24079	55	MR48	M26			22538	1	RS213					5	[3]58, 2A6, 2A5, 80	472.5	4-17
								25379	15	TC22								
808A	Vol.	24079	55	MR48	M26			22538	1	RS213					8	[3]58, 2A6, 2A5, 80	472.5	4-22
								25379	15	TC22								
810	Vol.	31608	19	MRT427	M26			22538	1	RS213					10	[3]6K7, 6A8, 6H6, 6C5, [3]6F6, 5Z4	472.5	6-44
								27583	1	RS216								
812	Vol.	23228	55	MR48	M26			29964	15	TN111								
	ToneB'm	29020	‡	M20MP				22538	1	RS213					12	[3]58, 56, 57, 55,[3]46,[3]83	130	3-175
	Sil.	28220	12	A20MP				23498	1	RS213								
								23481	1	RS215								
								23479	16	TC36								
816	Vol.	26505	55	UC512	6			26092	1	2N518			222	C1	6	[3]39, 6A7, 85,[3]41	264	5-43,44
								.05-.05		Buffer	B14							
825 AC-DC	Vol.	27731	55	MR48	M26			26158	29	3S582/TC52	B72				5	6A7, 44, 75, 43, 25Z5	264	5-47
854	Vol.	27567	2	MR24	M26			22538	1	RS213					4	[3]57, 2A5, 80	450	
								27584	1	ST595								
856	Vol.	28961	45	MR48	M26			28031	1	RS213					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	264	6-45
								27585	1	RS213	B27							
								27583	1	RS216								
P875	Vol.	28961	18	MR48	M26			28031	1	RS213					5	6A7, 6D6, 75, 42, 80	264	7-59
								27583	1	RS216								
								25379	15	TC22								
926	Vol.	26505	55	UC512	6			26864	12	ST595					6	[3]39, 6A7, 85,[3]41	264	5-43
936	Vol.	26505	55	UC512	6			26864	12	ST595					6	[3]39, 6A7, 85,[3]41	264	5-43
944	Vol.	27567	2	MR24	M26			22538	25	RS213					4	[3]57, 2A5, 80	450	5-49
								27584	25	ST595								
976	Vol.	28961	45	MR48	M26			28031	25	RS213					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	264	6-45
								27585	25	RS213	B27							
								27583	1	RS216								
978Q	Vol.	27965	55	MR48	M27			22472	12	TC52					8	1C6,[3]34,[4]30, 32	472.5	6-38,39
AUBURN																		
A5A3	Vol.	W30436A	18	UC514	6			W32759	1	RS213		LB32037	247	C3	5	[3]78, 6F7, 6B7, 42	181.5	
								W32802	1/15	TCD62								
								.005		Buffer	B14							
AUDIOLA—Also see	Fairbanks-Morse.																	
Jr	Vol.		6	G7	6		A14	1-2	1	See Note	B1				5	[3]24, 45, 80		1-7
	Tone		22	MR18														
Jr. No. 1	Vol.		6	G7	6		A14	8, 8	1	RS213					6	[3]24, 27, 45, 80		2-6
	Tone		22	MR18														
Jr. No. 2, 6 Tube	Vol.		6	G7	6		A14	8, 8	1	RS213					6	[3]24, 27, 45, 80		2-6
	Tone		22	MR18														
4 Tube Pent. 1931	Vol.		6	G7	6		A14	4-4	1	See Note	B3				4	35, 24, 47, 80		2-2
4 Tube, '32	Vol.		6	G7			A14	6-4	4	See Note	B3				4	35, 24, 47, 80		3-1
6 Tube Pent. '31	Vol.		6	G7	6		A14	8-8	1	See Note	B3				6	[3]35, 24, 27, 47, 80		1-7
	Tone		22	MR18														
7 Tube Sup. Pent.'31	Vol.		6	G7	6		A14	8-8	1	See Note	B3				7	[3]35,[3]24, 27, 47, 80	177.5	2-1
	Tone		22	MR44														
8 Tube Sup. Pent.'31	Vol.		6	G7		3		8-8	1	See Note	B3				8	[3]35,[3]27,[3]24, 47, 80	177.5	1-8
	Tone		22	MR44														
9 Tube Sup. Pent.'31	Vol.		6	G7	6		A14	8-8	1	See Note	B3				9	[3]53,[3]27,[3]24, 47, 80	177.5	2-4
10 Tube Sup. '31	Vol.		6	G7		3		8-8	1	See Note	B3				10	[3]24,[3]27,[3]45, 80	177.5	2-3
	Tone		41	MR53														
B6	Vol.	V6502	18	UC512				8-8	25	TCS71			297	C3	6	[3]6D6, 6A7, 75, 41, 84	177.5	5-1
								.02		Buffer	B14							
9T45	Vol.		6	G7	6	3		8, 8	1	RS213					9	[3]35,[3]27,[3]24, 45, 80	177.5	2-3
	Tone		21	MR53														
13S6	Vol.		6	MR18			A14	8, 8	1	RS213					6	[3]24, 27, 35, 47, 80	‡	§6-3
	Tone		22	See Note			A5											
13S9	Vol.		6	G7		3		4-4	3	2N518	B28				9	[3]35, 24,[3]27,[3]47, 80	177.5	2-4
	Tone		22	MR44				8	3	ST595	B28							
13T5	Vol.		6	G7	6		A14	4-4	1	See Note	B3				5	[3]35, 24, 47, 80		5-4
	Tone		22	MR44														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AUDIOLA—Continued																		
23S8 (1st Type)	Vol.		6	G7		3		8, 8	1	RS213					8	[235,324,327, 47, 80	‡	
	Tone		22	MR33				5	19	TC22								
23S8 (2nd Type)	Vol.		15	MR48				8, 8	4	RS213					8	[258,356, 57, 47, 80	177.5	3-2
	Tone		22	MR33														
23S8Q	Vol.		15	MR39	M26			8, 8	1	RS213					8	[235,327, 24, Wunderlich, 47, 80	177.5	3-3
	Tone		22	See Note			A5	5	17	TC22								
23S10	Vol.		45	MR44	M26			8, 8	4	RS213					10	[258,356, 57,347, 80	177.5	3-4
	Tone		22	MR33														
23S10 (2nd)	Vol.		45	MR44	M26			12	4	RS215					10	[258, 57,356,32A5, 80	177.5	4-3
	Tone		22	MR33				8	4	RS213								
23S12	Vol.		45	MR44	M26			8	3	RS213					12	[258,356, 57,346, 83	177.5	3-5
	Tone		22	MR33				8, 8	3	RS213								
23S12 (Revised)	Vol.		45	MR44	M26			8	3	RS213					12	[258,356, 57,359, 5Z3	177.5	5-3
	Tone		22	MR33				12	3	RS215								
								8	3	RS213								
23T5	Vol.		6	G7	6		A14	4-4	1	See Note	B3				5	[235, 24, 47, 80		3-6
23T5 SW	Vol.		6	MR18	M26	EX300		6-4	4	See Note	B3				5	[235, 24, 47, 80		3-6
30B	Vol.		12	D12				1-3-3	3	See Note	B1				7	[324, 27,345, 80		1-4
31 Series	Vol.		6	G7			A14	8-8-8	3	3S584					7	[324, 27,345, 80		1-5
	Tone		41	MR53		See Note	A4											
31 Super	Vol.		6	G7			A14	8-8-8	3	3S584					9	[424,327,345, 80	175	1-6
	Tone		41	MR53														
	Tone		22	MR44		See Note	A4											
32S11	Vol.		45	MR48				8, 8, 8	25	RS213	B3				11	[235,427, 24,347, 80	177.5	§6-3
	Tone		22	MR33														
33S5	Vol.		6	MR33	M26		A14	16-8	6	2N509					5	[26D6-78, 6C6-77, 43, 25Z5	456	4-7
								5	15	TC22								
33S5 (Rev.)	Vol.		6	MR33	M26		A14	8	4	RS213					5	[258, 57, 2A5, 80	456	5-4
33S6B	Vol.		6	MR33											5	32,334, 30, 19	450	5-6
33S7	Vol.		45	MR48	M26			8-4	4	See Note	B3				7	[258, 57,356, 2A5, 80	456	4-7
	Tone		22	MR33														
33S10 SW	Vol.		15	MR44				12	4	ST597					10	[458, 57, 55, 56,32A5, 80	456	5-5
	Tone		22	MR33	M26			8	4	ST595								
33T4	Vol.		6	MR33	M26			4-4	1	2N516					4	6D6-78, 6C6-77, 38-89, 12Z3-37		4-7
								5	15	TC22								
34C5 (AC-DC)	Vol.		17	MR48	M26			16-8	6	2N509					5	6A7, 6D6, 75, 43, 12Z3	456	5-6
								5	15	TC22								
34S5	Vol.		17	MR44	M26			8, 8	4	RS213					5	2A7, 58, 2A6, 2A5, 80.	456	5-7
								5	15	TC22								
34S5 LW	Vol.		6	MR33	M26			8, 8	4	RS213					5	2A7, 58, 57, 2A5, 80.	456	5-8
51, 52	Vol.		17	MR48				8, 8	4	RS213					5	2A7, 58, 2A6, 2A5, 80	456	
	Tone		22	MR33				5	15	TC22								
53	Vol.		18	MR48				8, 8	4	RS213					5	2A7, 58, 2A6, 2A5, 80	456	
	Tone		22	MR33														
346	Vol.		17	UC512	6			8-8	25	2S567	B24		297	C3	6	[26D6, 6A7, 75, 41, 84.	177.5	5-1
	Tone		22	MR33				.02		Buffer	B14							
347	Vol.		17	MR48	M26			8-8	25	See Note	B3		297	C3	7	[26D6, 6A7, 85,341, 84	177.5	5-2
	Tone		44	MR33				.02		Buffer	B14							
516 (2-volt bat. set)	Vol.		134	MR33											5	32,334, 30, 19	177.5	
889	Vol.		4	A				1-.5-2-2-2		See Note	B1				8	[426, 27,371, 80		1-10
7330	Vol.		12	D				1-3-3		See Note	B1				7	[324, 27,345, 80		1-4
8430	Vol.		7	MR37				1-3-3-.5		See Note	B1				8	[327,345, 80		1-3
AUSTIN																		
A	Vol.		6	F7	6		A14	8, 8	1	RS213					5	[324, 45, 80		6-1
J	Vol.		6	E7	6		A14	8-8	1	2N518					6	[424, 45, 80		6-1
	Tone		22	MR21														
S	Vol.		6	F7	6			8, 8	1	RS213					8	[324,327,345, 80	175	6-2
	Tone		149	MR18														
SP	Vol.		6	F7	6		A14	8, 8	1	ST595					8	[251,327, 24,347, 80	175	6-3
	Tone		149	MR18														
AUTOCRAT																		
Jr. 4	Vol.		6	MR18	M26			8-4	25	2S567					4	[57, 47, 80		4-2
4SA	Vol.		6	MR18	M26	See Note	A14	12-12	1	2N509					4	6D6, 6C6, 43, 25Z5		5-2
								10	15	TC22								
4LW	Vol.		6	MR28	M26	EX300		8-4-4	8	See Note	B3				4	6D6, 6C6, 43, 25Z5		4-3
5	Vol.		17	UM154		See Note	A96	8-8	4	2S567	B33		292	C3	5	6A7, 6D6, 6B7, 41, 84	456	5-1
								10	15	TC22								
								.008-.008		Buffer	B14							
5M	Vol.	2016	6	MR18	M26	EX450		316	‡	TN125/TC22					4	6D6, 6C6, 43, 25Z5, L55B		§9-2
5SA (55SA)	Vol.		17	MR48	M26			10-5-25	11	2S556/TC40					5	6A7, 6D6, 75, 43, 25Z5	456	5-1
								10	15	TC22								
6	Vol.		17	MR48	M26			4-4	1	2N518					6	57, 58, 55, 56, 2A5, 80.	175	4-3
	Tone		22	MR48														
6 (Revised)	Vol.		56	MR48	M26			7-4	1	2N518					6	2A7, 58, 56, 2B7, 2A5, 80	175	5-2
	Tone		22	MR48				10	15	TC22								
6D32	Vol.		18	MR48				8-4	4	2S567			See Note	C6	5	6A7, 6D6, 75, 41, 84.	175	5-2
	Tone		22	MR33														
56SW, 57SW	Vol.	2016B	6	MR18	M26	EX450		312	4	TC44					4	6D6, 6C6, 25L6G, 25Z5, L55B		§9-2
								324	4	TC47								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AUTOCRAT—Continued																		
57C	Vol.		6	MR18	M26	EX300		4-4	25	2S567	B24				4	58, 57, 47, 80		4-4
80	Vol.		69	MR18		See Note A14		4-4	25	2S567	B24				5	‡58, 57, 47, 80		4-4
90SL	Vol.		15	MR48				8-8	1	2N518					9	57,‡58, 2B7,‡56,‡2A5, 80	175	5-3
	Tone		21	MR48														
90	Vol.	24-130	18	MR53	M27			18-243	19	TC22					4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-1
91	Vol.	24-136	6			See Note A5		18-249	24	2N509					2	12B8GT, 32L7GT		11-3
92	Vol.	24-135	18	UM154	M26		A96	18-246	24	TCD55		34-102	859	C3	5	6SA7, 6D6, 75, 41, 84	455	11-5
								.005		Buffer	B14							
93	Vol.	24-130	18	MR53	M27			18-243	19	TC22					4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-6
94	Vol.	24-132	18	MR48	M26			18-241	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, BK49B	455	11-6
95	Vol.	24-132	18	MR48	M26			18-241	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-3,4
96	Vol.	24-132	18	MR48	M26			18-241	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, BK49B	455	11-6
98	Vol.	24-138	18	MR53	M27			18-250	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	11-3,4
101I, 101O, 101W	Vol.	24-139	18	MR48	M26			18-251	24	2N513					3	12SA7GT, 25D8GT, 70A7GT	455	11-3
102I, 102O, 102W	Vol.	24-142	18	MR48	M26			18-241	1	2N509					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L7GT, 25Z6GT, BM198	455	11-7
103I, 103O, 103W	Vol.	24-142	18	MR48	M26			18-241	1	2N509					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT, BM198	455	11-7
104	Vol.	24-117	6	MR36	M26			18-230	1/15	TN125					4	6K7, 6F5, 25L6, 25Z6		11-5
106	Vol.	24-124	18	MR48	M26			18-236	24	2N511		34-103	246A	C3	4	6D8G, 6S7G, 6T7G, 6G6G	455	11-1,2
								.004		Buffer	B14							
107I, 107W	Vol.	24-146	18	MR48	M26			18-255	1	2N511					6	6SA7GT, 6P5GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	11-7
109, 110	Vol.	24-146	45	MR48	M26			18-254	1	FP227	B117				6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-7
								18-243	19	TC26								
112	Vol.	24-145	45	MR48	M26			18-254	1	FP227	B117				6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-8,9
								18-243	19	TC26								
113	Vol.	24-145	18	MR48	M26			18-255	1	2N511					6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 25L6GT, 25Z6GT	455	11-8,9
114	Vol.	24-144	45	MR48	M26			18-256	1	FP234					7	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 6P5GT, 5W4GT	455	11-8,9
								18-243	19	TC26								
115	Vol.	24-144	18	MR48	M26			19-261	1	TC48					8	12SA7GT, 12SK7GT, 12SQ7GT, 12E5GT, ‡50L6GT, ‡45Z5GT	455	11-10
116	Vol.	24-138	18	MR53	M27			18-250	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	11-8,9
118	Vol.	24-144	18	MR48	M26			18-254	1	FP227	B117				6	6SA7GT, 6SK7GT, 6SQ7GT, 6P5GT, 6K6GT, 5W4GT	455	11-10
								18-243	19	TC26								
119	Vol.	24-144	18	MR48	M26			18-255	1	2N511					6	6SA7GT, 6SK7GT, 6SQ7GT, 6P5GT, 25L6GT, 25Z5GT	455	11-10
120	Vol.	24-138	18	MR53	M27			18-257	24	2N511					5	1A7GT, 1N5GT, 1P5GT, 1A5GT, 35Z4GT	455	11-10
								18-258	24	TC44								
								18-259	‡	TC39								
121	Vol.	24-146	18	MR48	M26			18-255	1	2N511					6	6SA7GT, 6SK7GT, 6SQ7GT, 6P5GT, 25L6GT, 25Z6GT	455	11-11
123	Vol.	24-143	45			See Note A19		18-256	1	FP234					7	6SA7GT, ‡6P5GT, 6SK7GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-11
								18-243	19	TC22								
125	Vol.	24-146	18	MR48	M26			18-255	1	2N511					6	6SA7GT, 6SK7GT, 6SQ7GT, 6P5GT, 25L6GT, 25Z6GT	455	11-11
130	Vol.	24-124	18	MR48	M26			18-232	6	TC48					5	6A7, 6D6, 75, 25L6G, 25Z5, BM498	455	11-12
								18-235	15	TC22								
131	Vol.	24-150	18	MR53				18-263	24	2N509					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-1
								18-262	24	2N509								
142	Vol.	24-127	6			See Note A5		18-234	1/15	3N533					4	6D6, 6F5G, 25L6G, 25Z5		11-12
148, 148-2	Vol.	24-123	127	MR53	M26			18-226	1	TCD72					6	6A7, 6D6, 75, 76, 6AC5G, 80	455	11-13
	Tone	26-118	22	MR48														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
168	Vol.	24-123	127	MR53	M26			18-226	1	TCD72					7	6A7, 6D6, 75, 76, 6AC5G, 6G5, 80	455	11-13
	Tone	26-118	22	MR48														
213								18-241	1	2N509					2	6A7, 76		11-2
359	Vol.		18	UM154	M26		A96	4-4	23	TCS71			Order fro	m Mfr.	5	6A7, 6D6, 6Q7G, 41, 84	456	11-14
								.0038		Buffer	B14							
401, 401V	Vol.	24-152	18	MR48	M26			18-265	24/15	3N533					4	12SA7, 12SQ7, 50L6GT, 35Z5GT	455	12-2
406	Vol.		7	‡		See No	te A5	5	15	TC32					4	6D6, 6C6, 38, 12Z3		7-2
411	Vol.	24-152	18	MR48	M26			18-265	24/15	3N533					4	12SA7, 12SQ7, 50L6GT, 35Z5GT	455	12-2
422	Vol.	24-154	18	MR53	M27			18-250	19	TC42					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	12-2
431	Vol.	24-148	18	MR53	M27			18-250	19	TC42					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	12-1
501, 501U	Vol.	24-153	18	UM154	M26		A96	18-266	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-3
503	Vol.	24-153	18	UM154	M26		A96	18-266	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-3
505	Vol.	505B	18	UM154	M26		A96	505F	1	2N518		505V	294	C3	5	6A7, 6D6, 75, 41, 84	456	7-1
								5	15	TC32								
								.03		Buffer	B14							
518, 618	Vol.		17	UM154			A96	4-8	4	2S567		505V	294	C3	6	[2]6D6, 6C6, 75, 41, 84	456	7-2
	Tone		22	UM140			A96	4	15	TC32								
								.0075		Buffer	B14							
521	Vol.	24-153	18	UM154	M26		A96	18-266	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-3
531	Vol.	24-150	18	MR53				18-263	24	2N509					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-1
								18-262	24	2N509								
533	Vol.	24-150	18	MR53				18-263	24	2N509					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-1
								18-262	24	2N509								
601	Vol.	24-153	18	UM154	M26		A96	18-266	22	2N513					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-4
611	Vol.	24-146	18	MR48	M26			18-267	1/15	FP339					6	[2]6SK7, 6SA7, 6SQ7, 6K6GT, 5W4GT	455	12-4
AUTOMATIC																		
A1	Vol.	AS508	17	MR48				AC511	4	2S567	B33	AV506	292	C3	5	6A7, 6D6, 75, 41, 84		
								.02		Buffer	B14							
A5	Vol.		17	UM154		See No	te A96	4-8	4	2S567	B33	AV506	292	C3	5	6A7, 6D6, 75, 41, 84	480	7-3
								.02		Buffer	B14							
B10, B10P, B10LW, B15	Vol.	RV14	88	UM160-SS1	M26	EX200		CE8	24/15	4S715/TC22	B256				4	6D6, 6C6, 43, 25Z5		7-2
B30 Series I	Vol.	RV18	18	MR44	M26			CE15	1/15	2N509/TN111					5	6A7, 6D6, 75, 43, 25Z5	456	8-2
B30 Series II	Vol.	RV18	18	MR44	M26			CE20	23	TCS45					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-3
B37, B38	Vol.	RV18	18	MR44	M26			CE20	23	TCS45					6	6A7, 6D6, 6Q7G, 25L6G, 6E5, 25Z5	456	
B40 Series II	Vol.	RV24	18	MR44	M26			CE16	1/15	4S715					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-4
B70, B80, B85, B85LW	Vol.	RV24	18	MR44	M26			CE11	1/13	TN129					7	6A7, 6D6, 37, 6E5, 6C6, 25B6, 25Z5	456	8-6
	Tone	RV17	21	MR48				5	15	TC32								
B100	Vol.	RV18	18	MR44	M26			CE21	23	TCS45					6	6A7, 6D6, 76, 75, 25L6G, 25Z5	456	
C4	Vol.		7	MR28	M26	EX300		5-20-8	24/15	3N527					3	6D6, 6C6, 25A8		7-1
D5	Vol.	RV14	88	UM160-SS1	M26	EX200		CE8	24/15	4S715/TC22	B256				4	6D6, 6C6, 43, 25Z5		7-2
D55	Vol.		88	MR48				16-16-8	24/13	2N509/TC42					4	6D6, 6C6, 43, 25Z5		9-1
								5	15	TC22								
J50	Vol.		17	UM154			A96	4-8	4	2S567	B33	AV506	292	C3	5	6A7, 78, 75, 41, 84	480	7-3
	Tone		21	MR48				.02		Buffer	B14							
J60	Vol.		17	UM154			A96	4-8	4	2S567	B33	AV506	292	C3	6	6A7, 78, 75, 41, 6E5, 84	480	7-3
	Tone		21	MR48				.02		Buffer	B14							
J80	Vol.	ARV16	17	UM161	M26		A96	1082010	1	2N518		108512	292	C3	8	[2]78, 6A7, 75, 76, [2]41, 84	456	7-4
	Tone	ARV15	22	MR44				.02		Buffer	B14							
M10	Vol.	RV19	18	MR48	M26			CE30	40	TCS74		V200	294	C3	5	6A7, 6D6, 75, 41, 84	456	8-1
								.007		Buffer	B14							
M20	Vol.	RV19	18	MR48	M26			CE30	40	TCS74		V200	294	C3	5	6A7, 6D6, 75, 41, 6X5	456	8-1
	Tone	RV30	21	MR48				.007		Buffer	B14							
M60	Vol.	RV19	17	MR48	M26			CE12	4	2S569	B33	V100	294	C3	6	[2]6D6, 6A7, 6Q7G, 41, 84	456	8-5
	Sen.	RV20	7	D				.007		Buffer	B14							
M66	Vol.		18			See No	te A5	12-12	40	2S569			859	C3	6	[2]6K7GT, 6A8GT, 6Q7GT, 41, 6X5GT	456	11-3,4
								.007		Buffer	B14							
M70	Vol.	RV15	18	UM154	M26		A96	CE12II	23	2S569	B33	V94	294	C3	6	[2]6D6, 6A7, 6Q7G, 41, 6X5	456	
	Tone	RV22	22	MR34				8	13	ST595								
								5	15	TC32								
								.007		Buffer	B14							
M80	Vol.	RV15	18	UM154	M26		A96	CE12II	23	2S569	B33	V94	294	C3	8	[2]6D6, 6A7, 6Q7G, 76, [2]6B5, 0Z4	456	8-7
	Tone	RV22	21	MR34				8	13	ST595								
	Sen.	RV21	48	C100P				.008		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AUTOMATIC—Continued																		
P25	Vol.		12	Y250MP	6			8-8	4	See Note	B3				4	35, 24, 47, 80		3-2
P35, 34	Vol.		12	MR33	M26			8, 8	4	ST595					5	‡24, 47, 80		2-2
P40	Vol.		18	MR51	M27			200-30-25	‡	See Note	B3				5	1A7GT, 1N5GT, 1I5GT, 1T5GT, 35Z5	456	12-4
P41	Vol.		18	MR51	M27			25-20-20-200	‡	See Note	B3				5	1A7GT, 1N5GT, 1I5GT, 1T5GT, 25Z6GT	456	12-4
P43	Vol.		18	UM158	M27		A96	20	12	TC47					4	1A7G, 1N5G, 1I5G, 1C5G	456	11-1,2
P45	Vol.		18	UM158	M27		A96	20	12	TC47					4	1A7G, 1N5G, 1I5G, 1C5G	‡	11-1,2
P50	Vol.		18	MR51	M27			30-25-200	‡	See Note	B3				5	1A7GT, 1N5GT, 1I5GT, 1T5GT, 35Z5	456	12-4
P51	Vol.		18	MR51	M27			25-20-10-200	‡	See Note	B3				5	1A7GT, 1N5GT, 1I5GT, 1T5GT, 25Z6GT	456	12-4
P57, P58	Vol.		18	UM158	M27		A96	10-10	24	2N509					5	1A7G, 1N5G, 1I5G, 1A5G, 25Z6	456	11-1,2
								20	24	TC47								
								100	24	TC2501								
P60	Vol.	RV44	149	MR48	M27			30-30	74	2S556					4	1R5, 1T4, 1D8, 35Z5	456	13-2
P61	Vol.		18	UM158	M27		A96	10-10	24	2N509					5	1A7G, 1N5G, 1I5G, 25Z6	456	11-1,2
								20	24	TC47								
								100	24	TC2501								
P72	Vol.		18	MR51	M27			25-20-10-200	24	See Note	B3				5	1A7GT, 1N5GT, 1I5GT, 1T5GT, 25Z6GT	456	11-5
P224 (Midget Tom Thumb)	Vol.		12	MR24				8, 8	4	ST595					6	‡24, 45, 80		3-1
R6, R61, R63	Vol.		17	MR48				20-16-5-5	1/15	4S715					5	6A7, 6D6, 75, 25B6, 25Z5	456	§10-1
S6	Vol.		7	F	6	2		20-8-5-5	6/15	4S715					5	6A7, 6D6, 75, 43, 25Z5	456	7-1
44, V45, V46, C45, P46	Vol.		7	A5MP				8, 8	4	ST595					6	‡24, 47, 80		2-1
100, 101	Vol.		88	MR39	M26			20-20	24	2N509					4	12K7, 12SQ7, 50L6, 35Z5		12-2
102	Vol.		18	MR44				20, 20	25	TC47					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	456	12-3
105, 106	Vol.		18	MR44				20, 20	25	TC47					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	456	12-3
110, 111	Vol.	RV-46	18	MR44				20, 20	25	TC47					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	456	12-5
115	Vol.		18	MR44				20, 20	25	TC47					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	456	12-6
116, 117	Vol.		18	MR44				20, 20	25	TC47					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	486	12-3
120	Vol.		18	MR44				20, 20	25	TC47					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	480	12-7
125	Vol.		18	MR44				20, 20	25	TC47					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	480	12-7
130	Vol.		18	MR44				20, 20	25	TC47					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	480	12-7
135	Vol.	RV-50	18	MR48	M26			20-20	10	FP227					7	6SD7, 6SA7, 6SK7, 6SQ7, 6J5, 25L6, 25Z6	456	12-8
								4	10	TC42								
140AC	Vol.		18	MR48				50-30	24	2N520					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	456	12-9
145AC	Vol.		18	MR48				50-30	24	2N520					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	456	12-10
148AC	Vol.		18	‡			A3	20-20-20	10	See Note	B3				5	12SA7,12SK7,12SQ7, 35L6, 50Y6	480	12-11
152AC	Vol.	RV-46	18	MR44				20-20	24	FP211					4	12K7, 12SQ7, 50L6, 35Z5		12-12
155	Vol.	RV-46	18	MR44				20-20	24	FP211					4	12K7, 12SQ7, 50L6, 35Z5		12-12
158	Vol.	RV-46	50	MR44				20-20	24	2N509					3	12SQ7, 50L6, 35Z5		12-13
160	Vol.	RV-46	50	MR44				20-20	9	2N509	B190				3	12SQ7, 50L6, 50Y6		12-13
	Tone	RV-52	22	MR44				20	9	TC55	B190							
170	Vol.	RV-46	50	MR44				20-20	9	2N509	B190				3	12SQ7, 50L6, 50Y6		12-13
	Tone	RV-52	22	MR44				20	9	TC55	B190							
175AC	Vol.	RV-46	18	MR44				30-20	10	2N513					6	7C6, 12SA7, 12SK7, 7B7, 35L6, 50Y6	456	12-14
								20	10	TC47								
								10	15	TC22								
202, 203, 204, 205, 206	Vol.		18	MR48	M26			20-20	25	‡TC45					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	13-5
210	Vol.		18	MR44	M26			20-20	25	‡TC45					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	480	13-6
215, 220	Vol.		18	MR44	M26			20-20	25	‡TC45					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	480	13-7

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AUTOMATIC—Continued																		
245	Vol.		‡	MR44	M26			50-30	24	2N520					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	456	14-1
250 AC	Vol.		18	MR44				50-30	24	2N520					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	13-8
265	Vol.		50	MR44	M26			20-20-20	9	TCS45/TC55					3	12SQ7, 50L6, 50Y6		14-2
	Tone		22	MR48														
347	Vol.		‡	MR44	M26			50-30	24	2N520					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	456	14-1
351	Vol.		‡	MR44	M26			50-30	24	2N520					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	456	14-1
362	Vol.		50	MR44	M26			20-20-20	9	TCS45/TC55					3	12SQ7, 50L6, 50Y6		14-2
	Tone		22	MR48														
400, 401	Vol.		88			See Note A3		10-20	24	2N509					4	6K7GT, 6J7GT, 25L6GT, 25Z6, BM55V		11-5
								20	‡	TC47								
402, 403, 404, 405, 406	Vol.		18	MR48				20, 20	25	TC47					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11-6
408	Vol.		18	MR48				20, 20	25	TC47					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11-6
420	Vol.		18	MR44	M26			20-20	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5	456	11-7
430	Vol.		18	MR44	M27			20, 20	25	TC47					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5, T51	456	11-7
432	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	456	11-6
434A	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5	456	11-7
436	Vol.		18	MR44	M26			20, 20	25	TC47					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	456	11-7
440, 441	Vol.		18	MR48				20, 20	25	TC47					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11-6
442, 443	Vol.		18	MR48				20, 20	25	TC47					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11-6
444	Vol.		18	MR48				20, 20	25	TC47					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11-6
446	Vol.		18	MR48				20, 20	25	TC47					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11-6
448	Vol.		18	MR44	M26			20, 20	25	TC47					5	6K8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, BM49B	456	11-5
450	Vol.		18	MR44	M26			20, 20	25	TC47					5	6K8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, BM49B	456	11-5
452	Vol.		18	MR44	M26			20, 20	25	TC47					5	6K8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, BM49B	456	11-5
454	Vol.		18	MR44	M26			20, 20	25	TC47					5	6K8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, BM49B	456	11-5
480	Vol.		18	MR48				20, 20	25	TC47					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT, BM49B	480	11-6
845	Vol.		18	MR39	M26			20, 20	25	TC47					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	9-2
850	Vol.	RV18	18	MR44	M26			CE20	23	TCS45					6	6A7, 6D6, 6Q7G, 6E5, 25L6G, 25Z5	456	8-8
855	Vol.	RV18	18	MR44	M26			40-20	4	2S556					6	6A7, 6D6, 76, 6Q7G, 25L6G, 25Z5	456	9-3
								5	19	TC22								
860	Vol.	RV18	18	MR44	M26			CE21	23	TCS45					6	6A7, 6D6, 76, 75, 25L6G, 25Z5	456	
878	Vol.	RV29	18	MR44	M26			CE22	4	2S556					8	6A7, 6D6, ²76, 6U5, 6C6, 25B6G, 25Z5	456	9-4
	Tone	RV31	22	MR48				5	20	TC22								
892	Vol.		18	MR44	M26			CE24	24	TN129					10	6A7, 6D6, ²76, 6G5, 75, ²25L6G, ²25Z5	456	9-5,6
	Tone		41	MR48				5	15	TC22								
	Sen.		7	F			A14											
911	Vol.		18	MR51	M26			20-20	40	See Note	B3		859	C3	5	6A8, 6K7GT, 6SQ7GT, 6W6GT, 6X5GT	456	11-8
								.02		Buffer	B14							
933, 935	Vol.		88	MR53	M26			16-16	24	2N509					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT		9-2
								8	13	TC42								
933 Series 2	Vol.	RV34	88	MR53	M26			CE36	6/13	FP354					4	6K7GT, 6J7GT, 25A6GT, 25Z6GT		9-1
								5	15	TC22								
939	Vol.		18	MR48				20, 20	25	TC47					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BM49B	480	11-3

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AUTOMATIC—Continued																		
949	Vol.		18	MR48				20, 20	25	TC47					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BM49B	480	11-3
950, 955	Vol.		18	MR53	M26			20, 20	25	TC47					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	9-2
960, 963	Vol.		18	MR39	M26			20, 20	25	TC47					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5G	456	9-2
975	Vol.		18	MR44	M26			20, 20	25	TC47					6	6K8GT, 6D6, 6Q7GT, 25L6G, 25Z6GT, 6G5, BM43B	456	11-3
979	Vol.		18	MR44	M26			20, 20	25	TC47					6	6K8GT, 6K7GT, 6Q7G, 25L6G, 25Z6GT, 6G5	456	11-3
988	Vol.		18	MR44	M26			20, 20	25	TC47					6	6K8GT, 6D6, 6Q7GT, 25L6G, 25Z6GT, 6G5	456	11-3
JR (AR224)	Vol.		15	UM154			A96	EI365GL	1	3S582/TN111	B29		292	C3	6	[2]6D6, 37, 6C6, 41, 84		§6-3
								.02		Buffer	B14							
Tom Thumb Personal 3 in 1	Vol.	RV44	18	MR48	M27			30, 30	25	TC92					4	1R5, 1T4, 1D8, 117Z6	456	13-1
Tom Thumb Portable	Vol.		18	MR44	M26										4	1R4, 1T4, 1S5, 1S4	456	12-1
SG4 (Tom Thumb)	Vol.		31	A400P											4	22,[3]99		1-1
Tom Thumb (Steering Post)	Vol.		7	G		See Note	A1								4	[2]78, 77, 41		4-1,2
AZTEC RADIO CO.																		
Aztec	Vol.		6	MR18			A14	8-8	1	2N518					5	[2]24, 47, 80		§3-2
BAIRD—See Gen. Electronics Corp.																		
BALDWIN																		
45	Vol.		6	MR21				2-4	4	See Note	B3				4	[2]24, 45, 80		4-1
47	Vol.		6	MR24				2-8	4	See Note	B3				4	35, 24, 47, 80		4-1
54	Vol.		18	UM154		See Note	A96	6-10	4	See Note	B3		294	C3	5	6A7, 6D6, 75, 42, 84	‡	
								.02		Buffer	B14							
64	Vol.		18	UM154		See Note	A96	6-10	4	See Note	B3		294	C3	6	[2]6D6, 6A7, 75, 42, 84	‡	
								.02		Buffer	B14							
80	Vol.		6	MR21				2-2	1	See Note	B1				8	[1]24, 27,[3]45, 80		§1-1
	Sen.		7	M1MP														
BALKEIT																		
A3, A5, A7	Vol.		11	MR33				‡	3	See Note	B1				8	[1]27,[2]12A, 80		1-2
B7, B9	Vol.		3	F12				2-3-4	3	See Note	B7				9	[1]01A, 50,[2]81, 10		1-1
C	Vol.		6	MR21				2-2-2	3	See Note	B1				9	[1]27,[3]45, 80		1-3
	Sen.		7	M2MP														
D5	Vol.		7	MR34	M26		A10	4-4	4	2S567	B33				5	[2]58, 56, 47, 80		4-3
E	Vol.		6	MR21				8-4	3	2N518					6	[2]24, 27, 45, 80		3-4
	Tone		22	MR18				4	3	ST595								
F	Vol.		6	MR21				8-8-8	3	3S584					8	[1]27, 24,[3]45, 80		1-4
G16A, G19B	Vol.		18	MR48				4	32	RS213					6	6A7, 6K7, 6H6, 6F5, 6F6, 80	456	6-2
	Tone		34	‡		See Note	A5	8-4	32	2N518								
G20	Vol.		18	MR48				4	32	RS213					7	6A8, 6K7, 6H6, 6A6, [2]6F6, 80	456	6-3
	Tone		44	‡		See Note	A3	8-4	32	2N518								
G200X	Vol.		18	MR48				4	32	RS213					7	6A8, 6K7, 6H6, 6A6, [2]6F6, 80	456	6-3
	Tone		44	‡		See Note	A3	8-4	32	2N518								
GT16A	Vol.		18	MR45		EX300		4-8-12	8	TN125					5	6C6, 6D6, 75, 43, 25Z5	456	6-1
								10-10	15	TN111								
GT33	Vol.		18	MR48				18-6	6	2N509					6	6A7, 6D6, 75, [1]43, 25Z5	456	6-4
								5-5	15	TN111								
GT156BA	Vol.		45	MR48	M27			8-8	1	2N518		P402	245C	C3	6	1C6, 34,[3]30, 32, 33	456	6-5,6
								.01-.01		Buffer	B14							
KP	Vol.		6	MR21				8, 8	4	ST595					5	[2]24, 47, 80		3-5
	Tone		22	MR53														
L5	Vol.	P660	18	MR48	M26			P474	32	RS213					7	5Z4, 6F5, 6F6, 6H6, 6K7, 6L7, 6C5	456	
	Tone	P661	34	MR39				P160	32	2S567	B81							
								P304	15	TC22								
L6	Vol.	P660	18	MR48	M26			P474	32	RS213					8	5Z4, 6C5,[2]6F6, 6K7, 6L7,[2]6Q7	456	
	Tone	P661	44	MR39				P160	32	2S567	B81							
								P304	15	TC22								
L7 ('36)	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, 19,[3]30,[3]34	456	
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
L7 ('31)	Vol.		6	MR21				8, 8	4	RS213					7	27,[3]51,[3]24, 47, 80	175	3-6
	Tone		21	MR53														
L8	Vol.		7	H	6			4-4-4	3	3S584					8	[3]51,[3]27,[3]47, 80	175	4-9
	Tone		41	MR53														
M	Vol.		6	MR21		EX300		8-8	4	RS213					4	[2]24, 47, 80		4-2
	Tone		22	MR53														
ML1, ML2	Vol.		18	Order from	Mfr.			4	7	RS213					6	6A7, 6K7, 6H6, 6F5, 6F6, 80	456	
								8-4	7	2N518								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BALKEIT—Continued																		
SG6	Vol.		6	MR21				8-4	3	2N518					6	[3]24, 27, 45, 80		4-1
	Tone		22	MR18				4	3	ST595								
Z4	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 19,[3]30, 32, 34	456	
	Tone	P682	44	MR39				.01-.01		Buffer	B14							
Z5	Vol.	P691	45	Order from	Mfr.			P958	1	2N516		P402	245C	C3	6	1C6, 19,[3]30, 32, 34	456	
	Tone	P962	44	MR39				.01-.01		Buffer	B14							
38	Vol.		6	MR48	M26	EX250		8-8	24	2N516					4	6D6, 6C6, 38, 12Z3		5-1
								10	15	TC22								
41A	Vol.		45	MR48				8-4	1	2N518					6	6A7, 6D6, 6I16, 6F5, 6F6, 80	456	6-1
42E, 42G	Vol.		6	MR18		EX200		4-4	25	2S567	B33				4	58, 57, 47, 80		4-5
45	Vol.		6	MR45		EX250		12-8	6	2N509					4	6D6, 6C6, 43, 25Z5		5-2
								10	15	TC22								
48	Vol.		6	MR45		EX250		16-12	1	2N509					4	6D6, 6C6, 38, 25Z5		5-2
								10-10	15	TN111	B6							
52-1	Vol.		6	MR21				4-4	4	2S567	B33				5	[3]58, 57, 47, 80		4-6
	Tone		22	MR53														
54	Vol.		18	UM154		See Note A96		6-10	4	See Note	B3		294	C3	5	6A7, 6D6, 75, 42, 84	‡	
								.02		Buffer	B14							
55	Vol.		6	MR21				4-4	4	2S567	B33				5	[3]57, 58, 47, 80		4-7
59	Vol.		6	MR18	M26	EX200		20-20	6	2N509					5	6A7, 6D6, 75, 43, 25Z5	456	5-3
								10-10	15	TN111								
60	Vol.	718	18	MR48	M26			701	23	2S567	B33				5	6A7, 6D6, 75, 42, 80	456	5-4
64	Vol.		18	UM154		See Note A96		6-10	4	See Note	B3		294	C3	6	6A7,[3]6D6, 75, 42, 84	‡	
								.02		Buffer	B14							
69	Vol.		6	G7	6	2		20-20	6	2N509					6	6A7, 6D6, 85, [3]43, 25Z5	456	5-3
								3	13	TC42								
								10	15	TC22								
70	Vol.	718	18	MR48	M26			701	23	2S567	B33				5	6A7, 6D6, 75, 42, 80	456	5-4
100	Vol.		17	MR53				4-4-4	3	See Note	B3				10	[3]58, 55,[3]56,[3]45, 82	175	4-8
	Tone		41	MR53				20	20	TC26								
BARKER BROS.																		
L	Vol.		15	MR48	M26			4	3	TC92					10	[3]58, 57, 55,[3]56,[3]46, 82	262	6-1
								8-4	3	See Note	B3							
M	Vol.		15	MR48	M26			8-8	1	See Note	B3				10	[3]57,[3]58,[3]56, 55,[3]59, 82	262	6-1
	Tone		22	MR42				4	15	See Note	B3							
	Sil.		‡			See Note A5												
P(2 Types)	Vol.		15	MR48	M26			4	1	ST595					7	57,[3]58, 56, 55, 59, 82	262	6-2
	Tone		22	MR42				8	1	ST595								
								10	15	TC22								
Tempo Tone	Vol.		15	MR48				37-266	1	FP389					12	[3]6SK7, 6K8G, 6SJ7, 6I16, [3]6J5, 6U5, [3]6L6, [3]80	456	11-1
	Treble		‡	MR53				33-266	1/13	FP389								
	Bass		103	MR48														
BEL CANTO—See Amrad.																		
BELL TONE—See Airking																		
BELMONT RADIO CORP.																		
4BA1	Vol.	101250	149	MK402	M27			119117B	12	TC42					4	1A7GT, 1N5GT, 1I15GT, 3Q5GT	455	13-1,2
4BA2	Vol.	101-250	18	MK402	M27			119117B	12	TC42					4	1A7GT, 1N5GT, 1I15GT, 3Q5GT	455	
	Tone	101-231	22	MK402														
4B16	Vol.	101250	149	MK402	M27			119117B	12	TC42					4	1A7GT, 1N5GT, 1I15GT, 3Q5GT	455	14-1,2
5D16	Vol.	101266	18	MK401	M26			119-94	1	FP357					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-6,18
								119-95	1	Order from	Mfr. B12							
5DA1	Vol.	101-251	18	MK402	M26			119-92	24	FP354	B69				5	12SA7,12SK7,12SQ7, 35L6GT, 35Z5GT	455	
5DA1 Series A	Vol.	101251	18	MK402	M26			11992	24	FP354	B69				5	12SA7, 12SK7, 1SQ7, 35L6GT, 35Z5GT	455	13-5
6A27	Vol.	101232	18	MK402	M26			119115	1	2S569					6	6SA7, [3]6SK7, 6SQ7, 6V6GT, 5Y3G	455	14-2,3
	Tone	101231	22	MK402														
6D14	Vol.	101218	18	MK402	M26			11994	46	FP357					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	
6D15	Vol.	101211	18	MK402	M26			11994	46	FP357					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	
6D18	Vol.	101211	18	MK402	M26			11994	46	FP357					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	14-4,5
6D19	Vol.	101211	18	MK402	M27			11994	46	FP357					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	14-4,5
6P11	Vol.	101258		MK402	M27			119126	76/78	Order from	Mfr.				6	1A7GT, [2]1N5GT, 1I15GT, 3Q5GT, 35Z5GT	455	13-7
7D22	Vol.	101262	18	MK402	M26			119128	46	TN129					7	12SJ7, 12SK7, 12SQ7, 6T7G, 12J5GT, 35L6GT, 35Z5GT	455	13-9,10
	Tone	101263	57	MK401				119129	46	2N514	B12							
7D22, Series B	Vol.	101262	18	MK402	M26			119128	46	TN129					7	12SJ7, 12SK7, 12SQ7, 6S7G, 35L6GT, 12J5GT, 35Z5GT	455	14-6,7
	Tone	101263	57	MK401				119129	46	2N514	B12							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BELMONT—Continued																		
7H31	Vol.	101259	18	MK402				119127	46/15	Order from Mfr.		126-6	859	C3	7	‡6S7G, 6SA7, 6T7G, 6L5G, 6SC7, 0Z4	455	13-8,10
	Tone	101260	57	MK402	M26			.008		Buffer	B14							
8AE1	Vol.	101-253	20			See Note A19		119-109	1/13	FTP390					8	‡6SK7, 6SA7, 6SQ7, 6J5GT, ‡6F6G, 5Y3G	455	
	Tone	101-254	22	MK402														
11A24	Vol.	101270	18	MK401	M26			119-124	1/13	FP444	B69				11	‡6SK7, 6SA7, ‡6SQ7, 6U5, 6J5GT, ‡6F6GT, 5Y3G	455	13-17,18
	Tone	101271	22	MK402														
11A25 (Series B & C)	Vol.	101278	18	MK401	M26			119121	1/13	FP444	B69				11	‡6SK7, 6SA7, ‡6SQ7, 6J5GT, 6U5, ‡6F6G, 5Y3G	455	14-8,9
	Tone	101279	22	MK402														
11A55 (Series A)	Vol.	101275	17	UM165-SS25				119112	46	FP444	B69				11	‡6SK7, 6SA7, ‡6SQ7, 6U5, 6J5GT, ‡6V6GT, 5Y3G	455	14-10, 11,12
	Tone	125180	22	Order from	Mfr.			119112B	46	FP444	B69							
								11969	14	TC75								
11AE2	Vol.	101-229	127	MK401				119-112	46	FP444	B69				11	‡6SK7, 6SA7, ‡6SQ7, 6J5GT, ‡6V6GT, 6U5, 5Y3G	455	
								119-69	13	TC74								
12A51	Vol.	101229	15	MK401				119-112	46	FP444	B69				12	‡6SK7, 6SA7, ‡6SQ7, 6J5GT, ‡6V6GT, 6U5, 5Y3G	455	13-19,20
								119-69	13	TC75								
12A52	Vol.	101229	15	MK401				119112B	46	FP444	B69				12	‡6SK7, 6SA7, ‡6SQ7, 6J5GT, ‡6V6GT, 6U5, 5Y3G	455	13-21,22
								11969	13	TC75								
40AC	Vol.		7	G		2		4-4	4	See Note	B3				4	35, 24, 47, 80		3-7
40A, 41A, 42A	Vol.		7	G				8	4	ST595					4	58, 57, 47, 80		3-7
								4	4	ST595								
40DC, 45, 46	Vol.		6	MR18		See Note A14		1		See Note	B7				4	‡36, 37, 38		3-1
50	Vol.		7	G		See Note A14		6, 6	4	ST593					5	‡51, 24, 47, 80		3-2
	Tone		22	MR18														
50A, 51A, 52A, 53A, 54A	Vol.		7	G			A14	4-4	4	See Note	B3				5	‡35, 24, 47, 80		3-3
50B, 51B, 52B, 53B, 54B	Vol.		6	MR18			A14	6	4	ST595					5	‡24, 35, 47, 80	175	3-4
								4	4	ST595								
50C, 51C, 52C, 53C, 54C	Vol.		6	MR18		See Note A14		8	4	ST595					5	‡57, 58, 47, 80	175	3-8
	Tone		22	MR33				4	4	ST595								
								25	17	TC26								
50F, 55F	Vol.		7	MR37			A14	4-8	1	2N516					5	‡39, 36, 38, 12Z3		5-1
								5-5	15	TN111								
53	Vol.	V601	17	MR48	M26			C525	11	UR182	B31				5	6A7, 6D6, 75, 43, 25Z5	456	
60, 61, 62, 63, 64	Vol.		6	MR18				6	4	ST595					6	‡24, 27, 35, 47, 80	175	3-5
	Tone		22	MR33														
65, 66	Vol.		6	MR18			A14	4	1	See Note	B11				6	‡36, 37, ‡38		
	Tone		41	MR48														
70	Vol.		7	G			A14	6	4	ST595					7	‡51, ‡27, 47, 80	175	3-6
	Tone		22	MR33														
70A, 71A, 72A, 73A, 74A	Vol.		56	MR53				8	4	ST595					7	‡58, 57, 56, 55, 47, 80	175	5-1
	Tone		22	MR33				4	4	ST595								
	Supp.		7	MR34			A14	10	17	TC22								
71C	Vol.		56	MR53				P1047	1/15	2N518					7	‡58, 57, 56, 55, 2A5, 80	175	5-2
	Supp.		7	MR34			A14	P1048	1	RS213								
	Tone		22	MR33	M26													
100, 101, 102, 103, 104	Vol.		45	MR53				8-4-8	5	See Note	B3				10	‡58, 57, ‡56, ‡59, 83	175	5-1
	Tone		22	MR33	M26													
	Supp.		7	MR34			A14											
110	Vol.		62	MR53				4-4-4	26	See Note	B3				11	‡35, ‡27, ‡47, 80	175	3-9
	Tone		22	MR39	M26													
151	Vol.	101-238	18	MK401	M26			119-92	24	FP354	B69				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	12-1,2
401	Vol.	P101-17	8	MR19		EX100		P119-10	1/15	3S579					4	58, 57, 2A5, 80		6-1
401 Series B	Vol.	P101-17	8	MR19		EX100		P119-10	1/15	3S579					4	6K7, 6J7, 6F6, 5Z4 or 5Y3		7-1
403A	Vol.	101-163	18	MK402	M27			119-35	19	TC26					4	1A7G, 1N5G, 1H5G, 1C5G	465	10-1
404	Vol.	101-26	6	Order from	Mfr.										4	1A6, ‡32, 33	465	6-3
	Fil.	101-25	29	M4R														
407	Vol.	101-173	18	MK402	M27			119-75	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	465	11-1
408 Series A	Vol.	101-107	18	UM154-SS18	M26			119-58	24	TC47		126-8	246	C3	4	6D8, 6S7, 6T7, 6K6	465	9-1
								119-57	24/15	2N509								
								.003		Buffer	B14							
411 Ser. A	Vol.	101-173	18	MK402	M27			119-75	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	465	11-3
415 Series A	Vol.	101-56	56	MR53	M27			119-28	1	2N516		126-4	246	C3	4	1A6, 1A4, 1F6, 1F4	465	8-1
	Tone	101-59	21	MR53				.005		Buffer	B14							
	Fil.	101-44	29	C6R														
415 Series B	Vol.	101-56	18	MR53	M27			119-28	1	2N516		126-4	246	C3	4	6D8G, 6S7G, 6T7G, 1F5G	465	8-2
	Tone	101-72	22	MR44				.005		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BELMONT—Continued																		
418 Ser. A	Vol.	101-155	18	MK402	M27			119-52	19	TC26					4	1A7G, 1N5G, 1H5G, 1A5G	456	10-3
420	Vol.	P101-7	7	MR37	M26	EX100	A10	119-1	1/15	2N516/TN111					4	6D6, 76, 38, 12Z3		5-3,4
425	Vol.	V600	7	MR37	M26	EX100		C538	11	UR182					4	6E7, 6D7, 43, 25Z5	456	4-1
430	Vol.	P101-7	7	MR37	M26	EX100		119-3	6/15	4S715					4	6D6, 76, 12A5, 12Z3		5-3,4
440	Vol.	P101-3	7	MR37	M26	EX100	A10	P103-1	11	2N509/TC42					4	6D6, 6C6, 43, 25Z5	456	5-5
444EX	Vol.	P101-29	8	MR19	M26	EX100		P119-18	1	3S579					4	6D6, 6C6, 43, 12Z3		6-5
460 Ser. A	Vol.	101-175	18	MK402	M27			119-75	19	TC22					4	1A7G, 1P5G, 1H5G, 1C5G	465	11-2
460	Vol.	101-175	18	MK402	M27			119-75	19	TC22					4	1A7G, 1P5G, 1H5G, 1C5G	465	
	Tone	101-119	22	MK402														
489 Series A	Vol.	101-91	18	MR53	M27			119-28B	1	2N516		126-4	246	C3	4	6D8G. 6S7G, 6T7G, 6K6G	465	9-3
								119-22	15	TC22								
								.005		Buffer	B14							
501 Series A	Vol.	101-116	64	MK402	M27			119-52	20	TC26					5	1D7,‡1D5. 1H4, 1G5.	465	9-2
	Fil.	101-117	29	M6R														
504 Series A	Vol.	101-56	18	MR53	M27			119-28	1	2N516		126-4	246	C3	5	6D8G, 6S7G, 6T7G, 1F5G, 6N5	465	9-5
	Tone	101-72	22	MR44				.005		Buffer	B14							
505 Series A	Vol.	101-91	18	MR53	M27			119-24B	4	2S567		126-6	294	C3	5	6D8G, 6S7G, 6T7G, 6K6G, 6ZY5G	465	9-6
								119-22	15	TC22								
								.008		Buffer	B14							
507A	Vol.	101-210	18	UM161-SS22	M27			119-104	76	FP304					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT, 5459	465	11-5
507 (Series B)	Vol.	101210	149	UM161-SS22	M27			119104	76	FP304					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	465	14-7,24
509	Vol.		18			See Note A3		119-116	19	TC47					5	1A7GT, ‡1N5GT, 1H5GT, 3Q5GT	455	12-41,42
510, Ser. A	Vol.	101-196	18	UM154-SS22	M26T			119-92	24	FP211					5	12SA7,12SK7,12SQ7, 35L6GT, 35Z5GT	465	11-6
511A	Vol.	101-160	18	MK400	M27			119-52	19	TC26					5	1A7G, ‡1N5G, 1H5G, 1C5G	465	11-7
513A	Vol.	101-210	18	UM161-SS22	M27			119-104	76	FP304					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT, 5459	465	11-5
517 Series A	Vol.	101-94	18	MR53	M26			119-38	4	2S567					5	6A7, 6K7, 75, 41, 80.	465	9-7
	Tone	101-59	21	MR53														
518	Vol.	101-196	18	UM154-SS22	M26T			119-92	24	FP354	B69				5	12SA7,12SK7,12SQ7, 35L6GT, 35Z5GT	465	12-3,4
519A	Vol.	101-164	18	MK402	M26			11982	24	2N514	B112				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	465	10-4
520 Ser. A	Vol.	101-138	8	UM129-SS25	M26			119-70	1/15	3N533					4	6A8, 6J7, 25L6G, 25Z6G, 62A	465	10-6
521 Ser. A	Vol.	101-138	8	UM129-SS25	M26			119-71	15	TC22								
								119-70	1/15	3N533					4	6A8, 6J7, 25L6G, 25Z6G, 62A	465	10-7,8
								119-72	1/15	See Note	B12							
								119-71	15	TC22								
522	Vol.	101-43	62	MR53	M26			119-22	19	TC22					5	1A6, 34, 30, 32, 950	465	7-2
	Batt.	101-44	29	C6R														
523	Vol.	101-69	62	MR53	M26			119-22	20	TC22					5	1A6,‡1A4, 30, 950	465	9-8
523B	Vol.	101-69	62	MR53	M26			119-22	20	TC22					5	1A6,‡1A4, 30, 1G5G	465	9-9
524 Series A	Vol.	101-111	18	MK400	M27			119-52	19	TC26					5	1C7G, ‡1D5G, 1F7G, 1G5G	465	9-10
	Fil.	101-112	29	M4R														
525	Vol.	V601	17	MR48	M26			C525	11	UR182	B31				5	‡6D6, 75, 43, 25Z5	456	3-8
526	Vol.	101-107	18	UM154-SS18	M26			119-47D	42	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	9-11
527 Ser. A	Vol.	101-141	18	MK401	M26T			119-47E	23	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-9
529	Vol.	101-107	18	UM154-SS18	M26			119-47D	42	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-11,12
530	Vol.	V601	17	MR48	M26			C525/C538	11	UR182	B31				5	6A7, 6D6, 75, 43, 25Z5	456	4-2
531 Series B	Vol.	101-113	18	MK402	M26			11953B	1/19	2N511/TC29					5	6A8, 6K7, 6Q7, 26L6, 25Z6	470	9-12
533 A and B	Vol.	101-217	18	MK401	M26			119-94	46	FP357					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	465	12-5,6
533 (Series C)	Vol.	101217	18	MK401	M26			119-94	46	FP357					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465	14-13,14
534	Vol.	101-198	18	UM161-SS22	M26			119-92	24	FP354	B69				5	12SA7,12SK7,12SQ7, 35Z6GT, 35Z5GT	455	12-7,8
536	Vol.	101-238	18	MK401	M26			119-92	24	FP354	B69				5	12SA7,12SK7,12SQ7, 35L6GT, 35Z5GT	455	12-1
539 (Export Chassis)	Vol.	101-208	18	MK402	M26			10-40-20	1/15	See Note	B3				5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	465	11-9,10
540	Vol.	101-1	17	MR48	M26			C525C/C525D	11	UR182	B31				5	‡6D6, 75, 43, 25Z5	456	5-7
541	Vol.	P101-13	82	MRT460	M26			P119-7	11	UR143	B31				5	‡6D6, 75, 43, 25Z5	456	6-7
542	Vol.	101-208	18	MK402	M26			10-40-20	1/15	See Note	B3				5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	455	12-9,10
	Tone	101-237	22			See Note A3												
544, 545	Vol.	P101-32	82	MRT460				P103-9	1/15	3S579					5	6A7, 6D6, 6B7, 43, 12Z3	465	6-9,10
	Tone	P101-31	22	MR33	M26													

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BELMONT—Continued																		
546	Vol.	101-210	18	UM161-SS22	M27			119-104	76	FP304					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT, 5459	465	
550	Vol.	P1008	17	MR48	M26			P1003	4	2S567	B33				5	2A7, 58, 2A6, 2A5, 80	456	4-3,4
551 Ser. A	Vol.	101-140	18	MK402	M27			119-35	19	TC22					5	1A7G, 1N5G, 1H5G, ‡1A5G	465	10-13,14
551B	Vol.	101-140	18	MK402	M27			119-35	19	TC22					5	1A7G, 1N5G, 1H5G, ‡1A5G	465	11-8
553 Ser. A	Vol.	101-150	18	MK402	M26			119-79	1/15	TCD55/TC26		126-6	294	C3	5	6D8G, 6K7, 6T7G, 6B6G, 6ZY5G	465	10-15,16
								.008		Buffer	B14							
555	Vol.	P101-30	82	Order from	Mfr.			P103-6	4	RS213					5	6A7, 6D6, 6B7, 42, 80	456	6-11,12
								P103-7	4	RS213								
556 (Export)	Vol.	P101-30	62	Order from	Mfr.			P103-6	4	RS213					5	6A7, 6D6, 6B7, 42, 80	465	7-3,4
								P103-7	4	RS213								
566	Vol.	101-40	18	UM154-SS17	M26			119-20	4	2S567			294	C3	5	6A8, 6K7, 75, 84, 41	465	7-5,6
								.01		Buffer	B14		854	C14				
567A	Vol.	101-41	17	UM154-SS17	M26			119-33	4	2S567		126-1	294	C3	5	6A8, 6K7, 6Q7, 6F6, 6X5	465	
								.005		Buffer	B14							
571A	Vol.	101-209	18	MK401	M26			119-92	24	FP354	B69				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z4GT	465	11-11,12
575	Vol.	P101-10	6	MR36	M26	EX100		P119-6	4	2S567					5	58, ‡57, 2A5, 80	175	5-8
577A	Vol.	101-110	18	MK402	M26			119-50	40	2S567		126-7	294	C24	5	6A8, 6K7, 6Q7, 6K6, 6X5	465	9-13
								.005		Buffer	B14							
577C	Vol.	101-110	18	MK402	M26			119-50	40	2S567		126-7	294	C24	5	6SA7, 6SK7, 6Q7, 6K6, 6X5	465	10-17,18
								.005		Buffer	B14							
577D	Vol.	101-110	18	MK402	M26			119-105	24/15	FP339		126-7	294	C24	5	6SA7, 6SK7, 6SQ7, 6K6G, 6X5G	465	11-10,13
								.005		Buffer	B14							
578	Vol.	P101-35	56	MR53				P103-6	4	RS213					5	6A7, 6D6, 6B7, 42, 80	456	6-13,14
								P103-7	4	RS213								
579	Vol.	101-110	18	MK402	M26			119-105	24/15	FP339		126-7	294	C24	5	6SA7, 6SK7, 6SQ7, 6K6G, 6X5G	465	
579 (Series A)	Vol.	101110	18	MK402	M26			119105	24/15	FP339			859	C3	5	6SA7, 6SK7, 6SQ7, 6K6G, 6X5G	465	14-16
								.005		Buffer	B14							
580	Vol.	P101-9	17	MR48	M26			P119-15	4	2S567		142-4	299	C3	5	6D6, 6A7, 75, 42, 84	175	6-15,16
								.01		Buffer	B14							
580 (Revised)	Vol.	P101-9	17	MR48	M26			P119-15	4	2S567		142-4	299	C3	5	6A7, 6D6, 75, 42, 84	175	6-16,18
								.01		Buffer	B14							
582	Vol.	101-100	18	MR53	M26			119-47	23	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	9-15,16
583 Export Series A	Vol.	101-100	18	MR53	M26			119-48	4	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	9-14
585 Series A	Vol.	P101-18	18	MR48	M26			P119-11	1/15	3S579					5	6F7, 6D6, 75, 42, 80	370	6-19
585 Series B and C	Vol.	P101-18	18	MR48	M26			P103-6	4	RS213					5	6F7, 6D6, 75, 42, 80	370	6-19
								P103-7	4	RS213							465	
585 Series D	Vol.	P101-18	18	MR48	M26			103-6	4	RS213					5	6F7, 6K7, 75, 6F6, 80	465	7-7,8
								103-7	4	RS213								
586 Series A	Vol.	P101-49	18	MR53	M26			103-6	42	RS213					5	6A7, 78, 75, 41, 80	465	7-9
								103-7	42	RS213								
587 Series A	Vol.	P101-49	18	MR53	M26			103-6	23	RS213					5	6A8, 6K7, 6Q7, 6F6, 5Y3	465	7-11,12
								103-7	23	RS213								
588 Series A	Vol.	101-71	18	MR53	M26			119-38	23	2S567					5	6A8, 6K7, 6Q7, 6F6, 5Y3	465	8-3,4
589	Vol.	101-71	18	MR53	M26			119-38	4	2S567					5	6A8, 6K7, 6Q7, 6K6, 5Y3	465	8-5 & 9-1
590	Vol.	101-252	18	MK402	M27			119-123	24	Order from	Mfr.				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	455	
600	Vol.	V601	17	MR48	M26			16-16-8-14-2	9/15	Order from	Mfr.				6	‡78, 6A7, 6B7, 43, 25Z5	175	
601 Series A & B	Vol.	P101-54	18	MR53	M26			119-25	11	2S567/TC44					5	6A7, 78, 75, 43, 25Z5	465	7-10
	Tone	P101-55	22	MR53				119-29	4	TCS47	B10							
601 Series C	Vol.	101-63	18	MR48	M26			119-29	4	TCS47					5	6A7, 78, 75, 43, 25Z5, L49B	465	
	Tone	101-55	22	MR53														
602	Vol.	101-77	18	MR53	M26			119-39	1	2N509					5	6A8, 6K7, 6R7, 25L6, 25Z6	465	8-6
602B	Vol.	101-77	18	MR53	M26			119-42	4	TCS44					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B	470	9-29
602C	Vol.	101-77	18	MR53	M26			119-42	4	TCS44					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B	470	9-29
611 Series A	Vol.	101-121	18	MK402				11959	24	2N513		126-8	246	C3	6	6K8, 6S7, 6T7, ‡1H4, 1J6	465	9-17,18
	Tone	101-120	22	MK400	M26			.003		Buffer	B14							
612	Vol.	101-211	18	MK402	M26			119-94	46	FP357					6	‡12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	465	12-11,12
616	Vol.	101-142	56	MK402	M26			119-114	1/15/13	FP424					6	6SA7, 6SK7, 6SJ7, 6SQ7, 6V6GT, 5Y3G	455	12-13,14
	Tone	101-143	22	MK400				119-67	13	TC71								
625	Vol.	V601	17	MR48	M26			C525	11	UR182	B31				6	‡78, 6A7, 75, 43, 25Z5	175	4-5
								C525B	11	UR182	B31							
								C525C	11	See Note	B38							
								C525D	11	See Note	B38							
629A	Vol.	101-208	18	MK402	M26			119-102	1	FP342	B192				6	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 5Y3G	465	11-14

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BELMONT—Continued																		
632 Series A	Vol.	101-113	18	MK402	M26			119-62B	1/19	Order from	Mfr.				5	6A8G, 6K7G, 6Q7G, 25Z6, 25L6G, L49B	470	9-19,20
633 Ser. A	Vol.	101-127	18	UM161-SS18	M26			119-53C	1/19	3N533					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6, L49B	470	10-19,20
634 Ser. A	Vol.	101-139	18	MK402	M26			119-53C	1/19	3N533					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6, L49B	470	10-21,22
635	Vol.	101-127	45	UM161-SS18	M26			119-53E	1/15	3N533					6	12SA7, 12SK7, 12J5GT, 12SQ7, 35L6GT, 35Z5GT	465	11-15
								60-60-40	1/15	See Note	B12							
636	Vol.	101-127	18	UM161-SS18	M26			119-94	46	FP357					6	‡12SK7,12SQ7,12SA7, 35L6GT, 35Z5GT	465	11-16,20
637 Ser. A	Vol.	101-195	18	MK402	M26			119-94	46	FP357					6	‡12SK7,12SA7,12SQ7, 35L6GT, 35Z5GT	465	11-21,22
	Tone	101-194	22	MK400														
638	Vol.	101218	18	MK402	M26			11994	46	FP357					6	‡12SK7,12SA7,12SQ7, 35L6GT, 35Z5GT	455	12-16
640EX	Vol.	P101-16	82	MRT460	M26			P103-3	4	RS216					6	57, 27, 58, 2A6, 2A5, 80	370	5-9,10
								P103-4	4	RS216								
642	Vol.	101-193	18	UM161-SS22	M26			119-94	46	FP357					6	‡12SK7,12SA7,12SQ7, 35L6GT, 35Z5GT	455	12-17
650	Vol.	P101-4	17	MR48	M26			C525C	11	See Note	B38				6	‡6D6, 6A7, 75, 43, 25Z5	175	5-11,12
								C525D	11	UR182	B31							
660	Vol.	V603	17	MR48	M26			C550	4	TCS71		V660	Order from Mfr.		6	‡6D6, 6A7, 75, 89, 6Z4	175	4-6
661	Vol.	101-41	18	UM154-SS17	M26			119-37	4	2S567	B33	126-1	294	C3	6	‡6K7, 6A8, 6Q7, 41, 6X5	465	8-7,8
								.005		Buffer	B14							
665 Series A	Vol.	101-126	18	MK402	M26			119-63B	4	3S584	B8				6	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 5Y3G	465	9-21,22
666 "A"-"B"	Vol.	101-42	18	UM133-SS17	M26			119-21	1	2N518		126-1	294	C3	6	‡6K7, 6A8, 6Q7, 6N6, 84-6X5	465	7-13,14
	Vol.	101-41	18	UM154-SS17	M26		A4	.01		Buffer	B14							
667	Vol.	101-73	17	UM147-SS17	M26			119-34	4	RM262		126-1	294	C3	6	‡6K7, 6A8, 6Q7, 6F6, 6X5	262.5	9-23,24
	Tone	101-45	22	Order from	Mfr.			.01		Buffer	B14							
670	Vol.	P101-9	17	MR48	M26			P103-2	4	RM262		142-1	299	C3	6	6D6, 6C6, 78, 75, 42, 84	175	5-13,14
								20	15	TC26								
								.02		Buffer	B14							
670A	Vol.	P101-9	17	MR48	M26			P119-4	4	TCS71		142-1	299	C3	6	‡6D6, 6C6, 75, 42, 84	175	6-22-24
								.015		Buffer	B14							
671	Vol.	101-232	18	MK402	M26			119-115	1	2S569					6	6SA7, ‡6SK7, 6SQ7, 6V6GT, 5Y3G	455	12-18
	Tone	101-231	22	MK402				119-88	24	FP426	B168							
671B	Vol.	101232	18	MK402	M26			119115	1	2S569					6	6SA7, ‡6SK7, 6SQ7, 6V6GT, 5Y3G	455	13-25,26
	Tone	101231	22	MK402														
671C	Vol.	101232	18	MK402	M26			119115	1	2S569					6	6SA7, 6SQ7, ‡6SK7, 6V6GT, 5Y3G	455	14-3
	Tone	101231	22	MK402														
675	Vol.	101-11	18	MR48	M26			P103-4	4	RS216					6	57, 27, 58, 2A6, 2A5, 80	370	5-15
								P103-3	4	RS216								
676 (Issue A) (5,001 up)	Vol.	101-161	18	Order from	Mfr.			119-81	74	TC65		12610	294	C3	6	‡6K7, 6A8, 6Q7, 6K6, 6X5	465	
								.008		Buffer	B14							
677	Vol.	101-109	18	TM238-SS18	M26			119-51	4	2S569		126-1	294	C3	6	‡6K7, 6A8, 6Q7, 6V6, 0Z4-6X5	465	9-25,26 & 10-23
								.01		Buffer	B14							
678	Vol.	101-161	18	Order from	Mfr.			119-78	24	FP426		126-9	248	C3	6	6K7, 6A8, 6SK7, 6Q7, 6J5, 6N7	465	10-25,26
	Tone	101-162	‡	UM161-SS18				119-88	24	FP426	B168							
								.0055		Buffer	B14							12-19,20
679, 679 Series A	Vol.	101-246	18	UM154-SS17	M26			119-120	46	FP390		126-7	294	C24	6	‡6SK7, 6SA7, 6SQ7, 6K6GT, 6X5GT	455	13-27
								119-75	15	TC22								
								.008		Buffer	B14							
680	Vol.	101-21	56	MR48	M26	EC256		P119-17	4	TCS52		142-4	299	C3	6	‡6D6, 6A7, 6B7, 42, 84	175	6-25
								.01		Buffer	B14							
681	Vol.	101-240	18	MK402	M26			119-115	1	2S569					6	6SA7, ‡6SK7, 6SQ7, 6K6GT, 5Y3G	455	12-21
	Tone	101-241	22	MK402														
685A	Vol.	101-46	18	MR53	M26			103-6	42	RS213					6	6L7, 6C5, 6K7G, 6Q7G, 6F6G, 5Y3	465	7-15,16
								103-7	42	RS213								
686 "A," "B"	Vol.	101-46	18	MR53	M26			103-6	42	RS213					6	6L7, 6K7, 6Q7, 6F6, 6C5, 5Y3	465	7-15,16
	Tone	101-48	22	MR33				103-7	42	RS213								
690	Vol.	101-21	18	MR48	M26	EC256		119-17	4	TCS71		142-4	299	C3	6	‡6D6, 6A7, 6B7, 42, 84	175	
								.01		Buffer	B14							
691	Vol.	101-93	18	MR53	M26			119-45	42	2S567	B33				6	6L7, 6K7, 6Q7, 6C5, 6F6, 5Y3	465	9-27,28
	Tone	101-92	22	MR33														
695	Vol.	101-215	18	MK402	M26			119-94	46	FP357					6	12SA7, ‡12SK7, 12SQ7, 35L6GT, 35Z5GT	455	12-22
	Tone	101-216	22	MK402														
705	Vol.	101-239	15	MK401	M26			119-97	1/15	FP339					7	‡6J5GT, ‡6SK7, 6SQ7, 6K6GT, 5Y3G	455	12-23,24
	Tone	125-140	21	Order from	Mfr.													
706 (Export Chassis)	Vol.	101-205	18	MK402	M26			119-98	1/15	Order from	Mfr.	126-16	246	C3	7	‡6S7G, 6K8, 6T7G, 6SC7, 6L5G, 6AB5	465	11-17,18
	Tone	101-207	21	MK402				.006		Buffer	B14							
707 (Export Chassis)	Vol.	101-205	18	MK402	M26			119-46	13	3S584	B8				7	6SK7, 6K8, 6K7, 6SQ7, 25N6G, 6U5, 25Z6G	465	11-32
	Tone	101-207	21	MK402				119-98	1/19	Order from	Mfr.							
708 (Export Chassis)	Vol.	101-205	18	MK402	M26			119-160	1/15	FP429	B69				7	6SK7, 6K8, 6K7, 6SQ7, 6V6G, 6U5, 5Y3G	465	11-23
	Tone	101-206	21	UM144-SS25				119-81	13	TC74								
								119-91	19	TC29								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BELMONT—Continued																		
708 (Series C)	Vol.	101205	18	MK402	M26			119100	1/19	FP346					7	6SK7, 6K8, 6K7, 6SQ7, 6V6G, 6U5, 5Y3G	465	14-17,18
	Tone	101206	57	UM144-SS25				11991	15	TC29								
								11981	13	TC74								
708-378	Vol.	101205	18	MK402	M26			119100	1/19	FP346					6	6SK7, 6K8, 6K7, 6SQ7, 6V6G, 5Y3G	465	14-17,18
	Tone	101206	57	UM144-SS25				11991	15	TC29								
								11981	13	TC74								
708-391, 708-398	Vol.	101205	18	MK402	M26			119100	1/19	FP346					7	6SK7, 6K8, 6K7, 6SQ7, 6V6G, 6U5, 5Y3G	465	14-17,18
	Tone	101206	57	UM144-SS25				11991	15	TC29								
								11981	13	TC74								
716 (Series A)	Vol.	101247	‡	UM135-SS25	M26			119121	24	FP214					7	6SA7, [2]6SK7, 6B8, [2]25L6GT, 25Z6GT	4.3 Mc.	14-18,19
								119122	13	TC42								
729	Vol.	101-224	18	Order from	Mfr.			119-108	1	2S569					7	6SA7, 6SK7, 6SQ7, 6J5GT, [2]6K6GT, 5Y3G	455	12-25,26
	Tone	101-223	22	MK402														
740	Vol.	101-74	18	MR53	M26			103-6	4	RS213					7	6A8, 6K7, 6Q7, 6C5, [2]6F6, 5Y3	465	8-9,10
	Tone	101-75	22	MR44				103-14	4	RS216								
746 Series A (Ex)	Vol.	101-46	18	MR53	M26			103-6	23	RS213					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5Y3	465	7-17,18
	Tone	101-53	22	MR33				103-7	23	RS213								
750	Vol.	P1025	18	MR48				8, 8	4	RS213					7	[2]58, 2A7, 55, [2]45, 80	175	4-7 & 5-19
	Tone	P1025	21	MR48				5	14	TC42								
751 Ser. A	Vol.	101-153	18	UM161-SS25	M27			119-79B	1/15	TCS64/TC26		1266	294	C3	7	6K8G, 6K7, 6T7G, 6AE6G, 6AF6G, 6G6G, 6ZY5G	465	10-29
	Tone	101-154	22	Order from	Mfr.			.008		Buffer	B14							
755EX	Vol.	P101-33	82	Order from	Mfr.			P103-8	4	RS216					7	[2]6D6, 6C6, 76, 6B7, 42, 80	465	6-27,28
	Tone	P101-34	21	MR44	M26			P103-4	4	RS216								
761 Series A	Vol.	101-104	18	MR53				103-6	4	RS213					7	6A8, 6K7, 6Q7, 6J5, [2]6F6, 5Y3	465	9-30
	Tone	101-105	22	MR44	M26			103-14	4	RS216								
767 Ser. A	Vol.	101-144	18	UM161-SS25	M26			119-73	1	TC74					7	6K8G, 6K7, 6Q7G, [2]6K6G, 6J5G, 5Y3G	465	10-31,32
	Tone	101-145	22	UM161-SS25				119-74	1	TC72								
770 "A"	Vol.	P101-37	56	MRT436	M26			103-8	43	RS216					7	[2]6K7, 6C6, 6C5, 6B7, 42, 80	465	7-20
	Tone	P101-38	21	Order from	Mfr.			103-4	43	RS216								
775	Vol.	P101-6	18	MR48	M26			P103-4	4	RS216					7	[2]58, 2A7, 55, 2A5, 80	370	5-17,18
	Tone	P101-5	21	MR48				P103-5	4	RS213								
777 Series A	Vol.	101-23	18	MR53	M26			P103-4	4	RS216					7	[2]6D6, 6C6, 76, 75, 42, 80	465	6-29,30
	Tone	101-24	21	MR44				P103-3	4	RS216								
777 Series B	Vol.	101-23	56	MR53	M26			P103-8	4	RS216					7	[2]6D6, 6C6, 76, 6B7, 42, 80	465	6-29,30
	Tone	101-24	62	MR44				P103-4	4	RS216								
777 Series C	Vol.	101-23	56	MR53	M26			103-8	4	RS216					7	[2]6K7, 6C6, 6C5, 6B7, 42, 80	465	7-19,20
	Tone	101-24	57	MR44				103-4	4	RS216								
778 "A"	Vol.	101-47	124	MRT436	M26			103-8	25	RS216					7	[2]6K7, 6J7, 6C5, 6Q7, 6F6, 5Y3-5W4	465	7-21,22
	Tone	101-38	21	Order from	Mfr.			103-6	25	RS213								
778 Series B	Vol.	101-47	18	MRT436	M26			103-8	25	RS216					7	[2]6K7, 6J7, 6Q7, 6C5, 6F6, 5Y3	465	
	Tone	101-38	21	Order from	Mfr.			103-6	25	RS213								
786 "A"	Vol.	101-46	18	MR53	M26			103-6	42	RS213					7	6L7, 6K7, 6Q7, 6C5, 6F6, 5Y3, 6G5	465	7-15,16
	Tone	101-53	22	MR33				103-7	42	RS213								
787 Series A	Vol.	101-46	18	MR53	M26			103-6	23	RS213					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5W4	465	8-11,12
	Tone	101-53	22	MR33				103-7	23	RS213								
791 Ser. A	Vol.	101-195	18	MK402	M26			119-101	46	FP357					7	12A8GT, 12SK7, [2]12Q7GT, [2]35L6GT, 35Z4GT	465	11-24
792	Vol.	101-159	18	MK402				119-101	46	FP357					7	12A8GT, 12SK7, [2]12Q7GT, [2]35L6GT, 35Z4GT	465	11-25,28
793	Vol.	101-202	18	MK402	M26			119-101	46	FP357					7	12A8GT, 12SK7, [2]12Q7GT, [2]35L6GT, 35Z4GT	465	11-29,31
794	Vol.	101-195	18	MK402	M26			119-101	46	FP357					7	12A8GT, 12SK7, [2]12Q7GT, [2]35L6GT, 35Z4GT	465	12-33
796	Vol.	101-215	18	MK402	M26			119-108	1	FP231					7	6SA7, 6SK7, 6SQ7, 6J5GT, [2]6K6G, 5Y3G	465	12-27,28
	Tone	101-216	22	MK402														
797	Vol.	101-215	18	MK402	M26			119-110	1/15	FP339					7	6SA7, 6SK7, [2]6SQ7, 6V6GT, 5Y3G	455	12-29,30
	Tone	101-216	22	MK402				119-67	13	TC71								
	Mike	101-219	127	MK403														
800	Vol.	101-233	45	‡		See Note A19		119-109	1/13	FP390					8	[2]6SK7, 6SA7, 6SQ7, 6J5GT, [2]6F6G, 5Y3G	455	12-31,32
801	Vol.	101-233	56	‡		See Note A19		119-109	1/13	FP390					8	[2]6SK7, 6SA7, 6SQ7, 6F5GT, [2]6F6G, 5Y3G	455	12-34-37
804	Vol.	101-66	18	MR48	M27			119-32	1	2N516		126-4	246	C3	8	[2]6S7G, 6D8G, [2]6L5G, 6T7G, 6N5, 19	465	8-13,14
	Tone	101-67	22	MR39				.005		Buffer	B14							
822	Vol.	101-50	62	MR44	M27			103-11	12	ST595					8	1A6, 1A4, [2]30, [2]34, 19	465	8-15,16
	Tone	101-51	21	MR44														
	Fil.	101-52	29	M2R														
823 Series A (Ex)	Vol.	101-50	62	MR44	M27			103-11	24	ST595		126-4	246	C3	8	1A6, 1A4, [2]30, [2]34, 19	465	9-31,32
	Tone	101-51	21	MR44				119-26	24	ST595								
								.01		Buffer	B14							
840	Vol.	101-74	18	MR53	M26			103-6	4	RS213					8	6A8, 6K7, 6Q7, 6G5, 6C5, [2]6F6, 5Y3	465	8-17,18
	Tone	101-75	22	MR44				103-14	4	RS216								
842 (Ex)	Vol.	101-74	18	MR53	M26			103-6	4	RS213					8	6A8G, 6K7, 6Q7G, 6G5, 6C5, [2]6F6G, 5Y3	465	9-33,34
	Tone	101-75	22	MR44				103-14	4	RS216								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
845 Series A (Ex)	Vol.	101-46	18	MR53	M26			119-30	23	TCS47					8	6L7, 6C5, 6K7, 6Q7, 6G5, ²25A6, 25Z6	465	7-23,24
	Tone	101-51	44	MR44														
848, 849 (Ex)	Vol.	101-46	18	MR53	M26			119-30	4	TCS47					8	6L7, 6C5, 6K7, 6Q7, 6G5, ²25L6, 25Z6	465	8-19,20
	Tone	101-51	22	MR44														
856 Series A (Ex)	Vol.	101-47	17	MRT436	M26			103-8	25	RS216					8	²6K7, 6J7, 6C5, 6Q7, 6G5, 6F6, 5Y3	465	8-21,22
	Tone	101-38	21	Order from	Mfr.			103-6	25	RS213								
860 Series A	Vol.	101-97	18	MR53				103-6	4	RS213					8	6A8, 6K7, 6Q7, 6C5, ²6F6, 6U5, 5Y3	465	9-35,36
	Tone	101-98	22	MR44	M26			103-14	4	RS216								
867 Ser. A	Vol.	101-144	18	UM161-SS25	M26			119-73	1	TC74					8	6K8G, 6K7, 6Q7G, 6J5G, ²6K6G, 5Y3G, 6U5	465	10-33
	Tone	101-145	22	UM161-SS25				119-74	1	TC72								
878 Series A & B	Vol.	101-47	124	MRT436	M26			103-8	25	RS216					8	²6K7, 6J7, 6C5, 6Q7, 6G5, 6F6, 5Y3	465	8-23-25
	Tone	101-38	21	Order from	Mfr.			103-6	25	RS213								
879 Series A	Vol.	101-60	124	MRT436	M26			103-8	25	RS216					8	²6K7, 6J7, 6C5, 6Q7, 6G5, 6F6, 5Y3	465	8-26
	Tone	101-61	21	UM180-SS1	M28			103-6	25	RS213								
880 (A and B)	Vol.	P101-21	56	MR48	M26	EC256		P119-16	1	2S569		142-4	299	C3	8	²6D6, 6A7, 85, ²76, 6A6, 84	175	6-32
								.01		Buffer	B14							
880 Series C	Vol.	P101-21	15	MR48	M26	EC256		P119-16	1	2S569		142-4	299	C3	8	²6D6, 6A7, 85, ²76, 6A6, 84	465	6-33
	Tone	P101-39	22	MR39				.01		Buffer	B14							
880D	Vol.	101-21	15	MR48	M26	EC256		119-16	1	2S569		142-4	299	C3	8	²6D6, 6A7, 85, ²76, 6A6, 84	465	
	Tone	101-39	22	MR39				.015		Buffer	B14							
881	Vol.	101-86	18	UM150-SS17				119-43	4	3S584	B8	126-1	294	C3	8	²6K7, 6A8, 6R7, 6C5, ²6V6, 0Z4	262.5	9-39
	Tone	101-90	22	Order from	Mfr.			.003		Buffer	B14							
888, 889	Vol.	101-65	18	MR48	M26			103-12	25	RS213					8	²6K7, 6J7, 6C5, 6Q7, 6F6, 6G5, 5Y3	465	9-37,38
	Tone	101-53	22	MR33				103-13	25	RS213								
890 Series A (Ex)	Vol.	101-65	18	MR48	M26			103-12	25	RS213					8	²6K7, 6J7, 6C5, 6Q7, 6G5, 6F6, 5Y3	465	8-27,28
	Tone	101-53	22	MR33				103-13	25	RS213								
902	Vol.	101-233	20	‡		See Note A19		119-109	1/13	FP390					9	²6SK7, 6SA7, 6SQ7, 6J5GT, ²6F6G, 6U5, 5Y3G	455	12-38
910 Export	Vol.	101-114	‡	MK402				11955	1	2S569					9	²6K7, 6A8, 6Q7, 6J5, ²6F6, 6U5, 5Y3	465	9-40-42
	Tone	101-115	22	MK400	M26			11956	13	2S569								
1050	Vol.	P1025	15	MR48				P1048	26	RS213					10	²58, 2A7, ²56, ²45, 80	175	4-8
	Tone		‡	MR39	M26			P1038	26	ST595/2N509								
	Supp.		12	F7														
1070 "A"	Vol.	101-36	20	DTM287-SS1	M26			103-10	1	RS223					10	²6K7, 6L7, ²6C5, ²6F6, 5Z4, 6H6	465	7-25
	Tone	101-40	22	Order from	Mfr.			103-8	1	RS216								
								119-19	15	²TC26								
1070 Series B	Vol.	101-36	20	DTM287-SS1	M26			103-10	1	RS223					11	²6K7, 6L7, ²6C5, 6H6, ²6F6, 5Z4, 6G5	465	7-25
	Tone	101-40	22	Order from	Mfr.			103-8	1	RS216								
								119-23	15	TC26								
								119-19	15	²TC26								
1075A, B	Vol.	101-128	20	TM236-SS25				119-64	1	3S584	B8				10	²6K7, 6K8, 6Q7G, ²6J5G, ²6K6G, 6U5, 5Y3G	465	10-35-38
	Tone	101-129	22	MK400														
1100	Vol.	101-234	17	MK401	M26			119-112	46	FP444	B69				11	²6SK7, 6SA7, ²6SQ7, 6J5GT, ²6V6GT, 5Y3G, 6U5	455	12-39,40
								119-69	13	TC74								
1131, 1131 Series A	Vol.	101-214	45	MK401	M26			119-124	1/13	FP444	B69				11	²6SK7, 6SA7, ²6SQ7, 6J5GT, ²6F6G, 5Y3G, 6U5	455	13-28,29
	Tone	101-213	22	MK402														
1170	Vol.	101-47	20	MRT436	M26			103-10	25	RS223					11	²6K7, 6J7, 6C5, 6H6, 6G5, 6F5, ²6F6, 5Z4	465	8-29
	Tone	101-40	22	Order from	Mfr.			103-8	25	RS216								
1170B, 1170C	Vol.	101-36	20	DTM287-SS1	M26			103-10	25	RS223					11	²6K7, 6J7, 6C5, 6H6, 6G5, 6F5, ²6F6, 5Z3	465	8-31, 9-43
	Tone	101-40	22	Order from	Mfr.			103-8	25	RS216								
1171	Vol.	101-60	20	MRT436	M26			103-10	25	RS223					11	²6K7, 6J7, 6C5, 6H6, 6G5, 6F5, ²6F6, 5Z4	465	9-45
	Tone	101-62	22	Order from	Mfr.			103-8	25	RS216								
1172	Vol.	101-47	20	MRT436	M26			103-10	25	RS223					11	²6K7, 6J7, 6C5, 6H6, 6G5, 6F5, ²6F6, 5Z4	465	8-29
	Tone	101-40	22	Order from	Mfr.			103-8	25	RS216								
1174	Vol.	101-36	20	DTM287-SS1	M26			103-5	30	RS213					11	²6K7, 6J7, 6C5, 6F5, 6H6, 6G5, ²6F6, 5Z3	465	8-33
	Tone	101-40	22	Order from	Mfr.			103-10	30	RS223								
								103-8	30	RS216								
1175 Series A	Vol.	101-102	124	DTM287-SS1	M26			103-10	25	RS223					11	²6K7, 6J7, 6H6, 6F5, 6J5, ²6F6, 6C5, 6U5, 5U4	465	9-47
	Tone	101-103	22	Order from	Mfr.													
1401 A, B	Vol.	101249	127	MK402				119112	1/13	FP444	B69				14	6AB7, 6SA7, ²6SK7, 6SJ7, 6H6, 6U5, ²6SQ7, 6J5GT, ²6V6GT, 5U4	AM 455 Kc FM 4.3 Mc	14-20-23
	Tung. Lt.	101248	‡	MR29				119-73B	1	TC72								
								11969	13	TC72								
BLACKHAWK 6U	Vol.		18	UC511	6			81028	1	2S569		2080	253	C3	6	²78, 77, 75, 41, 84	262.5	§5-3
	Tone		22	MR42				81021C	15	TN111								
								.01		Buffer	B14							
BOND RADIO CO. 34-33, 6TA	Vol.		18	MR48				8-4	1	See Note	B3				6	2A7, 58, 2A6, ²2A5, 80	456	
B. O. P.—See United	Motors	Service.																
BOSCH—See United	American Bosch.																	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BRANDES																		
A1	Vol.		40	MR24				2-2	1	See Note	B1				8	[3]24, [3]27, [3]45, 80		3-2
B10	Vol.		40	MR24				1-.5-.5-.5	1	See Note	B1				7	[3]27, 71A, 80		1-1
B11, B12	Vol.		40	MR24				2-1-1-.5	59	See Note	B1				7	[3]27, 71A, 80		3-1
B15, B16	Vol.		40	MR24				2-1-.5	59	See Note	B1				8	[3]27, [3]71A-45, 80		1-3
K48	Vol.	4466	40	MR24				2-4	1	See Note	B1				7	[3]24, [3]27, 45, 80		
	Sen.		58	UC500				2	13	TC71								
K60, K62	Vol.		8	E				8, 8	4	RS213					7	[3]35, [3]24, 47, 27, 80	175	
K70, K72	Vol.		59	MR21				8, 8, 8	4	RS213					8	[3]35, [3]24, 27, 47, 80	175	
K80, K82	Vol.		59	MR21				8, 8, 8	4	RS213					9	[3]35, [3]27, [3]24, [3]47, 80	175	
K90, K92	Vol.		59	MR21				8, 8, 8	4	RS213					10	[3]35, [3]27, [3]24, [3]47, 80	175	
K110, K112, K120	Vol.		15	MR48				7337	26	3S584					8	[3]58, [3]56, 47, 80	175	
K114	Vol.		15	MR48				8	12	TC52					9	[3]34, [3]30	175	
K130, K132	Vol.		15	MR48				7240		3S584	B39				9	[3]58, [3]56, [3]47, 80	175	
K133, K143	Vol.		15	MR48				4	4	See Note	B11				10	[3]39, [3]37, [3]38	175	
								4	15	TC22								
BRETING																		
12	Vol.		18	MR48				16	25	RS216					12	[3]6B7, [3]6D6, 6C6, [3]42, 5Z3	432	§6-5
	M. Vol.		7	MR28	M26			8	25	RS213								
	Tone		22	MR42	M26			25	19	TC36								
	Meter			CIMP														
14	Vol.		83	MR48				16	25	RS216					14	[3]6K7, [3]6J7, 6L7, 6H6, 6B8, [3]6F6, 5Z3	432	8-1,2
	Tone		22	MR42	M26			18	25	RS219								
	Sil.		7	MR28				25	44	TC36								
BRONSWICK RADIO																		
Bronswick	Vol.		6	D12				8-4	4	See Note	B3				6	[3]58, 57, 47, 80		§4-2
BROWNING DRAKE																		
JR	Vol.		8	G	6	See Note	A14	8-8	4	See Note	B3				4	35, 24, 47, 80		3-4
20	Vol.		7	H	6	1		8, 8	4	RS213					6	[3]24, 47, 80		3-1
	Tone		22	MR33		RS244	A24											
MB30	Vol.		12	MR33				8-8-8	3	See Note	B3				9	[3]24, [3]27, [3]45, 80		
34, 36, 38	Vol.		60	B				8-8-8	3	3S584					8	[3]26, 27, 71A, 80		1-1
40	Vol.		7	H	6	2		8, 8	4	RS213					7	[3]35, [3]24, 47, 80	175	3-2
	Tone		22	MR18														
54	Vol.		12	MR20				8	1	RS213					9	[3]24, [3]27, [3]45, 80		3-4
								8-8-8	14	3S584								
69	Vol.		12	MR18	M26			8, 8	4	RS213					9	[3]24, [3]27, [3]45, 80		1-2
70, 71	Vol.		61	MR44	M26			‡	4	See Note	B3				9	[3]24, [3]27, [3]45, 80		1-3
80	Vol.		7	H	6	2		8, 8	4	RS213					7	[3]35, [3]24, 47, 80	175	3-3
	Tone		22	MR33														
100	Vol.		43	MR35											5	[3]32, 33		3-4
	Tone		22	MR33														
BRUNSWICK-MERSMAN																		
275, 276, 277	Vol.	36447	20	DTM291-SS1				36599	1/19	FP426	B69				11	[3]6SK7, 6SA7, 6H6, 6J5, [3]6F6G, 5U4G, 6U5	455	13-1,2,3
	Treble	36449	121	Order from	Mfr.			86031-4	13/15	FP332								
280, 282	Vol.		20	DTM291-SS1	M26			10-15-40	1/19	FP339					7	[3]6SK7, 6SA7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	13-5,6
284	Vol.		124	MRT449	M26			10-10-20	1/15	FP332					6	[3]6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G	455	13-7,8
285, 285-1	Vol.		20	DTM291-SS1	M26			10-15-40	1/19	FP339					7	[3]6SK7, 6SA7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	13-5,6
286	Vol.		124	MRT449	M26			10-10-20	1/15	FP332					6	[3]6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G	455	13-7,8
288, 288½	Vol.	50.70	140	MRT450	M26			20.131	46	TC74					9	[3]6SK7GT, 6SA7GT, [3]6SQ7GT, 6U5, [3]6K6GT, 80	456	13-4
	Tone	55.35	140	UC506				20.143	46	2S569								
289	Vol.		18	MR53	M26			20-20	1	FP234					9	[3]6SK7, 6SA7, [3]6SQ7, [3]6K6, 5Y3	455	13-9,10
	Tone		22	MR53														
291	Vol.		18	MR53	M26			20-20	1	FP234					9	[3]6SK7, 6SA7, [3]6SQ7, [3]6K6, 5Y3G	455	13-9,10
	Tone		22	MR53														
294	Vol.		18	MR53	M26			20-20	1	FP234					9	[3]6SK7, 6SA7, [3]6SQ7, [3]6K6, 5Y3	455	13-9,10
	Tone		22	MR53														
300	Vol.	50.70	124	MRT450	M26			20.145	1	TC74	B3				5	[3]6SQ7, [3]6K6, 80		14-1
	Tone	55.35	124	UC506														
400	Vol.		18	MR53	M26			16, 16	46	TC74					12	[3]6SK7, 6SA7, 6J5, [3]6SQ7, [3]6V6, 5U4	455	14-4
								12	46	TC72								
								25	46	TC77								
400½	Vol.		18	MR53	M26			16, 16	46	TC74					12	[3]6SK7, 6SA7, 6J5, [3]6SQ7, [3]6V6, 5U4	455	14-4
								12	46	TC72								
								25	46	TC77								
500	Vol.		18	MR53	M26			16, 16	46	TC74					12	[3]6SK7, 6SA7, 6J5, [3]6SQ7, [3]6V6, 5U4	455	14-4
								12	46	TC72								
								25	46	TC77								
600	Vol.		18	MR53	M26			16, 16	46	TC74					12	[3]6SK7, 6SA7, 6J5, [3]6SQ7, [3]6V6, 5U4	455	14-4
								12	46	TC72								
								25	46	TC77								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BRUNSWICK - MERSMAN—Continued																		
A1020	Vol.		124	‡		See Note A19		20-15-40	1/19	FP339					10	[2]6SK7, 6SA7, 6H6, [2]6SF5, [2]6F6G, 6U5, 5U4G	455	11-1,2,4
T1580 (Ch. RC-482)	Vol.		18	MR44	M26			30-30	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-3
1669, 1689	Vol.	17-16008	18	MR48				17-14249	1/19	TCD72/TC26					6	6A8, 6U5, 6K7, 6Q7G,		
	Tone	17-16009	21	MR39	M26											6V6G, 5Y3G	455	9-1,3
1680	Vol.		18	‡		See Note A19		50-50	24	FP214					6	12SA7, 12SK7, 12SQ7, 12SJ7, 35L6GT, 35Z5GT	455	11-5
1700	Vol.		124	‡		See Note A19		10-10-10-20	1/13/15	FP424					7	6SA7, 6SK7, 6SQ7, 6SF5, [2]6F6G, 5Y4G	455	11-7,8
A2020	Vol.		124	‡		See Note A19		20-15-40	1/19	FP339					10	[2]6SK7, 6SA7, 6H6, [2]6SF5, [2]6F6G, 6U5, 5U4G	455	11-.,2
T2580 (Ch. RC-482)	Vol.		18	MR44	M26			30-30	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-3
A2600	Vol.		18	‡		See Note A19		50-50	24	FP214					6	12SA7, 12SK7, 12SQ7, 12SJ7, 35L6GT, 35Z5GT	455	11-5
2660	Vol.		18	‡		See Note A19		50-50	24	FP214					6	12SA7, 12SK7, 12SQ7, 12SJ7, 35L6GT, 35Z5GT	455	11-5
2669, 2689 (Ch. M27)	Vol.	17-16008	18	MR48				17-14249	1/19	TCD72/TC26					6	6A8, 6U5, 6K7, 6Q7G,		
	Tone	17-16009	21	MR39	M26											6V6G, 5Y3G	455	9-1,3
2689	Vol.		18	‡		See Note A19		50-50	24	FP214					6	12SA7, 12SK7, 12SQ7, 12SJ7, 35L6GT, 35Z5GT	455	11-5
A2700	Vol.		124	‡		See Note A19		10-10-20	1/15	FP332					7	6SA7, 6SK7, 6SQ7, 6SF5, [2]6F6G, 5Y4G	455	11-7,8
3580 (Ch. RC-482)	Vol.		18	MR44	M26			30-30	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-3
3689	Vol.		18	‡		See Note A19		50-50	24	FP214					6	12SA7, 12SK7, 12SQ7, 12SJ7, 35L6GT, 35Z5GT	455	11-5
3689 (M27)	Vol.	17-16008	18	MR48				17-14249	1/19	TCD72/TC26					6	6A8, 6U5, 6K7, 6Q7G,		
	Tone	17-16009	21	MR39	M26											6V6G, 5Y3G	455	9-1,3
A3720	Vol.		124	‡		See Note A19		10-10-10-20	1/13/15	FP424					7	6SA7, 6SK7, 6SQ7, 6SF5, [2]6F6G, 5Y4G	455	11-7,8
4580 (Ch. RC-482)	Vol.		18	MR44	M26			30-30	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-3
4689	Vol.	17-16008	18	MR48				17-14249	1/19	TCD72/TC26					6	6A8, 6U5, 6K7, 6Q7G,		
	Tone	17-16009	21	MR39	M26											6V6G, 5Y3G	455	9-1,3
P5580 (Ch. RC-482A)	Vol.		18	MR44	M26			30-30	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-3
5689	Vol.	17-6008	18	MR48				17-14249	1/19	TCD72/TC26					6	6A8, 6U5, 6K7, 6Q7G,		
	Tone	17-6009	21	MR39	M26											6V6G, 5Y3G	455	9-1
8109	Vol.	17-13795B	18	MRT427				17-14001	1	ST595					8	6K8, [2]6K7, 6Q7G,		
	Tone	17-13796B	44	MR39				17-14124	14	ST595						[2]6V6G, 6U5, 5Y3G	455	9-2
								17-14126	13	ST599								
BRUNSWICK RADIO CORP.																		
B17 (For PR17-8 2nd Type)	Vol.		1	C12				4-4	4	See Note	B1				7	[4]26, 27, 71, 80		1-22
R1	Vol.		1	C12				1-1	2	See Note	B1				7	[4]26, 27, 71A, 80		1-27
3KR0, 3KR6	Vol.		1	C12				1-1	2	See Note	B1				7	[4]26, 27, 71, 80		1-14
	Phono.			V														
3KR8	Vol.		1	C12				1-1	2	See Note	B1				4	[3]26, 27		1-10
	Phono.			V														
3NW8	Vol.		59	A1MP				4-4	4	See Note	B7				11	[4]27, 50, [3]81	180	3-4,6
	Sen.		1	D12														
5KR, 5KR0, 5KR6, 2KR0	Vol.		1	C12				1-1	2	See Note	B1				7	[4]26, 27, 71, 80		1-12
	Phono.		63	V														
5NC8	Vol.			A400P				2-2	2	See Note	B1				9	[3]27, 71A, 80	180	1-17
5N0	Vol.			A400P				2-2	2	See Note	B1				9	[3]27, 71A, 80	180	1-15
10	Vol.		8	A5MP	6	1		1-4	25	See Note	B1				5	[3]51, 24, 47, 80		2-1
								.055		See Note	B9							
								2		See Note	B9							
11, 12, 16, 33, "D" Chassis Below No. 25000	Vol.	6647	7	Order from	Mfr.			7	1	ST595					7	[3]51, [3]24, 47, 80		2-3
								6	1	ST595								
11A, 12A, 16A, 18, 33A, "D" Chassis, Above No. 25000	Vol.	6653	15	Order from	Mfr.			7	1	ST595					7	[3]51, [3]24, 27, 47, 80	175	2-5
								6	1	ST595								
14, 21, 31 DC	Vol.		11	A5MP	6				‡	See Note	B7				9	[3]01A, [4]71A		2-7

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BRUNSWICK RADIO CORP.—Continued																		
S14, S21, S31, S81, S82C	Vol.		12	A3MP	6			1-1-1	3	See Note	B1				8	[2]4, 27, [3]45, 80		1-29
								.275		See Note	B9							
S14, S21, S81, S82 (25 Cycle)	Vol.		12	A3MP				2-1-2	3	See Note	B1				8	[2]4, 27, [3]45, 80		1-32
15B	Tone		22	MR33											7	[2]32, 30, [3]31		2-9
15, 22, 32, 42 (AC)	Tone		22	E12				2-2	1	See Note	B1				7	[2]24, [3]45, 80		1-34
	Phono.		63	See Note			A5	4		See Note	B12							
								.14		See Note	B9							
								.25		See Note	B12							
BUCKINGHAM																		
80	Vol.		3	C12				2-1-3	3	See Note	B1				8	[2]6, 27, [3]71A, 80		§1-2
BUICK																		
4036 (B. O. P.)	Vol.	1207607	17	UC512	7			1207830	1	TC71		1207758	292	C3	7	[3]36, 39, 85, [3]89, 84	262	4-1,4
	Tone	1207798	44	MR48				.015		Buffer	B14							
544245 (Buick-Pontiac)	Vol.	1209078	15	UM154-SS3		EB247		1209047	1/15	3S579		5037400	273C		4	6F7, 6A7, 6B7, 42	262	6-23,26
544246	Vol.	1209078	127	UM154-SS3		EB247		1209144	1/15	4S718		5037400	273C		6	78, 6A7, 6F7, 85, [3]41	262	8-16
	Tone	1207798	44	MR48														
980455 (B. O. P.)	Vol.	1208157	17	UM154-SS3	M26			1207995	1/15	TCD52/TN111		5035120	222		5	[2]78, 6F7, 75, 41	262	6-37,38
980459 (B. O. P.)	Vol.	1208157	18	UM154-SS3	M26			1208241	1	TCD71		5035120	222		6	[2]78, 6F7, 85, [3]41	262	6-39,40
	Tone	1207798	44	MR48														
980507-8	Vol.	1210846	17	TM241-SS12				1210537	1/15	4S718		5041376	273D		6	[2]6D6, 6A7, 85, 76, 6A6	252	9-67
	Tone		22	MR53														
980509	Vol.	1210846	17	TM241-SS12				1210885	1/15	TCD71/2N509		5041376	273D		5	[2]6D6, 6A7, 75, 42	262	9-67,68
	Tone	1562122	22	MR48														
980525	Vol.	1211175	20	TM239-SS12				1211167	1	TCD71		5041376	273D		6	[2]6D6, 6A7, 85, 76, 6A6	260	9-69,70
								1211166	15	TN111								
980526	Vol.	1211218	20	TM241-SS12				1211167	1	TCD71		5041376	273D		5	[2]6D6, 6A7, 75, 42	262	9-70,72
								1211215	15	TC22								
980529	Vol.	1211218	20	TM241-SS12				1211167	1	TCD71		5041376	273D		5	[2]6D6, 6A7, 85, 76, 6A6	260	9-69
								1211215	15	TC22								
980534-5	Vol.	1211774	20	SM301				1211570	1	2N518		5050498	514	C3	6	6K7, 6A7, 6D6, 85, 76, 6A6	262	9-72,75
	Tone	1211773	22	Order from	Mfr.			1211572	15	TN111								
								.01-.01		Buffer	B14							
980620	Vol. & Tone	7238538	20/22	Order from	Mfr.			7238552	1	FP231		7235951	716	C3	6	[2]6SK7, 6A8, 6R7G, [3]6V6G	260	12-3,4
								7238553	15	WP520		7238525	716	C3				
								.015-.015		Buffer	B14							
980650	Vol. & Tone	7240366	‡/39	Order from	Mfr.			7240612	24	FP234		7235951	716	C3	6	6K7, 6SA7, 6SK7, 6SR7, [3]6V6GT	260	
								7238553	15	WP520		7238525	716	C3				
								.015-.015		Buffer	B14							
980660	Vol. & Tone	7239816	17/21	Order from	Mfr.			20-20-20	24/15	FP339			716		8	6K7, 6SA7, [3]6SK7, 6SR7, 6H6, [3]6V6GT	455	13-5-9
								20	15	TC22								
980690, 980691	Vol.	7241967	17	Order from	Mfr.			7240612	24	FP234		8630	716	C3	6	6K7, 6SA7, 6SK7, 6SR7, [3]6V6GT	262	13-9-11
	Tone	7241928	21	Order from	Mfr.			7238553	15	FP306								
								.015-.015		Buffer	B14							
1291344	Vol.	1209078	127	UM154-SS3		EB247		1209144	1/15	4S718		5037400	273C		6	78, 6A7, 6F7, 85, [3]41	262	8-15,16
	Tone	1207798	44	MR48														
1291345	Vol.	1209078	15	UM154-SS3				1209047	1/15	3S579		5037400	273C		4	6F7, 6A7, 6B7, 42	262	6-23,26
1304873	Vol. & Tone	7233109	22/17	SMD502				8-8	1	2N518		7232741	514	C3	6	[2]6K7G, 6A8G, 6R7G, 6J5G, 6N7G	262	9-76
								10-10	15	TN111								
								.01-.01		Buffer	B14							
1308221	Vol. & Tone	7235952	17/22	SMD505				7232952	1	2N518		5050498	716	C3	6	[2]6K7G, 6A8G, 6R7G, [3]6V6G	260	12-1,2
								7235996	15	TN111/TC22								
								.015-.015		Buffer	B14							
1314523	Vol. & Tone	7238538	20/22	Order from	Mfr.			7238552	1	FP231		7235951	716	C3	6	[2]6SK7, 6A8, 6R7G, [3]6V6G	260	12-3,4
								7238553	15	WP520		7238525	716	C3				
								.015-.015		Buffer	B14							
1323457	Vol.		106	Order from	Mfr.			20-20-20	24/15	FP339			870	C3	7	[2]7A7, 7B8, 7E6, [3]7C5, 0Z4	455	13-13-15
	Tone		106	Order from	Mfr.			.01-.01		Buffer	B14							
BULOVA WATCH																		
M501	Vol.		8	A5MP				1-4-2	28	See Note	B1				5	[3]51, 24, 47, 80		2-1
								.055		See Note	B9							
600, 601, 605, 610	Vol.		8	A5MP		2		1-2-1	3	See Note	B1				6	[3]51, [2]24, 47, 80	175	5-1
								.06/.25		See Note	B9							
								.03		See Note	B9							
M701	Vol.		7	G	6			2-2-2.5	28	See Note	B1				7	[3]51, 24, 27, 47, 80	175	2-3
	Tone		22	MR33				.055		See Note	B9							
C751	Vol.		58	F				8, 8	34	RS213					7	[3]35, 27, [2]24, 47, 80	175	2-5
	Tone		22	MR33														
G781	Vol.		7	G	6			2-2-2.5	28	See Note	B1				7	[3]51, 24, 47, 27, 80	175	2-3
	Tone		22	MR33				.055		See Note	B9							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BUSH AND LANE																		
10	Vol.		26	MR20		See Note A18		8-8-8	3	3S584					8	[1]27, [2]45, 80		1-1
12	Vol.		12	MR20		See Note A18		8-8-8	3	3S584					8	[1]27, [1][2]4, [2]45, 80		1-2
C R C																		
24-27	Vol.		6	G7	6			4-4	1	See Note	B3				4	[1]24, 45, 27		4-1
24-45	Vol.		6	G7				4-4	1	See Note	B3				4	35, 24, 45, 80		4-1
24-47	Vol.		6	G7				4-4	23	See Note	B3				4	35, 24, 47, 80		4-2
58-47	Vol.		6	H7				4-4	23	See Note	B3				4	58, 57, 47, 80		4-2
CABLE-NELSON—See Howard.																		
CADILLAC																		
C8 (1433970)	Vol.	1434977	15	Order from	Mfr.			30-20	46	FP228		1434660	954	C3	8	[3]6SK7, 6K8, 6H6, 6J5, 6V6G, 6N7G	456	10-1-4
								20-20	46/15	FP234								
								.008		Buffer	B14							
06W	Vol.	91061	18	UM154	M26		A96	P80939	2	2S569		P1765	Order from Mfr.		6	[1]78, 77, 85, [2]41	262	5-1-4
	Tone	91013	44	MR42				P80965	14	TC52								
								.01		Buffer	B14							
5X	Vol.		56	Order from	Mfr.			8-8	1	2N518			248	C3	5	[3]6K7, 6J7, 6B7, 6B5	175	8-1
	Tone		22	MR53				.0055		Buffer	B14							
6KB	Vol.		56	Order from	Mfr.			8-8-12	1/15	3S579			248	C3	6	[3]6K7, 6J7, 6B7, 41, 6A6	175	8-3
	Tone		22	MR53				.0055		Buffer	B14							
6Q	Vol.	P36X214	56	UM147-SS3	M26			P45X208	4	TCS71					6	[3]6D6, 6C6, 6B7, 41, 6A6	175	7-1,3
6R	Tone	P40X210	34	MR42														
	Vol.		17	UM161-SS3				4-5-8	4/15	3S579			294	C3	6	[3]6D6, 6C6, 75, 41, 84	175	8-5,6
	Tone		34	MR42				.0075		Buffer	B14							
6S	Vol.	36X200	17	UM163-SS3	M26			45X204	1	2N518		2080	253	C3	6	[3]6D6, 6C6, 75, 41, 84	175	8-7,8
	Tone	40X201	22	MR44				45X203	15	TN111								
								.01		Buffer	B14							
6T	Vol.		17	‡		See Note A3									6	[3]6D6, 6C6, 6B7, [2]42	262.5	8-9,10
	Tone		44	MR39														
6U2	Vol.		18	UM144-SS3	M26			10-10	1	2S569			294	C3	6	[1]78, 77, 75, 41, 84	262.5	8-4
	Tone		22	MR42				.01		Buffer	B14							
77	Vol.		15	‡		See Note A19		10-15-20	24/15	FP339			852	C3	7	7A7, 7B8, 7E7, 7F7, [1]7C5, 0Z4	260	11-1-4
2029, 2029A, 2030	Vol.			‡	G			.01-.01		Buffer	B14				8	[3]36, [3]37, [3]47	175	
2721 (072)	Vol.		18	MR48				P80902	13/15	See Note	B45		Order from Mfr.		7	[3]39, 36, 37, [3]38	262	5-5
	Tone		44	MR42														
2722 (072A)	Vol.		18	MR48				P80902D	15/13	See Note	B45		Order from Mfr.		7	[3]39, 37, 36, [3]41	262	5-8,10
	Tone		44	MR42														
56V1	Vol.		17	MR48		See Note A3		4-4-.5	13/15	See Note	B46		292	C3	6	[1]78, 77, 6B7, [2]41	262	5-12
	Tone		44	MR42														
1425470, 1425471	Vol.		142	MRT446				45X230	1/15	TCD72/TC26		19A31	248	C3	6	[3]6U7G, 6J7G, 6B8G, 6K6G, 6N7G	175	9-1,2
	Tone		22	MR57				4	14	TC71								
								.0055		Buffer	B14							
1433970 (C-8)	Vol.	1434977	15	Order from	Mfr.			30-20	46	FP228		1434660	954	C3	8	[3]6SK7, 6K8, 6H6, 6J5, 6V6G, 6N7G	456	10-1-4
								20-20	46/15	FP234								
								.008		Buffer	B14							
7232502	Vol.		45	TM239	M26		A96	8-8	2	2N518		7232741	514	C3	5	6K7, 6A8G, 6B8G, 6F8G, 6N7G	262	9-3,4
	Tone		22	MR48				12	15	TC22								
								.01-.01		Buffer	B14							
7238399	Vol.		18	‡		See Note A5		8-8	24/13	2N518			852	C3	7	[1]7A7, 7B8, 7E6, [1]7C5, 0Z4	455	11-5-10
								10	24	TC72								
								.01-.01		Buffer	B14							
7240371	Vol.	7240851	15	‡		See Note A19		7240724	24/15	FP339		7238829	870	C3	7	7A7, 7B8, 7E7, 7F7, [1]7C5, 0Z4	260	12-1,2,3
								.006		Buffer	B14							
7240427	Vol.	7239816	18	‡		See Note A3		7240724	24/15	FP339		7238829	870	C3	7	[1]7A7, 7B8, 7E6, [1]7C5, 0Z4	455	12-4,5,6
								.01-.01		Buffer	B14							
7241938	Vol.		106					20-20-20	24/15	FP339			870	C3	7	[1]7A7, 7B8, 7E6, [1]7C5, 0Z4	455	13-1-7
	Tone		106					.01-.01		Buffer	B14							
7241951	Vol.	7242296	18	Order from	Mfr.			7240724	24/15	FP339		8639	870	C3	7	[3]6SK7, 6SA7, 6SR7, [3]6V6GT, 0Z4	262	13-7-12
								.006		Buffer	B14							
CALVERT																		
A50A	Vol.	627	2	MR18		EX400		8-8	1	2N518					5	[1]24, 47, 80		6-1
A51A, A52A	Vol.	627	8	MR19				658	1	2N518					5	[1]35, 24, 47, 80, or [1]58, 57, 47, 80		6-2
CAPEHART																		
CK	Vol.		13	MR39	M28			8, 8, 8	28	RS213	B3				11	[1]58, 57, [1]56, [1]47, 80	175	
	Tone		41	MR39	M26													
	Phono.		87	MR44														
	Sil.		8	MR19														
E-1	Vol.		15	MR53				8	1/14	RS213					12	[3]6K7, 6L7, 6H6, 6C5, 6G5, 5Z4, [3]6F5, [3]6L6, 5Z3	465	10-1-3
	Tone		41	MR48				16	1	RS216								
								8, 8, 8	3	RS213								
103, 104 (Cosmopolitan) Chassis Z	Vol.		33	See Note			A5	8-8-6	3	See Note	B3				11	[1]78, 6A7, 75, 77, [1]37, [2]2A5, 80	175	5-1
	Tone		22	See Note			A5	8-8	14	See Note	B3							
110G Panamuse	Vol.		146	MR48				8, 8	30	RS213					11	[3]6K7, 6A8, 6H6, 6G5, 6N7, 6C5, [3]6V6G, 5Z3	465	10-4,6
	Treble		146	MR48				16	30	RS216								
	Bass		146	MR48				10	19	TC32								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CAPEHART—Continued																		
202	Vol.		15	MR48				8-8	1	2N518					9	[3]6K7, 6A8, 6H6, 6C5, [3]6F6, 5Z4	465	7-1
	Tone		41	MR48				4	13/14	TC71								
								5	15	TC32								
203 Tuner	Vol.		17	MR48				4	13	TC71					5	[3]6K7, 6A8, 6H6	465	7-3
	Tone		44	MR48														
203 (Amplifier)								8-8-4-2	3/14	See Note	B4				5	[3]6F5, [3]6F6, 5Z3		7-2
400A	Vol.		15	MR44				8-8-4-2-2-2	37	See Note	B3				14	[4]58, [3]56, 57, 55, [4]47, [3]80	180	4-1
	Tone		41	MR53				40	15	TC29								
400B	Vol.		33	MR44				8-8-4-2-2-2	3	See Note	B3				17	[4]58, [3]56, 57, 55, [2]A5, [3]5Z3	180	4-2
	Tone		‡	MR44				40	15	TC29								
	Supp.		44	MR19														
400, 401, 402	Vol.		8/87	See Note			A5								13	[4]51, [3]27, [4]47, [3]80	180	1-1
	Tone		41	See Note			A5											
400B, 402B, 404B, Tuner	Vol.		33	MR44				8-8-4-2-2-2	3	See Note	B3				17	[4]58, 2A7, [3]57, 55, [3]56, [2]2A5, [3]5Z3	180	5-2
	Tone		44	MR44				40	15	TC29								
	Supp.		8	MR19														
400B, 402B, 404B, All-Wave	Vol.		15	MR44				8-8-4-2-2-2	3	See Note	B3				17	[3]58, [3]57, [4]56, 2A7, [2]A5, [3]5Z3, 55	465	5-4
	Tone		44	MR44				40	15	TC29								
	Supp.		8	MR19														
400D Tuner	Vol.		146	MR44				8-8	13	2N518					9	[4]6K7, 6L7, [3]6C5, 6H6	465	7-4
	B.Tone		146	MR44				25	15	TC26								
	T.Tone		146	MR44														
	Sen.		9	MR34														
400D Treb. Amp.								8-8	1	See Note	B4				4	6F5, [3]6F6, 5Z3		7-6
400D Bass Amp.								8-8-4-2-2	3	See Note	B4				8	[3]6F5, [4]6F6, [3]5Z3		7-5
400G	Vol.	2289	146	NN				11119	3	FP231					23	[3]6K7, 6L7, 6G5, [3]6J5, 6H6, [3]6F6G, [4]6V6G, 6N7, [3]6C5G, [3]5Z3	465	10-12-24
	Treble	2287	146	MR48				1170	3	HS693								
	Bass	2287	146	MR48				11105	3	RS216								
	Sen.	2288	8	Order from	Mfr.			11124	15	TN111								
								11125	15	TC32								
Standard Amp								8-8-4-2	3	See Note	B3				6	[3]56, [2]2A5, 5Z3		5-5
								40	15	TC29								
CASE—Also see U. S.	Radio &	Tel.																
601 (Chassis 16SM)	Vol.	A15113	18	MR48	M26			A15313	25	RS216					6	6D6, 6A7, 6K7, 75, 6F6, 80	262.5	7-1,3
	Tone	A15116	34	MR42				A15237-2	25	RS213								
701 (Chassis 16SME)	Vol.	A15113	18	MR48	M26			A15313	25	RS216					7	6D6, 6A7, 6K7, 75, 6G5, 6F6, 80	262.5	7-4,6
	Tone	A15116	34	MR42				A15237-2	25	RS213								
710, 713, 714, 715, 716, 718, 719	Vol.	A15113	18	MR48	M26			15078	‡	RS216					7	6K7, 6L7, 6D6, 6B7, 42, 76, 80	262.5	10-2
	Tone	A15116	34	MR42				15079	‡	RS216								
801-802 (Chassis 27SME)	Vol.	A15368	18	MR44	M26			A15313	25	RS216					8	6K7, 6L7, 76, 6D6, 75, 6G5, 42, 80	262.5	7-7,9
	Tone	A15116	34	MR42				A15427	25	RS216	B12							
								A15237-2	25	RS213								
1001 (Chassis 19RSME)	Vol.	A15253	15	MR55	M26			A15236	25	RS223					9	[3]6K7, 6L7, 6H6, 6C5, [3]6F6, 5Y3	262.5	7-10,12
								A15237	25	RS213								
								A15238	13/15	2N518								
1017 Chassis 110	Vol.	A15025	17	MR42	M26			16	56	RS216					10	[3]6F6, [3]6C5, 6F5, 6H6, [3]6K7, 6L7, 5Z3	262	
								16	56	RS216								
1050	Vol.	B-16553-Z	17				A19	B16554-2	1	RS223					10	[3]6K7G, 6L7G, 6C5G, 6Q7G, 6G5, [3]6F6G, 5Z3	456	
	Tone	B-16540-2	22	MR42				B15427	1	RS219								
								B16551-3	15	TN111								
1101, 1102 (Chassis 110RSME)	Vol.	A15025	45	MR42	M26			16	56	RS216					10	[3]6K7, 6L7, [3]6C5, 6H6, 6F5, [3]6F6, 5Z3	262.5	7-13,15
								16	56	RS216								
								A15102	14	TC32								
								A15178	13/14	TN111/TC71								
1250	Vol.	B-16565-2	140	TM234-SS1	M26			B16613-2	1	2S569					12	[3]6K7G, 6L7G, [3]6C5G, 6H6G, 6G5, 6F5G, [3]6L6G, 5Z3	456	
	Tone	B-16566-2	140	MR55				B16614-3	13/15	2N516								
CAVALCADE																		
54	Vol.		18	UM154		See Note	A96	6-10	4	See Note	B3		294	C3	5	6A7, 6D6, 75, 42, 84	‡	
								.02		Buffer	B14							
64	Vol.		18	UM154		See Note	A96	6-10	4	See Note	B3		294	C3	6	[3]6D6, 6A7, 75, 42, 84	‡	
								.02		Buffer	B14							
357	Vol.		18	MR48	M26			8-8	4	See Note	B3				5	6A7, 6D6, 75, 42, 80	456	6-1
359	Vol.		18	UM154		See Note	A96	6-10	4	See Note	B3		294	C3	6	[3]6D6, 6A7, 75, 42, 84	456	6-2
								.02		Buffer	B14							
3511	Vol.		45	MR48	M26			8-8	1	2N518			245C	C3	6	1C6, 34, 32, 33, [3]30	456	6-3
								.01-.01		Buffer	B14							
CENTURY																		
4-47	Vol.		6	MR18	M26	EX200		8, 8	1	ST595					4	35, 24, 47, 80		3-1
4-78	Vol.		6	See Note			A5	8, 8	1	ST595					4	58, 57, 47, 80		3-2
5-38	Vol.		6	See Note			A5								5	36, [3]38, [3]39		3-3
5-47	Vol.		6	MR18	M26	EX200			1	See Note	B3				5	[3]24, 47, 80		3-4
7-38 Auto Radio	Vol.		64	MR48											7	[3]37, [3]38, [3]39		3-5

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CENTURY—Continued																		
"Ace"	Vol.		18	MR48				16	3	ST597					10	[3]58,[3]56, 46,[3]47, 80	175	3-6
	Tone		34	MR33				8	3	ST595								
	Supp.		7	G		2												
"Queen"	Vol.		6	MR24	M26	EX200		8-4	1	2N518					6	[3]57, 58,[3]47, 80	175	3-7
	Tone		34	MR33		See Note A4		10	17	TC22								
CHAMPION																		
4T AC-DC	Vol.		6	MR21				16-12	23	TCS44					4	6D6, 6C6, 43, 25Z5		7-3
5T (3 band)	Vol.		18	MR48				8-4	23	2S567					5	2A7, 78, 2A6, 2A5, 80, or 6A7, 6D6, 75, 42, 80	465	7-1
6T (3 band)	Vol.		45	MR48				8-4	23	2S567					6	6A8; 6K7, 6H6, 6F5, 6F6, 5Z4	465	7-2
	Tone		22	‡		See Note A3												
30	Vol.		6	‡		See Note A3		8-14-10-10	1/15	4S715					3	6D6, 6C6, 12A7		9-1
40R, 40RM, 40DW, 40DWM	Vol.		6	MR21				8-4	23	2S567					4	6D6, 6C6, 42, 80, or 6K7, 6J7, 6F6, 5Z4		7-5
42	Vol.		6	MR21			A14	4-4	1	2N518					4	6D6, 6C6, 42, 80 or 58, 57, 2A5, 80		7-3
								5	15	TC32								
52 (Early)	Vol.		6	MR21			A14	4-4	1	2N518					5	[3]58, 57, 47, 80 or [3]6D6, 6C6, 42, 80	456	7-4
								5	17	TC32								
52 (Late)	Vol.		6	MR21			A14	4-4	1	2N518					5	6A7, 6D6, 6C6, 42, 80	456	7-5
								5	15	TC32								
52DWG	Vol.		18	MR48				16-12	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5	465	7-4
54, 55	Vol.		6	MR21			A14	16-16	1	2N509					4	6K7, 6J7, 25L6 or 25A6, 25Z6, K55		9-2
								10	15	TC22								
307	Vol.		6	‡		See Note A3		10-10-10-10	1/15	2N516/TN111					3	6D6, 6C6, 12A7, K86C		9-1
317	Vol.		6	‡		See Note A3		16-12-10-10	1	4S715					3	6D6, 6C6, 25A7, K86C		9-1
500	Vol.		18	‡		See Note A3		8-8	1	2N518			294	C3	5	6A7, 6D6, 6B7, 41, 84 or 6A7, 6D6, 75, 41, 84	456	7-6
								10	15	TC22								
								.02-.02		Buffer	B14							
501	Vol.		18	UM154			A96	8-8	4	2N518			294	C3	5	6A7, 6D6, 75, 41, 0Z4	456	
								.01-.01		Buffer	B14							
558	Vol.		6	MR21			A14	4-4	1	2N518					5	[3]57, 58, 47, 80	456	7-7
								5	17	TC32								
600	Vol.		18	UM154			A96	6-12	1	2S569			294	C3	6	[3]6D6, 6A7, 75, 41, 84	175	7-8
								10	15	TC22								
								.01-.01		Buffer	B14							
601	Vol.		18	UM154			A96	8-8	4	2S567			294	C3	6	[3]6K7, 6A8, 6Q7, 6F6, 0Z4	175	7-9
	Tone		22	MR18				.01		Buffer	B14							
CHEVROLET																		
364441	Vol.	1207759	17	MR53	M27	FS253		1207695	1	TCD71		1207758	292	C3	7	[3]36, 39, 85,[3]89, 84	262	6-20,22
	Tone	1207798	44	MR48				1207901	15	TN111	B169							
								.015		Buffer	B14							
600153	Vol.	1208075	17	Order from	Mfr.	See Note A27		1207995	1/15	TCD52/TN111		5035120	222		5	[3]78, 6F7, 75, 41	262	7-45,46
	Vol.		17	UM147-SS3		See Note A4												
600249	Vol.	1208075	17	Order from	Mfr.			1208241	1	TCD72		1208152	222		6	[3]78, 6F7, 85,[3]41	262	4-1,4-7
	Tone	1207798	44	MR48														
600565	Vol.	1208589	17	MR48	M27			1208241	1	TCD72		5035120	222		6	[3]78, 6F7, 85,[3]41	262	9-61,62
600566	Vol.	1208491	17	Order from	Mfr.			1207995	1/15	TCD52/TN111		5037916	222		5	[3]78, 6F7, 75, 41	262	6-27,28
601038	Vol.	1208589	18	MR48	M27			1208584	1	TCD72		5039661	273C		6	78, 6A7, 6F7, 85,[3]41	175	6-29,32
	Tone	1208693	44	MR48														
601176	Vol.	1209078	17	UM154-SS3				1209144	1/15	4S718		5039661	273C		6	78, 6A7, 6F7, 85,[3]41	262	8-27,28
	Tone	1207798	44	MR48														
601177	Vol.	1209078	15	UM154-SS3				1209047	1/15	3S579		5037400	273C		4	6F7, 6A7, 6B7, 42	262	9-63,66
601525	Vol.	1209364	17	Order from	Mfr.			1209144	1/15	4S718		5039661	273C		6	78, 6A7, 6F7, 85,[3]41	262	10-1,2
	Tone	1207798	44	MR48														
601574	Vol.	1209540	15	UM162-SS12				1209531	1/15	3S584		5039661	273C		4	6F7, 6A7, 6B7, 41	175	6-33,36
	Tone	1209539	‡	MR48														
601586	Vol.	1209368	15	UM157-SS3				1209047	1/15	3S579		5037400	273C		4	6F7, 6A7, 6B7, 42	262	10-3-4
601662	Vol.	1209296	15	UM162-SS12				1209285	1/15	3S579		5039661	273C		4	6F7, 6A7, 6B7, 42	262	7-1,3
	Tone	1209628	21	MR48														
601814	Vol.	1210104	20	Order from	Mfr.			1210065	1/15	TCD72/TN111		5039661	273C		6	6D6, 6A7, 6F7, 85,[3]41	262	8-22
	Tone	1207798	44	MR48														
985100	Vol.	1210512	17	UM157-SS12				8-8-10	1/15	3S579		5040000	294	C3	6	[3]6D6, 6A7, 75, 42, 84	262	8-41
	Tone	1210719	128	MR48				.0022		Buffer	B14							
985200	Vol.	1210664	20	UM162-SS12				W38363	4	3S584	B8	5040000	294	C3	6	6D6, 6A7, 6B7, 76, 42, 84	262	10-5,6
	Tone		128	UC511				.01		Buffer	B14							
985252	Vol.	7230162	18	UM150-SS12				6-6	1	2N518		5050673	852	C3	6	[3]6K7G, 6A8G, 6Q7G, 6F6G, 6X5G	262	9-85,86
								.005		Buffer	B14							
985253	Vol.	7230117	17	TM239-SS3				8-8	1	2N518			852	C3	6	[3]6K7G, 6A8G, 6Q7G, 6N6G, 6X5G	262	9-87,88
	Tone		22	MR39				.005		Buffer	B14							
985254	Vol.	1210545	17	TM227-SS12				8-8	1	2N518		5050673	852	C3	6	[3]6U7G, 6A8G, 6Q7G, 6F6G, 6X5G	262	10-7,8
	Tone	1210719	‡	MR48				.005		Buffer	B14							
985255	Vol.	1211647	17	TM239-SS12				8-8-4-12	1/13/15	3S584/TC22		5050673	852	C3	7	[3]6K7G, 6A8G, 6R7G, [3]6N6G, 6X5G	262	9-89,90
	Tone	1562084	22	MR45				.005		Buffer	B14							
985283	Vol.	1212427	18	TM252-SS3				1212314	1/15	3S579		5050673	852	C3	7	[3]6U7G, 6A8G, 6R7G, [3]6V6G, 0Z4	262.5	9-91,92, 10-9,10
	Tone	1212810	22	Order from	Mfr.			1212313	15	TC32								
								.01-.01		Buffer	B14							

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CHEVROLET—Continued																		
985284	Vol.	7232981	18	TM215-SS12				7233092	1	2N518		5050673	852	C3	7	²6K7G, 6J7, 6R7G, 6J5G, 6N7G, 0Z4G	262	9-93
	Tone	1563950	21	Order from	Mfr.			7231831	15	TC22								
								.01-.01		Buffer	B14							
985285	Vol.	1212542	17	TM224-SS3				1212441	1/13	3S584		5050673	852	C3	6	²6U7G, 6A8G, 6Q7G, 6F6G, 0Z4G	262	9-94
	Tone	1210719	22	MR48				.005		Buffer	B14							
985286	Vol.	7230162	18	UM150-SS12				6-6	1	2N518		5050673	852	C3	6	²6K7G, 6A8G, 6Q7G, 6F6G, 6X5G	262	9-85,86
								.005		Buffer	B14							
985300	Vol.	1210846	17	TM239-SS12				1210857	1/15	2N518/TN111		5041376	273D		6	²6D6, 6A7, 85, 76, 6A6	262	8-40,43
	Tone	1207798	119	MR48														
985301	Vol.	1211175	20	TM239-SS12				1211167	1	TCD72		5041376	273D		6	²6D6, 6A7, 85, 76, 6A6	262	8-45,46
	Tone	1211285	119	MR44				1211166	15	TN111								
985400	Vol.	1210954	20	Order from	Mfr.			1209285	1/15	3S579		5041245	273C		6	²6D6, 6A7, 85, ²41	262	8-41, 10-19
985424	Vol. & Tone	1212903	20/39	Order from	Mfr.			1212902	1/15	FP332		5050673	852	C3	7	²6K7, 6A8, 6R7, ²6V6G, 0Z4	262.5	10-11-14
								1212313	15	TC22								
								.01-.01		Buffer	B14							
985425	Vol.	1212967	18	UM161-SS24	M26			5-5-20	24/15	FP332		1212966	859	C3	5	6A8G, 6K7G, 6Q7G, 6K6G, 6X5G	455	10-15,16
								.0065		Buffer	B14							
985426	Vol. & Tone	7236369	18/21	SMD511				8-8	74	2S567		5050673	852	C3	6	²6K7, 6A8, 6Q7, 6K6G, 0Z4G	260	10-17,18
								.01-.01		Buffer	B14							
985536	Vol.	1213639	124	SM309				1213652	46	FP389		7239439	839	C3	8	²6K7GT, 6A8GT, 6R7GT, ²6V6GT, 0Z4	262.5	11-1-4
								1213653	15	TN125								
								.01-.01		Buffer	B14							
985537	Vol.	7239120	18	SM312				7239053	24/15	FP339		1213881	859	C3	6	²6K7GT, 6A8GT, 6Q7GT, 6V6GT, 0Z4	260	11-5,6
								.01-.01		Buffer	B14							
985538	Vol.	1213863	18	SM314				1213868	24/15	FP328		1213655	859	C3	5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 6X5GT	455	11-7,8
								.004		Buffer	B14							
985651	Vol.	1213745	18	MK402	M27			40-20-200	24/19	FP304					5	1A7GT, 1N5GT, 1A5GT, 1H5GT, 35Z5GT, 5Y3	465	11-9,10
985694	Vol.	1214928	124	SM310				20-10-5	24/13	FP369		7239439	839	C3	8	²6K7GT, 6A8GT, 6R7GT, ²6V6GT, 0Z4	262.5	12-1,2,3
								20-4	15	2N509								
								.01-.01		Buffer	B14							
985695	Vol.	7241165	18	SM313				20-20-20	24/15	FP339		7239124	859	C3	6	²6SK7GT, 6A8GT, 6SQ7GT, 6V6GT, 0Z4	260	12-5,6
								.006		Buffer	B14							
985696	Vol.	1214864	18	SM315				10-15-20	24/15	FP328		1212966	859	C3	5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 0Z4G	455	12-7,8
								.004		Buffer	B14							
985697	Vol.	1215180	17	SM311				20-5-20	46/15	FP328		1215198	839	C3	9	6K7, 6SA7, ²6SK7, 6SR7, 6H6, ²6V6GT, 0Z4	455	12-9-14
								20-20	46/15	FP330	B3							
								.008		Buffer	B14							
985775 (Portable)	Vol.		18	UM154			A96	10	12	TC44					4	1R5, 1T4, 1S5, 1S4	455	12-4
985792	Vol.		18					10-15-20	24/15	FP328			870		5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 0Z4	260	13-1-4
								.004		Buffer	B14							
985793	Vol.		18					7240724	24/15	FP339		8526	859	C3	6	²6SK7, 6SA7, 6SQ7, 6V6GT, 0Z4	262	13-5-9
								.006		Buffer	B14							
985794	Vol.	1215610	20					1214489	24/15	FP332	B69	1215198	839	C3	9	²6SK7, 6SA7, 6SR7, 6H6, ²6V6GT, 0Z4	455	13-11-26
	Sen.	1215179	7					1215184	13/15	FP339		7239439	839	C3				
	Dimmer	1216042	‡	Order from	Mfr.			.008		Buffer	B14							
985866	Vol.		149	Order from	Mfr.			30-20-100	76/78	FP304					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	455	13-27-30
								10	78	TC42								
CLAGO																		
Radiochron "B"	Vol.		6	MR18	M26		A14	1-2	1	See Note	B1				6	²24, 45, 80		§4-9
	Tone		22	MR18														
531 "Heritage"	Vol.		6	G7		See Note	A14	1-2-2-1-1	‡	See Note	B1				5	²24, 45, 80		§9-3
	Tone		22	MR18														
CLARION—Also see Transformer Corp.																		
11A (52.3)	Vol.	24-105	18	MR48				18-102	1/15	2N518/TC22					6	6A7, 6D6, 75, 6G5, 41, 80	456	
	Tone	26-106	21	MR48	M26													
29, 35 (537)	Vol.	24-111	18	MR48	M27			16-100	19	TC22					4	1D7G, 1D5G, 1H6G, 1G5G, NB1	456	
31, 37 (453)	Vol.	24-106	18	MR53	M26			1845	1	2N516		3407	246	C3	5	6D8G, 6S7G, 6T7G, 6N5, 1F5G	456	
								.008		Buffer	B14							
55A, 57A (645)	Vol.	24-105	18	MR48				18-102	1/15	2N518/TC22					6	6A7, 6D6, 75, 6G5, 41, 80	456	
	Tone	26-106	21	MR48	M26													
58B (735)	Vol.	24-105	18	MR48				18-202	25	RS215					7	6A7, 76, 6D6, 6Q7G, 6G5, 6V6G, 80	456	
	Tone	26-106	21	MR48	M26			18-201	25	RS219								
60, 61 series (646)	Vol.	24-103	18	UM157			A96	18-203	74/19	3S584	B119	30-100	294	C3	6	6K7, 6A8, 6D6, 75, 41, 84	262	
	Tone	26-103	21	MR48				.005		Buffer	B14							
70, 71 Series (746)	Vol.	24-103	48	UM157			A96	18-204	24/15	3S579		30-100	294	C3	7	6K7, 6A8, 6K7G, 6Q7G, 6J5G, 6N7G, 0Z4	262	
	Tone		22	Order from	Mfr.			.008		Buffer	B14							
70X (715A)	Vol.	24-106	17	MR53	M26			18-211	1	2N513					6	6A7, 6D6, 6Q7G, 6G5, 25B5, 25Z5, L42B	456	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CLARION—Continued																		
80, 81 (846)	Vol.	24-103	18	UM157			A96	18-204	24/15	3S579		30-100	294	C3	8	[2]6K7, 6A8, 6K7G, 6Q7G, 6J5G, 6N7G, 0Z4	262	
	Tone		22	Order from	Mfr.			.008		Buffer	B14							
88X, 89X	Vol.	24-113	148	‡		See Note	A5	18-202	1	RS215					8	6A7, 6D6, 6H6G, 6G5, 6Y7G, [2]6V6G, 80	456	
	Tone	26-110	41	‡		See Note	A5	18-201	1	RS219								
93 (885)	Vol.	24-113	148	‡		See Note	A5	18-202	1	RS215					8	6A7, 6D6, 6H6G, 6G5, 6Y7G, [2]6V6G, 80	456	
	Tone	26-110	41	‡		See Note	A5	18-201	1	RS219								
Chassis 562	Vol.	24-105	18	MR48				1845	1	2N516		3407	246	C3	5	1C6, 1A4, 6T7G, 6N5, 41	456	
	Tone	26-107	21	‡		See Note	A5	.01-.01		Buffer	B14							
700, 701 (710)	Vol.	24-106	17	MR53	M26			18-211	1	2N513					6	6A7, 6D6, 6Q7G, 6G5, 25B5, 25Z5, L42B	456	
Chassis 1102	Vol.	24-115	148			See Note	A5	18-214	1	RS216					11	[2]6C5G, 6A8G, 6K7G, 6H6G, 6G5, [2]6J7G, [2]6V6G, 80	456	
	Tone	26-112	44	Order from	Mfr.			18-215	1	RS215								
								18-216	13	ST595								
Chassis 1105	Vol.	24-115	148	‡		See Note	A5	18-214	1	RS216					11	[2]6C5G, 6A8G, 6K7G, 6H6G, 6G5, [2]6J7G, [2]6V6G, 80	456	
	Tone	26-112	44	Order from	Mfr.			18-215	1	RS215								
								18-216	13	ST595								
CLEARTONE																		
110 (Compact)	Vol.		16	MR48				3-3-2	3	See Note	B1				6	[3]Kellog, 80		1-3
	Clr'ty		26	MR34														
112	Vol.		14	MR48				2-2	1	See Note	B7				7	[4]26, 27, 50, 81		1-3
CLIMAX																		
4 tube AC-DC	Vol.	1050	6	MR18	M26	EX300		2031	1/15	TN125					4	6D6, 6C6, 43, 12Z3		7-2
4 tube Battery	Vol.		135	MR20	M26			2037	12	TC55					4	[2]34, 32, 33		7-1
5 tube AC-DC	Vol.	1050	6	MR18	M26	EX300		2027	11/15	2N509/2N516					5	6D6, 6C6, 43, 37, 12Z3		7-2
6 tube Battery	Vol.	1057	45	MR48				2037	12	TC55					6	1C6, [2]34, [2]30, 33	456	7-1
AA, AAX	Vol.	1050	6	MR18	M26	EX300		2027	11/15	2N509/2N516					4	6K7, 6J7, 43, 25Z5		7-3
AB, ABX	Vol.	1059	6	MR18		EX300		2027	11/15	2N509/2N516					5	6A8, 6K7, 6J7, 43MG, 25Z5MG	456	7-4
ABX (late)	Vol.	2007	17	MR48	M26			306	11/15	2N513/2N516					5	6A8, 6K7, 6B6, 43MG, 25Z5MG	456	7-5
AC 60	Vol.	2009	45	MR48	M26			317	4	RS213					7	6A7, 6D6, 76, 6G5, 6F5G, 42, 80	456	8-15
AC 61	Vol.	2009B	45	MR48	M26			317	4	RS213					6	6A7, 6D6, 76, 6F5G, 42, 80	456	8-15
AC 64, AC 64B	Vol.	2009B	45	MR48	M26			317	4	RS213					7	6A7, 6D6, 76, 6G5, 6F5G, 42, 80	456	8-15
AC 65	Vol.	2009B	45	MR48	M26			317	4	RS213					6	6A7, 6D6, 76, 6F5G, 42, 80	456	8-15
AD	Vol.	2009B	18	MR48	M26			317	4	RS213					5	6A7, 6D6, 75, 42, 80	456	8-2
AD6	Vol.	2009B	45	MR48	M26			317	4	RS213					7	6A7, 6D6, 76, 6F5G, 6G5, 42, 80	456	9-2
AH	Vol.	2009B	18	MR48	M26			311	27	ST599					5	6A7, 6D6, 75, 43, 25Z5, L49C	456	8-2
								314	27	ST595								
AHE	Vol.	2009B	18	MR48	M26			311	27	ST599					6	6A7, 6D6, 75, 6G5, 43, 25Z5, L42C	456	8-2
								314	27	ST595								
AJ	Vol.	2009C	18	MR48	M27										5	1C6, 1A4, 1B5, 30, 19	‡	8-4
AKE	Vol.	2009B	18	MR48	M26			324	1	ST595		2501	See Note	C8	5	6A7, 6S7G, 6T7G, 6G5, 41	456	8-5
								304	15	TC22								
								.01		Buffer	B14							
AL	Vol.	2016B	6	MR18	M26	EX400		324	4	TC47					4	6D6, 6C6, 26L6, 25Z5, L55B		9-1
AR	Vol.	2022	6	MR29	M26	EX300		312	4	TC44								
								324	4	TC47					4	6K7, 6J7, 25L6, 25Z6		9-2
								312	4	TC44								
ASE	Vol.	2009B	45	MR48	M26			311	4	ST599					7	6A7, 6D6, [2]76, 6G5, 25L6, 25Z5, L80B	‡	9-1
	Tone	2021	22	MR39				314	4	ST595								
ATE	Vol.	2009B	45	MR48	M26			311	4	ST599					7	6A7, 6D6, [2]76, 6G5, 25L6, 25Z5, L73B, L80B	456	9-1
	Tone	2021	22	MR39				314	4	ST595								
AX	Vol.	2009B	45	MR48	M26			317	4	RS213					6	6A7, 6D6, 76, 6F5G, 42, 80	‡	
	Tone	2021	22	MR39														
A4	Vol.	1050	6	MR18	M26	EX300		2004	1	2N509					4	39-44, 77, 43, 12Z3		7-6
								2005	15	TN111								
Diamond	Vol.	2015	6	MR18	M26	EX500		5-10-25	40/15	UR182	B3				4	6D6, 6C6, 43, 25Z5		
Duke	Vol.	2006	6	MR18	M26	EX300		316	‡	TN125/TN111					4	6D6, 6C6, 43, 25Z5, L55B		8-5
E	Vol.	2006	6	MR18	M26	EX275		316	8	TN125/TN111					4	6D6, 6C6, 43, 25Z5		8-7
E02	Vol.	2006A	6	MR18	M26	EX300		316	‡	TN125/TN111					4	6D6, 6C6, 43, 25Z5		9-1
F	Vol.	2006	6	MR18	M26	EX275		311	23	ST599					4	6D6, 6C6, 43, 25Z5		8-7
								314	23	ST595								
FBT	Vol.	2006	6	MR18	M26	EX300		311	23	ST599					4	6D6, 6C6, 43, 25Z5, L55C		§10-3
								314	23	ST595								
G	Vol.	2013	6	MR18	M26	EX275		311	27	ST599					4	6A7, 6F7, 43, 25Z5	456	8-8
								314	27	ST595								
HE	Vol.	2009B	18	MR48	M26			311	27	ST599					6	6A7, 6D6, 6Q7G, 25B5, 25Z5, 6G5	456	8-9
								314	27	ST595								

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CLIMAX—Continued																		
JE	Vol.	2009B	18	MR48	M26			311	27	ST599					6	6A7, 6D6, 6Q7G, 25B5, 25Z5, 6G5	456	8-9
JEBT	Vol.	2009B	18	MR48	M26			311	27	ST599					6	6A7, 6D6, 6Q7G, 6G5, 25B5, 25Z5	456	8-13
JL	Vol.	2011	83	MR48				314	27	ST595					11	6A7, 6D6, [4]76, 6G5, 6F5G, [2,3]80	456	8-10
	Tone	2012	22	MR36	M26			317	1	RS213								
KSW4	Vol.	1050	6	MR18	M26	EX300		304	15	TC22					4	58, 57, 47, 80		7-7
LEE SW5	Vol.	1050	6	MR18	M26	EX300		8-4	4	2S567	B33				5	[2]58, 57, 47, 80		7-7
M (early)	Vol.	1057	18	MR48	M26			8-4	4	2S567	B33				5	6A7, 6D6, 75, 42, 80	456	7-9
M and ME (late)	Vol.	2011	45	MR48				2016	1/15	3S579					8	6A7, [2]76, 6D6, 6F5G, 6G5, 42, 80	456	8-11
	Tone	2012	34	MR36	M26			317	1	RS213								
MEBT	Vol.	2011	45	MR48				304	15	TC22					8	6A7, [2]76, 6D6, 6G5, 6F5G, 42, 80	456	8-11
	Tone	2012	34	MR36	M26			317	1	RS213								
M4	Vol.	1050	6	MR18	M26	EX300		304	15	TC22					4	39/44, 36, 38, 37		7-6
OPAL	Vol.	2006	6	MR18	M26	EX300		2006	24/15	2N516/TN111					4	6D6, 6C6, 38, 76		8-1
Q69	Vol.	2016	6	MR18	M26	EX400		322	24/15	3N527					4	6D6, 6C6, 43, 25Z5, L55B		8-14
R	Vol.	2006	6	MR18	M26	EX275		316	‡	TN125/TN111					4	6D6, 6C6, 43, 25Z5		8-8
RBT	Vol.	2006	6	MR18	M26	EX250		316	‡	TN125/TN111					4	6D6, 6C6, 43, 25Z5		8-12
SBT	Vol.	2007A	45	MR48	M26			311	27	ST599					7	6A7, 76, 6D6, 6H6G, 6Q7G, 25B5, 25Z5	456	8-13
	Tone	2008A	22	MR36				314	27	ST595								
T	Vol.	2006	6	MR18	M26	EX275		320	40/15	TC41/TC42					4	6D6, 6C6, 43, 25Z5		8-12
U Series, UE	Vol.	2009B	18	MR48	M26			311	27	ST599					6	6A7, 6D6, 75, 6G5, 43, 25Z5, L42C or 6A7, 6D6, 75, 43, 25Z5, L49C	456	9-2
								314	27	ST595								
Z55	Vol.	2016	6	MR18	M26	EX400		316	‡	TN125/TN111					4	6D6, 6C6, 43, 25Z5, L55B		8-14
7	Vol.	2010	6	MR18	M26	EX300		313	15	4S715					4	6D6, 6C6, 38, 76		7-8
7B	Vol.	2010	6	MR18	M26	EX300		313	15	4S715					4	6D6, 6C6, 38, 76		7-9
10, 12, 14, 19	Vol.	2006	6	MR18	M26	EX300		309	6/15	4S715					4	6D6, 6C6, 43, 25Z5		7-10
30, 34	Vol.	2006A	6	MR18	M26	EX300		308	6/15	2N507/TN111					4	6D6, 6C6, 43, 25Z5		7-11
35	Vol.	2009B	17	MR48	M26			311	23	ST595					6	6A7, 6D6, 75, 43, 6G5, 25Z5	456	7-12
								10	23	TC44								
50, 56, 59	Vol.	2007	17	MR48	M26			308	6/15	2N509/TN111					5	6A7, 6D6, 75, 43, 25Z5, L55S2	456	7-13
66	Vol.	1049	17	UM154			A96	2031	1/15	3S579		801	294	C3	6	6A7, 6D6, 76, 75, 41, 84	456	7-15
								.01		Buffer	B14							
90, 91, 93	Vol.	2007	45	MR48	M26			302	1/15	3S579					7	6A7, 6D6, 76, 75, 6E5, 42, 80	456	7-14
	Tone	2008	34	MR36														
90B, 96B, 99B	Vol.	2007A	45	MR48	M26			302	1/15	3S579					7	6A7, 6D6, 76, 75, 42, 80, 6G5	456	7-15
	Tone	2008A	34	MR36														
424	Vol.		6	MR18		EX200		4, 4	1	ST595					4	[2]24, 47, 80		§5-4
457	Vol.	1050	6	MR18	M26	EX300		2000	4	2S567					4	58, 57, 47, 80		7-16
557	Vol.	1050	6	MR18	M26	EX300		2000	4	2S567					5	[2]58, 57, 47, 80		7-16
CLINTON																		
6V6	Vol.	V14	45	MR48	M27			C220	1	2N516		F-7	245	C3	6	6D8G, 1E5G, [3]11H4G, 6T7G, 1J6G	456	
	Tone	V106	44	MR39				.005		Buffer	B14							
19B (194, 195)	Vol.		6	SRP263	6			8-20-8	8	UR182					4	6D6, 6C6, 43, 25Z5		
51	Vol.	V6	6	MR28	M26	EX200		C212	8/15	TN125/TC22					4	6D6, 6C6, 43, 25Z5, L55B		
56P	Vol.		6	SRP263	6			8-20-8	6	UR182					4	6D6, 6C6, 43, 25Z5, L55B		
								5	15	TC22								
57PG, 58PG, 59PG	Vol.	V6	6	MR28	M26	EX200		C212	8/15	TN125/TC22					4	6D6, 6C6, 43, 25Z5		
C62SQ	Vol.		18	MR48	M26			C214	27	2S556					5	6A7, 6D6, 75, 43, 25Z5		
C71XF	Vol.	V13	18	MR48	M26			C221	4	RM262					7	6A7, 6D6, 76, 75, 42, 6G5, 80	456	
	Tone	V105	21	MR48														
C83	Vol.	V15	45	MR48				C216	3	RS213					8	[2]6D6, [2]76, 75, 6U5, 6B5, 80	456	
	Tone	V106	106	MR48				C213	3	ST595								
C93	Vol.	V15	106	MR48				8	1	RS213					9	[2]6D6, [2]76, 75, [2]42, 6G5, 80	456	
	Tone	V107	106	MR39				8	1	ST595								
								10	15	TC22								
C113XF	Vol.	V15	106	MR48				C216	1	RS213					11	[2]6D6, [2]76, [2]6C6, [2]42, 6U5, 80	456	
	Tone	V15	106	MR48				C205	1	ST595								
C123	Vol.	V15	106	MR48				C216	1	RS213					12	[2]6C6, 6D6, [4]76, [2]42, 6G5, 80	456	
	Tone	V107	106	MR39				8-8	1	2N518								
								10	15	TC22								
152, 153	Vol.		6	SRP263	6			8-20-8	8	UR182					4	6D6, 6C6, 43, 25Z5		
300	Vol.		17	MR48	M26			40-12-10	6/15	3N533					5	6A7, 6D6, 6Q7G, 25B5, 25Z5	465	
	Tone		21	MR44														
440 AC-DC Chassis 32	Vol.		6	SRP263				12-8-6	‡	TN125					4	6K7, 6J7, 25L6, 25Z6G		
610SP, 611SP	Vol.	V2	7	MR19	M26			C219	8/15	TN125/TC22					5	76, 6D6, 6C6, 43, 25Z5, 65R4	456	
612SP	Vol.	X13	18	MR48	M26			C227	8/15	TN125/TC22					5	6A7, 6D6, 75, 43, 25Z5, L49B	456	
615SQ	Vol.	V13	18	MR48	M26			C214	27	2S556					5	6A7, 6D6, 75, 43, 25Z5	456	
	Tone	V105	‡	MR48														
620XP	Vol.	V16	7	G	6			C224	‡	3S584	B8				5	6A7, 6D6, 76, 43, 25Z5, 65R4	456	

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
622XF	Vol.	V13	62	MR48	M26			C221	4	2S567					7	6A7, 6D6, [2]76, 6AB6G, 6G5, 80	456	
	Tone	V105	22	MR39				8	13	TC71								
630P	Vol.	V6	6	MR28	M26	EX200		C219	8	UR182					4	6D6, 6C6, 43, 25Z5, L80B		
716SQ	Vol.	V13	18	MR48	M26			5	15	TC22					6	6A7, 6D6, 75, 43, 6U5, 25Z5, 140R8	456	
717SF	Vol.	V13	18	MR48	M26			6-20-8	8	UR182								
								5	15	TC22								
								20	8	ST599					6	6A7, 6D6, 75, 43, 6U5, 25Z5, 140R8	456	
								12	8	TC44								
								8	8	ST595								
								5	15	TC22								
723XF	Vol.	V13	62	MR48	M26			C221	4	2S567					7	6A7, 6D6, [2]76, 6AB6G, 6G5, 80	456	
	Tone	V105	22	MR39				8	13	TC71								
803, (1935, 1936)	Vol.		18	UM154-SS14				4-4	4	TCS71			294	C3	6	[2]6D6, 6A7, 75, 42, 84	456	
								.01		Buffer	B14							
818SF	Vol.	V13	45	MR48	M26			C226	6	TC48					7	6A7, 6D6, 76, 6Q7G, 25B5, 25Z5, 6G5	456	
	Tone	V105	22	MR39				C200	6	TC45								
								C204	13	TC42								
824XF	Vol.	V13	18	MR48	M26			C221	4	2S567					7	6A7, 6D6, 75, 76, [2]42, 80, 6U5	456	
	Tone	V106	106	MR39				10	15	TC22								
								8	13	TC71								
831SP	Vol.	V13	18	MR48	M26			C227	8/15	TN125/TC22					6	6A7, 6D6, 75, 43, 25Z5, 6U5, L80B	456	
1501	Vol.		15	MR48				8	3	RS213					15	6L7, [2]6K7, [2]6C5, [2]6H6, [2]6V6, 5Y4, 6G5	456	
	Tone		‡	MR50				20	3	RS216								
								10	15	TC32								
								20	15	TC26								
								8	13	ST595								
COAST TO COAST																		
A14	Vol.		‡	NN				3	3	See Note	B7				7	[2]37, 42, 82		§3-3
83	Vol.		15	MR48				8, 8	3	RS213								
								8, 8, 8	‡	RS213					6	[2]56, 83, [2]46		§3-4
								10	15	TC22								
								4-4-4	14	See Note	B3							
56-2'59-2'81	Vol.		15	MR48				2-2-4	3	See Note	B7				7	[2]59, [2]50, [2]81, 56		§3-4
	Tone		41	MR44														
525	Vol.		7	D				8-8-8	3	3S584					9	[2]35, [2]24, [2]27, [2]47, 80		4-1
	Tone		41	MR39														
D3008	Vol.		16	MR48				16-4	24	See Note	B3				7	[2]37, [2]2A3, [2]82-83		4-2
								4	13	See Note	B3							
								4-4	1	See Note	B3							
								5	15	TC22								
D3031	Vol.		16	MR48				12-12	9	2S569	B11				5	37, [2]43, [2]25Z5		4-3
	Tone		65	MR48				8-4	14	2N516	B3							
								5	15	TC32								
4978	Vol.		15	MR44				2-2-2	3	See Note	B7				6	24, 45, [2]50, [2]81		4-4
	Tone		41	MR44														
COLONIAL—Also See Sears Roebuck.																		
31AC	Hum		37	C30P				8-8-8	3	3S584					7	[2]26, [2]27, [2]71A, 80		1-10
31DC	Fil.		‡	M20B											7	[2]26, [2]71A		1-8,9
32AC	Vol.	4473P	24	GK				1445P	3	3S584					8	[2]24, 27, [2]45, 80		1-14
Cavalier, Picadilly, Moderne 32 DC	Vol.	4473P	24	GK											7	[2]24, 27, [2]45		1-11-14
33, 34, 35								8-8	1	2N518					7	[2]24, 27, [2]45, 80		1-15
36								D4758P	1	RS213					6	[2]24, [2]45, 80		1-19
36P								D4758P	1	RS213					6	[2]24, [2]45, 80		1-19
37								R5731A	4	RS216					7	[2]35, 24, [2]45, 80		2-7
37P								R5734A	4	RS216					7	[2]35, 24, [2]45, 80		2-9,10
38								D4758P	1	RS213					6	[2]24, [2]45, 80		2-11
39								4758P	4	RS213					5	[2]24, 45, 80		1-18
41, 42								R5734A	4	RS216					6	[2]35, 24, [2]45, 80		1-18
41P								R5734A	1	RS216					6	[2]35, 24, [2]45, 80		2-16
44	Vol.	R6025A	6	H7		1		4758P	4	RS213					6	[2]24, 35, 47, 27, 80	175	2-21,22
46 (Midget)	Vol.	R6172	7	H			A14	R6122	1	2N518					4	35, 24, 47, 80		2-23
47, 48	Vol.	R6025A	6	H7		1		D4758P	4	RS213					8	[2]35, 24, 27, [2]47, 80	175	2-26
49 (Midget)								4758P	4	RS213					5	[2]35, 24, 47, 80		2-30
50 (AVC)	Vol.	R6242	7	H	6			D4758P	4	RS213					10	[2]35, 27, 24, [2]47, 80	175	2-32
51	Tone		21	MR48	M26			D4758P	25	RS213					8	[2]35, 24, [2]27, 47, 80	175	3-1
52	Vol.		6	H		1		D4758P	4	RS213					7	[2]35, 27, 24, 47, 80	175	3-2
	Tone		21	MR48														
55								R6645	1	ST595					4	24, 27, 35, 80	1000	3-6
56	Vol.		15	MR48				8	12	TC71					7	[2]32, [2]30, 33	175	3-8,9
	Tone		57	MR48				5	17	TC22								
62	Vol.		6	H7	6			8	25	RS213					7	57, [2]58, 56, 24, 47, 80	175	3-10
	Tone		57	MR48				4	13	See Note	B3							
65	Vol.		29	U	6										4	[2]34-32, 32, 33, Bal.		3-15
69	Tone		22	MR48				8	12	TC52					7	[2]32, [2]30, 33, Bal.	175	3-17
								20	19	TC26								
71	Supp.		7	W	6			D4758P	2	RS213					12	[2]58, [2]57, 56, [2]46, 83	175	3-19,22
	Tone		34	MR48														
73	Vol.		6	H7	6	1		D4758P	23	RS213					6	57, 58, [2]24, 47, 80	175	3-23

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
COLONIAL— Continued																		
76	Vol.		6	MR21	M26			14	4	RS216					9	‡57, 58, 56, ‡46, ‡80	175	3-25
	Tone		57	MR48				D4758P	4	RS213								
								16	13	TC65								
106B	Vol.		17	MR48				UE115	1	TC71			292	C3	7	‡36, 39, 85, ‡41, 84	175	4-7,8
	Tone		44	MR48				R7917	17	TC26								
								.02		Buffer	B14							
114								8	1	RS213					6	‡35, 24, ‡45, 80		1-19
117								D4758P	1	RS213					6	‡24, ‡45, 80		2-11
125								4758P	4	RS213					5	‡24, 45, 80		1-18
136	Vol.	9151	6	MR21	M26			R9150	29	TCS44/TC44					4	78, 77, 43, 25Z5		4-13
								5	15	TC22								
150	Vol.	R9721	18	MR48	M26			R8837	1	2N518			271	C3	4	6A7, 78, 75, 41	480	4-15,18
								R9144	15	TC22								
164	Vol.		17	Order from	Mfr.			R9743	1	2N518			Order from Mfr.		6	‡78, 6A7, 6B7, 41, 84	175	5-3
	Tone		22	MR48				R9144	15	TC22								
								.01-.01		Buffer	B14							
164B	Vol.	R9710	18	Order from	Mfr.			R9743	1	2N518		R9723	296	C3	5	78, 6A7, 6B7, 41, 84	175	5-3,7
	Tone	R9711	22	MR48				R9144	15	TC22								
								.01-.01		Buffer	B14							
182	Vol.	R9710	17	Order from	Mfr.			R9780	4	2S567					6	78, 6A7, 6F7, 6B7, ‡41	175	5-10
	Tone	R9711	44	MR48					15	TC22								
250	Vol.	R8059	68	D12	6			R8053	9	3S584	B19				5	6A7, 6B7, 77, 43, 25Z5	175	4-22
								R8058	15	TC22								
250AC	Vol.	R8059	68	D12	6			R8247	23	2S567					5	6A7, 6B7, 77, 41, 84	175	4-27
250AC (Ex. Range)	Vol.	R8747	18	MR48	M26			R8749	23	TC71					5	6A7, 78, 75, 41, 84	175	4-31
								R8748	23	TC52								
250-300 AC-DC	Vol.	R8564	18	MR48	M26			R8053	29	TCS44/TC52	B123				5	6A7, 78, 75, 43, 25Z5	175	4-29
279 (A)	Vol.	R8059	68	D12	6			R8053	9	3S584	B49				5	6A7, 6B7, 77, 43, 25Z5	175	4-22
								R8058	15	TC22								
279AC	Vol.	R8059	68	D12	6			R8247	23	2S567	B33				5	6A7, 6B7, 77, 41, 84	175	4-27
279 (B)	Vol.	R8059	68	D12	6			R8053	29	TCS44/TC52	B123				5	6A7, 6B7, 77, 43, 25Z5	175	4-23
								R8058	15	TC22								
300 (A)	Vol.	R8059	68	D12	6			R8053	9	3S584	B49				5	6A7, 6B7, 77, 43, 25Z5	175	4-22
								R8058	15	TC22								
300 (B)	Vol.	R8059	68	D12	6			R8053	29	TCS44/TC52	B123				5	6A7, 6B7, 77, 43, 25Z5	175	4-23
								R8058	15	TC22								
300AC, 301AC	Vol.	R8059	68	D12	6			R8247	23	2S567					5	6A7, 6B7, 77, 41, 84	175	4-27
300 (Ex. Range)	Vol.	R8747	18	MR48	M26			R8749	23	TC71					5	6A7, 78, 75, 41, 84	175	4-31
								R8748	23	TC52								
301 (A)	Vol.	R8059	68	D12	6			R8053	9	3S584	B49				5	6A7, 6B7, 77, 43, 25Z5	175	4-22
								R8058	15	TC22								
301 (B)	Vol.	R8059	68	D12	6			R8053	29	TCS44/TC52	B123				5	6A7, 6B7, 77, 43, 25Z5	175	4-23
								R8058	15	TC22								
T345, C399	Vol.		6	MR21				D4758P	23	RS213					6	39, ‡36, ‡89, 80	175	3-30
	Tone		57	MR48														
T397	Vol.	R6762	6	MR21			A14	D4758P	23	RS213					6	‡58, ‡24A, 47, 80	175	3-31
	Tone	R6454	21	MR48														
400	Vol.		19/7	Order from	Mfr.			R8624	23	RS213					6	‡78, 6A7, 85, 41, 84	175	4-36
	Tone		57	MR53														
C495	Vol.	R6762	6	MR21			A14	D4758P	23	RS213					6	‡58, ‡24A, 47, 80	175	3-31
	Tone	R6454	57	MR48														
500 (A)	Vol.	R8059	68	D12	6			R8053	9	3S584	B49				5	6A7, 6B7, 77, 43, 25Z5	175	4-22
								R8058	15	TC22								
500 (B)	Vol.	R8059	68	D12	6			R8053	29	TCS44/TC52	B123				5	6A7, 6B7, 77, 43, 25Z5	175	4-23
								R8058	15	TC22								
501	Vol.	R9234	18	MR48	M26		A88	R8053	29	TCS44/TC52	B123				5	6A7, 78, 75, 43, 25Z5	175	4-43
	Tone	R9235	21	MR48				R9229	29	TC62								
501AC	Vol.	R9277	18	MR48	M26		A88	R9345	23	ST595					5	6A7, 78, 75, 41, 84	175	4-15
	Tone	R9235	57	MR48				R9344	23	ST595								
C595	Vol.		15	MR53				R8624	23	RS213					8	‡58, 56, 27, 47, 80	175	3-36
	Tone		21	MR48	M26													
600, 600A	Vol.	R9296	18	MR51				R7236	23	RS219					6	‡78, 6A7, 85, 41, 80	175	4-49
	Tone	R6571	22	MR48	M26			D4758P	23	RS213								
601	Vol.	R8679	18/7	DRP317				R7236	23	RS219					10	‡78, 6A7, 37, 75, ‡45, 83	175	4-53
								D4758P	23	RS213								
	Tone	R6570	106	MR48				R9237	13	TC62								
602	Vol.		15	MR48				R7236	23	RS213					12	6A7, ‡78, ‡6B7, ‡37, ‡2A3, 83, 56	175	5-15
	Tone	R6570	44	MR48				R9344	13	ST595								
	Sen.	R7240	7	H				R8718	13	TC52								
603	Vol.		18	MR48				D4758P	23	RS213					6	‡78, 41, 75, 42, 80	480	5-19
	Tone		107	MR48														
604	Vol.	R10648	18	MR48				R7236	23	RS219					8	‡78, 6A7, 75, ‡47, 80, 37	445	5-21
	Tone	R10740	107	MR53				R8488	23	RS213								
								R9237	13	TC62								
605	Vol.		18	MR48	M26			8, 8	23	RS213					7	‡78, 41, 37, 75, 47, 80	175	6-1
	Tone		22	MR48														
650	Vol.	R6571	18	MR48	M26			R4758P	23	RS213					5	6A7, 78, 75, 41, 80	175	5-25
	Tone	R9865	107	MR48				R7236	23	RS219								
651	Vol.		18	MR48	M26			R8744	23	ST595					5	6A7, 78, 75, 41, 84	480	5-27,28
								R8748	23	TC52								
652	Vol.		18	MR48	M26			R8624	23	RS213					5	6A7, 78, 75, 42, 80	480	5-29
								8	13	TC71								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
COLONIAL — Continued																		
653	Vol.		6	D7			A14	D4758P	23	RS213					5	6A7, 78, 37, 41, 80	480	5-31
654	Vol.	R8059	7	D	M26			R10689	24	2N516					5	6A7, 78, 37, 38, 1V	480	5-33
655	Vol.		18	MR48	M26			8, 8	23	RS213					6	[2]78, [2]41, 75, 84	480	5-35
656	Vol.	R10742	18	MR48				D4758P	23	RS213					6	[2]78, 41, 75, 42, 80	175	5-37
	Tone	R10648	‡	MR48	M26													
657	Vol.		18	MR48	M26			R10601	29	TCS52/TCD52					5	6A7, 78, 75, 43, 25Z5	480	5-40,41
658	Vol.		18	MR48	M26			D4758P	23	RS213					6	[2]78, [2]41, 75, 80	480	5-43
	Tone		107	MR48				8	23	RS213								
659	Vol.		29	U				R10673	13/19	2N516/TC22					6	[2]951, 30, 32, 33	480	5-45,46
	Tone		34	MR48														
662	Vol.	R10604	18	MR48	M26			R9204	23	RS213					5	6A7, 78, 75, 41, 84	480	6-2
								R8748	23	TC52								
C695	Vol.		15	MR53				D4758P	23	RS213					10	[3]58, [2]56, 27, [2]47, 80	175	3-37
	Tone		57	MR48														
700, 701, 702	Vol.	R8996	18	MR48	M26			R9397	29	ST595					5	6A7, 78, 75, 43, 25Z5	175	4-57
700AC, 701AC, 702AC	Vol.	R9396	18	MR48			A88	R8624	23	RS213					5	6A7, 78, 75, 41, 84	175	4-62
								R9204	23	RS213								
C995	Tone		22	MR48				B7236	7	RS219					12	[3]58, 24, [2]57, [4]46, [2]82	175	3-41
								8	7	RS213								
1580	Vol.		6	117				8, 8	25	RS213					7	57, [2]58, 56, 24, 47, 80	175	
	Tone		57	MR48				4	13	TC70								
COLUMBIA PHONO. CO.																		
C1, C2, C3, C4	Vol.		14	MR39				2-2-2	3	See Note	B1				7	[4]26, 27, 71A, 80		1-1,2
C5 (205)	Vol.		14	MR39				3-2-2	3	See Note	B1				9	[5]26, 27, 50, [2]81		1-3
C5 (310)	Vol.		14	MR39				3-4-4	3	See Note	B1				9	[5]26, 27, 10, [2]81		1-3
C6, C7	Vol.		14	MR39				‡	‡	See Note	B1				6	[5]01A, 71A		1-4
31, 33	Vol.		8	A5MP	6	1		1-4-2	25	See Note	B1				5	[2]51, 24, 47, 80		2-1,2
								.055		See Note	B9							
C33, C34	Vol.		7	G				2-2	25	See Note	B1				7	[2]51, 24, 27, 47, 80		2-3
								8	25	RS213								
								.08		See Note	B9							
C80A	Vol.		15	MR44				8-8-10	25/15	3S579					8	[3]58S, 56, 4-S, 47, 82	175	3-2
	Tone		22	MR33	M26													
C80B	Vol.		15	MR44				8-8-10	25/15	3S579					8	[3]58S, 56, 4-S, 47, 82	175	3-3
	Tone		22	MR33	M26													
C90, A, B	Vol.		15	MR44				7489	2	TC74					11	[3]58S, 56, [2]57S, [2]47, 82, 4S	175	3-7,9
	Supp.		12	MR24				7278	13/14	TCD52	B54							
	Tone		22	MR44	M26			7402	15	TC22	B54							
								7784	15	TC26	B54							
C100	Vol.		15	MR44				8-8-8	3	3S584					8	[4]24, 27, [2]45, 80		3-10
120B	Vol.		43	GG											6	30, [4]32, 33	175	3-11
C800	Vol.		15	MR44				8-8-10	25/15	3S579					8	[3]58S, 56, 4-S, 47, 82	175	3-4
	Tone		22	MR33	M26													
900, 901	Vol.		87	‡		See Note A5		3-4	1	See Note	B7				4	26, 10, [2]81, 876		1-4
902	Vol.		63	‡		See Note A5		3-4	1	See Note	B7				6	[2]27, [2]50, [2]81		1-5
930-300	Vol.		63	‡		See Note A5		3-4	1	See Note	B7				4	26, 10, [2]81		1-7
931	Vol.		63	‡		See Note A5		3-2	1	See Note	B7				3	26, 50, 81		1-7
940	Vol.		40	MR24				2-1-.5	3	See Note	B1				8	[2]27, [2]45, 80		2-4
950, 961	Vol.		40	MR18				3-2-2	3	See Note	B7				7	[4]26, 27, 50, 81		1-8,9
	Phono.		63	‡		See Note A5												
980	Vol.		14	MR39				1-1-1	3	See Note	B1				12	[4]26, [2]27, 80, [2]50, [2]81		1-10
	Phono.		63	‡		See Note A5		3-4	1	See Note	B7							
COLUMBIA RADIO CORP.																		
SG5 ('30)	Vol.	848	7	MR37				2-1	1	See Note	B1				5	[2]24, 45, 80		3-1
SG8	Vol.		69	F7	8		A8	2-2-2	3	See Note	B1				8	[2]24, [2]27, [2]45, 80		1-2
SG9	Vol.		25	MR18	M26		A20	8-8-8	3	See Note	B3				9	[2]24, [2]27, [2]45, 80		3-3
	Tone		41	MR48														
SG10	Vol.		7	MR37		See Note	A10	2-2.5-2.5	3	See Note	B1				10	24, [2]27, [2]45, 80		3-4
COLUMBIA RECORDING CORPORATION																		
D1	Vol.		50	MR48	M26			30-20-20	24/15	FP306					1	70L7GT		13-2
D3	Vol.		50			See Note	A5	60	24	TC50					3	12SF5, 50L6, 50Y6		13-2
								30, 30	24/13	TC47								
								10, 10	15	TC22								
P1, P2, P3	Vol.		50	MR55	M26			30-20-20	24/15	FP306					1	70L7GT		13-1
	Tone		‡	MR55														
T1, T2	Vol.		50	MR48	M26			16, 16	1	TC74					3	6SF5, 6L6G, 80		13-1
	Tone		22	MR48				20	15	TC26								
COMET—See Air King																		
COMMONWEALTH																		
150	Vol.		17	MR48	M26			5-18-7	11	UR182	B31				5	6A7, 6D6, 75, 43, 25Z5	456	§5-5
CONSOMELLO																		
8 in line	Vol.		10	D7				‡	3	See Note	B3				8	[4]26, 27, 71A, 80		§6-4

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CONTINENTAL																		
(Slagle) 9 ('71A)								2-4-2	3	See Note	B1				10	[7]27,[7]71A, 80		1-1
(Slagle) 10, A, B, ('71A)								2-4-2	3	See Note	B1				11	[8]27,[7]71A, 80		1-2
29A, 29B								2-4-2	3	See Note	B7				12	[8]27,[7]50,[8]81		1-4
(Slagle) 29C ('71)	Phono.		63	MR35				2-4-2	3	See Note	B7				11	[8]27,[7]71A, 80		1-3
29C, 29B ('50)	Phono.		63	MR35				2-4-2	3	See Note	B7				12	[8]27,[7]50,[8]81		1-3,5
"Star Raider" R20, R30, R40								2-4-1-2	37	See Note	B7				11	[7]84,[7]85,[8]81, VR		1-6
A2	Vol.	P934	18	MR48	M26			8-4	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5W4	456	11-2
	Tone	P943	34	MR39														
A3	Vol.	P934	18	MR48	M26			8-4	32	2N518					6	6A7, 6D6, 76, 75, 42, 80	456	
	Tone	P943	34	MR39				4	32	TC70								
A4	Vol.	P2600	18	MK401	M27			P2602	19	TC26					4	1A7, 1N5, 1H5, 3Q5	455	11-3
A5	Vol.	P3720	18	MK402	M27			P3024	12	TC42					5	1A7GT, 1P5GT, 1N5GT, 1H5GT, 1Q5GT	455	12-1,2
A6	Vol.	P3930	18	MK401	M26			P3935	1	FP211					6	[2]12SK7,12SA7,12SQ7, 50L6, 35Z5	455	11-15
A7	Vol.	P4089	64	TM231-SS22	M26			P4130	1/15	FP339					7	[3]6SK7, 6SA7, 6SQ7,		
	Tone	P4193	22	Order from	Mfr.			P1992	25	RS223						6K6G, 5Y3G	455	12-12
A10	Vol.	P5152	18	DTM289-SS25	M26			P4372	1	TCD75					10	[4]6SK7, 6SA7, [3]6SQ7, [3]6K6, 5Y3	455	13-7,8
A11	Vol.	P4349	124	Order from	Mfr.			P4372	25/13	2S569					12	6AB7, 6SA7, [3]6SK7, 6SQ7, [2]6J5GT, [3]6F6G, 6AF6, 5U4G	455	12-15-17
A11-PH	Vol.	P4349	124	Order from	Mfr.			P4371	25	RS223					12	6AB7, 6SA7, [3]6SK7,		
								P4372	25/13	2S569						6SQ7, [3]6J5GT, [3]6F6G, 6AF6, 5U4G	455	12-15-17
A31	Vol.		18	MR48				8-4	23	2S567	B33				5	6A7, 6D6, 75, 42, 80	456	7-1
A77	Vol.	P4089	64	TM231-SS22	M26			P4264	1/15	FP444	B69				7	[3]6SK7, 6SA7, 6SQ7,		
	Tone	P4193	22	Order from	Mfr.											6K6G, 5Y3G	455	12-22
AM3	Vol.		17	UM154			A96	8	3	RS213					8	[3]6K7, 6A8, 6Q7, 6L6,		
	Tone		22	UM161			A96	8-4	3	2S567						6G5, [3]5W4	456	
								4	13	TC42								
								5	15	TC22								
AM4	Vol.	P1158	15	MRT436	M26			P1156	1	RS223					12	6A8, [4]6K7, 6H6, 6C5,		
	Vol.	P1166	15	MRT440	M26		A4	P1155	1	RS216						[3]6L6, 6G5, [3]5W4	456	11-8
	Tone	P1159	44	MR33				P1154	13	RS224								
	Tone	P1167	44	MR33			A4	P304	15	TC22								
AM6	Vol.		17	UM154			A96	8	3	RS213					10	[3]6K7, 6A8, 6Q7, [3]6L6,		
	Tone		22	UM161			A96	8-4	3	2S567						6G5, [3]5W4	456	
								4	13	TC42								
								5	15	TC22								
AM7	Vol.	P1158	15	MRT436	M26			P1156	1	RS223					11	[3]6K7, 6A7, 6H6, [3]6C5,		
	Tone	P1159	44	MR33				P1155	1	RS216						[3]6F6, 5Z3, 6G5	456	11-20
	Vol.	P1166	15	MRT440	M26		A4	P1154	13	RS224								
	Tone	P1167	44	MR33			A4	5	15	TC22								
AM8	Vol.	P1158	15	MRT436	M26			P1154	14	RS224					19	[4]6K7, 6A8, 6H6, 6C5,		
	Vol.	P1166	15	MRT440	M26		A4	P1155	3	RS216						[5]5W4, 6G5, 85, 6D6,		
	Tone	P1159	22	MR33				P1043	13	TC71						42, [4]45, 83V, 80	456	11-22
	Tone	P1167	22	MR33			A4	P1156	2/3	RS223								
	Bass Tone	P1211	‡	MR48				P304	15	TC22								
								P950	13	2N518								
AW11								P2821	24	2N509					2	6A7, 25Z5		10-19
B1	Vol.	P912	18	MR48	M26			P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	11-1
B3	Vol.	P405	18	MR48	M27			P958	1	2N518		P1101	245	C3	4	1C6, 34, 1B5, 1F4	456	
B4	Vol.	P2600	18	MK401	M27			P2602	19	TC26					4	1A7, 1N5, 1H5, 3Q5	455	11-3
B5	Vol.	P3746	18	MK401	M26			P3792	16	TN129					5	12A8, 12SK7, 12SQ7, 50L6, 35Z5	455	11-10
B6	Vol.	P5167	18	DTM283-SS25	M26			P5022	1	2N520					6	12SJ7, 12SA7, 12SK7, 12SQ7, 35L6, 35Z5	455	13-5
B7	Vol.	P4089	64	TM231-SS22	M26			P4264	1/15	FP444	B69				7	[3]6SK7, 6SA7, 6SQ7,		
	Tone	P4531	22	MK401												6K6G, 5Y3G	455	12-13
B11	Vol.	P4349	124	Order from	Mfr.			P4372	25/13	2S569					12	6AB7, 6SA7, [3]6SK7,		
	Mike	P4350	15	UM140-SS25	M28			P4371	25	RS223						[3]6SQ7, 6J5GT, [3]6F6GT, 6SR7, 6U5, 5U4G	455	12-17-20
C5	Vol.	P3746	18	MK401	M26			P3355	24	2N511					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	455	11-3
C6	Vol.	P5049	140	TM231-SS25	M26			P4130	1/15	FP339					6	6SA7, [3]6SK7, 6SQ7,		
	Tone	P5058	140	MK401												6K6GT, 6X5GT	455	13-6
C7	Vol.	P5702	20	TM243	M26		A96	20-20-12	1/15	FP339					7	6SA7, 7A7, [3]6SQ7,		
	Tone	P5600	22	UM154			A96	8	13	TC42						6J5GT, 6K6GT, 6X5GT	455	14-7
CW13	Vol.	P3584	63	MK402	M26			P3585	24	3N533					2	12A8GT, 70L7GT	1575	11-9
D4	Vol.	P4309	18	MK402	M27			P3024	12	TC42					4	1A7, 1N5, 1H5, 1A5	455	12-3
D5, XD5	Vol.	P3746	18	MK401	M26			P3355	24	2N511					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	455	12-4
E4	Vol.	P4916	18	UM154	M27		A96	P2602	19	TC26					4	1A7, 1N5, 1H5, 3Q5	455	
E6	Vol.	P4231	18	UM154	M26		A96	P4224	1/15	FP360		P4221	246A	C3	6	6D8G, 6S7G, 6T7G,		
								.015		Buffer	B14					6G6G, 6L5G, 6X5GT	455	12-9

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CONTINENTAL—Continued																		
F4	Vol.	P4916	18	UM154	M27		A96	P2602	19	TC26					4	1A7, 1N5, 1H5, 3Q5	455	
F5	Vol.	P3961	18	UM161-SS18	M27			P3971	‡	FP409					5	1A7, 1N5, 1H5, 3Q5, 117Z6	455	11-10
G4	Vol.	P4612	18	UM161	M27		A96	P4667	12	TC44					4	1R5, 1T4, 1S5, 1S4	455	
G5	Vol.	P4612	18	UM161	M27		A96	P4589	29/‡	Order from	Mfr.				5	1R5, 1T4, 1S5, 3S4, 35Z5GT	455	
G6	Vol.	P3961	18	UM161-SS18	M27			P3971	‡	FP409					6	[2]1N5, 1A7, 1H5, 3Q5, 117Z6	455	11-15
H5	Vol.	P3961	18	UM161-SS18	M27			P3971	‡	FP409					5	1A7, 1N5, 1H5, 3Q5, 117Z6	455	12-5
J5, XJ5	Vol.	P4060	18	UM154	M26		A96	P4212	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-6
J6, XJ6	Vol.	P4060	18	UM154	M26		A96	P3531	1/15	3N527					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5, BT1000	455	12-10
J55, XJ55, XJ55PH	Vol.	P4060	18	UM154	M26		A96	P4212	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-21
K5	Vol.	P4089	18	TM231-SS22	M26			P4130	1/15	FP339					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	12-7,8
K6	Vol.	P4089	‡	TM231-SS22	M26			P4130	1/15	FP339					6	6SA7, [2]6SK7, 6SQ7, 6K6G, 5Y3G	455	12-11
K7	Vol.	P4089	18	TM231-SS22	M26			P4130	1/15	FP339					6	6SA7, 6SK7, [2]6SQ7, 6K6GT, 5Y3G	455	12-14
K63	Vol.	P4089	‡	TM231-SS22	M26			P4130	1/15	FP339					6	6SA7, [2]6SK7, 6SQ7, 6K6G, 5Y3G	455	13-2
L2	Vol.		18	Order from	Mfr.			4	32	RS213					6	6A7, 6K7, 6H6, 6F5, 6F6, 80	456	6-2
L4, ML4	Vol.		18	Order from	Mfr.			4	7	RS213					7	6A8, 6K7, 6H6, 6A6, [2]6F6, 80	456	6-1
	Tone		44	MR39	M26			8-4	7	2N518								
								5	15	TC22								
"Admiral" L5	Vol.	P660	18	MR48	M26			P474	32	RS213					7	5Z4, 6F5, 6F6, 6H6, 6K7, 6L7, 6C5	456	7-3,4
	Tone	P661	34	MR39				P160	32	2S567	B81							
								P304	15	TC22								
L5 (Late)	Vol.	P5167	18	DTM283-SS25	M26			50-30	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	14-3
"Admiral" L6	Vol.	P660	18	MR48	M26			P474	32	RS213					8	5Z4, 6C5, [2]6F6, 6K7, 6L7, [2]6Q7	456	7-5,6
	Tone	P661	44	MR39				P160	32	2S567	B81							
								P304	15	TC22								
"Admiral" L7	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, 19, [3]30, [3]34	456	7-7
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
M1	Vol.	P660	18	MR48	M26			P160	1	2S567	B26				6	6A8, [2]6K7, 6Q7, 6F6, 5Y3	456	7-9
	Tone	P661	34	MR39														
M5	Vol.	P1142	18	MR48	M27			8-8	1	2N518		P402	245C	C3	7	1C6, [3]34, [3]30, 19	456	11-12
	Tone	P1058	22	MR53				.01-.01		Buffer	B14							
M5, M5-PH (1941 Issue A)	Vol.	P4060	18	UM154	M26		A96	P4683	77	2N520					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	
M5	Vol.	P5198	18	DTM289	M26		A96	50-30	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	13-3,4
ML156, ML266	Vol.		18	Order from	Mfr.			4	32	RS213					6	6A7, 6K7, 6H6, 6F5, 6F6, 80	456	6-2
	Tone		34	MR53	M26			8-4	32	2S567	B81							
N6	Vol.	P4089	18	TM231-SS22	M26			P4130	1/15	FP339					6	6SA7, [2]6SK7, 6SQ7, 6K6GT, 5Y3G	455	14-5
	Tone	P4531	139	MK401														
N6 (Late)	Vol.	P3701	20	TM243-SS25	M26			20-20-12	1/15	FP339					6	6SA7, 6SQ7, 6SK7, 6J5GT, 6K6GT, 5Y3	455	14-5
	Tone	P4531	‡	MK401				8	13	TC42								
P5, XP5	Vol.	P4820	18	UM161	M27		A96	P4831	‡	TC2501					5	1A7, 1N5, 1H5, 3Q5, 117Z6	455	14-4
								P4860	‡	FP309								
P6, XP6	Vol.	P4820	18	UM161	M27		A96	P4860	‡	FP309					6	[2]1N5, 1A7, 1H5, 3Q5, 117Z6	455	14-6
P6, XP6 (Late)	Vol.	P4820	18	UM161	M27		A96	40-30-100	76	FP309					6	[2]1N5, 1A7, 1H5, 3Q5, 117Z6	455	14-6
"Admiral" U6	Vol.	P801	17	UM163-SS3	M26			P795	4	TCS71		P816	294	C3	6	6D6, 6A7, 6K7, 75, 6F6, 84	456	7-11
	Tone	P828	22	MR39				G864	15	TC22								
X8	Vol.	P630	18	MR48	M26			P160	1	2S567	B26				5	6A7, 6D6, 75, 42, 80	456	7-11
X541	Vol.		18	MR48				18-6	6	2N509					6	6A7, 6D6, 75, [3]43, 25Z5	456	6-4
								5	15	TC22								
X641, X741	Vol.		45	MR48				8-8	1	2N516		P402	245C	C3	6	1C6, 34, [3]30, 32, 33	456	7-2
								.01-.01		Buffer	B14							
XA3	Vol.	P5141	50	MK403	M26			P4932	1	TCD48					3	12SQ7, 50L6GT, 35Z5GT		13-1
XA6	Vol.	P3930	18	MK401	M26			P3935	1	FP211					6	[2]12SK7, 12SA7, 12SQ7, 50L6, 35Z5	455	11-15
XB5	Vol.	P3746	18	MK401	M26			P3792	46	TN129					5	12A8, 12SK7, 12SQ7, 50L6, 35Z5	455	11-10
XB6	Vol.	P5167	18	DTM283-SS25	M26			P5022	1	2N520					6	12SJ7, 12SA7, 12SK7, 12SQ7, 35L6, 35Z5	455	13-5
XC5	Vol.	P3746	18	MK401	M26			P3355	24	2N511					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	11-3
XF5	Vol.	P3961	18	UM161-SS18	M27			P3971	‡	FP409					5	1A7, 1N5, 1H5, 3Q5, 117Z6	455	11-10
XG6	Vol.	P3961	15	UM161-SS18	M27			P3971	‡	FP409					6	[2]1N5, 1A7, 1H5, 3Q5, 117Z6	455	11-15

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CONTINENTAL—Continued																		
XL5	Vol.	P5167	18	DTM283-SS25	M26			50-30	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	14-3
XM5	Vol.	P5198	18	DTM289	M26		A96	50-30	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	13-3,4
XP5	Vol.	P4820	18	UM161	M27		A96	50-30-100	76	FP309					5	1A7, 1N5, 1H5, 3Q5, 117Z6	455	14-4
								100	78	TC2501								
Z2	Vol.	P630	45	MR48	M26			P160	1	2S567	B26				6	6A7, 6D6, 6H6, 6F5, 42, 80	456	7-13
	Tone	P633	34	MR39														
Z3	Vol.	P934	45	MR48	M26			8-4	1	2S567	B26				6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	456	
	Tone	P995	34	MR39														
"Admiral" Z4	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 34, 30, 32, 19 or 33	456	7-15
	Tone	P682	34	MR39				.01-.01		Buffer	B14							
"Admiral" Z5	Vol.	P691	45	Order from	Mfr.			P958	1	2N518		P402	245C	C3	6	1C6, 19, 30, 32, 34	456	8-3
	Tone	P692	44	MR39				.01-.01		Buffer	B14							
4A	Vol.	P2600	18	MK401	M27			P2602	19	TC26					4	1A7G, 1N5G, 1H5G, 1C5G	456	10-1
4B	Vol.	P2610	18	MR48	M27			P2602	19	TC26					4	1A7G, 1N5G, 1H5G, 1C5G	456	
4C	Vol.	P3161	18	Order from	Mfr.			P2602	19	TC26					4	1A7G, 1N5G, 1H5G, 1C5G	456	11-4
4D (Early & Late)	Vol.	P3015	18	MK401	M27			P3024	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G or 1Q5G	456	10-3
4D-PH	Vol.	P3015	18	MK401	M27			P3024	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	10-3
4F	Vol.	P3317	18	MK401	M27			P3024	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-7
4H	Vol.	P2498	6	MR36	M26			P2434	1	TC47					4	6K7, 6J7, 25L6, 25Z6		10-3
								P2500	1	TC44								
4J	Vol.	P3317	18	MK401	M27			P3024	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-4
4Z	Vol.	P3317	18	MK401	M27			P3024	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-9
5A	Vol.	P2392	18	MR53	M26			P2397	23	2S567	B33				5	6A7, 6D6, 75, 41, 5Y3G	456	9-1
5AZ	Vol.		18	MR53	M26			5-5	23	RM262					5	6A7, 6D6, 75, 41, 80	456	9-2
5B	Vol.	P3082	18	MR48	M26			P3086	1/15	3S579					5	6A7, 6D6, 75, 41, 80	456	10-5
5C	Vol.	P2213	6	MR36	M26			P2216	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, L55GB		9-3
5C-PH	Vol.	P2213	6	MR36	M26			P2216	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, L55GB		
5CU	Phono.	P2442	63	Order from	Mfr.													
	Vol.	P2213	6	MR36	M26			16-16	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, L55BG		10-5
5D, 5DL	Vol.	P3099	18	MR48	M26			P2936	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5, L49B	456	10-4
5E	Vol.	P2432A	18	MR48	M26		A58	P2434	25	TC47					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	9-4
5EA	Vol.	P2432A	18	MR48	M26		A58	P2427	25	TC44								
								P2668	1	2N513					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	10-4
5F	Vol.	P2450A	18	MR48	M26			P2456	23	TC71					5	6A7, 6D6, 75, 41, 80	456	9-5
5G	Vol.	P2450	6	MR33	M26			P2456	25	TC71					5	6D6, 76, 6C6, 41, 80	456	9-6
5J	Vol.	P2432A	18	MR48	M26		A58	25-10	1	2N513					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	10-1
5L, 5LL, 5LL (Phono.)	Vol.	P2935	18	MR48	M26			P2936	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5, L49B	455	10-7
5LS	Vol.	P2935	18	MR48	M26			25-25-5	1/13	TN129					5	6A7, 6D6, 75, 25L6G, 25Z6G	456	11-11
5M	Vol.	P1579	18	MR48	M26			P1591	23	2S567					5	6A7, 6D6, 75, 41, 80	456	8-1
5N, 5NL	Vol.	P3560	18	UM161-SS22	M27			P3563	1	2N511					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 70L7GT	455	11-13
								P3562	19/‡	TC29								
5Q, 5QL	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N511					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-7
5R, 5RL	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N511					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-14
5S, 5SL	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N511					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-14
5VU	Vol.	P1579	18	MR48	M26			4-8	23	2S567	B33				5	6A7, 6D6, 75, 41, 80	456	9-7
5X	Vol.	P1579	18	MR48	M26			8-4	23	2S567	B33				5	6A7, 6D6, 75, 41, 80	456	8-2
5Z	Vol.	P1515	18	MR53	M26			P1511	23	RM262					5	6A7, 6D6, 75, 41, 80	456	8-3
6A	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P1414	859	C3	6	6D8G, 6S7G, 6T7G, 6L5G, 6G6G, 6ZY5G	456	10-8
	Tone	P2137	34	MR39	M27			015		Buffer	B14							
6B	Vol.	P2271	18	Order from	Mfr.			10-5	23	2S567					6	6A7, 6D6, 75, 76, 41, 80	456	10-9
	Tone	P2093	‡	MK401	M26													
6C	Vol.		18	UM154			A96	8-8-5	1/15	3S579					6	6L5G, 6D8G, 6S7G, 6T7G, 6G6G, 6Z5YG	456	10-11,10
	Tone		34	UM140	M26		A96											

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CONTINENTAL—Continued																		
6D	Vol.	P2271	18	Order from	Mfr.			P2251, .015	1	2N516 Buffer	B14	P1414	859	C3	6	6A8G, 6J5G, 6U7G, 6Q7G, 6G6G, 6ZY5G	456	9-7
6G	Vol.	P2558	18	MR48	M26			P2575	25	TC72					6	6A7, 6D6, 76, 75, 41, 80	‡	10-12
	Tone	P2559	22	MR48														
6H	Vol.	P1555	18	MR48	M26			‡	23	See Note	B3				5	6A7, 6D6, 75, 25B6G, 25Z5	456	9-9
6J, 6JL	Vol.	P3099	18	MR48	M26			P2936	1	TC47					6	6A7, 6D6, 75, 25L6, [2]25Z5	455	11-16
	Tone	P3279	22	MR48														
6K	Vol.	P3082	18	MR48	M26			P3086	1/15	TCD62/TC26					6	6A7, 76, 6D6, 75, 41, 80	456	10-13
6L	Vol.	P1555	18	MR48	M26			P1561	4	TCS45					5	6A7, 6D6, 75, 25B6G, 25Z5	456	9-10
6M, 6ML	Vol.	P3527	18	MK401	M26			20-20-20	1/15	3N533					6	[2]12SK7, 12SA7, 12SQ7, 35L6, 35Z5	455	11-16
	Tone	P3528	22	MK401														
6P	Vol.	P1677	18	MR48	M27			P958	1	2N518		P402	245C	C3	6	6D8G, 6S7G, 6T7G, [2]30, 19	456	8-5
	Tone	P1764	44	MR39				.01-.01		Buffer	B14							
6PU	Vol.	P1677	18	MR48	M27			P958	1	2N518		P402	245C	C3	6	6D8G, 6S7G, 6T7G, [2]30, 19	456	9-11
	Tone	P1764	44	MR39				.01-.01		Buffer	B14							
6Q	Vol.	P1579	62	MR48	M26			10	19	TC22					5	1A6, [2]1A4, 30, 1G5G, 1B1	‡	8-4
	Tone	P1642	22	MR39														
6W	Vol.	P1579	18	MR48	M26			P1591	23	2S567					6	6A7, 6D6, 75, 6H5, 41, 80	456	8-7
	Tone	P1642	22	MR39														
6Y	Vol.	P1555	18	MR48	M26			P1561	27	TCS45					5	6A7, 6D6, 75, 25B6G, 25Z5, L49BJ	456	8-8
7A	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P2147	859	C3	7	6D8G, 6L5G, 6S7G, 6T7G, 6G6G, 6ZY5G, 6AB5	456	9-12
	Tone	P2137	34	MR39	M27			.015		Buffer	B14							
7B	Vol.	P3099	18	MR48	M26			P2936	1	2N509					7	6A8G, 6K7G, 6Q7G, 25L6G, [2]25Z6G, 6P5G	455	
	Tone	P3279	22	MR48														
7BS	Vol.	P3099	18	MR48	M26			25-25-5	46	TN129					7	6A8G, 6K7G, 6P5G, 6Q7G, 25L6G, [2]25Z6G	455	
	Tone	P3279	22	MR48														
7C	Vol.	P3335	18	MK401	M26			10-10	1	FP231					7	6A7, 6D6, 75, 76, [2]41, 80	455	11-17
	Tone	P3337	22	MK401														
7C-PH	Vol.	P3335	18	MK401	M26			10-10	1	FP231					7	6A7, 6D6, 76, 75, [2]41, 80	455	11-18
	Tone	P3337	22	MK401														
7G	Vol.	P2558A	18	MK401	M26			P2575	25	TC72					7	6A7, 76, 6D6, 75, 41, 6G5, 80	456	9-13
	Tone	P2559A	22	MK401														
7H	Vol.	P3335	18	MK401	M26			P3419	1	FP231					7	6A7, 6D6, 75, 76, [2]41, 80	455	11-17
	Tone	P3337	22	MK401														
7H-PH	Vol.	P3335	18	MK401	M26			P3419	1	FP231					7	6A7, 6D6, 75, 76, [2]41, 80	455	11-19
	Tone	P3337	22	MK401														
7J	Vol.	P1677	18	MR48	M27			P958	1	2N518		P402	245C	C3	7	6K8G, 6S7G, 6AB5, 6T7G, [2]30, 19	456	8-9
	Tone	P1764	34	MR39				.01-.01		Buffer	B14							
7K	Vol.	P3099	18	MR48	M26			20-20	1	2N509					7	6A8G, 6K7G, 6P5G, 6Q7G, 25L6G, [2]25Z6G	455	
	Tone		22	MR48				20	15	TC26								
7KS	Vol.	P3099	18	MR48	M26			25-25-20	1/15	3N533					7	6A8G, 6K7G, 6P5G, 6Q7G, 25L6G, [2]25Z6G	455	
	Tone		22	MR48														
7M	Vol.	P1749	139	MRT427	M26			4-16	23	3S584	B8				7	6A7, 6D6, 76, 75, [2]6U5, 42, 80	456	8-10
	Tone	P1750	139	UM160-SS1				10	19	TC22								
7MU	Vol.	P1749	139	MRT427	M26			16-4	23	3S584	B8				7	6A7, 6D6, 76, 75, 6U5, 42, 80	456	8-11
	Tone	P1750	139	UM160-SS1				10	19	TC32								
8A	Vol.	P2659	18	TM233-SS25	M26			P2631	1	2S569					8	6A7, [2]76, 6D6, 75, [2]41, 80	456	10-15,16
8C	Vol.		18	UM154	M26		A96	10-10	1	FP231					8	6A7, 6D6, 75, 76, [2]41, 80, 6U5	455	11-23
	Tone		22	UM154			A96											
8K	Vol.	P1821	140	MRT436	M26			P1825	1/13	3S584					8	6A7, 6D6, 75, [2]76, [2]42, 80	456	8-13
	Tone	P1822	140	UM160-SS1				P1873	15	TC22								
8KU	Vol.	P1821	140	MRT436	M26			6-6-2	46	3S584					8	6A7, 6D6, [2]76, 75, [2]42, 80	456	8-15
	Tone	P1822	140	UM160-SS1				10	15	TC22								
8T	Vol.	P1821	140	MRT436	M26			20-25	1	2N513					7	6A7, 6D6, 75, 76, [2]43, 25Z5, 17AJ	456	9-14
	Tone	P1822	140	UM150-SS1				10	15	TC22								
8TU	Vol.	P1821	140	MRT436	M26			20-25	1	2N513					7	6A7, 6D6, 75, 76, [2]43, 25Z5, 17AJ	456	9-15
	Tone	P1822	140	UM160-SS1				10	15	TC22								
9G	Vol.	P1916	140	MRT440	M26			P1971	1	3S584	B8				9	6A7, 6D6, [2]76, 75, [2]42, 80	456	9-16
	Tone	P1917	140	UM160-SS1				P1983	15	TC22								
11A	Vol.	P2705	20	MRT451				P1939	1	2N518					11	6A8G, [2]6K7G, [2]6J5G, [2]6F6G, 5Z3	456	10-17,18
	Tone	P2706	‡	UM160-SS1				P1937	13	RS223								
11B, 11B-PH	Vol.	P3471	45	MK401				P1993	25	RS223					11	6A8G, [2]6K7G, [2]6J5G, [2]6F6G, 5Z3	455	11-24
	Tone	P3472	‡	Order from	Mfr.			P3478	25/14	FP238								
11S	Vol.	P1916	140	MRT440	M26			P1937	1	RS223					11	6A8, [2]6K7, 6J7, [2]6J5, [2]6F6, 5Z3	456	8-17,18
	Tone	P1917	140	UM160-SS1				P1939	1/13	2N518								
16R	Vol.	P1989	18/15	Order from	Mfr.			P1993	30	RS223					16	[2]6K7G, 6L7G, [2]6H6G, [2]6J5G, 6J7G, [2]6L6G, [2]5Z3	456	9-17,20
	Tone	P1990	41	MR44				P1994	30	RS215								
	Bass	P1991	15	MR48				P1992	30	RS223								
								P1997	13/14	2N518								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CONTINENTAL—Continued																		
16S	Vol.	P1989	45/15	Order from	Mfr.			25	30	RS223					16	[4]6K7G, 6L7G, [3]6H6G, 6F8G, 6J7G, [3]6J5G, [3]6L6G, [5]Z3	456	10-20
	Bass	P1991	7	MR48				12	30	RS215								
								25	30	RS224								
								4-4	13/14	2N518								
28G5	Vol.	P4706	18	UM161-SS18				P4589	24/‡	Order from	Mfr.				5	1R5, 1T4, 1S5, 3S4, 35Z5	455	
29G5	Vol.	P4706	18	UM161-SS18				P4589	24/‡	Order from	Mfr.				5	1R5, 1T4, 1S5, 3S4, 35Z3	455	14-10
55	Vol.	P2321	18	UM154-SS3	M26			P2329	23	TCS71		P1414	859	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	9-21
61	Vol.		18	MR48				.006		Buffer	B14				5	6A7, 6D6, 75, 42, 80	456	
62B7	Vol.	P4089	18	TM231-SS22	M26			8-4	23	2S567	B33				7	[3]6SK7, 6SA7, 6SQ7, 6K6G, 5Y3G	455	12-2, 13,16
	Tone	P4531	22	MK401				P4264	1/15	FP444	B69							
66	Vol.	P801	17	UM163-SS3	M26			P1293	4	2S567	B33	P1414	859	C3	6	[3]6D6, 6A7, 75, 41, 84	175	9-22
	Tone	P828	22	MR39				P1312	15	TC22								
								.0075		Buffer	B14							
69	Vol.	P1371	18	UM154-SS3	M26			P1293	23	2S567		P1414	859	C3	6	[3]6K7, 6A8G, 6Q7G, 6K6G, 6X5G	175	9-23
	Tone	P828	22	MR39				.0075		Buffer	B14							
77	Vol.	P1371	45	UM154-SS3	M26			P1293	23	2S567	B33	P1414	859	C3	7	6D6, 6A7, 6K7, 6H6, 6C5, 6V6G, 84	175	8-20
	Tone	P1388	22	Order from	Mfr.			.0075		Buffer	B14							
78	Vol.	P1371	45	UM154-SS3	M26			P1293	23	2S567		P1414	859	C3	7	6D6, 6A7, 6K7, 6H6, 6C5, 6V6G, 84	175	8-20
	Tone	P1388	22	Order from	Mfr.			.0075		Buffer	B14							
88	Vol.	P1408	17	UM161-SS12	M26			6-8	1	2N518			294	C3	8	6D6, 6A7, 6K7, 6R7, 6C5, [3]6V6G, 0Z4	175	9-24
	Tone	P1388	22	Order from	Mfr.			.0075		Buffer	B14							
319-4Z	Vol.	P3317	18	MK401	M27			P3024	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-9
382-7H-PH	Vol.	P3335	18	MK401	M26			P3419	1	FP231					7	6A7, 6D6, 75, 76, [4]41, 80	455	11-19
	Tone	P3337	22	MK401														
440	Vol.		6	MR29	M26	EX200		233	8	UR193	B124				4	6K7, 6J7, 25L6, 25Z6G		
660	Vol.	P801	17	UM163-SS3	M26			P1293	4	2S567		P1414	859	C3	6	[3]6D6, 6A7, 75, 41, 84	175	9-22
	Tone	P828	22	MR39				P1312	15	TC32								
								.0075		Buffer	B14							
770	Vol.	P1371	45	UM154-SS3	M26			P1293	23	2S567		P1414	859	C3	7	6D6, 6A7, 6K7, 6H6, 6C5, 6V6G, 84	175	8-20
	Tone	P1388	22	Order from	Mfr.			.0075		Buffer	B14							
780	Vol.	P1371	45	UM154-SS3	M26			P1293	23	2S567		P1414	859	C3	7	6D6, 6A7, 6K7, 6H6, 6C5, 6V6G, 84	175	8-20
	Tone	P1388	22	Order from	Mfr.			.0075		Buffer	B14							
880	Vol.	P1408	17	UM161-SS12	M26			6-8	1	2N518			294	C3	8	6D6, 6A7, 6K7, 6R7, 6C5, [3]6V6G, 0Z4	175	9-24
	Tone	P1388	22	Order from	Mfr.			.0075		Buffer	B14							
ML156, ML266	Vol.		18	Order from	Mfr.			4	32	RS213					6	6A7, 6K7, 6H6, 6F5, 6F6, 80	456	6-2
	Tone		34	MR53	M26			8-4	32	2S567	B81							
137X, 150X, 171X	Vol.		18	MR48				8-4	23	2S567	B33				6	6A7, 6D6, 75, [42], 80	456	6-3
4207-B12	Vol.		124	‡		See Note	A19	‡	1	See Note	B3				12	[3]6AB7, 6SA7, [3]6SJ7, 6H6G, 6U5G, 7F7, [3]6K6, 5U4G	455 Kc AM 4.3 Mc FM	14-8,9
CORD																		
A255	Vol.	38425	15	UM162-SS12				W38473A	1	2N518		5041245	273C		5	6D6, 6A7, 6B7, 76, 6B5	262	
A455	Vol.	38425	126	UM162-SS12				38473A	1	2N518		5041245	273C		5	[3]6D6, 6A7, 6B7, 6B5	262	
CORONA																		
108	Vol.		18	MR48				16-16	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5	456	9-1
	Tone		34	MR33														
110	Vol.		18	MR44				12-4	23	3S584	B8				5	6A7, 6D6, 75, 42, 80	456	7-1
	Tone		34	MR33														
203	Vol.		6			See Note	A3	2010	1/15	4S715					4	6D6, 6C6, 43, 25Z5, K55C		9-2
209	Vol.		138			See Note	A3	2012	23	3S584	B8				6	6A7, 6D6, 76, 6F5, 42, 80	456	9-3
210	Vol.		138			See Note	A3	2012	23	3S584	B8				7	6A7, 6D6, 76, 6F5, 42, 80, 6G5	456	9-4
212	Vol.	2417	45	MR48	M26			8-8	1	2N518		5113	246	C3	6	1C6, 1A4, [3]30, 1B4, 19	‡	8-1
214	Vol.		45	MR48	M26			8-8	1	2N518		5113	246	C3	7	1C6, 1A4, [3]30, 1B4, 19	‡	8-2
406	Vol.		98	‡		See Note	A5	‡	24	See Note	B3				4	6D6, 6C6, 38, 12Z3		7-2
								5	15	TC22								
CORONADO—See Gamble-Skogmo																		
"CRANE", (American Radiator Co.																		
23T8 LW	Vol.		15	MR48				8, 8	4	ST595					8	[2]58, [3]56, 57, 47, 80	177.5	§5-6
	Tone		22	MR33														
CROSLEY																		
Buddy, Chum	Vol.		7	A400P				W4943	24	2N518					6	[2]24, [2]71A, 80, 27		1-17
AC7, AC7C	Vol.		29	A550P				15-15-5	3	3S584					6	[99], 12A, BII		1-18
A150	Vol.	51660	18	MB53	M26			W51139	24/15	FP332		G15-38000	Order from Mfr.		5	6A8GT, 6SK7, 6SQ7, 6K6GT, 0Z4	455	12-33,34
								.0065		Buffer	B14							

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
A155	Vol.	W30436A	45	UC514	6			W32759	1	RS213	B130	LB32037	247	C3	5	1278, 6F7, 6B7, 42	181.5	
								W32802	1/15	2S567								
								.005		Buffer	B14							
A156	Vol.	W37256	56	UM162-SS5				W37020	4	TCS71		G3-38000	859	C3	5	6A7, 6B7, 6D6, 42, 84	262.5	7-1
								.005		Buffer	B14							
A157	Vol.	W50042	18	MR53	M26			W50160	23	2S567			294	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	8-1,2
								.01		Buffer	B14							
A158	Vol.	50526	18	MR53	M26			W50528	23	2S567		G10-38000	859	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	9-1-3
								.0065		Buffer	B14							
A160	Vol.	51712	18	Order from	Mfr.			W51782	24/15	FP328		G18-38000	859	C3	6	26SK7, 6A8GT, 6SQ7, 6V6GT, 0Z4	455	12-35-37
								.0065		Buffer	B14							
A166	Vol.	38425	17	UM162-SS5				W38427	1/15	3S579		G7-38000	273C		6	6D6, 6A7, 6B7, 76, 41	262	7-3
								W32904	‡	TC26								
								W38430	‡	TC22								
A167	Vol.	W38989	45	TM222-SS3				W50045A	1	2N518		G6-38000	853	C3	6	26K7G, 6A8G, 6B8G, 6N6G, 6X5G	262	8-3
								.005		Buffer	B14							
A168	Vol.	50526	18	MR53	M26			W50674	24	FP231		G10-38000	859	C3	6	6A8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 6X5G	455	9-5
								.0065		Buffer	B14							
A169	Vol.	W51117	18	Order from	Mfr.			W51139	24/15	FP332		G10-38000	859	C3	6	6SA7, 26SK7, 6SQ7, 6K6GT, 6X5GT	455	11-1,2
								.0065		Buffer	B14							
A177	Vol.	W50056	17	TM252-SS12				W50076A	1/15	3S579		G6-38000	853	C3	7	26K7G, 6A8G, 6R7G, 26V6G, 6W5G	262	8-5,6
								W38430	15	TC22								
								.006		Buffer	B14							
A250	Vol.	51711	18	UM154	M26		A96	W51139	24/15	FP332		G15-38000	Order from Mfr		5	6A8GT, 6SK7, 6SQ7, 6K6GT, 0Z4	455	12-37,38
								.0065		Buffer	B14							
A255	Vol.	38425	17	UM162-SS5				W38473A	1	2N518		G7-38000	273C		5	6D6, 6A7, 6B7, 76, 6B5	450	
A258	Vol.	50526	18	MR53	M26			W50528	23	2S567		G10-38000	859	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	9-1
								.0065		Buffer	B14							
A259	Vol.	51198	18	MR53	M26			W51139	24/15	FP332		G10-38000	859	C3	5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	11-3
								.0065		Buffer	B14							
A266	Vol.	38785	15	UM147-SS14				W38786	4	2S567		G6-38000	859	C3	6	26D6, 6A7, 6B7, 42, 84	262	7-5
								.005		Buffer	B14							
A267	Vol.	50056	124	TM252-SS12				W50194	23	2S567		G10-38000	859	C3	6	26K7G, 6A8G, 6Q7G, 6K6G, 0Z4	262	9-7
								.01-.01		Buffer	B14							
A268	Vol.	50526	18	MR53	M26			W50674	24	FP231		G10-38000	859	C3	6	6A8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 6X5G	455	9-5
								.0065		Buffer	B14							
A350	Vol.	51198	18	MR53	M26			W51139	24/15	FP332		G15-38000	Order from Mfr.		5	6A8GT, 6SK7, 6SQ7, 6K6GT, 0Z4	455	12-33,34
								.0065		Buffer	B14							
A355	Vol.	38425	17	UM162-SS5				W38473	1	2N518		G7-38000	273C		5	6D6, 6A7, 6B7, 76, 6B5	450	
A358	Vol.	50526	18	MR53	M26			W50673	24	FP332		G10-38000	859	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	9-9
								.0065		Buffer	B14							
A366	Vol.	38840	20	TM242-SS14				W38427	1/15	3S579		G7-38000	273C		6	6D6, 6A7, 6B7, 76, 41	262.5	7-7
	Tone	38824A	39	MR44				W38430	15	TC22								
A450	Vol.	50526	18	MR53	M26			W51139	24/15	FP332		G15-38000	Order from Mfr.		5	6A8GT, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	12-33,34
								.0065		Buffer	B14							
A455, A555	Vol.	38425	127	UM162-SS5				W38473	1	2N518		G7-38000	273C		5	26D6, 6A7, 6B7, 6B5	450	
A459	Vol.	51313	18	MR53	M26			W51139	24/15	FP332		G16-38000	859	C3	5	6A8, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	
								.0065		Buffer	B14							
A559 (Roamio)	Vol.	50526	18	MR53	M26			51278	24/15	FP332		G15-38000	Order from Mfr.		5	6A8GT, 6SK7, 6SQ7, 6Y6GT, 6X5	455	
B36BS	Vol.	130990	18	MR53	M27			W45783	12	TC45					4	1A7GT, 1N5GT, 1H5GT, 1T5GT	455	
C33CA	Vol.	130262	140	MRT438	M26			20-20-20	1/15	FP339					6	6SA7, 26SK7, 6SQ7, 6K6GT, 5Y3G	455	14-9
	Tone	130749	140	MR57				16	13	TC74								
	Mic.	130579	‡	MR53	M26													
CA12 (Chassis 60)	Vol.	44773	140	MRT438	M26			30-20	1	See Note	B3				11	26SK7, 6SA7, 26J5GT, 6SQ7, 26AC5G, 5Y3G	455	13-6,7
	Tone	131853	140	MR57														
CB82R (Chassis 28)	Vol.	47783	140	MRT438	M26			49773	1/13	FP380					8	6A8GT, 26SK7, 6SQ7, 6J5GT, 26K6GT, 5Y3G	455	13-35,36
	Tone	130741	140	MR57														
	Mic.	130602	‡	MR57	M26													
CR26								W131607	24	TCD45					2	12A8, 35Z4		13-8-10
J11	Vol.	49774	18	MR53	M26			49664	1	2N509					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	455	12-3
J12	Vol.	49774	18	MR53	M26			49664	1	2N509					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	455	12-4
	Tone	49779	21	MR48														
J13	Vol.	49774	18	MR53	M26			49664	1	2N509					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	455	12-5,6
J14	Vol.	49774	18	MR53	M26			49664	1	2N509					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	455	12-5,6
J15	Vol.	49774	18	MR53	M26			49664	1	2N509					5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-7
J16	Vol.	49774	18	MR53	M26			49664	1	2N509					5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-8
	Tone	49779	21	MR48														
J18	Vol.	49774	18	MR53	M26			48664	1	2N509					5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-9,10
J30BC	Vol.	47783-A	140	MRT438	M26			49773	46	FP390					7	6A8GT, 6SK7, 6SQ7, 6J5GT, 26K6GT, 5Y3G	455	12-28
	Tone	130741	140	MR57														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY — Continued																		
J35	Vol.	49774	18	MR53	M26			49664	1	2N509					5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-31
J539	Vol.	46124	18	MR53	M26			47702	25	TC47					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5	455	
								45783	25	TC45								
J739	Vol.	47858	45	MR53	M26			47702	9	TC47					7	6A8GT, 6SK7, 6P5, 6SF5, 25L6, [2]25Z6, 48669	455	11-35
	Tone	48181	‡	MR48				48596	9	FP211								
J819 (5Y3G Rect.)	Vol.	48242	18	‡			A19	47809	1/13	FP357					8	6K8, [2]6SK7, 6SQ7, [2]25L6, [2]5Y3	455	11-38, 10,41
								46128	1	TC55								
J5519	Vol.	48217	18	MR53	M26			46398	1	2N509					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5	455	11-41,42
J5529	Vol.	48217	18	MR53	M26			46398	1	2N509					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5	455	11-41,42
J5539	Vol.	46124	18	MR53	M26			47702	25	TC47					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5	455	
								45783	25	TC45								
J7739	Vol.	48019	18	‡			A19	48596	9	FP211					7	6A8GT, 6SK7, 6P5, 6SF5, 25L6, [2]25Z6	455	11-35
	Tone	48020	‡	MR48				47702	9	TC47								
O2CA, O2CB (Chassis 55)	Vol.	132299-2	124	TM257-SS1	M26			132301-2	1	TC75/TC77					10	[2]6SK7, 6SA7, 6SQ7, [2]6J5GT, [2]6AC5G, 5Y3G	455	13-1-3
O2CP, O2CQ (Chassis 70)	Vol.	132299-2	124	TM257-SS1	M26			132301-2	1	TC75/TC77					10	[2]6SK7, 6SA7, 6SQ7, [2]6J5GT, [2]6AC5G, 5Y3G	455	13-4.5
O3CA, O3CB, O3CC, O3CP, O3CQ, O3CR (Chassis 95)	Vol.	B132299-3	124	TM257-SS1	M26			W134060-1	1/15	FP339					10	[2]6SK7, 6SA7, 6SQ7, 6J5GT, [2]6K6GT, 5Y3GT	455	14-1,2
TA62, TA62W (Chassis 63)	Vol.	49774	18	MR53	M26			49664B	1	TCD45					5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6	455	13-26,27
TH52, TH52W, TH52J (Chassis 65, 65JW)	Vol.	49774	18	MR53	M26			49664	1	TCD45					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	14-22
TK52, TK52W (Chassis 64)	Vol.	49774	18	MR53	M26			49664B	1	TCD45					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	13-17-19
2C1 (Sampler)	Vol.	34698B	6	MR48	M26		A14	W34704A	24/15	3N527					2	6F7, 12A7		6-1
4A1	Vol.	32712B	18	UC514	6			W32759	1	RS213	B130	LB32037	247	C3	4	6F7, 6B7, 6D6, 42	456	5-17
								W30419A	13/15	2N518								
								.005		Buffer	B14							
4B1 Batt. (Forty)	Vol.	33922A	70	MR20	M23										4	[2]1A6, 34, 33	456	6-2
5A1	Vol.	W30436	73	UC514	6			W31631B	1	ST597		L31629	222	C2	5	[2]78, 6B7, 41	181.5	5-47
								W30419A	1/15	2N518								
								.01		Buffer	B14							
5A3 (Roamio)	Vol.	W30436A	45	UC514	6			W32759	1	RS213	B130	LB32037	247	C3	5	[2]78, 6F7, 6B7, 42	181.5	6-3
								W32802	1/15	2S567								
								.005		See Note	B14							
5B3 (Batt. Fiver)	Vol.	W32649	70	MR20	M23	EX2M									5	[2]1A6,[2]34, 33	456	6-5
5M3 (Fiver Jr.)	Vol.	W26573B	6	E7	6	2		W29150B	1/15	FP389					5	[2]6D6, 76, 42, 80	456	5-20
5V1 (Deluxe Fiver)	Vol.	32441A	17	MR53	M26			W30059C	4/14	3S584					5	6A7, 6D6, 6B7, 42, 80	181.5	5-21
5V2 (Fiver Deluxe)	Vol.	33556	17	MR53	M26			W30059C	4/14	3S584					5	6A7, 6D6, 6B7, 42, 80	181.5	6-6
6B1 (Batt. Six)	Vol.	W32062	45	MR53				W34898	1	RS213		L33345	247	C3	6	[2]15, 6A7, 30, 38	456	6-7
	Tone	W32063	22	MR37	M26			W34899	13	RS213								
								W34896	1/13	TC74/2N516								
								.005		Buffer	B14							
6H2 (61, 61LB)	Vol.	W28552	17	MR57				W26194B	4	RS215					6	6A7, 6D6, 6B7, 76, 42, 80	456	5-34
	Tone	W25594B	22	MR37	M26			W29097C	4/14	FP389								
6H3	Vol.	28552	17	MR57				W26194B	4	RS215					6	6D6, 6A7, 6B7, 76, 42, 80	456	6-18
	Tone	25594B	22	MR37	M26			W27097D	4/14	FP389								
6V2 (Dual Sixty)	Vol.	W30610	56	MR53				B30059B	4/13	3S584					6	[2]58, 2A7, 55, 2A5, 80	181.5	5-29,31
	Tone	W30836	22	MR37	M26													
7 (Converter)								W23701	1	RS213					4	[2]24, 27, 80		2-1
7H2 (72, 72LB)	Vol.	W32062	56	MR53				W29097C	4/13	FP389					7	[2]58, 2A7, 2B7, 2A5, 80	456	5-38
	Tone	W32063	22	MR37	M26			W26194B	4	RS215								
7H3 (72, 72LB)	Vol.	W32062	56	MR53				W26194B	4	RS215					7	[2]6D6, 6A7, 6B7, 6F7, 42, 80	456	5-41
	Tone	W32063	34	MR37	M26			W29097C	4/14	FP389								
7V2 (Dual Seventy)	Vol.	W25666B	17	MR57				W26194B	1	RS215					7	[2]58,[2]56, 2A5, 80	181.5	
	Tone	W25594B	22	MR37	M26			W29150B	15/24	FP389								
8B3	Vol.	W34095	45	MR53				W33990	12/13	RM262					8	[2]34, 1C6,[2]30, 31, 19	456	6-10
	Tone	W33993A	22	MR37	M24													
8H1 (80, 80LB)	Vol.	W33378	56	MR53				W26194B	1	RS215					8	[2]6D6, 6A7, 6B7, 6F7, [2]42, 80	456	5-46
	Tone	W32063	149	MR37	M26			W29097C	3	FP389								
								W32258	13	ST595								
10								W27676	1	2N516					3	77,37		4-1
10 (1940)	Vol.	48320	6	MR33	M26		A14	49664	1	2N509					4	6SK7GT, 6J7GT, 25L6GT, 25Z6GT, W46416		12-1,2

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY — Continued																		
11	Vol.	49774	18	MR53	M26			49664	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-3
12	Vol.	49774	18	MR53	M26			49664	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-4
	Tone	49779	21	MR48														
13, 14	Vol.	49774	18	MR53	M26			49664	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-5,6
15	Vol.	49774	18	MR53	M26			49664	1	2N509					5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-7
16	Vol.	49774	18	MR53	M26			49664	1	2N509					5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-8
	Tone	49779	21	MR48														
18	Vol.	49774	18	MR53	M26			48664	1	2N509					5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-9,10
20, 21, 22 (Batt.)	Vol.	W6254	6	T		See Note A22									6	§22, §01A, 71A		1-19
20	Vol.	130044	18	MRT438	M26			49794	1/15	FP339					5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	455	12-11,12
21	Vol.	130262	140	MRT438	M26			49794	1/15	FP339					5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	455	12-11,12
	Tone	130263	140	MR57														
22AS (1940)	Vol.	130262	18	MRT438	M26			130577	1/15	FP339					5	6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	12-13,14
22CA, 22CB, 22CP (Chassis 59)	Vol.	132564-1	124	Order from	Mfr.			132673-2	15	TCD26					12	§6SA7, 6AC7, §6SK7, 6SJ7, 6H6, 6SQ7, 6AH7GT, §6V6, 5U4G	AM 455 Kc FM 13.7 Mc	14-5
								132571-1	13	FP330	B192							
								132570-1	1	FP238	B117							
23	Vol.	130262	140	MRT438	M26			49794	1/15	FP339					5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	455	12,11,12
	Tone	130263	140	MR57														
24	Vol.	47783A	140	MRT438	M26			49773	1/13	FP390					7	6A8GT, 6SK7, 6SQ7, 6J5, §6K6G, 5Y3G	455	12-15,16
	Tone	130207	140	MR57														
25	Vol.	47783A	140	MRT438	M26			49773	1/13	FP390					7	6A8GT, 6SK7, 6SQ7, 6J5, §6K6GT, 5Y3G	455	12-17,18
	Tone	130207	140	MR57														
26 (Batt.)	Vol.	20114	12	MR39											7	§22, §12A		2-3
26 (1940)	Vol.	130192	140	‡			A19	130246	1/13	FP390					8	6K7GT, 6A8GT, 6SK7, 6SQ7, 6J5, §6F6, 5Y3G	455	12-19-21
	Tone	130207	140	MR57														
26 (Revised)	Vol.	130192	140	Order from	Mfr.			130246	1/13	FP390					8	6K7GT, 6A8GT, 6SK7, 6SQ7, 6J5, §6F6, 5Y3	455	12-20,21
	Tone	130207	140	MR57														
27BD, 27BE	Vol.	49974	18	Order from	Mfr.			49995	24	2N521					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-22
								130404	‡	Order from	Mfr.							
27, 28 (Batt.)	Vol.	24642	4	MR29											6	§32, §31		2-4
28 (1940)	Vol.	47783	124	MRT438	M26			49773	1/13	FP390					8	6A8GT, §6SK7, 6SQ7, 6J5GT, §6K6GT, 5Y3G	455	12-23,24
	Tone	130741	‡	MR57														
	Mike	130602	‡	MR57	M26													
29	Vol.	130192	140	Order from	Mfr.			130246	1/13	FP390					8	6K7GT, 6A8GT, 6SK7, 6SQ7, 6J5GT, §6F6G, 5Y3G	455	12-25
	Tone	130741	140	MR57														
30S, 31S, 33S, 34S	Vol.	7022	7	SRP188				W5253	3	3S584					7	§24, §27, §45, 80		1-20
31, 31BF (1940)	Vol.	130412	17/15	Order from	Mfr.			130358	‡	FP429					10	6K7GT, 6A8GT, 6SK7, §6SQ7, 6J5, §6V6G, 5U4G, 6E5	455	12-27,28
	Tone	130411	‡	MR48				130900	15	TC26								
	Mike	130794	15	MR53				16	‡	TC45								
33BG	Vol.	130262	140	MRT438	M26			130577	1/15	FP339					6	6SA7, §6SK7, 6SQ7, 6V6GT, 5Y3G	455	12-28,29
	Tone	130749	140	MR57				48122	13	TC55								
	Mike	130579	15	MR53	M26													
34BH	Vol.	47783	140	MRT438	M26			130246	1/13	FP390					10	6K7GT, 6A8GT, §6SK7, 6SQ7, 6J5GT, §6K6GT, 5Y3G, 6E5	455	12-30
	Tone	130741	140	MR57														
	Mike	130602	15	MR57	M26													
35AK	Vol.	49774	18	MR53	M26			49664	1	2N509					5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-31
36AM	Vol.	48709	18	MR53	M27			45783	12	TC45					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	455	12-32
38BM	Vol.	49774	18	MR53	M26			49664	1	2N509					5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-31
38 (Field Supply)								W29806A	1	2S569					2	§25Z5		4-1
40S, 41S, 42S	Vol.	W6596B	89	Order from	Mfr.	1st type		W5253	3	3S584					8	§24, §27, §45, 80		1-21
	Vol.	W6596B	90	Order from	Mfr.	2nd type												
	Vol.	W7022B	91	SRP188	3rd type													
41, 41A, 42	Vol.	6352	3	SRP185				W4943	1	2N518					8	§26, 27, §71, 80		1-22
43BT	Vol.	49974	18	Order from	Mfr.			49995	76	2N521					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	14-12
								130404	76	Order from	Mfr.							
43FA (Chassis 104)	Vol.	130520-2	18	MR53	M27			132501-1	12/13/78	Order from	Mfr.				4	1A7GT, 1N5GT, 1H5GT, 1T5GT	455	14-13
43FB (Chassis 91)	Vol.	130520-2	18	MR53	M27			49664-B	24	2N509					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	455	14-14
45 (Chassis 45)	Vol.	131345	18	MR53				131338	13	TC42					4	1R5, 1T4, 1S5, 1S4	455	14-15
48	Vol.	W22198	6	SRP263				W21459	1	RS213					5	§24, 45, 80		3-4
48 (Late), 48BF, 48CB	Vol.	47783-A	140	MRT438	M26			130246	1/13	FP390					10	6K7GT, 6A8GT, §6SK7, 6SQ7, 6J5GT, §6F6GT, 6E5, 5Y3G	455	14-16
	Tone	130741A	140	MR57				48122	13	TC55								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY — Continued																		
49BZ	Vol.	130262 or 130044	140	MRT438	M26			49794	1/15	FP339					5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	455	14-19
	Tone	130263	140	MR57														
50, 50LB (5H1)	Vol.	W25666	18	MR57				W26194B	4	RS215					5	6A7, 6F7, 6B7, 42, 80	456	3-25
	Tone	W25594	22	MR37	M26			W29097C	4 14	FP389								
51 (5C2)	Vol.	W32242	56	MR48	M26T		A58	W31992	11/15	Order from	Mfr.				5	78, 6F7, 6B7, 43, 25Z5	181.5	5-28
52FA, 52FB (Chassis 57)	Vol.	130520-2	149	MR53	M27			132501-1	76	Order from	Mfr.				5	1A7GT, 1N5GT, 1H6GT, 1T5GT, 117Z6GT	455	13-11
52FC (Chassis 90)	Vol.	130520-2	149	MR53	M27			132501-1	24/78	Order from	Mfr.				5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z6GT	455	13-12
52PA (Chassis 67) 52PB (Chassis 71)	Vol.	130520-1	149	MR53	M27			132144-1	76	Order from	Mfr.				5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z6	455	13-13
52TD, 52TD-U, 52TE, 52TE-U (Chassis 77)	Vol.	49774	18	MR53	M26			49664-B	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-14,15
52TF, 52TF-U (Chassis 76)	Vol.	49774	18	MR53	M26			49664-B	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-14,15
52TG (Chassis 74) 52TG-U (Chassis 74U)	Vol.	49774	18	MR53	M26			49664-B	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-16
52TL (Chassis 86)	Vol.	49793-1	18	MRT438	M26			132669-1	1/15	TCD65/TC26					5	6SA7, 6SK7, 6SQ7, 6K6, 5Y3	455	14-24
52TP (Chassis 72)	Vol.	49774	18	MR53	M26			49664-B	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-20
52TQ (Chassis 83)	Vol.	49774	18	MR53	M26			49664-B	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-21
53, 54	Vol.	20558	6	SRP263				W4943	1	2N518					5	§24, 45, 80		1-24
53FA, 53FB (Chassis 105, 106)	Vol.	130520-3	18	MR53	M27			132501-1	76	Order from	Mfr.				5	§1N5GT, 1A7GT, 1H5GT, 1T5GT	455	14-26
53TF (Chassis 73)	Vol.	49793-1	18	MRT438	M26			132669-1	1/15	TCD65/TC26					5	6SA7, 6SK7, 6SQ7, 6K6, 5Y3	455	13-22,23
53TP (Chassis 100)	Vol.	49774	18	MR53	M26			134177-1	1	TCD45					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-27
55	Vol.	20558	2	SRP263				W20156	39	TCS55	.B11				5	§32, 12A, 71A		1-25
								W21292	15	TC26								
56	Vol.	20558	2	SRP263				W20156	39	TCS55	.B11				5	§32, 12A, 71A		1-25
								W21292	15	TC26								
57, 58	Vol.	20558	6	SRP263				W4943	1	2N518					5	§24, 45, 80		1-24,28
59AC	Vol.	W23117	6	E7		2		W23705	4	RS215					5	§35, 24, 47, 80		2-6
								W23701	4	RS213								
60S, 61S, 62S, 63S	Vol.	W7264	12	SRP188				W5253	3	3S584					8	§22,§12A,§71A		1-28
62FA, 62FB (Chassis 58)	Vol.	130520-3	149	MR53	M27			132501-1	76	Order from	Mfr.				6	§1N5GT, 1A7GT, 1H5GT, 1T5GT, 117Z6GT	455	13-24
62PA, 62PB (Chassis 68)	Vol.	130520-1	149	MR53	M27			132144-1	76	Order from	Mfr.				6	§1N5GT, 1A7GT, 1H5GT, 1T5GT, 117Z6GT	455	14-28
62TA, 62TC, 62TD (Chassis 37)	Vol.	132222-1	18	MR48	M26		A106	132226-1	79	TCD48					6	§12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-25
63CA, 63TA (Chassis 110, 111)	Vol.	49793-1	140	MRT438	M26			132669-1	1/15	TCD65/TC26					6	6SA7, 6SK7, 6J5GT, 6SQ7, 6K6, 5Y3	455	14-29,30
	Tone	131547-1	140	MR57														
63FB (Chassis 93)	Vol.	130520-3	149	MR53	M27			132501-1	76	Order from	Mfr.				6	§1N5GT, 1A7GT, 1H5GT, 1T5GT, 117Z6GT	455	13-28
72CA (Chassis 80)	Vol.	49793-1	140	MRT438	M26			132807-1	1/13/15	‡TCD75					7	§6SK7, 6SA7, 6SQ7, 6AD7, 6F6G, 5Y3G	455	13-29,30
	Tone	131547-1	140	MR57														
72CP (Chassis 85)	Vol.	49793-1	140	MRT438	M26			132807-1	1/13/15	‡TCD75					7	§6SK7, 6SA7, 6SQ7, 6AD7, 6F6G, 5Y3G	455	13-31,32
	Tone	131547-1	140	MR57														
72TA (Chassis 79)	Vol.	49793-1	140	MRT438	M26			132807-1	1/13/15	‡TCD75					7	§6SK7, 6SA7, 6SQ7, 6AD7, 6F6G, 5Y3G	455	14-31,32
	Tone	131547-1	140	MR57														
76	Vol.	20304	15	Y250MP				W20156	1	TCS55	.B11				6	§24,§71A		1-29
								W21292A	‡	TC26								
77-1	Vol.	W21675	6	SRP263				W20341A	3	FP434	.B60				7	§24, 27,§45, 80		1-30,31
77A, 77B, 77L	Vol.	W20304	15	Y250MP				W20341A	3	FP434	.B60				7	§24, 27,§45, 80		1-30,31
82CP, 82CQ (Chassis 75)	Vol.	132461-1	140	MRT449	M26			132484-1	1/13	TCD71/TC52					8	§6SK7, 6SA7, 6SQ7, 6J5GT, §6K6GT, 5Y3G	455	13-33,34
	Tone	130741-A	140	MR57				132450-1	15	TC22								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY — Continued																		
82S	Vol.	W6596B	89	Order from Mfr.		1st type		W5253	3	3S584					8	[3]24,[3]27,[3]45, 80		1-21
	Vol.	W6596B	90	Order from Mfr.		2nd type												
	Vol.	W7022B	91	SRP188		3rd type												
83CA, 83CB, 83CC, 83CP, 83CQ, 83TA (Chassis 96)	Vol.	B49793-1	140	MRT438	M26			B132807-1	1/13/15	[2]TCD75					8	[2]6SK7GT, 6SA7GT, 6SQ7, 6J5GT, [2]6K6GT, 5Y3GT.	455	14-33
	Tone	B131547-1	140	MR57														
84	Vol.	W20185	15	Y250MP				W20341	3	FP434	B60				8	[3]24, 27,[3]45, 80		
90 (Roamio)	Vol.	W7877	26	MR33											5	[3]24, 27,[3]42A		1-33
91 (Roamio)	Vol.	W21331	15	Y250MP				W21292A	16	TC26					5	[3]24,[3]42A		3-5
92 (Roamio)	Vol.	W21331	15	Y250MP				W21292B	19	TC26					6	[3]36, 37, 71A		3-6
95 (Roamio)	Vol.	W25781A	15	MR57	M27			W25857B	12/15	TCD62					6	[3]36, 39,[3]37, 41	181.5	3-6
96 (Roamio)	Vol.	W25781	17	MR57	M27			W25857B	12/15	TCD62					6	36,[3]39, 85, 89	181.5	3-7
98	Vol.	28003	17	UM165-SS12	M26			W28068	1	TC74		LB28064	222	C2	5	[3]78, 77, 75, 89	181.5	4-2
	Supp.	28482	7	MR29				W25857B	12/15	TCD62								
								W28406		‡ TC22								
								W26870A	15	TC22								
								.01		Buffer	B14							
99	Vol.	28003	17	UM165-SS12	M26			W28068	1	TC74		LB28064	222	C2	6	77,[3]78, 79, 89, 85	181.5	4-3
	Supp.	28482	56	MR29				W25857B	15/14	TCD62								
	Tone	28131A	44	MR37				W28406		‡ TC22								
								W26870A	15	TC22								
								.01		Buffer	B14							
102	Vol.	W29312A	‡	UM156-SS12	M26			W29808	1	ST595			222	C2	5	[3]78, 6B7, 41	181.5	4-4
								W29809	12/15	TCD62								
103	Vol.	30436	73	UC514	6			W29808	1	ST595		L29160	222	C2	5	[3]78, 6B7, 41	181.5	5-2
								W30419	1/15	2N518								
								.02		Buffer	B14							
104, 104R, 105, 105R, 106 (Pwr. Packs)								10-10-10	3	3S584						80		1-7
117 Power Pack								W44217	1	RS216		W44145	W246	C3				
								W44131	1	RS223								
								.01		Buffer	B14							
119	Vol.	W25666B	15	MR57				W28978B	1	ST597		L28949	Order from Mfr.		6	[3]78, 6B7, 75, 37, 43	181.5	5-5
	Tone	W25594B	22	MR37	M26			W30568A	13, 15	TCS64/TC26								
								.01		Buffer	B14							
120	Vol.	W22242	6	G7	6			W20341A	3	FP434	B60				8	[3]24, 27,[3]45, 80	175	1-34
	Tone	W20185B	22	MR44														
121 Series "A"	Vol.	23259	8	A550P				W23701	1	RS213					10	[3]35,[3]24,[3]27,[3]47, 80	175	2-8
	Tone	22243	44	MR44				W23705	1	RS215								
121 Series "B"	Vol.	W22934A	15	MR44	M26			W23701	3	RS213					10	[3]51,[3]24,[3]27,[3]47, 80	175	2-8
	Tone	W22243A	41	MR44				W23705	3	RS215								
122	Vol.	22597	6	D7	6			W22363	4	ST595					7	[3]35,[3]24, 47, 80	175	2-9
	Tone	22823	22	MR33				W21459	4	RS213								
123	Vol.	W23112	6	A550P	6			W23701	1	RS213					8	[3]35,[3]24,[3]47, 80, 27	175	2-10
	Tone	W22823	34	MR33														
124	Vol.	W23618	6	E7	6	2		W23801	1	TCD71					8	[3]35, 24,[3]27,[3]47, 80	175	2-11
	Tone	W23619	34	MR33														
124-1	Vol.	W25179A	6	E7		2		W24312	1	RS213					8	[3]35, 24,[3]27,[3]47, 80	175	3-9
	Tone	W25594	44	MR37	M26			W23701	1	RS213								
125	Vol.	W23618A	6	E7	6	2		W23801	1	TCD71					5	35,[3]24, 47, 80	175	2-13
	Tone	W23619	22	MR33														
126	Vol.	W23637	92	A550P	6			W20156	1	TCS55	B11				7	[3]36, 37,[3]71A	175	2-14
	Tone	W22823	44	MR33				W21292B	‡	TC26								
126-1	Vol.	W24271	92	A550P	8			W20156	1	TCS55	B11				7	[3]36, 37,[3]71A	175	2-14
	Tone	W24416	31	MR44				W24282	‡	TC26								
127	Vol.	W24416	15	MR44				W23701	3	RS213					10	[3]35, 24,[3]27,[3]47, 80	175	2-15
	Tone	W24441	41	MR44	M26			W23705	3	RS215								
127-1	Vol.	W24416	15	MR44				W23701	3	RS213					10	[3]35, 24,[3]27,[3]47, 80	175	3-11
	Tone	W25400	44	MR37	M26			W23705	3	RS215								
128	Vol.	W24405A	71	SRP262	14	5		W24282	19	TC26					8	[3]32,[3]30,[3]31	175	3-12
	Tone	W24416	44	MR44														
129	Vol.	W25179A	6	E7		2		W25542	1	TCD71					6	24, 58, 57,[3]42, 80	181.5	3-13
	Tone	W25400	44	MR37	M26			W24779	13	TC71								
129-1	Vol.	W26121	6	SRP262		2		W26118	1	TCD71					6	24, 58, 57,[3]42, 80	181.5	3-14
	Tone	W25400	44	MR37	M26			W26119	13	TCD62								
130	Vol.	W25367	23	DRP232				W25462	1	ST595					9	[3]58, 57,[3]56,[3]42, 80	181.5	4-5
	Tone	W25400	44	MR37	M26			W26119	24	TCD62								
130-1	Vol.		23	DRP232				8-8	1	2S567					9	[3]58, 57,[3]56,[3]42, 80	181.5	4-6
	Tone		44	MR37	M26			W26119	13	TCD62								
131	Vol.	W25284A	6	SRP262	6	2		W24342	1	RS213					4	24, 35, 47, 80	175	3-12
								W23701	1	RS213								
								W25303	16	TC22								
132-1	Vol.	W25367	23	DRP232				W26194B	3	RS215					12	[3]58,[3]56,[3]42,[3]46, 82	181.5	3-15
	Tone	W25400	44	MR37	M26			W26118	3	TCS71								
	Sil.	W26877	‡	MR50				W26119	24	TCD62								
133	Vol.	W25179A	6	E7		2		W25542	1	TCD71					7	[3]35, 24,[3]27, 47, 80	181.5	3-16
	Tone	W25539	72	MR48	M26			W25503	19	TC22								
134	Vol.	W25666	15	MR57				W25542	1	TCD71					8	[3]35, 24,[3]27, 47, 80	181.5	3-17
	Tone	W25539	72	MR48	M26			W25857	15/24	TCD62								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY — Continued																		
134-1	Vol.	W25666	15	MR57				W23701	1	RS213					8	§35, 24, §27, 47, 80	181.5	3-18
	Tone	W25539	72	MR48	M26			W25676	2/16	3S584								
135	Vol.	W25573	6	E7		3		W25542	1	TCD71					5	§24, 35, 47, 80	181.5	3-19
	Tone	W25539	72	MR48	M26			W25303	16	TC22								
136-1	Vol.	W25367	23	DRP232				W26118	1	TCD71					10	§56, §58, §42, 80	181.5	3-20
	Tone	W25400	44	MR37	M26			W26119A	2	TCD62								
137	Vol.	W25964A	6	SRP262	6	2		W25542	1	TCD71					4	24, 35, 47, 80	181.5	3-21
								W25303	16	TC22								
141	Vol.	W26573	6	E7	6	2		W25542A	1	TCD71					5	24, 58, 57, 47, 80	181.5	3-22
								W25303	16	TC22								
143	Vol.	W28766A	9	MR20	M24			W24779	13	TC71					8	§34, §30, 19	181.5	4-7
	Tone	W25666A	57	MR57				W28869	‡	TC70								
146	Vol.	W25666	15	MR57				W26194	2	RS215					9	§58, 56, 57, 89, §46, 82	181.5	3-23
	Tone	W25400	67	MR37	M26			W26896	2/15	3S584	B8							
	Sen.	W26877	7	MR50														
146-1	Vol.	W25666A	17	MR57				W26194	2	RS215					9	§58, 57, 55, 89, §46, 82	181.5	3-24
	Tone	W25594	67	MR37	M26			W25542	1	TCD71								
	Sen.	W25573	7	E7		3		W25857B	15	TCD62								
147	Vol.	W27694	6	E7	6	2		W27676	1	2N516					4	39, 36, 38, 37, KR		3-25
								W27677A	15	TN111								
148	Vol.	W26573	6	E7	6	2		W23701	1	RS213					5	§58, 57, 2A5, 80	456	3-26
								W27488	1/15	TCD62								
150	Vol.	W26877	15	MR50				W25542A	1	TCD71					6	§58, 57, 55, 12, 80	181.5	3-27
	Tone	W25594	34	MR37	M26			W26870A	15	TC22								
154	Vol.	W28517	2	MR18	M26			W23701	1	RS213					4	58, 57, 42, 80	456	3-31
								W25857B	15	TCD62								
155	Vol.	W27755	6	E7	8	3		W27789	1	TC71					4	36, 39, 37, 48	456	3-28
								W26870A	15	TC22								
156	Vol.	W27939	9	MR20	M23	EX1500									5	30, §34, 32, 33	456	3-29
157	Vol.	W25666	15	MR57				W26118A	1	TCD71					10	§58, 57, §56, §42, 80	181.5	3-30
	Tone	W25594	67	MR37	M26			W25857	14/15	TCD62								
158	Vol.	W25666A	15	MR57				W25542	1	TCD71					7	§58, 57, §56, 42, 80	181.5	3-31
	Tone	W25594A	67	MR37	M26			W25857	14 15	TCD62								
159	Vol.	W26573B	6	E7	6	2		W28978	1	ST597		1.28949	Order from Mfr.		5	§78, 77, 43	456	4-8
								W28976	1	TC71								
								W26870A	15	TC22								
								W29012		Order from	Mfr.							
								.01		Buffer	B14							
160	Vol.	W25666	17	MR57				W28468	1	3S584	B8				12	§58, §56, §59, 80	181.5	3-32
	Tone	W25594A	67	MR37	M26			W25857B	14/15	TCD62								
	QAVC	W28287A	8	A5MP				W28340	1	3S584	B8							
163	Vol.	W28594A	6	E12	6	EX200		W28068	6	TC74					5	§78, 77, 38, 12Z3	456	3-33
								W25857B	6/15	TCD62								
								W26870A	15	TC22								
164	Vol.	W25666A	45	MR57				W23705	3	RS215					9	§58, 57, §56, §2A5, 80	456	4-11
	Tone	W25594	44	MR37	M26			W29097C	3/14	FP389								
166	Vol.	W28594A	6	E12	6	EX200		W29264A	6/15	3N527					4	78, 6F7, 38, 12Z3	456	4-12
167	Vol.	W26573B	6	E7	6	2		W23701B	1	RS213					5	§58, 57, 42, 80	456	4-9, 10
								W27488	1/15	TCD62								
167 Series 2	Vol.	W26573B	6	E7	6	2		W29150A	1, 15	FP389					5	§58, 2A5, 80	456	4-10
168	Vol.	W25666	17	MR57				W23701B	1	RS213					7	§58, 2A5, 2A6, 56, 80	181.5	4-13
	Tone	W25594A	34	MR37	M26			W27677A	15	TN111								
169	Vol.	W25964	6	SRP262	6	2		W23701	1	RS213					4	§8, 2B7, 42, 80	456	4-14
								W25857B	1/15	TCD62								
169 (Revised)	Vol.	W26573B	6	E7	6	2		W29150A	1/15	FP389					4	§8, 6F7, 2A5, 80	456	5-3, 4
170	Vol.	W25666A	15	MR57				W23705A	3	RS215					10	§56, §58, §2A5, 80	181.5	4-15
	Tone	W25594	44	MR37	M26			W29097A	3/14	FP389								
171	Vol.	W25666	15	MR57				W23705A	3	RS215					12	§58, §56, 2B7, §2A5, 80	181.5	4-16
	Tone	W25594	44	MR37	M26			W29097	3/24	FP389								
	Supp.	W29657	98	A5MP														
172	Vol.	W28594A	6	E12	6	EX200		W29264A	6/15	3N527					4	78, 6F7, 38, 12Z3	456	4-12
173, 173-5	Vol.	W30031	73	MR48	M26			W30124	8	TC52/2S569					6	§78, 6B7, 43, 25Z5	456	4-17
								W27677A	15	TN111								
174	Vol.	W28594	6	E12	6	EX200		W29804A	11	TC52/2S569					4	78, 6F7, 43, 25Z5	456	4-18
175	Vol.	W30056	15	MR57				W26194B	28	RS215					11	§58, 55, §56, §45, 5Z3	181.5	4-19
	Supp.	W30057	58	A5MP				B30059	28/13	3S584								
	Tone	W30058B	‡	‡	6	See Note A19												
176	Vol.	W28594A	6	E12	6	EX200		W28068	1	TC74					5	§78, 36, 38, 12Z3	456	4-11
								W25857B	1/15	TCD62								
								W26870A	15	TC22								
178	Vol.	W27939	9	MR20	M23	EX2M									5	§34, 1A6, 33, 32	456	5-6
179	Vol.	W25666B	15	MR57				W26194B	1	RS215					7	§58, §56, 2A5, 80	181.5	5-8
	Tone	W25594	22	MR37	M26			W29150A	15/24	FP389								
180	Vol.	W25666	15	MR57				W26194B	28	RS215					10	§58, §56, §2A5, 80	181.5	5-10
	Tone	W25594B	44	MR37	M26			B30059A	28/13	3S584								
181	Vol.	W30610	45	MR53				W30059	4/14	3S584					6	2A7, §58, 56, 2A5, 80	456	5-12
	Tone	W30836	34	MR37	M26													
182	Vol.	W31204	56	MR48	M26			W30962	11	2N513					5	6A7, 78, 6B7, 43, 25Z5	456	5-14
								W30963	11	ST597								
								W26870A	15	TC22								
184	Vol.	W26573	6	E7	6	2		W29150A	1/15	FP389					4	38, 6F7, 2A5, 80	456	5-16
415	Vol.	W33922A	54	MR20	M23										4	§1A6, 34, 33	450	7-9

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY — Continued																		
416	Vol.	41754	6	E7	6	3		W34896	1/15	TCS64/TC26		W37216	246	C3	4	6A7,‡15, 38	450	8-7,8
								.001		Buffer	B14							
417 (Chattabox)	Vol.	44612	‡	E12	6			W43280	1	RS223					3	6J7G, 25A6G, 25A7G, W43357		
418 (Vanity)	Vol.	45786	6	MR33	M26	EX300	A101	W44434	15	TC29					3	6D6, 6C6, 25A7G, W45788		9-11
425	Vol.	36793	6	E7	6	2		W45783	4	TC45					3	78, 6F7, 43, 25Z5	450	7-11
428 (Vanity Deluxe)	Vol.	45784	6	MR33	M26	EX300		W29804A	11	TC52/2S569					4	6D6, 6C6, 25L6G, 25Z6G		9-13
429	Vol.	W47667	17	MR53	M27			W45783	4	TC45					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-4
435	Vol.	37187	6	E7	6	3		W46128	12	TC55					4	6A7,‡15, 38	450	7-13
								W34896	1/15	TCS64/TC26		W37216	246	C3				
								.001		Buffer	B14							
438-M (438-486)	Vol.	41624	18	MR53	M26			W46128	4	TC65					4	6U7G, 6Q7G, 6V6G, 5Y3G		9-15
439	Vol.	W48709	18	MR53	M27			W45783	12	TC45					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	455	11-7
448 (Comb.)	Vol.	45786	6	MR33	M26	EX300		W45783	1	TC45					4	6D6, 6C6, 26L6G, 25Z6G		9-28
449	Vol.	W48327	17	MR53	M27			W48122	12	TC55					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	11-5,6
458 (Batt. Vanity)	Vol.	46435	17	MR53	M27			W45783	12	TC45					4	1A7G, 1N5G, 1H5G, 1C5G	455	10-1,2 10-3,4
459	Vol.	W48155	17	MR53	M27			W48122	12	TC55					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	11-5,6
468	Vol.	W46435	17	MR53	M27			W45783	12	TC45					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-8-9
505	Vol.	W36227	17	MR57	M26			W35750	1/15	RM265					5	6A7, 6D6, 75, 41, 80	450	6-13
506 (C-516)	Vol.	43340	18	MR53				W43280	40	RS223					4	6A7, 75, 43, 25Z5	450	8-11
507 (Refrigerator Radio)	Vol.	45162	18	MR53	M26			W44012	23	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3	455	10-5,6
								W43450	23	RS216								
515 (Fiver)	Vol.	W37343	6	MR18	M26	EX200		W36719	1	RM262					5	‡6D6, 6B5, 76, 80	450	6-11
516	Vol.	W37343	6	MR18	M26	EX200		W41080	1	RS215					5	‡6D6, 76, 6B5, 80	450	7-58
517	Vol.	43449	18	MR53	M26			W41081	1	RS216								6-13,14
								W41081	4	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3	455	8-13
								W43450	4	RS216								
518 (Foreign)	Vol.	W45864	18	MR53	M26			W44012	23	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3G	455	11-10
								W46822	23	RS223	B12							
								W45968	23	ST597								
519	Vol.	W48217	18	MR53	M26			W46398	1	2N509					5	12A8GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-11,12
525	Vol.	W36227	17	MR57	M26			W35750	1/15	RM265					5	6A7, 6D6, 75, 41, 80	450	
526	Vol.	41027	‡	DRP304			A87	W36055	1	RS224					5	6A8G, 6K7G, 6J7G, 6N6G, 5Z4MG	450	7-16
	Tone	41028	44	MR40	M26			W36057	1	RS224								
527	Vol.	43854	18	Order from	Mfr.			41081	12	RS216					5	1C7, 1D5, 1H6, 1H4, 1J5	455	9-19
529	Vol.	W48217	18	MR53	M26			W46398	1	2N509					5	12A8GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-11,12
534	Vol.	35013	18	MR53	M26			B30059C	4/14	3S584					5	6A7, 6D6, 75, 42, 80	456	6-15
535	Vol.	37409	6	Order from	Mfr.										5	‡34, 1A6, 1B5, 33	450	7-17
536	Vol.	41002	6	E7	6	2		W29804A	11	TC52/2S569					5	‡6K7G, 6J7G, 25A6G, 25Z6G	450	7-19
537	Vol.	43733	18	MR53	M26			W41081	23	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3	455	8-15
								W43450	23	RS216								
539	Vol.	46124	18	MR53	M26			47702	25	TC47					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5	455	
								45783	25	TC45								
545	Vol.	36265	6	E7	6	2		W31992	11/15	Order from	Mfr.				5	‡6D6, 6B7, 43, 25Z5	450	7-21
546	Vol.	41252	6	G7		2		W36057	1	RS224		37216	246	C3	5	6A7,‡15, 38	450	7-24
	Tone	32908	34			See Note A5		W41195	15	TC22								
								.001		Buffer	B14							
547	Vol.	43449	18	MR53	M26			W41081	4	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3	455	9-17
								W43450	4	RS216								
548	Vol.	45996A	18	MR53	M27			W45968	12	ST597					5	1C7G, 1D5G, 1H6G, 1H4G, 1G5G	455	9-38
549	Vol.		18	Order from	Mfr.			W46128	24	TC55					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 117Z6GT	455	11-13,14
								W46398	24	2N509								
								W48562	24	TC2501								
								W45783	24	TC45								
555	Vol.	37395	‡	DRP304	6		A87	W36055	1	RS224					5	6A8, 6K7, 6J7, 6F6, 5Z4	450	7-25
								W36057	1	RS224								
								W36931	15	TC22								
556	Vol.	41069	54	Order from	Mfr.										5	1A6,‡34, 1B5, 33	450	7-27
557	Vol.	43854	18	Order from	Mfr.			W44012	13	RS216		W44145	W246	C3	5	1C7G, 1D5G, 1F7G, 1H4G, 1F5G	455	9-21,24
								W44217	1	RS216								
								W44131	1	RS223								
								.01		Buffer	B14							
558	Vol.	W46057	18	MR53	M27			W45968	13	ST597					5	1C7G, 1D5G, 1H6G, 1H4G, 1J6G	455	11-15
566	Vol.	41792	‡	Order from	Mfr.			W41081	13	RS216					5	1A6, 34, 1B5, 30, 950	450	8-17

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY — Continued																		
567	Vol.	W43449	18	MR53	M26			W44012	23	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3	455	9-25-27
								W44013	23	RS216								
568 (Trouper)	Vol.	46411	6	MR33	M26	EX300		W46398	1	2N509					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT, W46416		10-7,8
577	Vol.	W43449	18	MR53	M26			W43280	4	RS223					5	6A8G, 6U7G, 6Q7G, 25A6G, 25Z6G	455	9-29
579	Vol.	48328	17	MR53	M27			48122	12	TC55					5	1B7G, 1P5G, 1N5G, 1H5G, 1Q5G	455	
586 (B637)	Vol.	W41609	18	Order from	Mfr.										5	[2]34, 1A6, 1B5 or 25S, 950	262	8-19
587	Vol.	43854A	18	Order from	Mfr.			W44769A	23	2S567	B33	W45110	859	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	10-9,10
								.01		Buffer	B14							
588 (Super Vanity Fiver)	Vol.	46633	18	MR53	M26			W46398	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-11
589	Vol.	48328	15	MR53	M27			48122	24	TC55					5	1B7G, 1P5G, 1N5G, 1H5G, 1Q5G	455	
596 (C526)	Vol.	W42446	18	MR48	M26			W42439	4	RS223					5	6A8G, 6K7G, 6Q7G, 25A6G, 25Z6G	450	8-21
								W41958	15	TC29								
597	Vol.	44920A	18	MR53	M26			44935	4	RS223					5	6A8, 6K7, 6Q7, 25A6, 25Z6	455	10-13,14
598 (Vanity)	Vol.	45786	6	MR33	M26	EX300	A101	46398	1	2N509					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT, W46416		10-12
599	Vol.	W48320	6	MR33	M26		A14	W46398	1	2N509					4	6SK7, 6J7GT, 25L6GT, 25Z6GT, W46416		11-16
602 (Band Box)	Vol.	4247F	4	SRP185			A4	10-10-10	3	3S584					7	[4]26, 27, 71A, 80		1-7
605	Vol.	37110A	33	MR53											6	[2]34, 1A6, 1B5, 30, 19	450	7-30
	Sen.	37109A	54	Order from	Mfr.													
608 (Gembox)	Vol.	W5170	3	SRP185				W4943	1	2N518					6	[3]26, 27, 71A, 80		1-8
609 (Gemchest), 610 (Gembox)	Vol.	W5908	3	SRP185				W4943	1	2N518					7	[4]26, 27, 71A, 80		1-9
614	Vol.	28552	17	MR57				W26194B	4	RS215					6	6D6, 6A7, 6B7, 76, 42, 80	456	6-18
	Tone	25594	22	MR37	M26			W27097D	4/11	FP389								
615	Vol	36052	56	MR48	M26			W31992	11/15	Order from	Mfr.				6	6A7, [2]6D6, 6B7, 43, 25Z5	450	7-32
616	Vol.	W37967	18	MR53				W36055	1	RS224					6	6A8G, 6K7G, 6H6G, 6F5G, 6N6G, 5Z4MG	450	7-33
	Tone	W37908	34	MR40	M26			W36057	1	RS224								
617	Vol.	44467	18	MR53				W44138	1	RS224					6	6A8G, 6U7G, 6Q7G, [2]6K6G, 5Y3G	455	9-31
	Tone	44024B	44	MR40	M26			W44012	1	RS216								
618	Vol.	44467	18	MR53				W44138A	1	RS224					6	6A8G, 6U7G, 6Q7G, [2]6K6G, 5W4	455	14-49
	Tone	44024B	44	MR40	M26			W44012	1	RS216								
626	Vol.	37907	‡	DRP304				W36055	1	RS224					6	6A8G, 6K7G, 6J7G, 6C5G, 6N6G, 5Z4MG	450	7-36
	Tone	37908	34	MR40	M26			W36057	1	RS224								
								W40325	13	RS224								
								W37778	15	TN111								
628	Vol.	45864	46	MR53	M26			W44012	23	RS216					6	6A8G, 6U7G, 6P5G, 6F5G, 6K6G, 2W3	455	9-42
								W45968	23	ST597								
629	Vol.	47783-A	18	MRT438	M26			47256	1	FP231					6	6A8, 6K7, 6Q7, 6P5, 6AC5, 5Y3	455	
634 (656)	Vol.	41027	15/15	DRP304		See Note	A87	W36055	1	RS224					6	6A8, 6K7, 6H6, 6F5, 6N6, 5Z4MG	450	8-23
	Tone	41028A	34	MR40	M26			W36057	1	RS224								
635 (Buccaneer)	Vol.	35938	45	MR53	M26			B30059C	4/13	3S584					6	6A7, [2]6D6, 76, 42, 80	450	6-19
636	Vol.	37967	18	MR53				W36057	1	RS224		W37216	246	C3	6	6A7, 6B7, [2]15, 19	450	7-38
	Tone	41627	41	MR37	M26			W37778	15	TN111								
								.001		Buffer	B14							
637	Vol.	43449	18	MR53	M26			W36057	23	RS224					6	6A8G, 6U7G, 6Q7G, [2]6K6G, 5Y3G	455	9-35
								W41081	23	RS216								
638	Vol.	46314	46	MR53	M26			W44012	23	RS216					6	6A8G, 6U7G, 6P5G, 6F5G, 6K6G, 2W3	455	9-42
								W45968	23	ST597								
639	Vol.	W47783-A	18	MRT438	M26			W47256	1	FP231					6	6A8G, 6K7G, 6Q7G, 6P5G, 6AC5G, 5Y3G	455	11-17-19
644 (5666)	Vol.	37395	‡	DRP304	6	See Note	A87	W36055	1	RS224					6	6A7, 6D6, 76, 75, 6B5, 5Y3	450	8-25
								W36057	1	RS224								
645	Vol.	36686A	17	MR57	M26										6	[2]6D6, 6A7, 85, [2]48	450	7-39
	Sen.	36687	6	E7														
646	Vol.	37967	18	MR53				W37628	12	RS223					6	1C6, [2]34, 1B5, 30, 19	450	7-41,42
	Tone	41368	34	Order from	Mfr.													
647	Vol.	43449	18	MR53	M26			W40325	29	RS224					6	6A8G, 6U7G, 6Q7G, 25A6G, 25Z6G	455	9-39-41
								W36057	29	RS224								
								W41081	13	RS216								
648 (Super Sextette)	Vol.	46847	18	MR53	M26			46398	1	2N509					5	6A8G, 6U7G, 6Q7G, 25L6G, 25Z6G, W46773	455	10-15,16
649	Vol.	W46847	18	MR53	M26			W46398	1	2N509					5	6A8GT, 6U7G, 6Q7G, 25L6G, 25Z6G, W46773	455	11-21,22
								W49222	1	2N513	B12							
								W45783	1	TC45	B12							

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY — Continued																		
649 (5656)	Vol.	41027	‡	DRP304			A87	W36055	1	RS224					6	6A8, 6K7, 6H6, 6F5, 6N6, 5Z4MG	450	11-21,22
	Tone	41028A	34	MR40	M26			W36057	1	RS224								
655	Vol.	35938	18	MR53	M26			B30059C	4/14	3S584					6	6A8,[26]K7, 6H6, 6F6, 5Z4	450	7-43
666	Vol.	37395	15/15	DRP304	6		A87	W36055	1	RS224					6	6A7, 6D6, 76, 75, 6B5, 5Y3	450	8-25,26
								W36057	1	RS221								
667	Vol.	44081	18	MR53				W41012	24	RS216		W41962A	859	C3	6	6A8G, [26]S7G, 6T7G, 6K6G, 6X5G	455	10-18-20
	Tone	44946	34	MR39	M26			W41990	24	RS223								
								.006 (60 Cy)		Buffer	B14							
								.003 (25 Cy)		Buffer	B14							
668	Vol.	W46124	45	MR53	M26			W46128	23	TC55					6	6A8G, 6U7G, 6P5G, 6P5G, 6V6G, 5Y3G	455	11-20
								W45968	23	ST597								
669	Vol.	48019	18	‡			A19	49171	16	FP389					6	6K8GT, 6K7GT, 6SQ7GT, 6P5GT, 6AC5GT, 2W3GT	455	
	Tone	48020-B	57	MR48														
676 (C629)	Vol.	42522	18	MR48	M26			W40325	29	RS224					5	6A8G, 6Q7G, 25A6G, 25Z6G, 6K7G	450	8-27,28
								W36057	29	RS224								
								W41081	13	RS216								
689	Vol.	W46847	18	MR53	M26			W49326	1/15	FP351					5	6A8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, W46773	455	11-23,24
704 (Showbox) (Jewelbox)	Vol.	W4247F	3	SRP185			A23	W5253	1/24	3S584					7	[26], 27, 71A, 80		1-10
704A (Jewelbox)	Vol.	W4247	3	SRP185			A23	W4736	1	2N518					7	[26], 27, 71A, 80		1-11
704B	Vol.	W4247F	3	SRP185			A23	W5253	1/12	3S584					8	[26], 27,[27]71A, 80		1-12
705 (Showbox DC)	Vol.	W4955	1	SRP185			A23	W4929	1	2N518					8	[30]1A,[27]71A		1-13
706 (Showbox)	Vol.	W4955	3	SRP185			A23	W4943	1	2N518					8	[26], 27,[27]71A, 80		1-14
714	Vol.	32062	18	MR53				W26194B	4	RS215					7	[26]D6, 6A7, 6B7, 6F7, 42, 80	456	6-21
	Tone	32063	34	MR37	M26			W29097D	4/13	FP389								
715 (Corsair)	Vol.	36060	15	MR53				W36055	4	RS224					7	6D6, 6A7, 6B7, [26], 42, 80	450	6-22
	Tone	36062	22	MR37	M26			W36056	4/24	FP389								
718	Vol.	45973	46	MRT438	M26			W44012	23	RS216					7	6J8G, 6U7G, 6P5G, 6F5G, 6V6G, 5Y3G, 6U5	455	9-46, 10-21,22
								W46822	23	RS223	B12							
								W45968	23	ST597								
719	Vol.	47858	45	MR53	M26			W47702	9	TC47					7	6A8GT, 6SK7GT, 6P5GT, 6SF5GT, 25L6GT, [25]Z6	455	11-25,26
								W47892	9	FP211								
725	Vol.	36066	15	MR53				W36056	1/24	FP389					7	6D6, 6A7, 6B7, [26], 42, 80	450	7-45
	Vol.		15	TM257-SS1			A4	W36055	1	RS224								
	Tone	36539A	22	MR37	M26													
729	Vol.	W47858	45	MR53	M26			W47702A	9	TC47					7	6A8GT, 6SK7, 6P5, 6SF5, 25L6, [25]Z6	455	11-27-29
								W47892	9	FP211								
739 (With Mech. P.B.)	Vol.	48170	45	MR53	M26			47702	9	TC47					7	6A8GT, 6SK7, 6P5, 6SF5, 25L6, [25]Z6	455	11-30
	Tone	48181B	21	MR48				47892	9	FP211								
739 (Magnetune)	Vol.	48170	45	MR53	M26			W47702	9	TC47					7	6K8, 6SK7, 6P5, 6SF5, 25L6, [25]Z6	455	
	Tone	48181B	21	MR48				W47809	9/13	FP357								
739 (Mech. P.B. and Loop)	Vol.	48170	45	MR53	M26			49047	10	TC47					7	6A8GT, 6SK7, 6P5, 6SF5, 25L6, [25]Z6	455	
	Tone	48181	21	MR48				49014	10/15	Order from	Mfr.							
744, 745 (716)	Vol.	37967	18	MR53				W36055	1	RS224					7	6A8, 6C5, 6K7, 6H6, 6F5, 6N6, 5Z4MG	450	8-29
	Tone	37908	34	MR40	M26			W36057	1	RS224								
759 (736)	Vol.	37967	45	MR53				W36055	1	RS224					7	6A8, [26]K7, 6H6, 6C5, 6N6, 5Z4	450	8-33
	Tone	37908	34	MR40	M26			W36057	1	RS224								
769 (726)	Vol.	42501	20	TM257-SS1				W36055	1	RS224					7	[26]K7, 6A8, 6H6, 6F5, 6N6, 5Z4MG	450	8-31,33
								W36057	1	RS224								
								W41081	13	RS216								
804 (Jewel Box)	Vol.	W5659	7	A10MP		RS244		W5684	3	FP434					8	[27],71A, 80		1-15
814	Vol.	W33378	17	MR53				W26194B	3	RS215					7	6A7, 6D6, 6F7, 6B7, [2]42, 80	456	6-25
	Tone	W32063	149	MR37	M26			W29097D	3	FP389								
								W32258	14	RS213								
815	Vol.	32062	45	MR53				W33990	24	RM262					8	[30],34, 1C6, 19	450	7-47
	Tone	36458	22	MR39	M24													
816	Vol.	W41301	19	TM257-SS1				W36055	1	RS224					7	6A8G,[26]K7G, 6R7G, [26]N6, 5Z4MG	450	7-49,50
	Tone	W37966	34	MR37	M26			W41080	1	RS215								
								W41081	24	RS216								
								W41598	15	TC29								
817	Vol.	44081	18	MR53				W44054	23	RS224					8	6A8G,[26]K6G,[26]U7G, 6Q7G, 5Y3G	456	9-44
	Tone	44024	44	MR40	M26			W36057	23	RS224								
818	Vol.	44081	18	MR53				W36057	23	RS224					8	6A8G, [26]K6G,[26]U7G, 6Q7G, 5Y3G	455	10-24-26
	Tone	44024B	44	MR40	M26			W44054	23	RS224								
819 (25Z6 Rect.)	Vol.	48242	18	‡			A19	47809	9/13	FP357					8	6K8, [26]SK7, 6SQ7, [25]L6, [25]Z6	455	11-36-40
								47702	9	TC47								
819 (5Y3G Rect.)	Vol.	48242	18	‡			A19	47809	1/13	FP357					8	6K8, [26]SK7, 6SQ7, [25]L6, [25]Y3G	455	11-37-40
								46128	1	TC55								
828	Vol.	44773	18	MRT438				W44054	23	RS224					8	6J5G, 6J8G, 6U7G, 6Q7G, 6J5G, [26]K6G, 5Y3G	455	10-27-29
	Tone	44024B	44	MR40	M26			W36057	23	RS224								
855	Vol.	36060	17	MR53				W36055	4	RS224					8	[26]K7, 6A8,[26]H6, 6C5, 6F6, 5Z4	450	7-51
	Tone	36062	22	MR37	M26			W36056	24	FP389								
865	Vol.	36066	17	MR53				W36055	4	RS224					8	[26]K7, 6A8,[26]H6, 6C5, 6F6, 5Z4	450	7-53
	Tone	36539A	22	MR37	M26			W36056	24	FP389								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY — Continued																		
915	Vol.	32062	18	MR53				W36055	35	RS224					9	6D6, 6A7, 6B7, ²76, ²42, 5Z3	450	7-55
	Tone	32063	44	MR37	M26			W36057	35	RS224								
								W36548	15	TC26								
916	Vol.	41417	93	DRP304				W36055	1	RS224					8	²6K7, 6A8, 6R7, 6C5, ²6N6, 5Z4MG	450	7-59
	Tone	37966	44	MR37	M26			W36057	1	RS224								
								W37778	15	TN111								
955	Vol.	37907	93	DRP304				W36055	1	RS224					9	²6K7, ²6C5, 6L7, 6Q7, ²6F6, 5Z4	450	7-61
	Tone	37966	34	MR37	M26			W36057	14	RS224								
								W37778	15	TN111								
989 (926)	Vol.	41301	20	TM257-SS1				W36055	1	RS224					8	²6K7, 6A8, 6H6, 6C5, ²6N6, 5Z4MG	450	8-35
								W41080	1	RS215								
								W41081	14	RS216								
								W41598	15	TC29								
1014 (Centurion)	Vol.	W28552	17	MR57				W26194B	7	RS215					10	²6D6, 6A7, 6F7, ²76, ²42, 80	456	6-26
	Tone	W25594B	44	MR37	M26			W34596	7/24	RM265								
1016	Vol.	41417	93	DRP304				W36055	1	RS224					9	²6K7, ²6C5, 6A8, 6R7, ²6N6, 5Z4MG	450	7-63
	Tone	37966	44	MR37	M26			W36057	1	RS224								
								W37778	15	TN111								
1018	Vol.	44081	45	MR53				W44054	23	RS224					10	²6K6G, 6A8G, ²6U7G, ²6C5G, 6K5G, 5Y3G	455	10-30-32
	Tone	44024B	44	MR40	M26			W36057B	23	RS224								
1019	Vol.	48242	18	‡			A19	47809	1/13	FP357					8	6K8, ²6SK7, 6SQ7, ²25L6, ²5Y3	455	11-37-40
								46128	1	TC55								
1026	Vol.	41417	‡	DRP304				W36055	1	RS224					9	²6K7, 6A8, ²6C5, 6R7, ²6N6, 5Z4	8-37	
	Tone	37966	34	MR37	M26			W36057	1/13	RS224							450	
								W37778	15	TN111								
1055	Vol.	32062	18	MR53				W36055	30	RS224					10	²6K7, 6A8, ²6C5, ²6F6, 6H6, 5Z4	450	7-67
	Tone	32063	44	MR37	M26			W36057	30	RS224								
								W36548	15	TC26								
1117	Vol.	44081	45	MR53				W44054	23	RS224					11	6A8G, ²6U7G, ²6C5G, ²6K6G, 5Y3G, 6G5, 6K5G	455	9-48
	Tone	44024	44	MR40	M26			W36057	23	RS224								
1118	Vol.	44702	20	MRT438				W44054	23	RS224					11	²6K6G, 6A8G, ²6U7G, ²6C5G, 6K5G, 5Y3G	455	10-33-36
	Tone	44024B	34	MR40	M26			W36057	23	RS224								
								W41598	15	TC29								
1127	Vol.	44674	45	MRT438				W44054	23	RS224					11	6A8G, ²6U7G, ²6C5G, 6K5G, ²6K6G, 5Y3G, 6T5	455	9-51-54
	Tone	44024	34	MR40	M26			W36057	23	RS224								
								W41598	15	TC29								
1128	Vol.	44702	20	MRT438				W44054	23	RS224					11	²6K6G, 6A8G, ²6U7G, ²6C5G, 6K5G, 5Y3G	455	
	Tone	44024B	34	MR40	M26			W36057	23	RS224								
								W41598	15	TC29								
1137	Vol.	44702	45	MRT438				W44054	23	RS224					11	6A8G, ²6U7G, ²6C5G, 6K5G, ²6K6G, 5Y3G	455	9-55,57
	Tone	44024	34	MR40	M26			W36057	23	RS224								
								W41598	15	TC29								
1155	Vol.	37907	93	DRP304				W36055	1	RS224					11	²6K7, 6L7, 6C5, 6H6, 6Q7, ²6F6, ²5Z4	450	7-69
	Tone	37966	44	MR37	M26			W36057	1	RS224								
1199 (1126)	Vol.	41301	20	TM257-SS1				37632	15	2N513					9	²6K7, 6A8, 6J7, 6H6, 6R7, ²6N6, 5Z4	450	8-41-44
								W36055	1	RS224								
								W42386	1/14	RS223								
								W41598	15	TC29								
1211 (1216)	Vol.	41375	‡	Order from	Mfr.			W36055	1	RS224					10	²6K7, 6A8, 6J7, 6H6, 6R7, 6C5, ²6N6, 5Z4	450	8-45-48
								W42386	1/14	RS223								
								W37778	15	TN111								
1217	Vol.	44773	18	MRT438				W44672	13	RS224					12	²6U7G, 6A8G, ²6K6G, ²6Q7G, ²5Y3G	455	10-37-40
	Tone	44704A	‡	MR53	M26			W44054	23	RS224								
								W36057B	23	RS224								
1218	Vol.	44773	140	MRT438				W44054	23	RS223					12	²6U7G, 6A8G, ²6Q7G, ²6K6G, ²5Y3G	455	14-57
	Tone	44704A	140	MR53	M26			W36057B	23	RS224								
								W44672	13	RS224								
1227	Vol.	44773	18	MRT438				W44672	13	RS224					12	²6U7G, 6A8G, ²6K6G, ²6Q7G, ²5Y3G	455	10-37-40
	Tone	44704A	‡	MR53	M26			W44054	23	RS224								
								W44438A	23	RS224								
1313 (1336)	Vol.	41375B	‡	Order from	Mfr.			W36055	1	RS224					11	²6K7, 6A8, 6J7, 6H6, 6R7, ²6C5, ²6N6, 5Z4MG	450	8-49-52
								W36057	1/14	RS224								
								W41598	15	TC29								
1316	Vol.	41375B	93	Order from	Mfr.			W36055	1	RS224					12	²6K7, 6A8, 6R7, 6J7, 6H6, 6C5, ²6N6, ²5Z4MG	450	7-73
	Fidlty.	41300	‡	TM257-SS1			A67	W36057	1	RS224								
								W36057	13	RS224								
								W37632	15	2N513								
1516	Vol.	41375	‡	Order from	Mfr.			W36055	1	RS224					13	²6K7, 6A8, 6J7, 6H6, 6R7, ²6C5, ²6N6, ²5Z4	450	8-53-56
								W36057	1/13	RS224								
								W41598	15	TC29								
5515 (Fiver)	Vol.	37343	6	MR18	M26	EX200		W36719	1	RM262					5	²6D6, 76, 6B5, 80	450	6-11,12
5516	Vol.	37343	6	MR18	M26	EX200		W41080	1	RS215					5	²6D6, 76, 6B5, 80	450	7-58
								W41081	1	RS216								
5517	Vol.	43449A	18	MR53	M26			W44012	23	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3G	455	9-17
								W43450	23	RS216								
5519	Vol.	48217	18	MR53	M26			46398	1	2N509					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5	455	11-41,42
5526	Vol.	41027	‡	DRP304			A87	W36055	1	RS224					5	6A8G, 6K7G, 6J7G, 6N6G, 5Z4MG	450	7-15
5529	Tone	41028	44	MR40	M26			W36057	1	RS224								
	Vol.	48217	18	MR53	M26			46398	1	2N509					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5	455	11-41,42

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY—Continued																		
5536	Vol.	41002	6	E7	6	2		W29804A	11	TC52/2S569					5	²6K7G, 6J7G, 25A6G, 25Z6G	450	7-19,20
5539	Vol.	46124	18	MR53	M26			47702	25	TC47					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5	455	
5548	Vol.	46057A	18	MR53	M27			W45968	13	ST597					5	1C7G, 1D5G, 1H6G, 1H4G, 1G5G	455	9-38
5549	Vol.	48694	18	Order from	Mfr.			46398	1/24	2N509					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 117Z6GT	455	
								46128	24	TC55								
								48562	‡	TC2501								
								45783	1	TC45								
5555	Vol.	37395	‡	DRP304	6		A87	W36055	1	RS224					5	6A8, 6K7, 6J7, 6F6, 5Z4	450	7-25
								W36057	1	RS224								
								W36931	15	TC22								
5579	Vol.	48336	15	MR53	M27			48122	12	TC55					5	1B7G, 1P5G, 1N5G, 1H5G, 1Q5G	455	
5587	Vol.	43854A	18	Order from	Mfr.			W44868A	23	RM262		W45110	859	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	10-9,10
								.01		Buffer	B14							
5589	Vol.	49336	15	MR53	M27			48122	24	TC55					5	1B7G, 1P5G, 1N5G, 1H5G, 1Q5G	455	
	Tone	49337	‡	MR48														
5597	Vol.	44920A	18	MR53	M26			44935	4	RS223					5	6A8, 6K7, 6Q7, 25A6, 25Z6	455	10-13,14
5628	Vol.	45864	46	MR53	M26			W44012	23	RS216					6	6A8G, 6U7G, 6P5G, 6F5G, 6K6G, 2W3	455	10-17
								W45968	23	ST597								
5648	Vol.	W46847	18	MR53	M26			W46398	1	2N509					5	6A8GT, 6U7G, 6Q7G, 25L6G, 25Z6G, W46773	455	11-21,22
								W49222	1	2N513	B12							
								W45783	1	TC45	B12							
6516	Vol.	37343	6	MR18	M26	EX200		W41080	1	RS215					5	²6D6, 76, 6B5, 80	450	7-58
								W41081	1	RS216								
6518 (Foreign)	Vol.	W46314	18	MR53	M26			W44012	23	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3G	455	11-9,10
								W46822	23	RS223	B12							
								W45968	23	ST595								
6519	Vol.	46124	18	MR53	M26			46389	1	2N509					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5	455	11-41,42
6579	Vol.	48328	17	MR53	M27			48122	12	TC55					5	1B7G, 1P5G, 1N5G, 1H5G, 1Q5G	455	
6615	Vol.	36060	17	MR53				W36057	1	RS224		W37216	246	C3	6	²15, 6A7, 6B7, 31, 38	450	7-75
	Tone	36062	34	MR37	M26			W34896	1/24	RM262/TC55								
								.001		Buffer	B14							
6625	Vol.	37907	‡	DRP304				W36055	1	RS224					6	6A7, 6D6, 6C6, 76, 6B5, 80	450	7-77,78
	Tone	37908	34	MR40	M26			W36057	1	RS224								
								W40325	13	RS224								
								W37778	15	TN111								
6669	Vol.	48019	18	‡			A19	49171	46	FP389					6	6K8GT, 6K7GT, 6SQ7GT, 6P5GT, 6AC5GT, 2W3GT	455	
	Tone	48020B	57	MR48														
6679	Vol.	48019	18	‡			A19	49171	46	FP389					6	6K8GT, 6K7GT, 6SQ7GT, 6P5GT, 6AC5GT, 2W3GT	455	
	Tone	48020B	57	MR48														
7669	Vol.	48019	18	‡			A19	49171	46	FP389					6	6K8GT, 6K7GT, 6SQ7GT, 6P5GT, 6AC5GT, 2W3GT	455	
	Tone	48020B	57	MR48														
7739 (Mech. P.B.)	Vol.	48019	18				A19	W48122	9	TC55					7	6A8GT, 6SK7, 6P5, 6SF5, 25L6, ²25Z5	455	11-31-34
	Tone	48020	57	MR48				W47702	9	TC47								
								W47892	9	FP211								
7739 (Magnetune)	Vol.	48019	18	‡			A19	W47702	9	TC47					7	6K8, 6SK7, 6P5, 6SF5, 25L6, ²25Z6	455	
	Tone	48020B	‡	MR48				W47809	9/13	FP357								
7739 (Mech P.B. and Loop)	Vol.	49338	45	‡			A19	49047	10	TC47					7	6A8GT, 6SK7, 6P5, 6SF5, 25L6, ²25Z6	455	
	Tone	49337	‡	MR48				49014	10/15	FP331								
								46128	10	TC55								
CROYDON—See Airking.																		
DELCO																		
RA-B, RB-B	Vol.	1203490	9	MR35	M26										7	¹32, 30, ²31		3-1
	Tone	1203455	41	MR53														
RA3, RB3	Vol.	1204176	7	MR34	M26										6	¹36, ²38		3-3
	Tone	1204748	22	MR39														
RB1, RC1	Vol.	1204176	6	MR34	M26			4-4	7	See Note	B3				7	24, ²27, ²35, 47, 80	175	3-4
	Tone	1204748	22	MR39				8	7	See Note	B3							
A1, B1	Vol.		56	MR48				8, 8	1	RS213					9	²58, ²57, 56, 55, ²47, 80	‡	
	Tone		21	MR48														
	Sen.		7	F														
A3, B3	Vol.		45	MR48				2	‡	See Note	B11				7	²39, ²36, 37, ²38	175	
	Tone		149	MR48														
66	Vol.	10003	17	MR44	M26			9979	4	TCS71			Order from Mfr.		6	²6E7, 6A7S, 6C7, 89, 6Y5	175	8-1
	Tone	10004	22	MR33				10067	15	TC22								
								.008-.008		Buffer	B14							
626	Vol.	1209330	18	UC512				1209285	22/15	3S579		5039661	273C		5	²6D6, 6A7, 6B7, 42	262	6-1,4
	Tone	1209628	21	MR48				4	15	TC22								
627	Vol.	1209296	15	UM162-SS12				1209285	22/15	3S579		5039661	273C		5	6D6, 6A7, 6B7, ²6E6	262	7-4,6

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DELCO—Continued																		
628	Vol.	1209296	18	UM162-SS12				1209283	1	RS215		5039661	273C		6	²6D6, 6A7, 85, 6A6	262	7-7,9
	Tone	1209320	44	MR39				1209284	1/15	RS213/TN111								
629 (Below No. 40100)	Vol.	1209296	18	UM162-SS12				1209285	1/15	3S579		5039661	273C		4	6F7, 6B7, 6D6, 42	450	8-17,18
629 (Above No. 40100)	Vol.	1209296	18	UM162-SS12				1209285	1/15	3S579		5039661	273C		4	6F7, 6A7, 6B7, 42	262	8-19,21
630 (500)	Vol.	1209809	62	UM161-SS12				1209806	4	TCS71		5040000	294	C3	5	6A7, 6B7, 6D6, 42, 84	262	7-10,12
								.01		Buffer	B14							
631	Vol.	1210214	73	UM162-SS12				1210556	1	TCD71		5040000	294	C3	5	6A7, 6B7, 6D6, 6B5, 84	262	8-3,4
								.005		Buffer	B14							
631A	Vol.	1211253	73	UM150-SS12				1211247	4	2S567		5040000	294	C3	6	²6D6, 6A7, 6B7, 42, 84	262	8-5,6
								.005		Buffer	B14							
632	Vol.	1210214	126	UM162-SS12				1210215	1	2N518		5040000	294	C3	6	²6D6, 6A7, 6B7, 6B5, 84	262	8-7,8
	Tone	1210225	21	MR53				.005		Buffer	B14							
633	Vol.	1210214	126	UM162-SS12				1210215	1	2N518		5040000	294	C3	6	²6D6, 6A7, 6B7, 6B5, 84	262	8-9,10
	Tone	1210249	21	MR53				.005		Buffer	B14							
634	Vol.	1210932	15	UM162-SS12				1210926	1/15	TCD24/TC26		5041245	273C		6	²6D6, 6A7, 85, ²41	262	8-11,12
	Tone	1210928	21	MR44				1209324	15	TC22								
635	Vol.	1210933	20	TM242-SS12				1210926	1/15	TCD74/TC26		5041245	273C		6	²6D6, 6A7, 85, ²6F6	262	8-13,14
R640	Vol.	7231170	18	UM150-SS12				7230164	4	RM262		5050673	852	C3	6	²6K7G, 6A8G, 6Q7G, 6F6G, 6X5G	262	9-1,4
	Tone		22	MR44				.005		Buffer	B14							
R641	Vol.	7231170	18	UM150-SS12				7231521	4	2S567		5050673	852	C3	6	²6K7G, 6A8G, 6Q7G, 6V6G, 6X5G	262	9-5,6
	Tone		22	MR39				.005		Buffer	B14							
R642	Vol.	1212036	18	TM224-SS12				1212038	4	RM262		5050673	852	C3	6	²6K7, 6J7, 6Q7, 6F6, 6X5	262	9-2,4
								1212044	15	TC22								
								.008		Buffer	B14							
R643	Vol.	7231170	18	UM150-SS12				7231521	4	2S567		5050673	852	C3	6	²6K7G, 6A8G, 6Q7G, 6V6G, 6X5G	262	9-7,8
	Tone		22	MR39				.005		Buffer	B14							
R644	Vol.	7231556	20	TM241-SS3				7231605	1	3S584	B8	5050673	852	C3	8	²6K7G, 6A8G, ²6R7G, ²6V6G, 0Z4	262	9-9,10
	Tone		149	MR39				.005		Buffer	B14							
R663	Vol.	7234557	18	MR44	M26			7234667	74	2S567		5050673	852	C3	6	²6K7G, 6A8G, 6Q7G, 6K6G, 6X5G	262	10-1,2
								.015		Buffer	B14							
R664	Vol.	7234118	18	UM150-SS12				7234117	74/13	3S584		5050673	852	C3	6	²6K7G, 6A8G, 6Q7G, 6F6G, 6X5G	262	10-3-5
	Tone		22	MR39				.005		Buffer	B14							
R665	Vol.	7234180	18	TM223-SS12				7234179	74/13	3S584		5050673	852	C3	6	²6K7G, 6A8G, 6Q7G, 6V6G, 0Z4	262	10-5,6
	Tone		22	MR39				.01-.01		Buffer	B14							
R666, R667	Vol.	7234180	18	TM223-SS12				7231679	74/13	3S584		5050673	852	C3	6	²6K7G, 6A8G, 6Q7G, 6V6G, 0Z4G	262	10-7,10
	Tone		22	MR39				.01-.01		Buffer	B14							
R668, R669	Vol.	7234620	18	TM224-SS12				7234619	40	3S584	B8	5050673	852	C3	7	²6K7G, 6A8G, 6R7G, 6J5G, 6N7G, 0Z4G	262	10-11,12
								7234635	14	TC52								
								.01-.01		Buffer	B14							
R673	Vol.	7234620	18	TM224-SS12				7234619	40	3S584	B8	5050673	852	C3	7	²6K7G, 6J8G, 6R7G, 6J5G, 6N7G, 0Z4G	262.5	10-13-15
								7234886	14	TC52								
								.01-.01		Buffer	B14							
R675	Vol.	7237746	18	Order from	Mfr.			7237818	74	FP142		7237663	860	C3	5	6SA7, 6SK7, 6SQ7, 6K6G, 0Z4G	455	12-1-4
								.015-.015		Buffer	B14							
R676	Vol.	7234118	18	UM150-SS12				7237541	74	2S569		7237663	860	C3	6	²6K7, 6A8G, 6Q7G, 6K6G, 6X5G	262	12-5,6
								.0075		Buffer	B14							
R677	Vol. & Tone	7237802	18/21	Order from	Mfr.			7237818	74	FP142		7237663	860	C3	6	²6SK7, 6AS7, 6SQ7, 6V6G, 0Z4G	455	12-7,8
								7237819	14	TC62								
								.015-.015		Buffer	B14							
R678	Vol. & Tone	7237802	76	Order from	Mfr.			7237820	74	TC72		7237663	860	C3	6	²6SK7, 6SA7, 6SQ7, 6V6G, 0Z4G	455	12-10-12
								7233092	74/14	2N518								
								.01-.01		Buffer	B14							
R685	Vol.	7237971	18	UM147-SS2	M26			10-10	74	FP142		7238829	870	C3	5	6SA7, 6SK7, 6SQ7, 6K6GT, 0Z4	455	12-13-15
								.015-.015		Buffer	B14	7238685	870	C3				
R686	Vol.	7234118	18	UM150-SS12				7239831	24	2N518		7238829	870	C3	6	²6SK7, 6SA7, 6SQ7, 6K6G, 6X5G	262	12-16,17
								.0075		Buffer	B14	7238685	870	C3				
R687	Vol. & Tone	7239770	106	Order from	Mfr.			10-10-20	24/15	FP332		7238829	870	C3	6	²6SK7, 6SA7, 6SQ7, 6V6GT, 0Z4	455	12-18-20
								4	13	TC42		7238685	870	C3				
								.01-.01		Buffer	B14							
R688	Vol.	7239816	106	SMD512				8-8	74/13	2N518		7238829	870	C3	6	²6SK7, 6SA7, 6SQ7, 6V6GT, 0Z4	455	12-21-23
								10	74	TC72		7238685	870	C3				
								.01-.01		Buffer	B14							
R695	Vol.	7234118	18	UM150-SS12				7239831	24	2N518		7238829	870	C3	6	²6SK7, 6SA7, 6SQ7, 6K6GT, 6X5G	455	12-23,24
								.0075		Buffer	B14	7238685	870	C3				
R696	Vol.	7234118	18	UM150-SS12				7239831	24	2N518		7238829	870	C3	6	²6SK7, 6SA7, 6SQ7, 6K6GT, 6X5G	260	12-27-29
								.0075		Buffer	B14	7238685	870	C3				
R697	Vol.	7239770	106	Order from	Mfr.			7238830	24/15	FP332		7238829	870	C3	6	²6SK7, 6SA7, 6SQ7, 6V6GT, 0Z4	455	12-29-32
								7237819	13	TC62		7238685	870	C3				
								.01-.01		Buffer	B14							
R700	Vol.	7234118	18	UM150-SS12				7239831	24	FP231		8639	870	C3	6	²6SK7, 6SA7, 6SQ7, 6K6GT, 6X5G	455	13-7,8
								.0075		Buffer	B14							
R701	Vol.	7234118	18	UM150-SS12				7239831	24	FP231		8639	870	C3	6	²6SK7, 6SA7, 6SQ7, 6K6GT, 6X5G	262	13-3,4, 9,10
								.0075		Buffer	B14							
1101	Vol.	1208812	56	MR48	M26			1208786	11/15	²2N509					5	6F7, 78, 6B7, 43, 25Z5	181.5	6-5,6
1102, 1103	Vol.	1208928	15	MR53				1208317	4	RS215					6	6D6, 6A7, 6B7, 76, 42, 80	456	6-7,10
	Tone	1208872	22	MR37	M26T			1208316	4/14	3S584								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DELCO—Continued																		
1104	Vol.	1208928	45	MR53				1208317	4	RS215					7	²⁶D6, 6A7, 6B7, 6F7,		
	Tone	1208872	34	MR37	M26T			1208316	4/14	3S584						42, 80	456	6-11,12
1105	Vol.		6	E12	6	EX200		8-6	1	2N518					5	²⁶D6, 76, 6B5, 80	450	7-13,15
1106	Vol.	1210410	18	MR48	M26			12	25	RS215					5	6D6, 6A7, 75, 42, 80	465	7-16,18
	Tone	1210411	22	SRP263				16	25	RS216								
1107	Vol.	1210304A	15	MR53	M26			8-8-8	4/14	3S584					6	²⁶D6, 6A7, 76, 42, 80	450	7-19,21
1108	Vol.	1210617	18	TRP604	6			12	4	RS215					6	²⁶D6, 6A7, 75, 42, 80,		
								18	4	RS216						or 6A7, ²⁶K7, 75,		
								10	13	RS215						6F6, 80	465/490	7-22,24
								12	15	TC22								
1109	Vol.	1210567	20	TM234-SS1				12, 12	46	RS215					8	²⁶D6, 6A7, ²⁶C5, ²⁶F6,		
								18	46	RS216						80	455	7-25,27
								10	13	RS215								
								12	15	TC22								
1110	Vol.		15	TM234-SS1				12, 12	31	RS215					10	6D6, 6A7, 6K7, ²⁶C5,		
								18	31	RS216						6F6, ²45, 5Z3, 6F5	455	7-28,30
								12, 12	15	TC22								
R1115 (Below 100,000)	Vol.		7	E	6	3		4-8	1	2N518					5	6A7, 6D6, 76, 41, 80	465	9-11-14
								10	15	TC22								
R1115 (Above 100,000)	Vol.	1211864	6	MR29	M26			8	25	RS213					5	²⁶K7G, 6C5G, 6F6G,		
								8	25	RS213						6X5G	456	9-11,13
R1116	Vol.	1211396	45	MRT420	M26			16	25	RS216					6	6A8G, 6K7G, 6I16,		
	Tone	1211398	57	MR48				16	25	RS216						6F5G, 6F6, 5Z4	456	9-15,16
R1117	Vol.	1211396	45	MRT420	M26			16	25	RS216					7	6A8G, 6K7G, 6I16,		
	Tone	1211398	57	MR48				16	25	RS216						6F5G, 6F6, 6G5,		
																5Z4	456	9-15,16
R1118	Vol.	1211396	45	MRT420	M26			16, 16	25	RS216					10	²⁶K7, 6A8, 6I16, 6G5,		
	Tone	1211398	41	MR48				8	13	RS213						²⁶C5, ²⁶F6, 5V4G	456	9-17,18
								10	19	TC32								
								12, 12	15	TC22								
R1119	Vol.	1211397	15	MRT440	M26			16, 16	54	RS216					12	²⁶K7, 6A8, ²⁶I16, 6J7,		
								4	54	TC71						²⁶C5, 6G5, ²⁶L6,		
								8	13	RS213						5V4G	456	9-19,20
								10	19	TC32								
								12, 12	15	TC22								
R1120	Vol.	1210410	18	MR48	M26			4-8	1	2N518					5	6A8G, 6K7G, 6Q7G,		
								10	15	TC32						6K6G, 5Y4G	465	9-21,22
R1125	Vol.	1212174	18	MR53	M26			5-5	23	2S567					5	6A7, 78, 75, 41, 80	465	9-23
R1126	Vol.	1212115	17	MR48	M26			8-8	1	2N518					6	6A7, 6D6, 75, 41,		
																6G5, 80	465	9-24
R1127	Vol.	1212241	18	MR53	M26			30	25	RS223					6	6A8G, 6U7G, 6Q7G,		
								8-8	25	2N518						6K6G, 6U5, 5W4G	465	9-25,26
								10	19	TC32								
R1128, R1129	Vol.		18	MR53	M26			8, 8	23	RS213					7	6L7G, 6C5G, 6K7G,		
																6Q7G, 6G5, 5F5G,		
																5Y3G	465	9-27,28
R1130	Vol.	1212362	45	MRT427	M26			30	25	RS223					8	6L7G, 6K7, 6I16, 6F5,		
								8	25	RS213						6C5G, 6U5, 6V6G,		
								10	19	TC32						5W4G	465	9-29,30
R1131	Vol.	1212522	20	MRT440	M26			30	25	RS223					9	²⁶K7, 6L7, 6C5, 6I16,		
								16	25	RS216						6F5, 6L6, 6U5,		
								10, 10	15	TC22						5Y3G	465	9-31,32
R1132	Vol.	1212642	20	MRT440				30	30	RS223					12	²⁶K7, 6L7, 6J7, ²⁶C5,		
								8	30	RS213						6I16, ²⁶V6, 6U5,		
								10	15	TC22						5U4G	465	9-33,38
								10-10	15	TN111								
								4, 4	13	TC71								
R1134, R1135	Vol.	1213157	18	MK402	M26			30-30-40	1/19	3N533					5	6A8G, 6K7G, 6Q7G,		
																25L6G, 25Z6G,		
																L49B	465	10-16
R1139	Vol.	1213157	18	MK402	M26			30-30-40	1/19	3N533					5	6A8G, 6K7G, 6Q7G,		
																25L6G, 25Z6G,		
																L49B	465	10-16
R1140	Vol.	1213134	18	MK402	M26			16, 16	4	TC74					5	6A8G, 6K7, 6Q7G,		
	Tone	1213133	34	MK402												6K6G, 5Y3G	465	10-18,19
R1141	Vol.	1213102	18	MK402	M26			12-8	4	2S569					6	6K8G, 6K7, 6Q7G,		
	Tone	1213101	21	MK402												6A8G, 6K6G,		
																5Y3G	465	10-20,22
R1142	Vol.	1213100	18	TM236-SS25	M26T			12-8	4	2S569					7	6K8G, 6K7, 6Q7G,		
	Tone	1213101	21	MK402												6A8G, 6U5, 6F6G,		
																5Y3G	465	10-22-24
R1143	Vol.	1213075	18	TM236-SS25				12	4	TC74					7	6K8G, 6K7, 6Q7G,		
	Tone	1213076	22	MK400				8	4	TC71						6A8G, 6U5, 6F6G,		
																5Y3G	465	10-25,26
R1144	Vol.	1213025	124	TM236-SS25				10-10	1	2S569					10	²⁶K7, 6K8, 6Q7G,		
	Tone	1213026	22	MK400				12	13	TC62						²⁶J5G, ²⁶K6G, 6U5,		
																5Y3G	465	10-27,29
R1145	Vol.	1213540	18	MK402				12, 12	1	TC74					6	6K8G, 6SK7, 6Q7G,		
																6P5G, 6AC5G,		
																5Y3G	465	10-29-32

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DELCO—Continued																		
R1150	Vol.	1214076	18	UM154-SS22	M26T			40-20	24	2N514					5	12SA7, 12SK7, 12Q7GT, 35L6GT, 35Z5GT	465	11-1-3
R1153	Vol.	1214098	18	UM161-SS22	M26			40-20	24	2N514					5	12SA7, 12SK7, 12Q7GT, 35L6GT, 35Z5GT	465	11-5,6
R1154, R1155	Vol.	1214054	18	UM161-SS22	M26			40-20-20	46	FP357					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	465	11-7,8
R1156	Vol.	1214031	18	MK402	M26			40-20-20	46	FP357					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	465	11-9-11
R1157	Vol.	1213989	18	UM161-SS22	M26			20-15-5	1/19	FP339	B197				6	[6]SK7, 6SA7, 6SQ7, 6K6G, 5Y3G	465	11-15,16
R1160	Vol.	1213540	45	MK402				1214207	1/15	2S569/TC39					9	[6]SK7, 6K8, [7]6, 6SF5, [6]6F6G, 5Y3G	465	11-13,14
R1170	Vol.	1214523	18	UM149-SS1	M26			1214626	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-33,34
R1171, R1172, R1173	Vol.	1214582	18	MR48	M26T		A106	1214627	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-35,36
R1174	Vol.	1214608	18	MR48	M26T		A106	1214627	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-36,38
R1175	Vol.	1214608	18	MR48	M26T		A106	1214758	77	2N521					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-39,40
R1176	Vol.	1214632	18	MR44	M26			1214628	77	2N521					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-41,42
R1177	Vol.	1214654	124	MRT449	M26			1214657	1/15	FP332					6	[6]SK7, 6SA7, 6SQ7, 6F6G, 5Y3G	455	12-43,44
R1178	Vol.	1214667	18	MRT420	M26			1214676	1/15	FP332					6	[6]SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	12-45-48
R1179	Vol.	1214689	124	MRT449	M26		A59	1214676	1/15	FP332					9	[6]SK7, 6SA7, 6H6, [6]SF5, [6]F6G, 5Y3G	455	12-49-51
R1180	Vol.	1214689	124	MRT449	M26		A59	1214696	1/13/15	FP439					12	[6]SK7, 6SA7, 6H6, [6]SF5, [6]K6GT, 6U5, 5U4G	455	12-52-54
R1181	Vol.	1214632	18	MR44	M26			1214628	77	2N521					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-41,42
R1185	Vol.	1214712	18	MR48			A106	1214628	77	2N521					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-55,56
R1186, R1188	Vol.	1214654	20	MRT449	M26			1214741	1/19	FP339					7	6SA7, 6SK7, 6SQ7, 6SF5, [6]K6GT, 5Y3G	455	12-57-59
R1400	Vol.	1213613	18	MK402	M27			25	19	TC26					4	1A7G, 1N5G, 1H5G, 1C5G	465	11-17,18
R1401, R1402	Vol.	1213615	18	UM161-SS22	M27			10	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	465	11-19,20
R1405	Vol.		18	UM161			A96	20-20-200	76	FP304					5	1A7GT, 1N5GT, 1I15GT, 3Q5GT, 35Z5GT	455	12-62,63
								20	78	TC26								
2017, 2018	Vol.	1202259	25	Order from	Mfr.			1202264	4	RS215					6	[4]24A, 45, 80		
	Tone	1202261	22	MR18			A45	1201400	4	RS213								
2035 (Revised)	Vol.	1207607	17	UC512	7			1207584	1	2N518		1207849	292	C3	6	36, [3]39, 85, [3]89	262	3-1,2
	Tone	1207601	44	MR33				1207616	15	TC32								
								.015		Buffer	B14							
R2050	Vol.	1210424	18	MR48											4	1C6, 34, 1F6, 33, 5E1	465	9-39,40
R2055	Vol.	1210424	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	9-40,42
3002	Vol.		26	UC513	6										5	[2]24, 27, 12A		1-1
3026	Vol.		48	‡		See Note A5									8	[2]36, [2]37, [2]47	175	4-1-8
3201, 3202 (Below 800,000)	Vol.	1208998	17	MR48	M26										6	[6]D6, 6A7, 85, [2]48	262.5	6-13,14
3201, 3202 (Above 800,000)	Vol.	1208998	17	MR48	M26										6	[6]D6, 6A7, 85, [2]48	456	6-15,16
3203, 3204	Vol.	1208928	15	MR48				1208892	1	RS215/TC32		1208920	F247	C3	6	6D6, 6A7, 6B7, 6F7, [2]43	456	6-17,19
	Tone	1208872	44	MR37	M26T			1208891	1/14	3S584/TC22								
								1208890	14	RS213								
								.01		Buffer	B14			*				
3205	Vol.	1210271	17	MR57	M26										6	[6]D6, 6A7, 85, [2]48	450	7-31,33
	Sen.	1210272	6	E7														
3206, 3207	Vol.	1210308	18	MR53											9	[6]D6, 6A7, 85, 76, [2]48	450	7-34,36
	Tone	1210309	34	MR37	M26													
	Sen.		2	MR18														
R3208, R3209	Vol.		18	MR53											9	[6]D6, 6A7, 85, 76, [2]48	450	9-43,44
	Tone		34	MR37	M26													
	Sen.		1	MR18														
R3210	Vol.	1212129	17	UM154-SS16											6	6D6, 6A7, 75, 76, [2]48	465	9-14
	Tone	1211374	22	MR33	M26													
R3212	Vol.	1212151	17	UM154-SS16											9	[6]D6, 6A7, 75, 76, [2]48	465	9-45-47
	Tone	1212152	44	MR33														
R3215	Vol.	1213408	124	UM154-SS22											6	6K8, 6K7, 6Q7G, 6C5G, [2]5L6G	455	10-33,34
	Tone	1213407	22	UM133-SS22	M26													
4037	Vol.	1207994	17	MR48	M26			1207995	1/15	TCD52/TN111		5035120	222		5	[2]78, 6F7, 75, 41	262	4-5,6
	Vol.	1208157	17	UC512	6	See Note A4												

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DELCO—Continued																		
4038	Vol.	1208157	17	UC512	6			1208241	1	TCD71		5035120	222		6	‡78, 6F7, 85, ‡41	262	4-7,8
	Tone	1207798	44	MR48														
4048	Vol.	1207932	6	MR24				4-12-4	11	UR182	B31				5	6F7, 78, 75, 43, 25Z5	455	4-9
4049, 4050	Vol.	1208126	15	MR57				W29978	1	TC55			Order from Mfr.		6	‡78, 6B7, 37, 75, 43	181.5	4-10
	Tone	1208127	22	MR37	M26			8-8-8	24/15	3S579								
								12-2.5	‡	Order from Mfr.								
								.01		Buffer	B14							
4051 (32 volt)	Vol.	1208297	6	E7	6	2		12	1	TC74			Order from Mfr.		5	‡78, 77, 43	181.5	7-37
								8	1	TC71								
								6	15	TC22								
								12-2.5	‡	Order from Mfr.								
4052 (AC-DC)	Vol.	1208350	17	MR57	M26		A58	8-25-16	11	UR182	B31				5	6A7, 78, 6B7, 43, 25Z5	456	7-38
								6	15	TC22								
4053, 4053A	Vol.	1208126	15	MR57				W23705A	3	RS215					10	‡56, ‡58, ‡2A5, 80	181.5	
	Tone	1208127	44	MR37	M26			W29097A	3/14	FP389								
4054	Vol.	1208755	17	MR48	M26										5	6A7, 6D6, 85, ‡48	262	5-1,2
6010	Vol.	1210423	18	MR48	M27			8-20	1	2N509		5041125	245A	C3	4	1C6, 34, 1B5, 38	450	7-39,41
	Tone	1210424	57	MR48				5	15	TC32								
								.03		Buffer	B14							
R6011	Vol.	1210424	45	MR48				8-8	1	2N518		5050651	245A	C3	6	6A7, ‡15, ‡76, 19	465	9-48,50
	Tone	1211374	22	MR33	M26			10	15	TC22								
								.01		Buffer	B14							
R6012	Vol.	1211351	45	TM234-SS16				8-8	1	2N518		5050651	245A	C3	7	‡15, 6A7, ‡76, 19	465	9-51,53
	Tone	1211350	44	MR33	M26			5	15	TC32								
								.01		Buffer	B14							
R6015	Vol.	1212129	17	UM154-SS16				8-8	1	2N518		5050651	245A	C3	6	6D8G, ‡6S7G, ‡6L5G, 19	465	9-55,56
	Tone	1211374	22	MR33	M26			10	15	TC22								
								.03		Buffer	B14							
DETROLA																		
4 Tube TRF '32	Vol.		6	MR24				941	4	2S567	B33				4	35, 24, 47, 80		5-1
"Road Chief"	Vol.		6	MR18		See No	te A1	10	15	TC22					5	‡39, 36, 37, 41		5-3
"Road Master"	Vol.		56	MR48				10	15	TC22					5	36, ‡39, 85, 41	175	5-2
"Warwick"	Vol.		15	MR39	M26			8-4	4	See Note	B3				5	57, 58, 55, 47, 80	175	6-1
	Tone		21	MR48				10	17	TC22								
4C	Vol.		6	MR18		EX250		4-16-8	11	UR193					4	77, 78, 43, 25Z5		6-1
4D	Vol.		6	MR18		EX250		4-4	1	2N518					4	78, 77, 42, 80		5-1
								10	15	TC22								
4F	Vol.		6	MR18	M26	EX250		4-20-8	11	UR182	B31				4	77, 78, 43, 25Z5		6-2
4H	Vol.		6	MR18	M26	EX250		8-4	40	2S567					4	36, 37, 38, 39		6-1
4J	Vol.		6	MR18	M26	EX250		4-4	1	2N518					4	77, 78, 42, 80		6-2
								10	15	TC22								
4W	Vol.		6	MR18	M26	EX250		4-20-8	11	UR182	B31				4	6D6, 6C6, 43, 25Z5		6-2
4Y	Vol.		6	MR33	M26			4-20-8	11	UR182	B31				4	6D6, 6C6, 43, 25Z5		6-2
5B	Vol.	1084	17	MR53				1398	1	2N518					5	6A7, 78, 75, 42, 80	370	6-3
	Tone	1083	22	MR44	M26			578	15	TC22								
5D	Vol.	919	17	MR53				1014	1	RM262					5	78, 6F7, 75, 42, 80	455	6-5,6
	Tone	921	22	MR44	M26			595	19	TC22								
5L	Vol.		6	MR18	M26	EX250		1460	11	UR182	B31				5	77, 76, 78, 43, 25Z5		6-2
5T (Super Midget)	Vol.		6	MR33				16-8	11	3S584	B8				5	78, 44, 77, 43, 25Z5	459	5-3
5W	Vol.	1572	17	MR53				1624	1	2N518					5	6A7, 6D6, 75, 42, 80	370	6-7
	Tone	1573	34	MR44	M26			10	14	TC22								
5WG	Vol.		18	MR53				4-20-8	11	UR182					5	6A7, 78, 75, 43, 25Z5	370	7-9
5X	Vol.	1572	17	MR53				1624	1	2N518					5	6A7, 78, 75, 42, 80	370	6-8
	Tone	1573	34	MR44	M26			578	14	TC22								
5Y	Vol.		6	SRP263	6	See No	te A14	1460	11	UR182	B31				5	6D6, ‡76, 43, 25Z5		6-1
6A	Vol.		17	UC512		See No	te A25	8-8	1	See Note	B3		Order from Mfr.		6	‡78, 6F7, 75, 42, 84	262	6-10
								10	15	TC22								
								.02		Buffer	B14							
6M, 6R	Vol.	1881	17	UC512		See No	te A25	1882	1	3S584	B8	1238	294	C3	6	‡6D6, 6A7, 75, 42, 84	262	6-11
	Tone		22	MR39				5-5	15	TN111								
								.0075		Buffer	B14							
6W	Vol.	1572	17	MR53				1624A	1	2N518					6	6A7, ‡78, 75, 42, 80	370	6-13
	Tone	1573	34	MR44	M26			578	14	TC22								
6X	Vol.	1675	17	MR53				1678	1/15	3S584/TN111					6	6A7, ‡78, 75, 43, 25Z5	370	6-14
	Tone	1676	34	MR44	M26													
6ZM	Vol.		17	MR53				8-8	1	2N518					6	‡6K7, 6A8G, 75, 6F6G, 5Y3	370	7-2
	Tone		34	MR39				10	15/19	TC32								
7A	Vol.	1084	17	MR53				1014	28	RM262					7	‡78, 37, 75, 42, 80	262	6-15,16
	Tone	1083	22	MR44	M26			1085	28	RS213								
7ZM	Vol.		15	MR53				8-8	1	2N518					7	‡6K7, 6A8, 6H6, 6F5, 6F6, 5Y3	370	7-3
	Tone		34	MR39				10	15/19	TC32								
10ZM	Vol.		15	MR53				12-12	1	2S569					10	‡6K7, 6A8, 6H6, 6F5, 6C5, ‡6F6, 5Y3	456	7-4
	Tone		44	MR39				10	15/19	TC32								
14-112S	Vol.	3038	18	UM157-SS3				2994	1	TCD71	B85	3000	294	C3	6	‡78, 6A7, 75, 42, 84	262	
	Tone	3034	22	MR36				578	15	TC22								
	Sen.	3035	7	CIMP				.0075		Buffer	B14							
14-127ES	Vol.	2726	18	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 76, ‡42, 6G5, 80	456	
	Tone	2737	147	MR55				3351	23	RS216								
14-129	Vol.	3418	18	MR48	M27			3575	1	TC71		3421	245	C3	7	6D8G, 6S7G, 6T7G, ‡33, 1H4G, 6L5G	456	
	Tone	3571	147	MR55				3574	13	3S584	B8							
								.01		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DETROLA—Continued																		
14-136EA	Vol.		18	MR48				16	25	RS216					6	6A7, 6D6, 75, 6G5, 41, 1V	456	
								8	25	RS213								
14-142ES	Vol.	2726	18	MR48	M26			3375	25	RS216					7	78, 6A7, 6D6, 75, 6G5, 42, 80	456	
	Tone	2737	147	MR55				3351	25	RS213								
14-152ES	Vol.		18	MR48				16	25	RS216					6	6A7, 6D6, 75, 6G5, 41, 1V	456	
								8	25	RS213								
48	Vol.		6	MR18	M26	EX250		784	24	TCS44					4	37, 38, 77, 78		6-1
100	Vol.	2602	45	MR48	M26			2591	23	TC45					6	6A7, 6D6, 76, 6C6, 43, 25Z5	456	7-6
								2594	23	RS207								
101, 101A	Vol.	2574	6	H	6			2591	4	TC45					4	6A7, 6F7, 43, 25Z5	456	7-7
								2594	4	RS207								
102	Vol.	2726	18	MR48	M26			2732	29	2S567					7	6A7, 6D6, ‡76, 6C6, 43, 25Z5	456	7-8
	Tone	2737	147	MR55				8	29	TC52								
								2594	29	RS207								
103	Vol.	2699	136	MR48	M27			2698	12	RS216					4	1C6, 1A4, 1A6, 950, 1B1	480	7-9
104	Vol.	2574	7	H	6			3229	23	TCS44					4	6D6, 6C6, 43, 25Z5		7-1
106, 106E	Vol.	3361	18	MR48	M26			2767	23	RS213					6	6A7, 6D6, 75, 41, 1V, 6G5	456	7-10
	Tone		147	MR55				2766	23	RS216								
107	Vol.	2726	18	MR48	M26			3375	23	RS216					7	6A7, 6D6, 75, 76, ‡42, 80	456	
	Tone	2737	147	MR55				3351	23	RS213								
108	Vol.	3361	18	MR48	M26			2767	23	RS213					6	‡6D6, 6A7, 75, 41, 84	456	7-10
	Tone	2769	147	MR55				2766	23	RS216								
109	Vol.		18	MR48	M26			16	25	RS216					5	6A7, 6D6, 75, 43, 1V	456	7-11
								8	25	ST595								
110	Vol.	2726	18	MR48	M26			2879	25	RS216					7	6A7, 6D6, 75, 76, ‡43, 25Z5	456	
	Tone	2737	147	MR55														
111	Vol.	3038	18	UM157-SS3				2994	1	TCD71	B85	3000	294	C3	6	‡78, 6A7, 75, 6B5, 0Z4	262	8-1
	Tone	3034	22	MR36				.0075		Buffer	B14							
	Sen.	3035	7	C1MP														
112	Vol.	3038	18	UM157-SS3				2994	1	TCD71	B85	3000	294	C3	6	‡78, 6A7, 75, 42, 84	262	
	Tone	3034	22	MR36				578	15	TC22								
	Sen.	3035	7	C1MP				.0075		Buffer	B14							
114	Vol.	2726	18	MR48	M26			2698	71	RS216					6	6A7, 6D6, 76, 6C6, 43, 25Z5	456	7-12
	Tone	2737	147	MR55				2594	71	RS207								
116	Vol.		18	MR48	M26			16-24	27	TCS47					5	6A7, 6D6, 75, 43, 25Z5	456	7-11
116X	Vol.	2978	18	MR48	M26			2591	4	TC45					5	6A7, 6D6, 75, 25B6G, 25Z5	456	
								2594	4	RS207								
117, 117B	Vol.	2699	131	MR48	M27			2698	12	RS216					4	1C6, 1A4, 1B5, 1F4, 1B1	480	8-2
120	Vol.		7	H	6			16	23	RS216					4	6D6, 6C6, 43, 25Z5		7-1
								8	23	ST595								
121	Vol.	3067	7	H	6			2698	23	RS216					5	6D6, 6C6, ‡43, 25Z5		7-1
								2594	23	RS207								
125	Vol.	2726	18	MR48	M26			3285	3	RS216					7	6A7, 6D6, 75, 76, ‡43, 25Z5	456	
	Tone	2737	147	MR55				4234	3	TCS71								
127	Vol.	2726	18	MR48	M26			3375	23	RS216					7	6A7, 6D6, 75, 76, ‡42, 80	456	
	Tone	2737	147	MR55				3351	23	RS213								
130	Vol.	3612	7	H	6			3229	23	TC44/TC42					4	6D6, 6C6, 43, 25Z5, BK55B		8-3
134A, 134AZ, 134AB, 134X	Vol.		58	H	6			3229	23	TC44/TC42					4	6A7, 6C6, 43, 25Z5	456	8-3,4
135, 135E	Vol.	2602	18	MR48	M26			2698	23	RS216					6	6A7, 6D6, 75, 43, 25Z5, 6G5	456	8-4
								2594	23	RS207								
136, 136T	Vol.	3361	18	MR48	M26			2767	25	RS216					5	6A7, 6D6, 75, 41, 1V	456	8-5
								3351	25	RS213								
137	Vol.	2602	18	MR48	M26			2698	23	RS216					5	6A7, 6D6, 75, 43, 25Z5	456	8-6
								2594	23	RS207								
139	Vol.	3361	18	MR48	M26			2767	23	RS216					5	6A7, 6D6, 75, 41, 1V	456	8-7
	Tone		147	MR55				2766	23	RS216								
140	Vol.	2726	18	MR48	M26			2698	71	RS216					6	6A7, 6D6, 76, 6C6, 43, 25Z5	456	8-8
	Tone	2737	147	MR55				2594	71	RS207								
141, 141A	Vol.	3400	6	MR21	M26			3397	24/15	3S584/TN111					4	6D6, 6C6, 38, 76		8-3
142	Vol.	2726	18	MR48	M26			16	25	RS216					6	78, 6A7, 6D6, 75, 42, 80	456	
	Tone		147	MR55				8	25	RS213								
144, 144B, 144C	Vol.	3418	18	MR48	M27			3417	1	TC71		3421	245	C3	5	6D8G, 6S7G, 6T7G, ‡1F5G	456	8-9
	Tone	3571	147	MR55				2594	13	RS207								
								.015		Buffer	B14							
145B, 145CR	Vol.	3418	18	MR48	M27			8	1	ST595		3421	245	C3	7	6D8G, 6S7G, 6T7G, ‡33, 1H4G, 6L5G	456	8-10
	Tone	3571	147	MR55				16	1	ST597								
								8	13	TC71								
								.01		Buffer	B14							
147, 147E, 147ECR	Vol.	2726	18	MR48	M26			3375	23	RS216					7	6A7, 6D6, 75, 76, ‡42, 80	456	8-12
	Tone	2737	147	MR55				3351	23	RS213								
148	Vol.		45	MR48	M26			8-8	29	TCS61					7	6A7, 6D6, ‡76, 6C6, 43, 25Z5	456	8-13
	Tone		147	MR55				8	29	ST595								
								24	29	RS207								
149, 149E	Vol.	3361	18	MR48	M26			2767	25	RS216					5	6A7, 6D6, 75, 41, 1V	456	8-5
								3351	25	RS213								
150	Vol.	2726	18	MR48	M26			3285	3	RS216					7	6A7, 6D6, 75, 76, ‡43, 25Z5	456	8-14
	Tone	2737	147	MR55				4234	3	TCS71								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DETROLA—Continued																		
151	Vol.	3640	18	MR48	M26			3638	23	2S567					5	6A7, 6D6, 75, 43, 25Z5	456	
152	Vol.	3361	18	MR48	M26			2767	25	RS216					5	6A7, 6D6, 75, 41, 1V	456	
								3351	25	RS213								
153	Vol.	2574	7	H	6			3229	23	TC44/TC42					4	6D6, 6C6, 25B6G, 25Z5, BK55B		
154E	Vol.	3361	18	MR48	M26			3877	23	2N518					6	6A7, 6D6, 75, 6G5, 41, 84	456	8-15
155, 155X	Vol.	3800	124	DTM298-SS1				3111	72	TC82					11	[2]6K7, 6A7, 6116, 6G5, 6C5, [2]76, [2]42, 80	456	8-16
	Tone	3799	147	UM181-SS1	M28			3112	72	RS216								
	Sen.	3801	48	A2MP				3113	72	RS216								
								3136	72	TC26								
157A	Vol.		7	H				16-6	23	TC44/TC42					4	6D6, 6C6, 43, 25Z5		8-3
159	Vol.	3040	18	MR48	M26			3638	23	2S567					5	6A7, 6D6, 75, 43, 25Z5	456	8-19
161	Vol.		7	MR22	M26			3229	27	TC44/TC42					4	6C6, 6D6, 43, 25Z5		
162	Vol.	3067	7	H	6			3229	23	TC44/TC42					4	6D6, 6C6, 43, 25Z5		8-11
163	Vol.	3800	124	DTM298-SS1				3111	72	TC82					15	[2]6K7G, 6A7, 6H6G, [2]76, [2]42, 5Z3, 6G5	456	8-18
	Tone	3799	147	UM181-SS1	M28			3112	72	RS216								
	Sen.	3801	48	A2MP				4062	72	RS224								
								3079	14	TC42								
								4071	72/15	TC36								
164, 165	Vol.	3800	124	DTM298-SS1				3111	72	TC82					10	[2]6D6, 6A7, 75, 76, 6G5, [2]42, 80	456	8-21,22
	Tone	3799	147	UM181-SS1	M28			3112	72	RS216								
	Sen.	3801	105	A2MP				3113	72	RS216								
								3136	72	TC26								
166	Vol.		18	UM157-SS17				4165	1/15	3S579		3000	294	C3	6	6D6, 78, 75, 42, 84, 76	456	8-20
								.007		Buffer	B14							
167	Vol.	DR4255	18	MR48	M26			2698	23	RS216					5	6A7, 6D6, 75, 43, 25Z5	456	8-23
								2594	23	RS207								
168	Vol.	4266	7	H	6			3229	23	TC44/TC42					4	6D6, 6C6, 25B6G, 25Z5, BK55B		8-19
169	Vol.	2726	18	MR48	M26			4297	73	RS207					8	6A7, 6D6, 6Q7G, 6G5, [2]76, [2]43, 25Z5	456	8-24
	Tone	2737	147	MR55				4298	73/15	3N533								
172	Vol.	3067	58	H	6			3229	23	TC44/TC42					4	6A7, 6C6, 43, 25Z5	456	8-19
173	Vol.	2726	18	MR48	M26			3375	23	RS216					7	6A7, 6D6, 75, 76, [2]42, 80	456	
	Tone	2737	147	MR55				3351	23	RS213								
174	Vol.	2726	18	MR48	M26			4297	73	RS207					8	6A7, 6D6, 6Q7G, 6G5, [2]76, [2]43, 25Z5	456	8-24
	Tone	2737	147	MR55				4298	73/15	3N533								
175	Vol.	2726	18	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 6G5, [2]76, [2]42, 80	456	9-1
	Tone	2737	147	MR55				3351	23	RS213								
176	Vol.		8	MR22	M26			16-6	23	TC44/TC42					4	6D6, 6C6, 25B6G, 25Z5, BK55B	456	9-2
177	Vol.	2602	18	MR48	M26			2698	23	RS216					5	6A7, 6D6, 75, 43, 25Z5	456	8-6
								2594	23	RS207								
178	Vol.		18	MR48				8-8	23	2S567					5	6A7, 6D6, 75, 41, 84	456	9-3
179	Vol.	3067	58	H	6			3229	23	TC44/TC42					4	6A7, 6C6, 43, 25Z5	456	
180	Vol.	3418	18	MR48	M27			4459	24	2N513			245	C3	4	6D8G, 6S7G, 6T7G, 1D5G	456	
								.03		Buffer	B14							
182	Vol.	3067	58	H	6			3229	23	TC44/TC42					4	6A7, 6C6, 43, 25Z5	456	
183	Vol.		18	MR48	M26			3375	23	RS216					11	6A7, 6D6, 6Q7G, [2]76, [2]42, 80, 6G5	456	9-4
	Tone		147	MR55				4062	23	RS224								
								4528	13	TC42								
184	Vol.	3418	18	MR48	M27			4459	24	2N513			245	C3	4	6D8G, 6S7G, 6T7G, 1D5G	456	9-3
								.03		Buffer	B14							
185	Vol.	2726	18	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 6G5, [2]76, [2]42, 80	456	
	Tone	2737	147	MR55				3351	23	RS213								
190, 193 (T2, T3)	Vol.	2726	18	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 6G5, [2]76, [2]42, 80	456	9-1
	Tone	2737	147	MR55				3351	23	RS213								
191	Vol.		18	MR48	M26			3375	23	RS216					11	6A7, 6D6, 6Q7G, 6G5, [2]76, [2]42, 80	456	9-4
	Tone		147	MR55				4062	23	RS224								
								4528	14	TC42								
192	Vol.	3800	20	DTM298-SS1				4649	4	RS223					14	[2]6D6, 6A7, 6H6G, 6G5, [2]76, [2]42, 80	456	9-6
	Tone	2737	‡	MR55				4062	4	RS224								
								3079	13	TC42								
193	Vol.	2726	18	MR48	M26			3375	23	RS216					9	6A7, 6D6, 6Q7G, 6G5, [2]76, [2]42, 80	456	9-1
	Tone	2737	147	MR55				3351	23	RS213								
195 (C4)	Vol.	2726	18	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 6G5, [2]76, [2]42, 80	456	9-1
	Tone	2737	147	MR55				3351	23	RS213								
197	Vol.	4798	8	MR21	M26			16-6	23	TC44/TC42					4	6K7, 6J7, 25L6, 25Z6		9-3
204	Vol.	2726	18	MR48	M26			3375	23	RS216					9	6A7, 6D6, 6Q7G, [2]76 [2]42, 80, 6G5	456	9-8
	Tone	2737	106	MR55				3351	23	RS213								
205	Vol.	4982	18	MR48	M26			5006	1	2N518					5	6A7, 6D6, 6Q7G, 41, 80	456	
206	Vol.		45	MR48				10-6	1	2S569					6	6A7, 6D6, 76, 6AC5G, 41, 80	456	9-9
207								6-16	4	TC44/TC42					3	[2]6C5, 6L7		9-2
208A, 208AP	Vol.		8	MR22	M26			16-6	23	TC44/TC42					4	6D6, 6C6, 25L6G, 25Z5, BK55BG		9-9
	Phono.		63	MR39														
209	Vol.	5100	18	MR48				3285	1	RS216					8	6A7, 6D6, 6Q7G, 76, [2]41, 80, 6G5	456	
	Tone	5099	107	MR55	M26			5101	1	RS216								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DETROLA—Continued																		
210	Vol.	5100	45	MR48				3285	1	RS216					9	6A7, 6D6, ²76, 6G5, 6K5G, ²6V6G, 80	456	
	Tone	5099	107	MR55	M26			5101	1	RS216								
211	Vol.		18	MR48	M26			16-8	4	TC44/TC42					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BK49BG	456	9-9
212	Vol.		18	MR48	M26			16-8	4	TC44/TC42					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BK47BG	456	9-10
214	Vol.		18	MR48	M26			16-8	4	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BK49BG	456	
215	Vol.	5100	15	MR48				16	1	RS216					7	6A7, 6D6, 6Q7G, 76, ²41, 80	456	
	Tone		147	MR55				16	1	RS216								
216	Vol.	5252	8	MR22	M26			16-6	23	TC44/TC42					4	6K7, 6J7, 25L6, 25Z6		9-10
218	Vol.	4798	8	MR21	M26			16-6	23	TC44/TC42					4	6K7, 6F5, 25L6, 25Z6		9-11
219	Vol.		18	MR48	M26			20-10	4	TCS45					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	9-11
220	Vol.		45	MR48				16-8	1	2N509					6	6A7, 6D6, 76, 6K5G, 25L6G, 25Z5	456	9-10
221	Vol.		18	MR48				16-8	4	TC44/TC42					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BK49BG	456	9-11
222	Vol.		45	MR48				16-8	4	TC44/TC42					6	6A7, 6D6, 76, 6K5, 25L6G, 25Z5, BK42BG	456	9-12
223	Vol.	5332	18	MR48				5389	1	2S569					7	6A7, 6D6, 6Q7G, 76, ²43, 25Z5	456	9-13
225	Vol.	5332	18	MR48				5272	29	TC52					7	6A7, 6D6, 6Q7G, 76, ²43, 25Z5	456	9-14
								5420	29	TC52								
								5419	29	2N516								
226, 227	Vol.		18	MR48	M26			16-8	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5 (No. 227 uses BK49BG	456	9-12
228	Vol.	5332	18	MR48				5272	29	TC52					7	6A7, 6D6, 6Q7G, 76, ²43, 25Z5	456	9-14
								5420	29	TC52								
								5419	29	2N516								
231	Vol.	5512	46	MR48				5507	1	RS216					9	6A7, 6D6, ²76, 6K5G, ²6V6G, 80, 6G5	456	9-15
	Tone	5511	44	MR39				5101	1	RS216								
233	Vol.	5332	18	MR48	M26			8-8	1	2N516					7	6A7, 6D6, 6Q7G, ²43, 25Z5, 76	456	10-1
								8	13	TC42								
235	Vol.		8	MR22	M26		A14	16-6	23	TC44/TC42					4	6D6, 6C6, 25L6G, 25Z5, BK55BG		9-12
248	Vol.		45	MR48	M26			16-8	1	2N509					6	6A7, 6D6, 76, 6K5G, 25L6G, 25Z5	456	10-2
249	Vol.		18	MR48	M26			16-8	4	TC44/TC42					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BK49DG	456	10-2
250	Vol.		45	MR48	M26			16-8	4	TC44/TC42					6	6A7, 6D6, 76, 6K5G, 25L6G, 25Z5, BK49DG	456	10-2
251	Vol.	5332	18	MR48	M26			5420	29	TC52					7	6A7, 6D6, 6Q7G, ²43, 76, 25Z5	456	10-3
								5419	29	2N516								
								5272	29	TC52								
253	Vol.		45	MR48	M26			16-8	1	2N509					6	6A7, 6D6, 76, 6K5G, 25L6G, 25Z5	456	10-2
254	Vol.		18	MR48	M26			16-8	4	TC44/TC42					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BK49DG	456	10-2
256	Vol.	5332	18	MR48	M26			5420	29	TC52					7	6A7, 6D6, 6Q7G, ²43, 76, 25Z5	456	10-3
								5419	29	2N516								
								5272	29	TC52								
257	Vol.		7	H	6	2		20-8	4	TCS45					5	6A7, 6D6, 75, 25L6G, 25Z5, BK49DG		10-2
258	Vol.	5100	18	MR48				3375	1	RS216					8	²76, 6A7, 6D6, 6K5G, 6V6G, 80, 6G5	456	10-5
	Tone	5511	22	MR39	M26			3113	1	RS216								
259	Vol.	5100	18	MR48				3375	1	RS216					9	²76, 6A7, 6D6, 6K5G, ²6V6G, 80	456	10-5
	Tone	5511	22	MR39	M26			3113	1	RS216								
260	Vol.		8	H	6	2		16-6	23	TC44/TC42					4	6D6, 6C6, 25L6G, 25Z5, BK55BG		10-4
266	Vol.		8	H	6	2		16-16	4	TCS44					5	²6D6, 76, 25L6G, 25Z5, BK49BG		10-4
267	Vol.	5690	18	MR48	M26			15	15	TC26					6	6D8G, 6S7G, 6T7G, 1G5G, 6N5, 6ZY5G	456	10-7
								5273	40	TCS44			See Note C6					
								.03		Buffer	B14							
268	Vol.		6	H7	6	2		16-16	4	TCS44					6	²6D6, ²76, 25L6G, 25Z5		10-4
270	Vol.		106	MR48				‡	1	See Note	B3				7	6A7, 6D6, 75, 76, ²41, 80	455	10-8
	Tone		106	MR55	M26													
272	Vol.		8	H7	6		A14	16-6	4	TC44/TC42					4	6K7, 6F5, 25L6, 25Z6		10-4
274	Vol.		18	MR48	M26			20-12	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	10-9

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DETROLA—Continued																		
276U	Vol.		18	MR48	M26			20-12	4	TCS45					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	10-9
280 (Jr. PeeWee)	Vol.		8	H	6	2		20-8	23	TCS45					4	12K7GT, 12F5GT, 35L6GT, 35Z4GT		10-10
281	Vol.		18	MR48	M26			20-12	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-1
282	Vol.		18	MR48	M27			8	12	TC42					4	1A7, 1N5, 1H5, 1C5	455	10-8
283	Vol.		18	MR48	M26			16-12	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5G	455	10-10
284 (Super PeeWee)	Vol.		18	MR48	M26			20-12	4	TCS45					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	10-10
286	Vol.		18	MR48	M27										5	[1]1N5, 1A7, 1H5, 1C5	455	10-8
288	Vol.		18	MR48	M27			8	12	TC42					4	1A7, 1N5, 1H5, 1C5	455	10-8
293	Vol.	6593	18	MR48	M27			8	12	TC42					4	1A7, 1N5, 1H5, 1C5	455	11-1
295-1	Vol.		18	MR48	M27			40-40	25	[2]TC48					5	1A7, 1N5, 1H5, 1Q5, 25Z6GT	455	11-2
297	Vol.	6687	18	MR48	M26			16	78	TC26					4	6K8GT, 6K7GT, 6SQ7GT, 6K6GT	455	11-3
								6714	24	2N518		6735	248	C3				
								.005		Buffer	B14							
299	Vol.		18	MR48	M27			40-40	25	[2]TC48					4	1A7GT, 3A8GT, 1T5GT, 25Z6GT	455	11-2
								16	78	TC26								
301	Vol.		18	MR48	M26			16-12	4	TCS44					5	12SA7GT, 12K7GT, 12Q7GT, 12L6GT, 35Z4GT	455	11-2
302	Vol.		18	MR48	M26			20-12	1	2N509					5	12A8GT, 12L7GT, 35Q7GT, 35L6GT, 35Z4GT	455	11-1
303	Vol.		18	MR48	M27			8	12	TC42					4	1A7, 1N5, 1H5, 1T5	455	11-2
304	Vol.		18	MR48	M26			16-12	1	2N509					5	6A7, 6K7, 6Q7G, 25L6G, 25Z5	455	11-1
305	Vol.		18	MR48	M26			20-20	4	TCS45					7	6K8, 6K7GT, 6Q7GT, 6J5GT, [2]25L6GT, 25Z6GT	455	10-6/ 11-3
								4	13	TC42								
310	Vol.		18	MR48	M26			20-12	4	TCS45					6	6K8, 6K7GT, 6Q7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	10-6/ 11-4
314	Vol.	5100	106	MR48				16-16	1	TC74					8	6K8G, 6K7G, 6Q7G,		
	Tone	5099	106	MR55	M26											76, [3]6N6G, 80, 6U5	455	10-6/ 11-5
315	Vol.	5100	45	MR48				7113	1	TC74					11	6K8G, 6K7G, [4]76,		
	Tone	5099	106	MR55	M26											6F5, [5]6AC5G, 80, 6G5	455	10-6/ 11-6
318	Vol.		106	MR48	M26			8	23	RS213					5	6A7, 6D6, 75, 41, 1V	455	10-6/ 11-5
	Tone		106	MR55				10	23	RS216								
319	Vol.		18	MR48	M26			20-10	1/15	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-1
								12	1	TC44								
320	Vol.		124	MR48	M26			20-20-20	1/15	FP306					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	11-4/ 10-6
321	Vol.		18	MR48	M26			40	4	TC48					5	6K8G, 6K7G, 6Q7G, 25L6G, 25Z5, BK49BG	455	11-7
								20	4	TC47								
322	Vol.		18	MR48	M26			16	4	TC45					6	6A7, 6D6, 6Q7G, 25L6G, 25Z5, 6G5, BK42BG	456	11-7
								8	4	TC42								
324	Vol.		18	MR48	M26			40	4	TC48					5	6K8G, 6K7G, 6Q7G, 25L6G, 25Z5, BK49BG	455	11-7
								20	4	TC47								
325	Vol.		45	MR48				16, 16	1	TC74					11	6K8G, 6K7G, [4]76,		
	Tone		147	MR55												6F5, [5]6AC5G, 80, 6G5	455	11-6,7
326	Vol.		17	‡			A19	7400	25	TC74					11	[6]6K7G, 6K8G, 6Q7G, [7]76, [5]6AC5G, 80, 6U5	455	11-8-10
327	Vol.	6625	18	MR48	M26			5780	3	TC47					7	6K8GT, 6K7GT, 6Q7GT, [2]25L6GT, 6J5GT, 25Z6GT	455	12-1
328	Vol.	6625	18	MR48	M26			5780	1	TC47					6	6K8GT, 6K7GT, 6Q7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	12-2
329	Vol.		45	MR48	M26			16, 16	1	TC45					6	6A7, 6D6, 6J5GT, 6F5G, 25L6G, 25Z5	455	11-11
333	Vol.		18	MR48	M26			20, 20, 20	3	TC47					7	6K8GT, 6K7GT, 6Q7GT, [2]25L6GT, 6J5GT, 25Z6GT	455	11-10,11
335A	Vol.	2726	18	MR48	M26			5779	9	TC42					7	6K8GT, 6K7GT, 6SQ7, [2]25A6GT, 25Z6GT, 6J5GT	455	12-3
	Tone	2737	106	MR55				7892	9	RS213								
								7894	9	RS216								
								4	13	TC42								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DETROLA—Continued																		
339	Vol.	7952	18	MR48	M27			8010	1/78	FP304	.B117				6	1P5GT, 1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117M7GT	455	12-4
340, 340-1	Vol.	7952	18	MR48	M27			5780 8102	4 4/78	TC47 TC48/TC2501					6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 117M7GT	455	12-4
341, 341-1, 341-2	Vol.	7952	18	MR48	M27			20 40-100	4 4/78	TC45 TC48/TC2501					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117MGT	455	12-4
342	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	11-11
343	Vol.		18	MR48	M26			20-20	1	2N509					6	12SA7, [2]12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-12
346	Vol.	6687	18	MR48	M26			8211 .005	24/15 —	FP332 Buffer	— .B14	3000	294	C3	5	6K8GT, 6K7GT, 6SQ7, 6K6GT, 0Z4GT	455	12-5
349	Vol.	8314	18	MR48	M26			5101 3285	1 1	RS216 RS216					5	6K8GT, 6K7GT, 6V6GT, 80, 6SQ7GT	455	12-2,6
360, 360-1, 360-2	Vol.	7952	18	MR48	M27			20 40-100	4 4/78	TC45 TC48/TC2501					6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 50L6GT, 35Z4GT	455	12-4
361	Vol.		18	MR48	M27			16, 16	40	RS216					6	6D8G, 6S7G, 6T7G or 6Q6G, 6G6G, 6ZY5G	455	13-1
372	Vol.		18	‡			A5	10	12	TC44					4	1R5, 1T4, 1S5, 1S4	455	12-6
378	Vol.		149	UM161			A96	30-20-100	76	2N513/TC2501					5	1R5, 1T4, 1S5, 3S4, 35Z5GT	455	13-2
379	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-3
386	Vol.		18	MR48	M26			40-20	24	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-3
389, 389-1, 389-2	Vol.		149	MR48	M27			40-100 20	24/78 24	TC48/TC2501 TC45					6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 50L6GT, 35Z4GT	455	13-3
390	Vol.	8910	18	MR48	M26			8425	1/13	FP360					8	12SA7GT, 12K7GT, [2]12SQ7GT, [2]35L6GT, 35Z6G, 6U5	455	13-4,6
392	Vol.		88	MR48	M26			40-20	24	FP211					4	12SA7, 12SJ7, 50L6GT, 35Z5GT	455	13-7
393	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-8
394	Vol.		18	MR48	M26			20-20	1	2N509					6	12SA7,[2]12SK7,12SQ7, 35L6GT, 35Z5GT	455	13-8
397	Vol.		18	UM161	M27		A96	10	13	TC42					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	456	14-1,2
408	Vol.		18	UM161	M27		A96	10	13	TC42					5	1A7GT, 1N5GT, 1H5GT, [3]Q5GT	456	14-2,3
411-UL								40-20	24	2N514					2	12SK7, 35Z5GT		14-4
417	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-4
419	Vol.		18	MR48	M26			40-20	1	2N514					6	[2]12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	14-4,5
	Tone		22	MR33														
421 Series, 421-1	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-4,6
422	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-9
423	Vol.		7	MR14	M26		A14	40-20	1	FP211					4	12SA7, 12SJ7, 50L6GT, 35Z5GT	455	13-9
424	Vol.		18	MR48	M26			40-20	1	2N514					6	12SA7,12SK7,[2]12SQ7, 35L6GT, 35Z5GT	455	13-10
425	Vol.		18	MR48	M26			40-20-10	1/15	3N533					7	[2]12SK7,12SA7,[2]12SQ7, 35L6GT, 35Z5GT	455	14-7
428	Vol.		37	‡		See Note	A19	D-9657	1/15	TCD74/TC32					6	6SA7GT, 6SK7GT, [6]SQ7GT, 6K6GT, 6X5GT	455	14-2,8
	Tone		37	MR48														
429	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	456	14-9
433	Vol.		18	MR48	M26			40-20	24	2N514					6	12SA7,12SK7,[2]12SQ7, 35L6GT, 35Z5GT	455	13-10
441	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-9
442	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-9
445	Vol.		7	MR14	M26		A14	40-20	1	FP211					4	12SA7, 12SJ7, 50L6GT, 35Z5GT	455	13-9
446	Vol.		140	‡		See Note	A19	40	10	TC48					12	[2]12SA7,[2]12SK7, 12SJ7	455 Kc AM	
	Tone		140	MR48				10-20-20 10	10/3 15	FP371 TC22	.B3					12H6, 12SQ7, 6N5, 50L6GT,[2]35Z5GT	4.3 Mc FM	14-10,11

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DETROLA—Continued																		
448	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-12
	Tone		22	MR33														
503	Vol.		6	MR34				8-4	1	2N518					5	[3]58, 57, 47, 80	456	5-4
	Tone		22	MR33				10	17	TC22								
1000	Vol.		7	MR34	M26			4-4-21	11	UR182	B31				4	6D7, 6E7, 43, 25Z5		
1200	Vol.		15	MRT420	6			50-8-8-10	64	[3]UR182	B226				12	[4]6D6, [3]37, 85, [4]43, [2]25Z5	175	5-5
	Tone		44	MR33														
	Supp.		7	MR28														
1900	Vol.		20	‡		See No	te A19	16	1	ST597					7	[3]58, 2A7, 55, 53, 56, 80	175	9-16
	Tone		22	MR33				8	1	ST595								
								10	15	TC22								
2741	Vol.		18	MR48	M26			20-12	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 36L6GT, 35Z4GT	455	10-10
2742	Vol.		18	MR48	M26			20-12	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	10-9
2811	Vol.		18	MR48	M26			20-12	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-1
3041	Vol.		18	MR48	M26			16-12	1	2N509					5	6A7, 6K7, 6Q7G, 25L6G, 25Z5	455	11-1
3051	Vol.		18	MR48	M26			20-20	4	TCS45					7	6K8, 6K7GT, 6Q7GT, 6J5GT, [3]25L6GT, 25Z6GT	455	10-6/11-3
								4	13	TC42								
3101	Vol.		18	MR48	M26			20-12	4	TCS45					6	6K8, 6K7GT, 6Q7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	11-4/10-6
3201, 3202	Vol.		106	MR48	M26			20-20-20	1/15	FP306					5	12A8G, 12K7G, 12Q7G, 35L6G, 35Z5	455	11-4/10-6
3231	Vol.	2726	106	MR48	M26			7113	25	TC74					7	6K8G, 6K7G, 6Q7G, 6C5G, [3]6F6G, 80	455	11-10-12
	Tone	2737	106	MR55														
3271	Vol.	6625	18	MR48	M26			5780	3	TC47					7	6K8GT, 6K7GT, 6Q7GT, [2]25L6GT, 6J5GT, 25Z6GT	455	12-1
3281	Vol.		18	MR48	M26			20-20	1	2N509					6	6K8GT, 6K7GT, 6Q7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	11-4, 10,12
3331	Vol.	6625	18	MR48	M26			5780	3	TC47					7	6K8GT, 6K7GT, 6Q7GT, [2]25L6GT, 6J5GT, 25Z6GT	455	12-1
3332	Vol.	6625	18	MR48	M26			5780	3	TC47					7	6K8GT, 6K7GT, 6Q7GT, [2]25L6GT, 6J5GT, 25Z6GT	455	12-1
3422	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-6
3781	Vol.		149	UM161			A96	30-20-100	76	2N513/TC2501					5	1R5, 1T4, 1S5, 3S4, 45Z3	455	13-2
3861	Vol.		18	MR48	M26			40-20	24	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-3
3862, 3863	Vol.		18	MR48	M26			40-20	24	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-7
DEWALD																		
AC-LW15-6	Vol.	8190	6	E7	6	3		2062	4	TC71					6	[3]35, 24, 27, 47, 80		
B-A-C	Vol.		6	F7	6	5		2095	4	RM262					4	58, 57, 47, 82		3-8
B-A-G	Vol.	8214	6	F7	6	EX700		2062	4	TC71					6	[3]24, 27, 35, 47, 80	175	3-9
								2063	4	TC70								
B-A-H	Vol.		6	F7	6	4		2063	4	TC70					8	58, [3]56, 35, [3]57, 47, 82	175	3-10
								2062	4	TC71								
B-A-H-9	Vol.		6	F7	6	4		2062	4	TC71					9	58, 35, [3]56, [3]57, [3]47, 82	175	5-19
								2063	4	TC70								
B-A-M	Vol.		15	MR33				8-8	4	TCS71					12	[3]58, [3]35, 27, [4]56, [3]47, 82	465	5-20
	Tone		44	MR24														
B. L. G.	Vol.		6	F7		4		4-8	4	2S567					7	[3]58, 56, 57, 47, 82	115	4-16
K. A. D.	Vol.		6	MR21	M26	EX700									4	39, 36, 201A, 71A		3-10
K. A. F.	Vol.		6	MR21	M26	EX800									6	[3]36, 39, 37, [3]33	175	3-11
K. R. E.	Vol.		6	MR21		EX700									5	[3]39, 37, [3]33		5-21
AC14-45	Vol.		7	E12		EX700		3-3-1.5	2	See Note	B1				7	24, [4]27, 45, 80		2-2
AC24-45	Vol.		6	E12		EX700		1.5-3-1.5	2	See Note	B1				8	24, [4]27, [3]45, 80		2-2
40	Vol.		6	F7	6	EX700		4-4	4	TCS71					4	58, 57, 47, 82		3-5
41	Vol.		6	G7	6	5		8-5	1	2N518					4	78, 77, 38, 25Z5		4-1
								10-10	15	TN111								
42, 42R	Vol.		6	F7	6	5		2170	1	2N518					4	78, 36, 38, 12Z3		5-1
								10-10	15	TN111								
50	Vol.		6	F7	6	5		2103	4	RM262					5	24, 58, 57, 47, 82	175	4-2
51	Vol.		6	F7	6	EX800		8-4	4	2S567					5	24, 58, 57, 47, 82	175	3-12

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DEWALD—Continued																		
52	Vol.		15	MR48				‡	‡	See Note	B3		272	C3	5	[3]36, 85, 37, 89	175	4-3
								10	15	TC22								
53	Vol.		6	MR21	M26	EX800									5	[3]36, [3]33		3-12
54	Vol.		7	MR19	M26	EX200		2128B	1	2N518					5	36, [3]37, 38, 39		3-6
								2129A	15	TN111								
55	Vol.		6	G7		2		2134B	27	3S584	B88				5	78, 44, 77, 43, 25Z5	456	3-7
								5	15	TC22								
55R, 55X	Vol.		6	G7	6	2		2171	6	2S569					5	[3]78, 77, 43, 12Z3	456	4-4
								10, 10	15	TC22								
56	Vol.		6	G7		2		2134	4	TC44/TC42					5	6A7, 44, 77, 43, 25Z5	456	4-5
								5	15	TC22								
58	Vol.		6	‡		See Note	A5	2242	1	2N509					5	[3]6D6, 6C6, 43, 12Z3	455	5-3
								4, 4	15	TC22								
58L, 59	Vol.		6	MR28	M26	2		12-12	27	[3]TC44					5	6A7, 6D6, 6C6, 43, 12Z3	456	5-4
								4, 4	15	TC22								
60	Vol.		6	G7		1		2170	4	TC44/TC42					6	[3]39, 37, [3]43, 25Z5		4-6
								5	15	TC22								
60EX	Vol.		6	MR28	M26			2170	4	TC44/TC42					6	[3]78, 77, 37, 43, 25Z5	Early, 455	
								10, 10	15	TC22							Late, 175	4-7
61	Vol.	8308	56	UM154	M26	See Note	A96	2147	1	TC71		8304	292	C3	6	6A7, 78, 85, 37, 41, 84	456	4-8-12
								2133	15	TC48								
								.025		Buffer	B14							
62 Batt	Vol.		54	MR53											6	1A6, 34, 32, 30, [3]49	175	4-13
80	Vol.		15	MR48				8, 8	1	ST595					8	6A7, [3]78, 37, [3]42, 80	456	4-14
								10-, 10	15	TC22								
81	Vol.		15	MR48	M26			8, 8	1	ST595					8	6A7, [3]78, 37, [3]42, 80	456	5-5
	TunLgt.		‡	C15MP				10, 10	15	TC22								
81R	Vol.		15	MR48	M26			8, 8	1	ST595					8	6A7, [3]6D6, 37, 42, 80	456	5-6
	TunLgt.		‡	C15MP				10, 10	15	TC22								
	Tone		22	MR42														
90	Vol.		‡	‡		See Note	A5	2179	‡	TCS71					9	[3]58, [3]56, 55, [3]45, 80	262.5	
								2180	‡	TC70								
								2181	‡	TC42								
100	Vol.		15	MR48				8, 8	1	ST595					10	6A7, [3]78, [3]37, [3]42, 80	456	4-15
								10, 10	15	TC22								
AC145	Vol.		10	MR18				2-1-2	37	See Note	B1				7	[3]26, [3]27, 45, 80		2-1
AC171-2	Vol.		10	MR18				1-3-1	5	See Note	B1				8	[4]26, 27, [3]71A, 80		2-3
DC173-4	Vol.		10	MR18				2-1	2/12	See Note	B1				7	[3]12A, [3]71A		2-3
AC245	Vol.		10	MR18				2-2-2	3	See Note	B1				8	[3]26, [3]27, [3]45, 80		2-1
DC273	Vol.		10	MR18				2-1	2	See Note	B1				7	[3]12A, [3]71A		2-3
400	Vol.		6	MR28		See Note	A14	10-10	1	2N509					4	6D6, 6C6, 25B5, 25Z5		8-3
								5	15	TC22								
402	Vol.		6	MR24		EX500		10-10	6	2N509					4	6D6, 6C6, 43, 25Z5		6-1
								5-5	15	TN111								
403-4	Vol.	8499	6	G7				2283	1/15	4S715					4	6D6, 6C6, 43, 12Z3		6-3
403-4 Type 2	Vol.	8499	6	G7				2283	24/15	4S715					4	6D6, 6C6, 38, 1V		6-2
405	Vol.		6	MR28		See Note	A14	10-10	1	2N509					4	6D6, 6C6, 25B5 25Z5		8-3
								5	15	TC22								
406, 406LW	Vol.	3446	6	SRP263		EX300		2448	24	2N513					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT		9-1
406R	Vol.		6	MR29	M26			16, 16	24	TC45					4	12K7GT, 12F5GT, 50L6GT, 45Z5GT		10-1
408R	Vol.	3461B	18	MR53	M27			8	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	10-1
409	Vol.		18	UM161	M27		A96	8	13	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-1
410, 410A, 410R	Vol.	3315	45	MR53	M27			10	12	TC44					4	1R5, 1T4, 1S5, 1S4	455	12-2
411	Vol.	3466	63	MR48	M26			16, 16	24	TC45					2	12B8GT, 32L7GT		10-2
412	Vol.		6	UM129		See Note	A96	16, 16	24	TC45					4	12K7GT, 12F5GT, 50L6GT, 45Z5GT		10-1
414	Vol.		6	UM129	M26		A96	16-16	24	TC45					4	12K7GT, 12F5GT, 50L6GT, 45Z5GT		11-2
415, R415	Vol.		18	UM161	M27		A96	8	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	11-2
425R	Vol.		6	SRP263				10-12-4-4	6	4S715					4	6D6, 6C6, 43, 12Z3		5-7
430	Vol.		6	MR24		See Note	A14	4-8	24	2N516					4	6D6, 6C6, 38, 12Z3		7-1
								4	15	TC22								
440	Vol.		6	SRP263				10-12-4-4	6	4S715					4	6D6, 6C6, 43, 12Z3		5-7
AC447M	Vol.		7	MR28	M26	EX250		2-2	4	See Note	B1				4	35, 24, 47, 80		2-5
500A	Vol.		6	G7	6	4		2242	6	2N509					5	6A7, 6D6, 6C6, 43, 12Z3	130	5-8
								4-4	15	TN111								
501	Vol.		6	G7	6	4		8-8	6	2N516					5	6A7, 6D6, 6C6, 43, 12Z3	456	5-9
								4, 4	15	TC22								
501A	Vol.		18	MR48	M26			24-16	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-1
503-4	Vol.		6	‡		See Note	A5	2187	1	2N518					5	2A7, 58, 57, 2A5, 80	456	5-10
	Tone		22	MR33				5	15	TC22								
505	Vol.		6	MR24		See Note	A14	8-8	6	2N516					5	6A7, 6D6, 75, 43, 25Z5	456	6-6
								5	15	TC22								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DEWALD — Continued																		
505F	Vol.		6	SRP263		EX800		12-20	27	TCS45					5	6A7, 6D6, 75, 43, 25Z5	456	6-4
								5	15	TC22								
505R	Vol.	8474	6	SRP263		EX800		2272	6/15	3S582/TN111					5	6A7, 6D6, 75, 43, 25Z5	456	6-5
506	Vol.		7	UC512		See Note A14		10-10	1	2N516					5	6D6, ‡76, 43, 12Z3		6-6
								5, 5, 5	15	TC22								
506R	Vol.	8487	6	SRP263		See Note A14		2279	27/15	3S582/TN111					4	6D6, 6C6, 43, 25Z5, 185-Bal.		6-7
510	Vol.	8553	6	‡		See Note A5		2292	4	TCS71					5	6A7, 6D6, 6C6, 42, 80	456	6-4
515	Vol.		6	MR24				10-10	1	2N509					4	6D6, 6C6, 43, 25Z5, L55B		7-1
								4	15	TC22								
517	Vol.	8609	17	MR48	M26			8-8	1	2N518		8608	294	C3	5	6A7, 6D6, 75, 41, 0Z4	456	7-2
	Tone	3356	22	MR36				5	15	TC22								
								.01-.01		Buffer	B14							
517R	Vol.	8609	17	MR48	M26			8-8	1	2N518		8608	294	C3	5	6A7, 6D6, 75, 41, 84	456	7-2
	Tone	3356	22	MR36				5	15	TC22								
								.01		Buffer	B14							
518	Vol.		6	MR24				10-10	1	2N509					4	6D6, 6C6, 43, 25Z5, L55B		7-5
								4	15	TC22								
520	Vol.		6	E12				8-8	4	2S567					5	6A7, 6D6, 76, 42, 80	456	7-5
522	Vol.		18	MR48											5	1A6, 1A4, 1B5, 30, 33	456	8-4
AC524	Vol.	3068	40	MR18				8	4	RS213					5	‡24, 45, 80		2-4
527	Vol.		18	MR48	M26			8-8	23	2S567		8608	294	C3	5	6A7, 6D6, 75, 41, 84	456	8-5
	Tone		22	MR36				.01		Buffer	B14							
528, 528LW	Vol.		6	‡		See Note A5		10-10	1	2N509					4	6D6, 6C6, 25L6G, 26Z5, M55F		8-6
								5	15	TC22								
529, 529LW	Vol.		18	MR48				5-5	23	2S567					5	6A7, 6D6, 75, 41, 84	456	8-7
530, 530LW, 531, 531LW	Vol.		6	‡		See Note A3		16-10	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, M55F		9-2
								5	15	TC22								
532, 532LW	Vol.	3420A	6	SRP263	6			2423	1	2N509					6	6D6, 6C6, ‡25L6G, 25Z5, M55F, 8853		10-3
	Phono.		63	UM154		See Note A96		5	15	TC22								
532-3	Vol.		6	E7	6	3		.25-2	1	See Note	B7				5	‡36, ‡33		2-5
	Tone		21	MR53														
533, 533LW	Vol.	3431	8	MR14	M26			16-10	1	2N509					4	6A7, 6C6, 25L6G, 25Z5, L55F	456	9-2
								5	15	TC32								
534	Vol.		6			See Note A3		16-10	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, M55F		10-4
535-6	Vol.		6	E7	6	4		8-4	4	2S567					5	‡35, 24, 47, 80		2-6
537, 538, 539	Vol.	3454	18	UM154	M26		A96	2460	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5		11-4
542, 542LW	Vol.		18	UM154			A96	8-8	1	2S567					5	6A7, 6D6, 6Q7G, 41, 84	456	11-4
	Tone		21	UM154			A96	5	15	TC22								
544	Vol.		18	UM161	M27		A96	50-20	76	TN129					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z4GT	455	11-5
								100	76	TC2501								
545, 545LW, 545SW	Vol.		18	UM161	M27		A96	2540	76	FP309	B117				5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z4GT	455	11-6
547	Vol.		6	E7	6	5		4-4	4	See Note	B3				5	‡35, 24, 47, 80		2-6
547A	Vol.		6	E7	6	5		4-4	4	See Note	B3				5	‡35, 24, 47, 80		2-7
548, 549	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-3
553-4S	Vol.		6	G7	6	2		12-12	6	2N509					5	‡6D6, 6C6, 43, 12Z3	456	5-11
								4, 4	15	TC22								
555	Vol.		6	MR24	M26	EX250		1.5-4.5	1	See Note	B3				5	58, 57, 27, 2A5, 82		5-12
555 (1940)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-3
558, 559	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-3
560	Vol.		18	MR48	M26			24	24	TC47					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-11
								16	24	TC45								
561, 562	Vol.		18	MR48	M26			24-16	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-1
563	Vol.	3454	18	MR48	M26			2507	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-1
564	Vol.		149			See Note A3		30-20	24	2N514					5	1R5, 1T4, 1S5, 3S4, 35Z5GT	455	13-1
565	Vol.	3548	18	MR53	M27			2540	76	FP309	B117				5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-4
D366	Vol.	3507G	18	MR48	M26			2507A	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-2
568	Vol.	3496	18	MR48	M26			2505	1	TCD65					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-3
570	Vol.		6	MR28	M26	EX1000		8-4	1	See Note	B3				5	2A7, 57, 58, 2A5, 80	455	5-13
	Tone		22	MR33				5	15	TC22								
600	Vol.		6	SRP263	6	EX500		16-16	6	2N509					6	6A7, 78, 37, 6C6, 43, 25Z5	456	5-14
	Tone		22	MR33				4-4	15	TN111								
605	Vol.	8462	17	MR48	M26	RS246		8-8	1	2N518		8463	294	C3	6	‡6D6, 6A7, 75, 41, 84	175	6-9
								5-5	15	TN111								
								.025-.025		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DEWALD — Continued																		
606	Vol.	8462	17	MR48	M26	RS246		2269	1	TCS71		8463	294	C3	6	‡6D6, 6A7, 75, 41, 84	175	7-3,4
	Tone	3368	22	UM137			A96	2270	15	TN111								
								.025-.025		Buffer	B14							
607	Vol.	8462	17	MR48	M26	RS246		8-8	1	2N518		8463	294	C3	6	‡6D6, 6A7, 75, 41, 84	456	6-8
								5-5	15	TN111								
								.0075		Buffer	B14							
609	Vol.	8474	6	SRP263	6	EX800		2294	27/15	UR182					5	6A7, 6K7, 6J7, 43, 25Z5	456	6-11
609 Revised	Vol.	8474	6	SRP263	6	EX800		20-12	4	TCS45					5	6A7, 6K7, 6J7, 43, 25Z5	456	7-11
								5	15	TC22								
610, 610LW	Vol.	8533	17	MR48	M26			2292	4	TCS71					6	6A8, 6K7, 6H6, 6F5, 6F6, 80	456	6-12
611, 611LW	Vol.		6	‡		See Note	A5	20-12-5	27/15	UR182					6	6A8, 6K7, 6H6, 6F5, 43, 25Z5	456	6-13
	Tone		21	‡		See Note	A5											
612, 612LW, 615, 615LW	Vol.	8474	6	SRP263	6	EX800		2301	27/15	UR182					5	6A8, 6K7, 75, 43, 25Z5	456	6-14
616	Vol.		6	C12				20-12-5	27/15	UR182					5	6A7, 6D6, 76, 43, 25Z5, M49B	456	7-6
617	Vol.	8462	17	MR48	M26	RS246		2269	1	TCS71		8463	294	C3	6	‡6D6, 6A7, 75, 41, 84	175	7-3,4
	Tone	3368	22	UM137			A96	2270	15	TN111								
								.025-.025		Buffer	B14							
618	Vol.		18	‡		See Note	A5	16-16	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5, L49C	456	7-7
	Tone		21	‡		See Note	A5											
619	Vol.		6	C12				20-12-5	27/15	UR182					5	6A7, 6D6, 76, 43, 25Z5, L49C	456	7-6
620, 620LW	Vol.		18	‡		See Note	A5	8-8	4	2S567					6	6A7, 6D6, 75, 6G5, 42, 80	456	7-7
	Tone		147	‡		See Note	A5											
621, 621LW	Vol.		17	‡			A5	20-12	27	TCS45					5	6A7, 6D6, 75, 43, 25Z5, L49C	456	7-8
	Tone		147	‡			A5											
AC624	Vol.		7	E				8-5	4	See Note	B3				6	‡24, 45, 80		
	Tone		21	MR44														
629, 629LW	Vol.	8660	18	MR48	M26			16-16	1	2N509					6	6A7, 6D6, 75, 25L6G, 6G5, 25Z5	456	8-7
								5	15	TC22								
630	Vol.		6	II7		5		16-16-8	11	See Note	B96				6	‡78, 6A7, 77, 43, 25Z5	456	5-15
	Tone		22	MR33				5	15	TC22								
DC632	Vol.		40	MR18											6	30, ‡31, ‡32		2-8
636, 636LW, 636S, 636LW-S	Vol.		18	MR48				8-8	1	2N518					6	6A7, 6D6, 6Q7G, 6V6G, 6U5, 6X5G	456	9-3
								5	19	TC32								
637, 637LW, 637S, 637LW-S	Vol.		17	MR48				16-16	1	2N509					6	6A7, 6D6, 6Q7G, 25L6G, 6U5, 25Z5, L42F	456	9-3
	Tone		22	MR28														
637-8	Vol.		6	MR24			A14								6	‡36, 37, ‡38		2-7
640	Vol		17	MR48				2210	1	TCS71			Order from Mfr.		6	‡6D6, 6A7, 75, 41, 84	175	5-16
								5-5	15	TN111								
								.025-.025		Buffer	B14							
645, 645LW	Vol.		17	MR48				16-10	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, M49F	456	9-4
								5	15	TC32								
648, 648LW, 650, 650LW	Vol.	3430	17	MR48	M26			16-10	1	2N509					6	6A7, 6D6, 6Q7G, 25L6G, 76, 25Z5, M42F	456	9-5
	Tone	3432	21	MR48				5-5	15	TN111								
649, 649LW, 651, 651LW	Vol.	3430	18	MR48	M26			8-8	1	2N518					6	6A7, 6D6, 76, 6Q7G, 41, 84	456	9-9
	Tone	3432	21	MR48				5	19	TC32								
652	Vol.		17	MR48				16-10	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, M49F	456	9-4
								5	15	TC32								
655, 655LW, 656, 656LW	Vol.	3439	18	UM154	M26		A96	2460	1	2N509					5	12SA8, 12SK7, 12SQ7, 35L6GT, 35Z4GT, E7999	456	10-5
658, 658LW	Vol.		17	MR48	M26			16-10	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, M49F	456	11-1
661	Vol.		17	MR48	M26			16-10	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, M49F	456	11-1
662, 662L	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT, G-30-50	455	11-7
	Tone		21	MR53				20	15	TC26								
663	Vol.		18	MR48	M26			30-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT, G-30-50	455	11-3
665	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT, G-30-50	455	11-7
								20	15	TC26								
666	Vol.		18	MR48	M26			30-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT, G-30-50	455	11-3
666T	Vol.	3519A	18	MR48	M26			2507	1	2N509					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	13-4

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DEWALD—Continued																		
669	Vol.	3519A	18	MR48	M26			2507	24	2N509					6	12SA7,12SK7,[3]12SQ7, 35L6GT, 35Z5GT	455	12-5
670	Vol.		18	MR48	M26			2535	46/15	FP354/TC26	B3				6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-5
671	Tone Vol.	3538	21 18	MR53 MR48	M26			2534	1/15	3N527					6	[2]6SK7, 6SA7, 6SQ7, 6K6GT, 6X5GT	455	12-6
674	Tone Vol.	3539 3507G	21 18	MR53 MR48	M26			2556A	3	TCD55/TC55					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-7
675	Vol.		18	MR48	M26			24-16	1	2N509					6	[2]12SK7, 12SA7, 12SQ7, 50L6GT, 35Z5GT	455	13-8
700, 700LW	Vol.		18	MR48				16-16	27	TCS44					6	6A7, 6D6, 75, 6G5, 25Z5, L42C, 43	456	8-9
700A, 700A-LW	Tone Vol.		21 17	‡ MR48		See Note A5		20-20	6	2N509					7	6A7, 6D6, 75, 25L6G, 25Z5, L42C, 6G5	456	8-9
701, 701LW	Tone Vol.		22 17	MR39 MR48				5 20-20	15 1	TC22 2N509					5	6A7, 6D6, 6Q7G,		
702	Vol.	3407	18	UM154	M26		A96	10 8-8	15 23	TC22 2S567		8608	294	C3	7	25L6G, 25Z5, D-150 [2]6D6, 6A7, 75, 41,	456	9-7
703, 703LW	Tone Vol.	3390A 8660	22 18	UM137 MR48	M26		A96	.01 16-16		Buffer 2N509	B14				6	6H6, 84 6A7, 6D6, 75, 25L6G,	175	8-10
704, 704LW	Vol.		17	MR48	M26			5 30-16	15 1	TC22 2N514					6	6G5, 25Z5 6A7, 76, 6D6, 6Q7G,	456	8-7
	Tone		21	MR53				25 5	15 15	TC26 TC22						25L6G, 25Z5, M42F	455	11-8
705	Vol. Tone		17 21	MR48 MR53	M26			30-16 25	1 15	2N514 TC26					6	6A7, 76, 6D6, 6Q7G, 25L6G, 25Z5, M42F	455	11-8
706	Vol. Tone	3430 3432	18 57	MR48 MR48	M26			5 2527	15 1/15	TC22 3N527					7	6SA7, 6SK7, [2]6SQ7, 6K6GT, 6X5G, 6U5	455	12-7
707	Vol. Tone	3538 3539	18 21	MR48 MR53	M26			2535	46/15	FP354/TC26	B3				7	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT, 6N5/6AB5	455	13-5
708	Vol. Tone	3538 3539	18 21	MR48 MR53	M26			2534	1/15	3N527					7	[2]6SK7, 6SA7, 6SQ7, 6K6GT, 6U5/6G5, 6X5GT	455	12-6
AC724	Vol.		40	MR18				1.5-3-1	3	See Note	B1				7	[3]24, 27, [3]45, 80		2-9
724-1	Vol. Tone		6 41	G7 MR39	6		A14	12-8	1	3S584	B8				7	[3]24, 27, [3]45, 80		3-1
DC727	Vol.		40	MR18											7	[3]24, [3]27, [3]45		3-2
746-7M	Vol.		6	E7	6		A14	8, 8	4	ST595					8	[3]35, [3]27, [3]24, 47, 80	175	3-3,4
802, 803	Vol. Tone		17 21	MR48 MR53				8-8-8 4-4	5 15	3S584 TN111					8	[3]58, 2A7, 2A6, 2A5, [3]45, 80	456	5-17
804, 805	Vol. Tone	8515 3338	76 76	MR48 MR48	M26			2282 2286	26 26	TC71 RM262					8	[3]58, 2A7, 2A6, 2A5, [3]45, 80	456	6-15
804S, 805A, 805C	Vol. Tone	8515 3338	76 76	MR48 MR48	M26			2259 2282 2286	15 26 26	TC22 TC71 RM262					8	[3]58, 2A7, 2A6, 2A5, [3]45, 80	456	7-9
807	Vol.		73	MR48				2259 16-16	15 1	TC22 2N509					7	6A7, 6D6, [2]76, 75, 25L6G, 25Z5, L42F	456	9-8
810	Vol. Tone		45 22	MR48 MR53	M26			5 8-8	15 1	TC22 2N518					8	6A7, 6D6, [2]76, 6Q7G, 6U5, 6Y6G, 6X5G	456	12-8
811A	Vol. Tone		45 22	MR48 MR21				5, 25 8, 8	15 1	TC22/TC26 ST595					8	[4]6D6, 6A7, 37, 42, 80	456	5-18
812	Vol. Tone		17 21	MR48 MR48				10-10 30-16 25	15 1 15	TN111 2N513 TC26					7	6A7, 6D6, 6Q7G, 25L6G, 6U5, 76,		
814, 815, 816, 817	Vol. Tone		124 22	MR48 MR53	M26			5 16-16	15 1	TC22 2S569					8	25Z5, M42F 6SA7, 6SK7, [2]6SQ7, [2]6K6GT, 6U5, 5Z4	456 455	12-5 12-9, 11,12
906, 907, 908	Vol. Tone		124 22	MR48 MR53	M26			16-16	1	2S569					9	6SA7, 6SK7, [2]6SQ7, [2]6K6GT, 6U5, 5Z4	455	12-10-12
1002, 1003	Vol. Tone	3422 3423	108 22	MR44	M26	See Note A19		2426 2427 2428	1 1 15	ST597 ST597 TC32					10	[2]6K7, 6A7, 6H6, [2]6J5, [2]6F6, 6U5, 80	456	9-6
1100 (Early)	Vol. Tone		114 114	MR48 MR53				20-12 5	4 15	TCS45 TC22					9	6A8, 6K7, 6H6, 6C5, [3]43, [3]25Z5, 2600, 2601	456	7-11
1100 (Late)	Vol. Tone		114 114	MR48 MR53				20-12 8	4 ‡	TCS45 TC71					9	6A8, [2]6K7, 85, [3]43, [3]25Z5	456	7-12
								5 5	13 15	TC71 TC22								
1102-3	Vol.		18	MR48				40-25-8	11	See Note	B3				9	[2]6K7, 6A8G, 75, 6G5, [2]25B6, [2]25Z5, 8664, 8663	456	10-6
1104, 1105	Vol. Tone		17 41	MR53		See Note A19		40 16	1 ‡	RS224 ST597					8	[2]6K7, 6A7, 6R7, [2]25L6G, 6U5, 25Z5	456	9-10
1200	Vol.		15	MR48				5 16-16	15 1	TC22 2N509					8	6A7, 6D6, [2]76, 75,		
1201	Vol.		108	MR48				5 16-16	15 1	TC22 2N509					8	25L6G, [2]25Z5 6A7, 6D6, [2]76, 75,	456	8-6
								5	15	TC32						25L6G, D200, D150, D35, [2]25Z5	456	9-8

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ECHOPHONE																		
F	Vol.		6	MR24				8	4	RS213					6	[3]24,[3]45, 80		2-2
	Tone		44	MR21														
EC1	Vol.		18	MR48	M26			40-30-20	24/15	3N533					6	12K8, 12SK7, 12SQ7, 35L6GT, 12J5GT, 35Z5GT	455	14-1
EC2	Vol.	25-048	18	MR50	M26			30-30-40	46	2N513/TC48					7	6SG7, 6K8, 6SK7, 6H6, 6SC7, 25L6GT, 25Z6GT	455	13-1-3,7
								10	15	TC22								
EC3	Vol.	25-048	127	MR50	M26			30-30-40	46	2N513/TC48					8	6SG7, 6K8, [3]6SK7, 6H6, 6SC7, 25L6GT, 25Z6	455	13-4-7
	Sen.	25-066	7	MR19														
S3	Vol.		6	C12				2-1	25	See Note	B1				5	[3]24, 45, 80		1-1
4	Vol.		6	MR24				6790B	4	2S567					4	58, 57, 47, 80		3-12
S4	Vol.		3	D12				1-2	25	See Note	B1				6	[3]24, 27, 45, 80		1-4
5	Vol.		77	MR48				8, 8	4	RS213					6	55, 57,[3]58, 47, 80	175	3-1
	Tone		22	MR24														
S5 (Dynatron)	Vol.		6	H7				8	4	RS213					7	[4]24,[3]45, 80	175	1-7
	Tone		44	MR21														
S5 (Rev.)	Vol.		6	MR24				8	4	RS213					8	[4]24, 27,[3]45, 80	175	1-8
10	Vol.		77	MR48				8, 8	1	RS213					8	[3]58, 55, 57,[3]47, 80	175	3-4
	Tone		44	MR24														
12	Vol.		6	G7	6	2		8	4	ST595					5	[3]57, 58, 47, 80	175	3-7
								4	4	ST595								
14	Vol.		77	MR48				8, 8	4	RS213					6	55, 57,[3]58, 47, 80	175	3-3
	Tone		22	MR24														
15	Vol.		77	MR48				8, 8	1	RS213					8	[3]58, 57, 55,[3]47, 80	175	3-4
	Tone		44	MR24														
16, 17, 18	Vol.		77	MR48				8, 8	1	RS213					8	55, 56, 57,[3]58,[3]47, 80	175	3-5
	Tone		44	MR24														
20	Vol.		77	MR48				8, 8	4	RS213					8	[3]58, 57, 55,[3]47, 80	175	3-4
	Tone		44	MR24														
35, 36	Vol.		15	UM154		See Note	A96	8, 8	1	RS213					12	55,[3]56, 57,[4]58,[3]46, 80	175	3-9,11
	Tone		22	MR48				8	12	RS213								
	Sen.		‡	M1001[3]														
38	Vol.		6	G7		2		8-4	4	See Note	B3				5	[3]57, 58, 47, 80	175	3-7
40 Echoette	Vol.		6	MR24	M26	EX300		8-4	4	See Note	B3				4	24, 35, 47, 80		2-3
44	Vol.		6	MR24		EX300		6790B	4	2S567					4	58, 57, 47, 80		3-12
50	Vol.		6	H7				8, 8	4	RS213					6	24, 27,[3]35, 47, 80	175	3-13
	Tone		22	MR24														
60	Vol.		6	MR24		EX200		8, 8	4	RS213					7	24, 27,[3]35, 47, 80	175	2-4
	Tone		22	MR24	M26													
70DC	Vol.		6	MR24	M26	EX200		6	1	2N509	B11				8	[3]37,[3]39,[3]71A	175	3-16
	Tone		22	MR24														
80	Vol.		6	MR24	M26	EX200		8	1	RS213					8	24, 27,[3]35,[3]47, 80	175	2-5
	Tone		22	MR24				4	1	ST595								
81	Vol.		15	MR48	M26			8, 8	4	RS213					8	24,[3]27,[3]35, 47, 80	175	3-18
	Tone		22	MR24														
90	Vol.		6	MR24	M26	EX200		8	1	RS213					8	24, 27,[3]35,[3]47, 80	175	2-7
	Tone		22	MR24				12	1	RS215								
90 (Rev.)	Vol.		6	H7		2		12	1	RS215					8	24, 27,[3]35,[3]47, 80	175	3-17
	Tone		22	MR24				8	1	RS213								
110	Vol.		7	MR45	M26			12-5	24	2N509					4	78, 77, 38, 12Z3		
								10	15	TC22								
111	Vol.		7	MR45		EX350		12-5	24	2N509					4	78, 77, 38, 12Z3		5-1
								10-10	15	TN111								
119	Vol.	256	18	MR48				8-4	1	See Note	B3				5	2A7, 58, 2A6, 2A5, 80	456	5-2
	Tone	306	22	MR33	M26			307	15	TC22								
124	Vol.		18	MR48				8-4	1	See Note	B3				7	56, 57,[3]58, 2A6, 2A5, 80	456	5-3
	Tone		22	MR33				10	15	TC32								
126	Vol.		18	MR48	M26			8-4	1	See Note	B3				5	2A7, 58, 2A6, 2A5, 80	456	5-3
128	Vol.		7	MR45		See Note	A14	5-12-5	8	TN125					4	78, 77, 43, 25Z5		5-1
								10	15	TC22								
139, 139C	Vol.		18	MR48				8-8	1	See Note	B3				6	6A7, 6D6, 75,[3]42, 80	456	6-1
	Tone		22	‡		See Note	A5	10	15	TC32								
143	Vol.	452	18	MR48	M26			156	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	5-4
								307	15	TC22								
180	Vol.		‡	MR48	M26			16	11	TC55						‡	‡	
	Tone		22	MR33				8	11	TC52								
1731	Vol.		18	MR48				8-4	1	See Note	B3				5	58, 2A7, 2A6, 2A5, 80	456	
1734, 1734A	Vol.		18	MR48				8-4	1	See Note	B3				5	2A7, 58, 2A6, 2A5, 80	456	
								10	15	TC22								
1800	Vol.		6	SRP263		See Note	A14	8-4	1	2N518					4	58, 57, 2A5, 80		
								10	15	TC22								
7110	Vol.		7	MR45		See Note	A14	12-5	24	2N509					4	77, 78, 38, 12Z3		
								10-10	15	TN111								
7114	Vol.		6	SRP263		See Note	A14	5-16-5	11	UR182	B31				5	6A7, 6D6, 75, 43, 25Z5	456	
7124	Vol.		18	MR48				8-4	1	2N518					7	[3]58, 57, 56, 2A6, 2A5, 80	456	
	Tone		22	MR33				10	15	TC32								
7126	Vol.		7	MR45		See Note	A14	5-12-10-10	24/15	See Note	B5				4	77, 78, 38, 12Z3		
7127	Vol.		18	MR48	‡			8-4	1	See Note	B3				5	58, 2A7, 2A6, 2A5, 80	456	
	Tone		22	MR33	‡			10	15	TC32								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EDISON-BELL																		
36	Vol.		42	G	6			8, 8	4	ST595					6	24A, ‡58, ‡47, 80		5-1
	Tone		22	MR33														
53	Vol.		6	SRP263	6	EX200		16-8	6	2N509					5	‡6C6, 6D6, 43, 25Z5	175	5-1
								4-4	15	TN111								
53LW	Vol.		6	SRP263	6	EX200		16-8	6	2N509					5	6A7, 6D6, 6C6, 43, 25Z5	115	5-2
								2-4	15	TN111								
55AW	Vol.		17	MR48	M26			16-16-4-4-2	8/15	See Note	B3				5	6A7, 6D6, 75, 43, 25Z5	456	5-3
63	Vol.		18	MR48	M26			16-16	1	2N509					6	37, 6A7, 6D6, 75, 43, 25Z5	175	5-4
								4-4	1/15	2N516								
63LW	Vol.		18	MR48	M26			16-16	8	2N509					6	‡6D6, 6A7, 75, 43, 25Z5	115	5-5
								4-4	8/15	2N516								
66AW	Vol.		17	MR48	M26			16-16-8-4-4	11	See Note	B3				6	‡6D6, 6A7, 75, 43, 25Z5	456	5-6
EILEN RADIO LABS.																		
5 Tube	Reg.		12	MR39				8-8	4	2S567					5	6D6, 6C6, 76, 42, 84		
	Sen.		7	D		5												
ELEC. AUTO LITE																		
No. 11	Vol.		7	MR40											6	35, ‡24, 27, ‡71A		
062A, 3622A	Vol.		45	MR48				4	15	TC32			Order from Mfr.		6	‡39, 36, 37, 41	262	4-1
	Tone		21	MR39														
072A, 3722A	Vol.		18	MR48				4	12	TC71			Order from Mfr.		7	‡39, 36, 37, ‡41	262	4-2
	Tone		44	MR39				4	15	TC32								
82	Vol.		15	MR48				10	19	TC22					7	‡36, 37, ‡27, 47		
	Tone		21	MR48														
E & A (Electric & Automotive Products Co.)																		
4M	Vol.		6	SRP263	6			16-8	1	2N509					4	78, 77, 38, 12Z3		6-1
								5-5	15	TN111								
1L-5	Vol.		6	SRP263		EX500		16-10	1	2N509					5	6A7, 78, 77, 43, 25Z5	125	6-3
								5-5	15	TN111								
6AW	Vol.		17	MR48				8-8	1	2N518					6	‡78, 6A7, 75, 42, 80	456	6-4
								5-5	15	TN111								
SW-6	Vol.		18	MR48				10	1	TC72					6	2A7, ‡58, 2A6, 2A5, 80	456	6-2
								5	15	TC32								
25AW	Vol.		17	MR48				8-8	1	2N518					5	6A7, 78, 75, 42, 80	456	6-1
								5-5	15	TN111								
30AW	Vol.		17	MR48				10-25	1	2N509					6	‡78, 6A7, 75, 43, 25Z5	456	6-3
								5-5	15	TN111								
35AW	Vol.		17	MR48				8-8	1	2N518					6	‡78, 6A7, 75, 42, 80	456	6-4
								5-5	15	TN111								
1L55LW	Vol.		6	SRP263		EX500		25-10	6	2N509					5	6A7, 78, 77, 43, 25Z5	125	6-3
								5	15	TC22								
303	Vol.		6	SRP263		EX500		10	1	TC44					3	6A7, 6F7, 12A7	456	6-4,5
								5-5	15	TN111								
303LW	Vol.		6	SRP263		EX500		10	1	TC44					3	6A7, 6F7, 12A7	456	6-5
								5-5	15	TN111								
303SW	Vol.		6	SRP263		EX500		10	1	TC44					3	6A7, 6F7, 12A7	456	6-5
								5-5	15	TN111								
405	Vol.		6	SRP263		EX500		16-10	6	2N509					4	6A7, 6F7, 43, 12Z3	456	6-6
								5-5	15	TN111								
405LW	Vol.		6	SRP263		EX500		16-10	6	2N509					4	6A7, 6F7, 43, 12Z3	456	6-6
								5-5	15	TN111								
ELECTRICAL RESEARCH LABS.—See "Erla"																		
ELECTRONIC																		
331								8-8-20	1	2N516/TC26		430	292	C3		84		4-2
								.02-.02		Buffer	B14							
332 32V								8-8-25	1/19	2N516/TC26		530	Order from Mfr.			25Z5		4-2
								.02-.02		Buffer	B14							
EL-REY																		
4 Tube Midget	Vol.		6	SRP263	6	EX200		4-4	23	TCS71					4	58, 57, 47, 80		§5-14
	Tone		22	MR24														
7 Tube AW	Vol.		56	MR44	M26			8-8	1	See Note	B3				7	55, 56, 57, ‡58, 2A5, 80	262.5	6-2
	Sen.		7	C				10	15	TC22								
	Tone		22	MR24														
10, 15	Vol.		6	SRP263		EX300		4-4	23	TCS71					4	58, 57, 47, 80		6-1
	Tone		22	MR24		See Note A4												
20	Vol.		17	MR44	M26			4-8	4	See Note	B3				6	57, 58, 59, 55, 80, 56	465	6-1
	Tone		22	MR24				25	15	TC26								
644	Vol.		18	MR48	M26			8-8	23	See Note	B3				6	6A7, ‡6D6, 75, 42, 80	465	6-3
	Tone		22	MR24														
845	Vol.		83	MR48				8-8	1	See Note	B3				8	55, 56, 57, ‡58, ‡2A5, 5Z3	465	6-4
	Tone		44	MR24														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ELEC. SPEC. EXPORT CORP. "Stratfield"																		
R502	Vol.		6	MR18	M26	2		20-20	6	2N509					5	6A7, 6D6, 75, 43, 25Z5	456	5-4
								10-10	15	TN111								
38	Vol.		6	MR45	M26	EX250		8	24	TC42					4	6D6, 6C6, 38, 12Z3		5-1
								10	15	TC22								
45	Vol.		6	MR44				8-12-10-10	6/15	4S715					4	6D6, 6C6, 43, 25Z5		5-2
48	Vol.		6	MR44		EX250		16-12-10-10	1/15	4S715					4	6D6, 6C6, 38, 25Z5		5-1
69	Vol.		6	MR18	M26	EX200		20-20	1	2N509					6	6A7, 6D6, 85, [2]43, 25Z5	456	5-3
								10	15	TC22								
EMERSON																		
A130, A132 (type 1) up to 799, 301	Vol.	TTR159E	6	E12	6	EX500		3CC261	6	RS207					5	6A7, 6D6, 76, 43, 25Z5	456	7-31,32
								KKC145	15	TN111								
A130, A132 (type 2) 799, 301 to 819, 200	Vol.	TTR159E	6	E12	6	EX500		3CC261	6	RS207					5	6A7, 6D6, 75, 43, 25Z5	456	7-31,32
								KKC145	15	TN111								
A130, A132 (type 3) 819, 201 up	Vol.	3FR256	18	MR48	M26			3CC261	6	RS207					5	6A7, 6D6, 75, 43, 25Z5	456	7-31,32
								KKC145	15	TN111								
AA131 (chassis AA) below 1,266,501	Vol.	2NR214C	18	MR44	M26			3CC261	25	RS207					5	6A7, 6D6, 75, 43, 25Z5	456	8-15
								YC98A	13	TC42								
AA131 (chassis AA) above 1,266,501	Vol.	2NR214C	18	MR44	M26			3CC261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-15
								3CC337	1	FP115								
AB178 (below 1,373,394)	Vol.	3XR287	18	MRT426				3XC329	1	RS223					14	[3]6K7, 6A8, [7]6C5, [3]6F6, [3]80	456	9-25
	Tone	3XR277	‡	MR48	M26			YC98A	13	TC42								
								IC43A	15	TC22								
AB178 (above 1,373,394)	Vol.	3XR287	18	MRT426				3XC329	1	RS223					14	[3]6K7, 6A8, [7]6J5, [3]6F6, [3]80	456	9-25
	Tone	3XR277	‡	MR48	M26			YC98A	13	TC42								
								IC43A	15	TC22								
AB182 & AB183 (below 1,373,394)	Vol.	3XR287	18	MRT426				3XC329	1	RS223					14	[3]6K7, 6A8, [7]6C5, [3]6F6, [3]80	456	9-25
	Tone	3XR277	‡	MR48	M26			YC98A	13	TC42								
								IC43A	15	TC22								
AB182 & AB183 (above 1,373,394)	Vol.	3XR287	18	MRT426				3XC329	1	RS223					14	[3]6K7, 6A8, [7]6J5, [3]6F6, [3]80	456	9-25
	Tone	3XR277	‡	MR48	M26			YC98A	13	TC42								
								IC43A	15	TC22								
AB184 (AB)	Vol.	3XR287	18	MRT426				3XC-329	1	RS223					14	[3]6K7, 6A8, [7]6J5, [3]6F6, [3]80	456	9-21
	Tone	3XR277	127	MR48	M26			YC-98A	13	TC42								
								IC-43A	15	TC22								
AC130	Vol.	3FR265B	18	MR44	M26			3RC318A	23	2S567					5	6A7, 6D6, 6Q7 or 75, 41, 80	456	8-9,10
AC149	Vol.	3FR265B	18	MR44	M26			3RC318A	23	2S567					5	6A7, 6D6, 6Q7, 41, 80	456	8-9,10
AC168	Vol.	3FR265B	18	MR44	M26			3RC-318A	23	2S567					5	6A7, 6D6, 6Q7, 41, 80	456	8-9,10
AC202 (AC)	Vol.	3FR256B	18	MR48	M26			3RC-318A	23	2S567					5	6A7, 6D6, 6Q7G, 41, 80	455	9-45,46
	Tone	4LR312A	114	MR48	M26													
AD108	Vol.	2DR169A	18	MR48	M26			4DC345	1	2N509					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-1,2
AD110	Vol.	2DR169A	18	MR48	M26			4DC345	1	2N509					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-1,2
AD125	Vol.	2DR169A	18	MR48	M26			4DC345	1	2N509					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-1,2
AE163 (chassis AE)	Vol.	ZZR190A	18	MR48	M26			3CC261	1	RS207					5	6A7, 6D6, 6Q7G, 25L6, 25Z5	456	8-37
AF171, AF173, AF176, AF179, AF180, AF185	Vol.	4FR301	18	MR48	M23			VVC221	12	TC42					6	[1]1A4, 1C6, 1B5, 1F4, 1E1	456	8-45
AG151 (chassis AG)	Vol.	3MR252	18	MR44				3MC290	1	FP115					9	6K7, 6A8, 6D6, 6Q7G, 6C5, [3]25L6, [3]25Z5	456	8-29
	Tone	3MR251	44	MR39				3MC291	1	FP115								
								3MC292	13	ST595								
								KKC145	15	TN111								
AH162 (AH)	Vol.	3ZR288	18	MR48	M26			4HC348	1	2N509					5	6A7, 6D6, 6Q7G, 25L6, 25Z5	456	8-35
								IC43A	15	TC22								
AH166, 171, 173, 174, 176, 180, 185 (AH)	Vol.	2NR2140	18	MR44	M26			4HC-348A	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	9-3
	Vol.	3ZR288	18	MR48	M26		A27	IC-43A	15	TC22								
AJ130, AJ137, AJ149	Vol.	3HR240	18	MR48	M27			VVC221A	13	TC42					5	1C6, 1A4, 1B5, 30, 1F4	456	8-11
AL130, AL132, AL149	Vol.	3FR256	18	MR48	M26			3CC261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-13
AL164	Vol.	3FR256	18	MR48	M26			3CC261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-39
	Tone	4LR312	‡	MR48	M26													

‡ Data not substantiated.

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§ Indicates miscellaneous section

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
AL168	Vol.	3FR256	18	MR48	M26			3CC261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-13
AL202 (AL)	Vol.	3FR256	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6,		
	Tone	4LR312A	‡	MR48	M26		A4									25Z5	456	9-11
ALLW130, ALLW132, ALW149, ALLW168	Vol.	3FR256	18	MR48	M26			3CC261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-13
								IC43A	15	TC22								
AM131	Vol.	2NR214C	18	MR44	M26			3CC261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	9-1
								3CC337	1	FP115								
AM153 (AM)	Vol.	3FR256B	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 2UR-224	456	9-1
								3CC-337	1	FP115								
AM169 (AM)	Vol.	3FR256B	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 2UR-224	456	9-1
								3CC-337	1	FP115								
AM187 (AM)	Vol.	2NR214C	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 2UR-224	456	9-1
								3CC-337	1	FP115								
AP165, AP166 (AP)	Vol.	2NR214D	18	MR44	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 3CR-241	456	9-13
								3CC-337	1	FP115								
AP171, AP173, AP174, AP176 (chassis AP)	Vol.	2NR214D	18	MR44	M26			3CC261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-47
								3CC337	1	FP115								
AP177 (AP)	Vol.	2NR214D	18	MR44	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 3CR-241	456	9-13
								3CC-337	1	FP115								
AP180, AP185 (AP)	Vol.	2NR214D	18	MR44	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 3CR-241	456	8-47
								3CC-337	1	FP115								
AR165 (below 1,326,200)	Vol.	3ZR288	45	MR48	M26			3LC314	23	ST597					6	6A7, 6D6, ²76, 41, 80	456	9-15
								3ZC341	23	RS223								
AR165 (above 1,326,200)	Vol.	3ZR288	18	MR48	M26			3LC314	25	ST597					6	6A7, 6D6, 6Q7, ²41, 80	456	9-15
								3ZC341	25	RS223								
AR165 (Between 1412601-1413601 above 1416650)	Vol.		15	MR44	M26			3LC314	25	ST597					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16
								3ZC-341	25	RS223								
AR166 (below 1,326,200)	Vol.	3ZR288	45	MR48	M26			2NC246	23	RS216					6	6A7, 6D6, ²76, 41, 80	456	9-16
								2NC247	23	RS216								
AR166 (above 1,326,200)	Vol.	3ZR288	18	MR48	M26			2NC246	25	RS216					6	6A7, 6D6, 6Q7, ²41, 80	456	9-16
								2NC247	25	RS216								
AR166 (Between 1412601-1413601 above 1416650)	Vol.		15	MR44	M26			2NC-246	25	RS216					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16
								2NC-247	25	RS216								
AR171, AR173 (Below 1326000)	Vol.	3ZR288	45	MR48	M26			2NC-246	23	RS216					6	6A7, 6D6, ²76, 41, 80	456	8-41,44
								2NC-247	23	RS216								
AR171, AR173 (Above 1326000)	Vol.	3ZR288	18	MR48	M26			2NC-246	25	RS216					6	6A7, 6D6, 6Q7, ²41, 80	456	9-18
								2NC-247	25	RS216								
AR171, AR173 (Between 1412601 and 1413601 above 1416650)	Vol.	3ZR288	18	MR48	M26			2NC-246	25	RS216					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16
								2NC-247	25	RS216								
AR174 (Below 1,326,000)	Vol.	3ZR288	45	MR48	M26			3LC-314	23	ST597					6	6A7, 6D6, ²76, 41, 80	456	8-41,44
								3ZC-341	23	RS223								
AR174 (Above) 1,326,000)	Vol.	3ZR288	18	MR48	M26			3LC-314	25	ST597					6	6A7, 6D6, 6Q7, ²41, 80	456	9-18
								3ZC-341	25	RS223								
AR174 (Between 1412601 and 1413601 above 1416650)	Vol.	3ZR288	18	MR48	M26			3LC-314	25	ST597					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16
								3ZC-341	25	RS223								
AR176 (Below 1326000)	Vol.	3ZR288	45	MR48	M26			2NC-246	23	RS216					6	6A7, 6D6, ²76, 41, 80	456	8-41,44
								2NC-247	23	RS216								
AR176 (Above 1326000)	Vol.	3ZR288	18	MR48	M26			2NC-246	25	RS216					6	6A7, 6D6, ²76, 41, 80	456	9-18
								2NC-247	25	RS216								
AR176 (Between 1412601 and 1413601 above 1416650)	Vol.	3ZR288	18	MR48	M26			2NC-246	25	RS216					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16
								2NC-247	25	RS216								
AR177 (below 1,326,200)	Vol.	3ZR288	45	MR48	M26			2NC246	23	RS216					6	6A7, 6D6, ²76, 41, 80	456	9-16
								2NC247	23	RS216								

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
AR177 (above 1,326,200)	Vol.	3ZR288	18	MR48	M26			2NC246	25	RS216					6	6A7, 6D6, 6Q7, ‡41, 80	456	9-16
								2NC247	23	RS216								
AR177 (Between 1412601-1413601 above 1416650)	Vol.	3ZR288	15	MR48	M26			2NC-246	25	RS216					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16
								2NC-247	25	RS216								
AR180, AR185 (Below 1326000)	Vol.	3ZR288	45	MR48	M26			2NC-246	23	RS216					6	6A7, 6D6, ‡76, 41, 80	456	8-41,44
								2NC-247	23	RS216								
AR180, AR185 (Above 1326000)	Vol.	3ZR288	18	MR48	M26			2NC-246	25	RS216					6	6A7, 6D6, 6Q7, ‡41, 80	456	9-18
								2NC-247	25	RS216								
AR180, AR185 (Between 1412601-1413601 above 1416650)	Vol.	3ZR288	18	MR48	M26			2NC-246	25	RS216					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16
								2NC-247	25	RS216								
AS179	Vol.	3IIR240	18	MR48	M26			4SC355	1	2S569		4SV11	294	C3	5	6D8G, ‡6S7G, 6Q7, 41	456	8-49
								.02-.02		Buffer	B14							
AT170, AT172, AT181 (AT) (Below 1386551)	Vol.	4TR303	18	MR48	M26			2NC-246	23	RS216					6	6A7, 6D6, 6Q7G, 76, 41, 80	456	8-41
								2NC-247	23	RS216								
AT170, AT171, AT181 (AT) (Above 1386551)	Vol.	4TR303	18	MR48	M26			2NC-246	25	RS216					6	6A7, 6D6, 6Q7, ‡41, 80	456	9-18
								2NC-247	25	RS216								
AU190 (AU)	Vol.	3FR256A	18	MR48	M26			4DC-345	1	2N509					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	9-27-28
AV193 (AV)	Vol.	3FR256B	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49D	455	9-29
								3CC-337	1	FP115								
AW171, 173, 174, 176, 180, 185, (AW)	Vol.	3ZR288	18	MR48	M26			2NC-246	25	RS216					6	6A7, 6D6, 6Q7G, ‡41, 80	456	9-19
								2NC-247	25	RS216								
AX211, 212, 217, 219 (AX)	Vol.	4XR328A	18	MR44	M26			4IIC-348B	1	2N509					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	9-51
	Tone	4LR312B	‡	MR48	M26													
AX221 AC, AX221 AC-DC, AC222 (Ch. AX)	Vol.	4XR355	18	MR44	M26			4IIC-348B	46	2N509					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	10-9
	Phono.	4LR312B	‡	MR48	M26			4XC-404	46	TC47								
AX232 AC, AX232 AC-DC (Ch. AX)	Vol.	4XR335	18	MR44	M26			4IIC-348B	46	2N509					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	10-9
	Tone	4XR342	57	MR48				4XC-404	46	TC47								
AX240 (Ch. AX)	Vol.		18	MR44	M26			4IIC-348B	46	2N509					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	10-17
								4XC-404	46	TC47								
AXLW211, AXLW212	Vol.		18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-5
AXLW217	Vol.		18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-5
AXLW235	Vol.		18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-5
AXLW237, AXLW238, AXLW239	Vol.		18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-5
AXLW257	Vol.		18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-5
AY194, 195 (AY)	Vol.	3ZR288	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 3CR-241	456	9-33
								3CC-337	1	FP115								
AZ196 (AZ)	Vol.	3XR277	18	MR48	M26			4ZC-379	25	RS216					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-35
								4ZC-380	25	RS216								
B-AC-10	Vol.	ER17	18	MR48	M26			EC17	1	ST597					10	‡58, 55, 56, 57, ‡46, 82	175	3-7
	Tone	ER18	44	MR18				EC25	1	ST595								
	Supp.	ER24	3	E12														
B131	Vol.	2NR214C	18	MR44	M26			3CC261	25	RS207					5	6A7, 6D6, 75, 43, 25Z5	456	7-33
								YC98A	13	TC42								
BA199, BA201 (BA)	Vol.	2VR219D	6	MR36	M26			4DC-345A	1	2N509					4	6D6, 6C6, 25L6, 25Z5, L55BG		9-31
BB208, BB209 (BB)	Vol.	2VR219F	6	MR36	M26			4DC-345A	1	2N509					4	6D6, 6C6, 25L6, 25Z5, L55BG		9-40
BD197 (BD)	Vol.	3ZR288	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 3CR-241	456	9-33
								3CC-337	1	FP115								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
BE198 (BE)	Vol.	3FR256B	18	MR48	M26			3RC-318A	23	2S567					5	6A7, 6D6, 6Q7, 41, 80	456	9-37-39
BF191 (BF)	Vol.	3FR256B	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 2UR-224	456	9-1
								3CC-337	1	FP115								
BG138, 140, 142, 146 (BG)	Vol.	3PR258	18	MR44				4HC-348A	1	2N509					6	6A7, 6D6, 6Q7G, 25L6G, 25Z5, 6G5, L49BG	455	9-3
BG178, 182, 183 (BG)	Vol.	3PR258	18	MR44				4HC-348A	1	2N509					6	6A7, 6D6, 6Q7G, 25L6G, 25Z5, 6G5, L49BG	455	9-3
BH203 (Ch. BH)	Vol.	3FR-256	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	13-1
BJ200, 210, 214 (BJ)	Vol.	3FR256B	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	9-41
BJ218 (Ch. BJ)	Vol.		18	MR48	M26			20-20	46	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	10-7
	Phono.		63	MR48				20	46	TC47								
BJ220 (Ch. BJ)	Vol.		18	MR48	M26			20-20	46	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	10-7
	Phono.		63	MR48				20	46	TC47								
BL200, 210, 214 (BL)	Vol.	3FR256B	18	MR48	M26			3RC-318A	23	2S567					5	6A7, 6D6, 6Q7G, 41, 80	455	9-43
BL218 (Ch. BL)	Vol.		18	MR48	M26			5-5-8	56	See Note	B3				5	6A7, 6D6, 6Q7G, 41, 80	455	10-8
	Phono.		63	MR48														
BL220 (Ch. BL)	Vol.		18	MR48	M26			5-5-8	56	See Note	B3				6	6A7, 6D6, 6Q7G, 41, 80	455	10-8
	Phono.		63	MR48														
BM206, 215, 216, BN206 215 (BM, BN)	Vol.	2VR219E	6	MR36	M26			4DC-345A	1	2N509					4	6D6, 6C6, 25L6, 25Z5, ‡L55BG		9-47
BN216 (BN)	Vol.	2VR219G	6	MR36	M26			4DC-345A	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, L55BG		9-50
	Phono.	2VR219H	‡	MR36	M26													
BQ223 (Ch. BQ)	Vol.		18	MR48	M26			16-16	25	See Note	B3				6	6K8, 6K7, 6Q7G, 76, 6AC5G, 80	455	10-11
BQ225, 228 (BQ)	Vol.	3XR277	18	MR48	M26			4ZC-379	25	RS216					6	6K8, 6K7, 6Q7G, 76, 6AC5G, 80	455	9-53
								4ZC-380	25	RS216								
BR224, BR244A (Ch. BR)	Vol.		18	MRT426				30, 30	1	RS223	B3				13	‡6K7, 6K8, 6Q7, ‡6J5, ‡6AC5G, ‡80	455	10-13-16
	Tone		21	MR48	M26			40	13	RS224	B3							
BR226 (BR)	Vol.	3XR287	18	MRT426				3XC-329	1	RS223					13	‡6K7, 6K8, 6Q7, ‡6J5, ‡6AC5G, ‡80	455	9-55
	Tone	3XR277	21	MR48	M26			3SC-303	13	RS224								
BS227 (BS)	Vol.	3XR287	18	MRT426				3XC-329	1	RS223					15	‡6K7, 6K8, 6Q7, ‡6J5, ‡6AC5G, ‡80, 6AF6G	455	9-55
	Tone	3XR277	21	MR48	M26			3SC-303	13	RS224								
BT245 (Ch. BT)	Vol.	2NR214	18	MR44	M26			4HC-348D	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	10-21
BU229, 230 (BU)	Vol.	3XR277	18	MR48	M26			4ZC-379	23	RS216					7	6K8, 6K7, 6Q7G, 76, 6AC5G, 6U5, 80	455	9-53
								4ZC-380	23	RS216								
BW231 (BW)	Vol.	3XR277	18	MR48	M26			4ZC-379	23	RS216					6	6K8, 6K7, 6Q7G, 76, 6AC5G, 80	455	9-53
								4ZC-380	23	RS216								
BX208, BX209 (Ch. BX)	Vol.		6	MR36	M26			16, 16	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, L55BG		10-2
BY233 (BY)	Vol.	2NR214E	18	MR44	M26			4HC-348B	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	9-48
CS	Vol.	R102	6	G7	6	3		A-404	4	TC70					5	‡24, 35, 47, 80	175	3-4
C134, C136, C138, C139, C140, C142	Vol.	NNR157B	18	MR48				3BC282	4	RS215					8	‡6K7, 6A8, 6R7, 6G5, 6C5-6J7, 6F6-6L6, 5W4	456	7-35,36
	Tone	NNR157B	‡	MR48				3BC289	4	RS224								
								3BC281	14	TC52								
CA208, CA209 (Ch. CA)	Vol.	2NR214F	18	MR44	M26			4HC-348A	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG		10-3,4
CA234 (Ch. CA)	Vol.	2NR214F	18	MR44	M26			4HC-348A	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG		10-3,4
CB243 (Ch. CB)	Vol.	3XR277	18	MR48	M26			4ZC-379	25	RS216					8	‡6K7, 6K8, 6Q7G, 76, 6AC5G, 6U5, 80	455	10-19
								4ZC-380	25	RS216								
CD206 (Ch. CD)	Vol.	2VR219E	6	MR36	M26			4DC-345A	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, L55BG		10-1
CD215 (Ch. CD)	Vol.	2VR219E	6	MR36	M26			4DC-345A	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, L55BG		10-1
CE259, CE260, CE263 (Ch. CE)	Vol.	3HR240B	18	MR48	M27			6EC-414	12	TC42					5	1A7G, ‡1N5G, 1H5G, 1C5G or 1Q5G	455	10-25

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
CE259, CE260, CE263 (Late) Ch. CE (Late)	Vol.	3HR-240B	149	MR48	M27			6EC-432	12	TC42					5	1A7G, §1N5G, 1H5G, 1Q5G	455	13-3,4,5
	Vol.	3HR-240C	149	MR48	M27													
CF255 (Ch. CF)	Vol.	6FR346	6	MR36	M26	EX200		4HC-348B	24	2N509					2	12B8GT, 32L7GT		10-23
CG268, CG270, CG272, CG276 (Chassis CG)	Vol.	6SR362	18	MR48	M26			6JC426U	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, L49BG	455	11-11,12
	Vol.	6GR352	18	MR44	M26		A4											
CG293, CG294	Vol.	6SR362	18	MR48	M26			6QC437	1	2N514					5	6A8GT, 6K7GT, 6SQ7GT/6Q7GT, 25L6GT, 25Z6GT	455	11-19,20
	Vol.	6GR352	18	MR44	M26		A4											
CG318	Vol.	6SR362	18	MR48	M26			6JC426U	1	2N509					5	6A8GT, 6K7GT, 6SQ7GT/6Q7GT, 25L6GT, 25Z6GT	455	11-11,12
	Vol.	6GR352	18	MR44	M26		A4											
CG1-293, CG1-294	Vol.	6SR362	18	MR48	M26			6QC437	1	2N514					5	6A8GT, 6K7GT, 6SQ7GT/6Q7GT, 25L6GT, 25Z6GT	455	11-19,20
	Vol.	6GR352	18	MR44	M26		A4											
CH243 (Ch. CH)	Vol.		18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-18
CH246 (Ch. CH)	Vol.		18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-18
CH253 (Ch. CH)	Vol.		18	MR44	M26			4HC-348B	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	13-2
CH256 (Ch. CH)	Vol.		18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-18
CJ211, CJ217, CJ235 (Ch. CJ)	Vol.	4XR335	18	MR44	M26			6JC426U	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	10-6
CJ211, CJ217 (Above 2700250)	Vol.	4XR335	18	MR44	M26			6JC426U	1	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	
CJ221, CJ1-221 (Below 2700250)	Vol.	4XR335	18	MR44	M26			6JC426U	24/13	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-1,2
	Tone	4LR312B	‡	MR48	M26			4XC404	24	TC47								
CJ221, CJ1-221 (Above 2700250)	Vol.	4XR335	18	MR44	M26			6JC426U	21	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-1,2
	Tone	4LR312B	‡	MR48	M26			4XC404	21	TC47								
CJ232, CJ1-232 (Below 2700250)	Vol.	4XR335	18	MR44	M26			6JC426U	24/13	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-1,2
	Tone	4XR342	21	MR48				4XC404	24	TC47								
CJ232, CJ1-232 (Above 2700250)	Vol.	4XR335	18	MR44	M26			6JC426U	24/13	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-1,2
	Tone	4XR342	21	MR48				4XC404	25	TC47								
CJ235 (Below 2700250)	Vol.	4XR335	18	MR44	M26			6JC426U	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	
CJ235 (Above 2700250)	Vol.	4XR335	18	MR44	M26			6JC426U	1	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	
CJ257 (Below 2700250)	Vol.	4XR335	18	MR44	M26			6JC426U	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	10-6
CJ257 (Above 2700250)	Vol.	4XR335	18	MR44	M26			6JC426U	1	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	10-6
CL246, CL253, CL256 (Ch. CL)	Vol.		18	MR44	M26			20-20	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	10-22
CM260 (Ch. CM)	Vol.	4XR335	18	MR44	M26			6JC426	1	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT or 35L6GT, 35Z5GT or 35Z4GT	455	10-24
CM266, CM267 (Ch. CM)	Vol.	4XR335	18	MR44	M26			6JC426	1	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	10-24

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
CQ269, CQ271, CQ273	Vol.	6SR362	18	MR48	M26			6QC437	1	2N514					6	6K8GT, 6K7GT, 6SQ7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	11,13-14
CQ286	Vol.	6SR362	18	MR48	M26			6QC437	46	2N514					6	6K8GT, 6K7GT, 6SQ7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	11-13,14
					•			6YC450	46	TC48								
CR261, CR262 (Ch. CR)	Vol.	6VR364	18	MR44	M26			6JC426B	1	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	10-27
	Vol.	6RR359	18	MR44	M26		A27											
CRLW261, CRLW262 (Ch. CRLW)	Vol.	6VR364	18	MR48	M26			20-20	1	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-3
	Vol.	6RR359	18	MR44	M26		A27											
CR274 (Ch. CR)	Vol.	6VR364	18	MR44	M26			6JC426B	1	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	10-27
	Vol.	6RR359	18	MR44	M26		A27											
CRLW274 (Ch. CRLW)	Vol.	6VR364	18	MR48	M26			20-20	1	2N509					5	12A8GT, 12K7GT, 12SQ7G, 50L6GT, 35Z5GT	455	11-3
	Vol.	6RR359	18	MR44	M26		A27											
CR297, CR303	Vol.	6VR364	18	MR48	M26			6JC426B	46	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-19, 23,24
								4XC404	46	TC47								
CR1-297, CR1-303	Vol.	6VR364	18	MR48	M26			6JC426B	46	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-19, 23,24
								4XC404	46	TC47								
CS268 CS270, CS272, CS276	Vol.	6SR362	18	MR48	M26			6QC437	1	2N514					6	6K8GT, 6K7GT, 6SQ7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	11-12-14
CS317	Vol.	6SR362	18	MR48	M26			6QC437	1	2N514					6	6K8GT, 6K7GT, 6SQ7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	.....
CS320	Vol.	6SR362	18	MR48	M26			6QC437	1	2N514					6	6K8GT, 6K7GT, 6SQ7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	.....
CT275 (Ch. CT)	Vol.	3HR240C	18	MR48	M27			6EC432	12	TC42					5	1A7G, ²1N5G, 1H5G, 1Q5G	455	10-28
CV264, 280, 295, 298, 313, 314, 316 (Ch. CV)	Vol.	6VR364	18	MR48	M26			6JC426B	1	2N509					5	12A8GT/12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-7,8
								6ZC460	15	TC26	B20							
								6VC446	‡	TC47								
CULW261, 262, 265, 274 (Ch. CULW)	Vol.	6UR360	6	MR36	M26	EX200		6UC447	24	2N513					5	12J5GT, 12K7GT, 12SF5GT, 50L6GT, 35Z5GT		11-4
CU265	Vol.	6UR360	6	MR36	M26	EX200		6UC-447	24	2N513					5	12J5GT, 12K7GT, 12SF5GT, 50L6GT, 35Z5GT		11-10
CV289, CV290, CV1-290	Vol.	6UR364	18	MR48	M26			6JC426B	1	2N509					5	12SA7GT/12A8GT, 12K7GT, 12SQ7GT 50L6GT, 35Z5GT	455	11-17,18
	Tone	6UR366	‡	MR36	M26													
CV291, CV1-291	Vol.	6UR364	18	MR48	M26			6JC426B	46	2N509					5	12SA7GT/12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-17,18
	Tone	6UR366	‡	MR36	M26			4XC404	46	TC47								
CW279	Vol.	7BR363A	18	MR44	M26			6JC426D	1	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-16,24
CX263, CX283, CX284, CX305	Vol.	3HR240C	18	MR48	M27			6EC432	12	TC42					5	1A7GT, ²1N5GT, 1H5GT, 1Q5GT	455	11-5,6
CX285	Vol.	3HR240C	18	MR48	M27			6EC432	12	TC42					5	1A7GT, ²1N5GT, 1H5GT, 1Q5GT	455	11-5,6
CX292	Vol.	3HR240C	18	MR48	M27			6EC432	12	TC42					5	1A7GT, ²1N5GT, 1H5GT, 1Q5GT	455	11-5,6
CY269, CY271, CY273, CY286, CY288 (Ch. CY)	Vol.	6SR362	18	MR48	M26			6JC426U	1	2N509					5	6A8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, L49BG	455	11-11,12
	Vol.	6GR352	18	MR44	M26		A27											
CY319	Vol.	6SR362	18	MR48	M26			6JC426U	1	2N509					5	6A8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, L49BG	455	11-11,12
	Vol.	6SR352	18	MR44	M26		A7											

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
CZ282	Vol.	7BR363A	18	MR44	M26			6JC426D	1	2N509					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-16,24
								6VC446	‡	TC47								
DC4	Vol.		7	‡		See Note	A5	1-1	1	See Note	B7				4	[3]39, 36, 33		3-2
D5	Vol.		6	MR24		EX500		UC-93	4	TCS71					5	[2]58, 57, 47, 80	456	4-1
D134, D136, D138, D139, D140, D142, D146	Vol.	3AR228	20	MRT427	M26			3AC255	3	RS213					10	[2]6K7, 6A8, 6H6, 6G5, 6F5, 6C5, [2]6F6, 5Z3	456	7-37,38
	Tone	NNR157B	22	MR48				3AC277	3	RS224								
								IC43B	15	TC22								
								3AC256	15	TC32								
D134LW, D136LW, D138LW, D139LW, D140LW, D142LW, D146LW (DLW)	Vol.	3AR288	20	MRT427	M26			3AC-255	3	RS213					10	[2]6K7, 6A8, 6H6, 6F5, 6C5, [2]6F6, 6G5, 5Z3	456	8-19
	Tone	NNR157B	22	MR48				3AC-277	3	RS224								
DA287	Vol.	6GR352	18	MR44	M26			7AC443	1	TC74					6	6K8G, 6K7GT, 6SQ7GT, 6P5GT, 6AC5G, 5Y3G	455	11-21,14
								7AC444	1	TC74								
DB296, DB301, DB315, DB327	Vol.	7BR363C	18	MR48	M26			6JC426C	1	2N509					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-22
DB1-301	Vol.	7BR363C	18	MR48	M26			6JC426C	1	2N509					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-22
DC308	Vol.	3HR240D	18	MR48	M27			6EC432	12	TC42					5	1A7GT, [1]1N5GT, 1H5GT, 1Q5GT	455	11-29
DD268, 279, 272, 276 (Ch. DD)	Vol.		18	MR48	M26			40-20	1	2N514					6	6SA7GT, 6K7, 6SQ7, 6AE5, 25AC5, 25Z6, L42B	455	11-15
DF302, DF306	Vol.	3HR240C	18	MR48	M27			6JC426E	1	2N509					6	1A7GT, [1]1N5GT, 1H5GT, 3Q5GT, 70L7GT/117L7GT	455	11-25,26
								7FC451	15	TC29								
DH264	Vol.	7HR373	18	MR48	M27			6EC432	12	TC42					5	1A7GT, [1]1N5GT, 1H5GT, 1Q5GT	455	11-9
DJ310, DJ311, DJ312	Vol.	3HR240E	18	MR48	M27			6JC426E	1	2N509					6	1A7GT, [1]1N5GT, 1H5GT, 3Q5GT, 117L7GT/70L7GT	455	11-27,28
								7FC451	15	TC29								
DL330	Vol.	7LR378	18	MR48	M26			6JC426C	1	2N509					5	12SQ7, 12SA7, 12K7GT, 50L6, 35Z5	455	11-22
DL1-330 (Ch. DL1)	Vol.	7LR378	18	MR48	M26			6JC426C	1	2N509					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-30,22
DM331, DM1-331	Vol.	6SR362	18	MR48	M26			6JC426	1	2N509					5	6A8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, L49BG	455	11-31
DP332, DP1-332	Vol.	6SR362	18	MR48	M26			6QC437	46	2N514					6	6K8GT, 6K7GT, 6SQ7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	11-32
								6YC450	46	TC48								
DQ333, DQ334, DQ1-333, DQ1-334	Vol.	3BR363A	18	MR48	M26			6JC426F	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-5
	Vol.	7BR363C	18	MR48	M26		A27											
DQ351 (DQ)	Vol.		18	MR48	M26			6JC466AU	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-5
DQ398	Vol.		18	MR48	M26			6JC-466AH	1	2N509					5	12SA7GT, 12SQ7GT, 12SK7GT, 50L6GT, 35Z5GT	455	12-5
DR343 (DR), DRI-343 (DR)	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-11
DR348 (DR), DRI348 (DRI), DR349 (DR)	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-11
DR350 (DR), DRI350 (DRI)	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7GT, 12SQ7GT, 12SK7GT, 50L6GT, 35Z5GT	455	12-11
DR352 (DR), DRI352 (DRI)	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-11

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
DS365 (DS)	Vol.		124	‡			A19	30	1	RS223					9	6K7, 6SA7, 6SQ7, 6L6, 6U5, 5Z3	455	12-7-10
								30	1	FP145	B20							
								16, 16	1/13	2S569								
DS372	Vol.		124	‡			A19	30	1	RS223					9	6K7, 6SA7, 6SQ7, 6L6, 6U5, 5Z3	455	12-7-10
								30	1	FP145	B20							
								16, 16	1/13	2S569								
DU379, DU380	Vol.		18	MR55	M27			10	12	TC44					4	1R5, 1T4, 1S5, 1S4	455	12-33
DV364	Vol.		18	MR48	M26			16, 16	1	2N518					8	6SA7GT, 6B8GT, 6SQ7GT, 6P5GT, 6AC5GT, 6SJ7GT, 5Y3G, 6E5	455	12-17,18
DX356 (Ch. DX) Below 3,842,250	Vol.		18	MR44	M26			16, 16	23	TC74					5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 5Y3G	455	12-16,15
DX356 (Ch. DX) Above 3,842,250)	Vol.		18	MR44	M26			15-15-20	1/15	FP339					5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 5Y3G	455	12-15,16
DY337 (DY), DY1-337 (DY1)	Vol.		18	MR48	M26			6JC426B	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-6
DY349 (DY), DY1-349 (DY1)	Vol.		18	MR48	M26			6JC426B	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 35Z5GT, 50L6GT	455	12-6
DY351 (DY), DY1351 (DY1)	Vol.		18	MR48	M26			6JC426B	1	2N509					5	12SA7GT, 12SK7GT, 12Q7GT, 50L6GT, 35Z5GT	455	12-6
DZ371	Vol.		18	MR48	M26			16-16	1	2N518					8	6SA7GT, 6B8GT, 6SQ7GT, 6P5GT, 6AC5GT, 6SJ7GT, 6E5, 5Y3G	455	12-17-20
E128	Vol.	OOR161B	45	UM157		See Note A96		QQC169C	1/15	4S718		3DV-8	294	C3	6	78, 6A7, 6B7, 76, 41, 84	172.5	7-30
								.0075		Buffer	B14							
EA312 (EA)	Vol.		18	MR48	M27			6JC426D	1	2N509					6	1A7GT, 1N5GT, 1H5GT, 117L7GT, 3Q5GT	455	12-3,4
								40	15	TC29								
EA338 (EA), EA339 (EA)	Vol.		18	MR48	M27			6JC426D	1	2N509					6	1A7GT, 1N5GT, 1H5GT, 117L7GT, 3Q5GT	455	12-3,4
								40	15	TC29								
EA357 (EA)	Vol.		18	MR48	M27			6JC426D	1	2N509					6	1A7GT, 1N5GT, 1H5GT, 117L7GT, 3Q5GT	455	12-3,4
								40	15	TC29								
EA385 (EA)	Vol.		18	MR48	M27			6JC426D	1	2N509					6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117L7GT	455	12-3,4
								40	15	TC29								
EA389 (EA)	Vol.		18	MR48	M27			6JC426D	1	2N509					6	1A7GT, 1N5GT, 1H5GT, 117L7GT, 3Q5GT	455	12-3,4
								40	15	TC29								
EA1-341 (EA1)	Vol.		18	MR48	M27			20-20	1	2N509					6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6GT	455	12-7,8
								40	78	TC48								
EB344 (EB)	Vol.		18	MR48	M27			20-20	1	2N509					6	1A7GT, 1N5GT, 1H5GT, 117L7GT, 3Q5GT	455	12-3,4
								40	15	TC29								
EB359 (EB)	Vol.		18	MR48	M27			20-20	1	2N509					6	1A7GT, 1N5GT, 1H5GT, 117L7GT, 3Q5GT	455	12-3,4
								40	15	TC29								
EC296 (EC), EC1-296 (EC1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EC301 (EC), EC1-301 (EC1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EC314 (EC), EC1-314 (EC1), EC315 (EC), EC1-315 (EC1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SQ7GT, 12SK7GT, 50L6GT, 35Z5GT	455	12-1
EC327 (EC), EC1-327 (EC1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
EC336 (EC), EC1-336 (EC1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EC347 (EC), EC1-347 (EC1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EC353 (EC), EC1-353 (EC1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EC366 (EC), EC1-366 (EC1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
ED354 (ED) (Below 3,816,700)	Vol.	6GR352	18	MR44	M26			7AC443 7AC444	23 23	TC74 TC74					5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 5Y3G	455	12-12
ED354 (ED) (Above 3,816,700)	Vol.	6GR352	18	MR44	M26			8DC522	1/15	FP339					5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 5Y3G	455	12-12
EE340 (EE)	Vol.		18	MR48	M27			20-20 40	1 15	2N509 TC29					6	1A7GT, ‡1N5GT, 1H5GT, 117L7GT, 3Q5GT	455	12-3,4
EE390 (EE)	Vol.		18	MR48	M27			20-20 40	1 15	2N509 TC29					6	1A7GT, ‡1N5GT, 1H5GT, 117L7GT, 3Q5GT	455	12-3,4
EF363 (EF)	Vol.		18	MR48	M27			40-20 40	1 15	2N514 TC29					6	1A7GT, ‡1N5GT, 1H5GT, 117L7GT, 3Q5GT	455	12-13,14
EG355 (EG)	Vol.		18	MR48	M26			40-20 40	24 13	2N514 TC48					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6U5, 25Z6GT	455	12-13,14
EH342 (EHO), EH1-342 (EH1)	Vol.		18	MR48	M26			6JC466AU	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-5
EJ378	Vol.		18	MR48	M26			40-20-20	46	TN129					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-31
EK377 (EK)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EK403 (EK)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EK2-377 (EK)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EL360, EL361, EL362, EL363, EL373	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-21
EM345 (EM), EM1-345 (EM1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EM346 (EM), EM1-346 (EM1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EM382 (EM)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EM2-345 (EM), EM3-345 (EM1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EM2-346 (EM), EM3-346 (EM1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EM2-382 (EM)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-1
EP367	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-21

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
EP375	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-21
EP381	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-21
EP405, EP406	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-21
EQ368	Vol.		18	‡			A19	15-15-20	1/15	FP339					6	6SA7GT, 6SK7GT, 6J5GT, 6SQ7GT, 6V6GT, 5Y3G	455	12-22
EQ410	Vol.		18	‡			A19	15-15-20	1/15	FP339					6	6SA7GT, 6SK7GT, 6J5GT, 6SQ7GT, 6V6GT, 5Y3G	455	12-22
ER369, ER370	Vol.		124	Order from	Mfr.			15-15-15	1/13	FP380	B117				9	6SA7GT, 6SK7GT, [3]6SQ7GT, 6AE7GT, [3]6AC5GT, 6U5, 5Y3G	455	12-24-26
ES374	Vol.		18	MR44	M26			16, 16 16-15-20	23 1/15	TC74 FP339	 B117-B20				5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 5Y3G	455	12-27,28
ES397	Vol.		18	MR44	M26			16, 16 16-15-20	23 1/15	TC74 FP339	 B117-B20				5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 5Y3G	455	12-27,28
ET383	Vol.		18	‡			A19	40-20-20	46	FP357					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-31
EV384	Vol.		18	MR48	M26			15-15-20	1/15	FP339					7	6SA7G, 6SK7G, [3]6SQ7GT, 6V6GT, 6E5, 5Y3G	455	12-23,24
EW391 (EW)	Vol.		18	MR48	M27			20-20 40	1 15	2N509 TC29					6	1A7GT, [1]1N5GT, 1H5GT, 117L7GT, 3Q5GT	455	12-3,4
EX386	Vol.		18	MR48	M26			40-40-20	46	FP357					5	12SA7,12SK7,12SQ7, 50L6, 35Z5	455	12-34
F	Vol.		6	MR21				8, 8, 8	3	RS213					8	[4]27, 24, [3]45, 80		1-1
F117	Vol.	2NR214D	18	MR44	M26			3EC288 YC98A	25 13	RS207 TC42					5	6A7, 6D6, 75, 43, 25Z5	456	7-25,26
F122 (F)	Vol.	2NR214D	18	MR44	M26			3EC-288 YC-98A	25 13	RS207 TC42					5	6A7, 6D6, 75, 43, 25Z5	456	7-25,26
F133 (F)	Vol.	2NR214D	18	MR44	M26			3EC-288 YC-98A	25 13	RS207 TC42					5	6A7, 6D7, 75, 43, 25Z5	456	7-25,26
F135 (F)	Vol.	2NR214D	18	MR44	M26			3EC-288 YC-98A	25 13	RS207 TC42					5	6A7, 6D6, 75, 43, 25Z5	456	7-25,26
F141 (F)	Vol.	2NR214D	18	MR44	M26			3EC-288 YC-98A	25 13	RS207 TC42					5	6A7, 6D6, 75, 43, 25Z5	456	7-25,26
FA374	Vol.		18	MR48	M26			16 16 20	1 1 15	TC74 TC74 TC26					7	[2]6SK7, 6SA7, 6J5, 6SQ7, 6V6GT, 5Y3	455	12-29,30
FA408	Vol.		18	MR48	M26			16 16 20	1 1 15	TC74 TC74 TC26					7	[2]6SK7, 6SA7, 6J5, 6SQ7, 6V6GT, 5Y3	455	12-29,30
FB2-374	Vol.		18	MRT430	M26			40-20-20	46	FP357					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-29,30
FC400 (FC)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-2
FD396 (Ch. FD)	Vol.	6GR-352	18	MR44	M26			8DC-522	1/15	FP339					5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 5Y3G	455	13-7,8
FE-409 (Ch. FE)	Vol.	8QR-420	18	MRT431	M26			8QC-509	1/15	FP339					6	6SA7GT, 6SK7GT, 6J5GT, 6SQ7GT, 6V6GT, 5Y3G	455	13-10
FF411 (Ch. FF)	Vol.	7UR-380	18	MR55	M27			7UC-476	12	TC42					4	1R5, 1T4, 1S5, 1S4	455	13-11
FG330 (FG)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-2
FH413, FH440 (Ch. FH)	Vol. Tone	9HR-441 9HR-442	18 72	MK401 MK401	M26			6JC-426R	1	2N509					6	6SD7GT, 6SK7GT, 6SQ7GT, 6J5GT, 25L6GT, 25Z6GT	455	13-13,14
FJ412 (Ch. FJ)	Vol.	9JR-445	18	TM254-SS25	M26			8JC-513	46	TN129					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-12
FL414 to FL419 inc. (Ch. FL)	Vol. Vol.	9LR-446 7BR-363C	18 18	MK401 MR48	M26 M26		 A27	6JC-426P	1	2N509					6	[7]7B7, 12SA7, 12SQ7, 50L6, 35Z5	455	13-15

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
FM-460 (FM)	Vol.	9MR473	18	TM232-SS25	M26			8TC529D	1	2N511					15	[7]H7, 6SG7 6SD7,		
	Tone	9MR474	‡	Order from	Mfr.			8TC529D	13	2N511						7L7, 6II6, 6SJ7, [2]5L6, 6J5, 6U5, 6SA7, 6SK7, 6SQ7, 25Z6	455 kc. AM 4.3 mc. FM	14-7,8
FO420 (Ch. FO)	Vol.	9OR-448	18	MRT454	M26			8JC-513A	46	TN129					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-16
FP421, FP422 (Ch. FP)	Vol.	9PR-447	18	MK401				6JC-426E	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-17
FR432 (Ch. FR)	Vol.	9RR-449	149	Order from	Mfr.			9RC-536	12	TC42					4	1R5, 1T4, 1S5, 3S4	455	13-23,24
FU424 (Ch. FU)	Vol.	9UR-451	149	MK401	M27			6JC-426T	1	2N509					6	[2]1N5GT, 1A7GT, 1H5GT, 3Q5GT, 117P7GT	262	13-19,20
FU427, FU428 (Ch. FU)	Vol.	9UR-451	149	MK401	M27			6JC-426T	1	2N509					6	[2]1N5GT, 1A7GT, 1H5GT, 3Q5GT, 117P7GT	262	13-19,20
FV426, FV433 (Ch. FV)	Vol.	9VR-453	149	MK403	M27			8TC-529C	76	2N511					5	1A7GT, 1SA6GT, 1SB6GT, 3B5GT, 117Z4GT	455	13-21,22
FW423 (Ch. FW)	Vol.	9SR-452	18	MK401	M26			6JC-426S	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-18,20
FY434 (Ch. FY), FY2-434 (Ch. FY2)	Vol.	9YR-459	50	MR57	M26			8JC-513B	46	TN129					3	12SQ7, 50L6, 35Z5		13-25
FZ452 (Ch. FZ)	Vol.	9ZR476	18	MK401	M26			6JC-426E	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-32
G4	Vol.		7	MR45	M26	EX300		4-4	1	2N516					4	39, 36, 38, 37		3-9
								HC32	15	TN111								
G127 (G)	Vol.	2NR214C	18	MR44	M26			3CC-261	25	RS207					5	6A7, 6D6, 75, 43, 25Z5, 3CR-241	456	8-7
								YC-98A	13	TC42								
GA-439 (GA)	Vol.	9PR-447A	18	MK401				6JC-426Q	1	2N509					6	6SA7, 6SG7, 6SK7, 6SQ7, 25L6, 25Z6, or Lock-In Equiv.	455	14-2,3
GA-441 (GA)	Vol.	9PR-447	18	MK401				6JC-426Q	1	2N509					6	6SG7, 6SA7, 6SK7, 6SQ7, 25L6, 25Z6 or Lock-In equiv.	455	14-2,3
GA1-439 (GA1)	Vol.	9PR-447A	18	MK401				6JC-426Q	1	2N509					6	6SG7, 6SA7, 6SK7, 6SQ7, 25L6, 25Z6, or Lock-In equiv.	455	14-2,3
GA1-441 (GA1)	Vol.	9PR-447	18	MK401				6JC-426Q	1	2N509					6	6SG7, 6SA7, 6SK7, 6SQ7, 25L6, 25Z6, or Lock-In equiv.	455	14-2,3
GB439, GB441 (Ch. GB)	Vol.	9PR-447	18	MK401				6JC-426Q	1	2N509					6	[2]6SS7, 12SA7, 12SQ7, 50L6, 35Z5	455	13-26
GC448 (Ch. GC)	Vol.	9PR-449A	149	Order from	Mfr.			6QC-437D	24	2N514					5	1R5, 1T4, 1S5, 3S4, 117Z4	455	13-29,30
								9VC-560	78	TC39								
GF-462 (Ch. GF)	Vol.		‡			See Note A3		10NC-580	46	2S569					7	6SG7, 6SA7, 7E7, 6SJ7, 6K6, 6U5, 5Y3	455	14-9
	Tone		‡			See Note A3		10NC-581	46	TC65								
GH437, GH447 (Ch. GH); GH2-447 (Ch. GH2)	Vol.	9JR-445	18	TM254-SS25	M26			10HC-569	46	TN129/TC49	B8				7	12SK7, 12SA7, 12SF7, 12SJ7, 50L6, [2]35Z5	455	13-27,28
GJ-449 (GJ)								6YC-450	13	TC48					2	12SA7, 35Z5		14-4
								1C-43A	15	TC22								
GK-450 (Ch. GK); GK2-450 (Ch. GK2)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5GT	455	13-31
GL-457 (GL)	Vol.	9YR-459	127	MR57	M26			8JC-513D	46	TN129					3	6SQ7, 25L6, 25Z6		14-6
GU-446 (GU)	Vol.	10NR-471	18	MK401	M26			6GC-437E	1	2N514					8	[2]6J5, [2]6SK7, 6SQ7, 25L6, 6U5, 25Z6	455	14-5
	Tone	10NR-472	57	Order from	Mfr.													
H5	Vol.		6	MR24	M26	EX300		KC68	11	UR193	B264				5	[2]78, 77, 43, 25Z5	172.5	3-6
H5L	Vol.		6	MR24	M26	EX300		KC68	11	UR193	B264				5	6A7, 78, 77, 43, 25Z5	132	4-5
H130, H137	Vol.	3HR240	17	MR48	M27			VVC221A	12	TC42					5	[2]1A4, 1A6, 1B5, 1F4, 1B1	456	7-39
J	Vol.	R102	6	G7	6	3		A404	4	TC70					5	[2]24A, 35, 47, 80		
JS	Vol.	R102	6	G7	6	3		A404	4	TC70					5	[2]24, 35, 47, 80	175	3-3
J106	Vol.	2CR195	17	MR48	M26			2C222	6	2N509					5	6A7, 6D6, 75, 43, 25Z5	456	7-9
								CCC146B	15	TN111								
KS	Vol.		7	G	6	1		8	4	TC71					8	[2]35, [2]24, 27, 47, 80	175	3-3
	Tone		22	MR18				4	13	TC70								
K116, K121, K123	Vol.	TTR159F	6	E12	6	2		TTC159	1/15	3S579					5	[2]6D6, 76, 41, 80	456	7-19,20

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
LA (Early)	Vol.	.....	7	MR24	M26	EX300	.....	8-4	4	TCS71	.....	.....	.....	.....	4	78, 77, 38, 1V	.....	5-10
								5	15	TC22	.....	.....	.....	.....		.....	.....	.....
LA (Revised)	Vol.	.....	7	MR24	M26	EX300	.....	8-4	4	TCS71	.....	.....	.....	.....	4	6D6, 6C6, 38, 1V	.....	5-10
								5	15	TC22	.....	.....	.....	.....		.....	.....	.....
LAC4	Vol.	.....	6	.....‡	.....	See Note A5		4-4	4	See Note	B3	.....	.....	.....	4	58, 57, 47, 80	.....	3-1
LAC5	Vol.	.....	6	.....‡	.....	See Note A5		8	4	ST595	.....	.....	.....	.....	5	[2]58, 57, 47, 80	.....	3-1
								4	4	ST595	.....	.....	.....	.....		.....	.....	.....
L117 (early)	Vol.	2NR214D	56	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 85, 41, 80	456	7-27
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L117 (late)	Vol.	2NR214D	18	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 75, 41, 80	456	7-27
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L117LW	Vol.	2NR214D	56	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 85, 42, 80	456	7-23,24
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L122 (early)	Vol.	2NR214D	56	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 85, 41, 80	456	7-27
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L122 (late)	Vol.	2NR214D	18	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 75, 41, 80	456	7-27
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L122LW, L133 (early)	Vol.	2NR214D	56	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 85, 42, 80	456	7-23,27
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L133 (late)	Vol.	2NR214D	18	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 75, 41, 80	456	7-27
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L133LW	Vol.	2NR214D	56	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 85, 42, 80	456	7-23,24
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L135 (early)	Vol.	2NR214D	56	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 85, 41, 80	456	7-27
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L135 (late)	Vol.	2NR214D	18	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 75, 41, 80	456	7-27
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L135LW	Vol.	2NR214D	56	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 85, 42, 80	456	7-23,24
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L141 (early)	Vol.	2NR214D	56	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 85, 41, 80	456	7-27
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L141 (late)	Vol.	2NR214D	18	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 75, 41, 80	456	7-27
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L141LW	Vol.	2NR214D	56	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 85, 42, 80	456	7-23,24
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L143 (early)	Vol.	2NR214D	56	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 85, 41, 80	456	8-23
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L143 (late)	Vol.	2NR214D	56	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 75, 41, 80	456	8-23
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....
L150	Vol.	2NR214D	18	MR44	M26	.....	.....	2NC246	1	RS216	.....	.....	.....	.....	5	6A7, 6D6, 75, 41, 80	456	7-27
								2NC247	1	RS216	.....	.....	.....	.....		.....	.....	.....
								IC43A	14	TC22	.....	.....	.....	.....		.....	.....	.....
MAC7	Vol.	GR28	6	E7	6	2	.....	BC9	4	TCS71	.....	.....	.....	.....	7	[2]58, 56, 55, 47, 80	175	3-5
	Tone	GR29	34	SRP263	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		.....	.....	.....
M134, M136, M138, M139, M140, M142, M146	Vol.	3MR251	18	MR39	.....	.....	.....	3MC290	27	FP115	.....	.....	.....	.....	10	6K7, 6A8, 6D6, 85,		
	Tone	3MR252	22	MR44	.....	.....	.....	3MC291	27	FP115	.....	.....	.....	.....		6G5, 6C5, [3]43,		
								3MC292	13	ST595	.....	.....	.....	.....		[2]25Z5	456	8-21
								3AC256	15	TC32	.....	.....	.....	.....		.....	.....	.....
P117, P135	Vol.	3PR258	18	MR44	.....	.....	.....	3PC307	1	2S567	.....	.....	Order from Mfr.		6	[2]1A4, 1A6, 1B5-25S,		
								3PC310	15	TC26	.....	.....	.....	.....		30, 1E7G	456	8-3
								.0125-.0125	.....	Buffer	B14	.....	.....	.....		.....	.....	.....
Q157	Vol.	2VR219D	6	MR36	.....	.....	.....	3QC338	1	2N509	.....	.....	.....	.....	4	6D6, 6C6, 25L6, 25Z5	.....	9-23
R152, R153, R156, R158 (R)	Vol.	3FR256A	18	MR48	M26	.....	.....	3RC318	23	2S567	.....	.....	.....	.....	5	6A7, 6D6, 75, 41, 80	456	9-5
R167 (R)	Vol.	3FR256A	18	MR48	M26	.....	.....	3RC-318	23	2S567	.....	.....	.....	.....	5	6A7, 6D6, 75, 41, 80	456	9-5
R189 (R)	Vol.	3FR256A	18	MR48	M26	.....	.....	3RC-318	23	2S567	.....	.....	.....	.....	5	6A7, 6D6, 6Q7G, 41, 80	456	9-5
S7	Vol.	GR28	6	E7	6	2	.....	IC42	4	TCS71	.....	.....	.....	.....	7	[4]58, 57, 59, 80	465	4-19
								IC43	20	TC22	.....	.....	.....	.....		.....	.....	.....
S50	Vol.	GR28	6	E7	6	2	.....	IC42	4	TCS71	.....	.....	.....	.....	7	[4]58, 57, 59, 80	465	4-19
								IC43	20	TC22	.....	.....	.....	.....		.....	.....	.....
S147, S151	Vol.	NNR157B	18	MR48	.....	.....	.....	3SC303	1	RS224	.....	.....	.....	.....	6	[3]6K7, 6A8, 6Q7, 6F6,		
	Tone	3MR251	34	MR39	.....	.....	.....	3BC289	1	RS224	.....	.....	.....	.....		5W4-5Z3	456	8-27
								IC43A	15	TC22	.....	.....	.....	.....		.....	.....	.....

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
T	Vol.	R101	6	G7	6	3		A403	4	See Note	B3				4	35, 24, 47, 80		3-2
								A404	4	TC71								
TS	Vol.	R102	6	G7	6	3		A310	4	See Note	B3				4	35, 24, '7, 80		3-2,3
								A404	4	TC71								
U154	Vol.	3VR267	45	UM162		See Note	A96	3VC320C	1/15	3S579		3VV-10	294	C3	6	6A7, ‡6D6, 76, 41, 84	262	8-33
								IC43A	15	TC22								
								.0075		Buffer	B14							
V4 (Early)	Vol.		7	MR24		EX300		8-4	4	TCS71					4	78, 77, 38, 1V		4-10
								5	15	TC22								
V4 (Revised)	Vol.		7	MR24		EX300		8-4	4	TCS71					4	6D6, 6C6, 38, 1V		5-10
								5	15	TC22								
V155	Vol.	3VR267	15	UM162		See Note	A96	3VC320	1/15	3S579		3VV-10	294	C3	8	6D6, 6A7, 6B7, ‡76, ‡41, 84	262.5	9-9
	Tone	3VR279	44	MR33				.005		Buffer	B14							
X146	Vol.	3XR287	18	MRT426				3XC329	1	RS223					15	‡6K7, 6A8, ‡6C5, 6G5,		
	Tone	3XR277	127	MR48	M26			YC98A	13	TC42						‡6F6, ‡80	456	9-25
								IC43A	15	TC22								
X146 (above 1,328,650)	Vol.	3XR287	18	MRT426				3XC329	1	RS223					15	‡6K7, 6A8, ‡6J5, 6G5,		
	Tone	3XR277	127	MR48	M26			YC98A	13	TC42						‡6F6, ‡80	456	9-25
								IC43A	15	TC22								
X175 (X)	Vol.	3XR287	18	MRT426				3XC-329	1	RS223					15	‡6K7, 6A8, ‡6J5, ‡6F6,		
	Tone	3XR277	127	MR48	M26			YC-98A	13	TC42						‡80, 6G5	456	9-21
								IC-43A	15	TC22								
X178 (below 1,328,650)	Vol.	3XR287	18	MRT426				3XC329	1	RS223					15	‡6K7, 6A8, ‡6C5, 6G5,		
	Tone	3XR277	...‡..	MR48	M26			YC98A	13	TC42						‡6F6, ‡80	456	8-25
								IC43A	15	TC22								
X178 (above 1,328,650)	Vol.	3XR287	18	MRT426				3XC329	1	RS223					15	‡6K7, 6A8, ‡6J5, 6G5,		
	Tone	3XR277	...‡..	MR48	M26			YC98A	13	TC42						‡6F6, ‡80	456	9-25
								IC43A	15	TC22								
X183 (below 1,328,650)	Vol.	3XR287	18	MRT426				3XC329	1	RS223					15	‡6K7, 6A8, ‡6C5, 6G5,		
	Tone	3XR277	...‡..	MR48	M26			YC98A	13	TC42						‡6F6, ‡80	456	9-25
								IC43A	15	TC22								
X183 (above 1,328,650)	Vol.	3XR287	18	MRT426				3XC329	1	RS223					15	‡6K7, 6A8, ‡6J5, 6G5,		
	Tone	3XR277	...‡..	MR48	M26			YC98A	13	TC42						‡6F6, ‡80	456	9-25
								IC43A	15	TC22								
Z117, Z122, Z133	Vol.	3ZR288	45	MR48	M26			2NC246	23	RS216					6	6A7, 6D6, ‡76, 41, 80	456	8-5
								2NC247	23	RS216								
Z135, Z141	Vol.	3ZR288	45	MR48	M26			2NC246	23	RS216					6	6A7, 6D6, ‡76, 41, 80	456	8-5
								2NC247	23	RS216								
Z150 (early)	Vol.	3ZR288	45	MR48	M26			12	23	ST597					6	6A7, 6D6, ‡76, 41, 80	456	8-5
								8	23	ST595								
								8	13	TC52								
Z150 (late)	Vol.	3ZR288	45	MR48	M26			12	23	ST597					6	6A7, 6D6, ‡76, 41, 80	456	8-5,6
								24	23	ST599								
								8	13	TC52								
Z159, Z160	Vol.	3ZR288	45	MR48	M26			2NC246	23	RS216					6	6A7, 6D6, ‡76, 41, 80	456	8-5
								2NC247	23	RS216								
1A	Vol.		15	MR48				8-8-10	1/15	3S579	B3		296	C3	5	6F7, 6A7, 6B7, 41, 84	...‡..	
								.008		Buffer	B14							
3LW	Vol.		6	MR24	M26	EX300		KC68	11	UR193	B264				5	6A7, 78, 77, 43, 25Z5	132	4-5
5A	Vol.	OOR-161	17	UM157-SS4				8-8	1	See Note	B3	OOV-4	286S	C10	5	‡78, 6A7, 85, 42	172.5	6-1
								10-10	15	TN111								
6A	Vol.	OOR-161	17	UM157-SS4				QQC169A	1/15	4S718		QQV-5	253Y	C3	6	‡78, 6A7, 85, 41, 84	172.5	6-1
								.008		Buffer	B14							
19 (UV4)	Vol.		6	MR24		EX300		KKC143	6	2N509					4	6A7, 6F7, 43, 25Z5	456	6-3
								KKC145	15	TN111								
20A	Vol.		7	MR45	M26	EX200		HC31	1	2N509					4	36, 37, 38, 39		3-9
								HC32	15	2N509								
23 (4B)	Vol.	BBR112	6	MR36	M26	EX200		UC93	4	TCS71					4	6A7, 77, 42, 80	456	5-1
25A	Vol.		7	MR45	M26	EX300		HC31	1	2N516					4	36, 37, 38, 39		3-9
								HC32	15	2N509								
26 (DAC5)	Vol.		6	MR24	M26	EX500		8-8	4	See Note	B3				5	‡58, 57, 47, 80	456	4-1
28 (5J)	Vol.	DDR121	6	MR24	M26	EX300		UC93	4	TCS71					5	‡6D6, 6C6, 42, 80	456	5-2
								IC43	15	TC22								
30	Vol.		6	MR24	M26	EX300		KC68	11	UR193	B264				5	‡78, 77, 43, 25Z5	172.5	3-6
30AW	Vol.		6	MR24	M26	EX300		KC68	11	UR193	B264				5	25Z5, 43, 77, ‡78	456	4-2
30LW	Vol.		6	MR24	M26			KC68	11	UR193	B264				5	6A7, 78, 77, 43, 25Z5	132	4-5
32 (U5S)	Vol.	GGR143	17	MR48	M26			GGC137	6/15	3S584/TN111	B95				5	6A7, 6D6, 75, 43, 25Z5	456	6-4
33AW	Vol.		6	MR24	M26	EX300		KC68	11	UR193	B264				5	25Z5, 43, 77, ‡78	456	4-2
33LW	Vol.		6	MR24	M26	EX300		KC68	11	UR193	B264				5	6A7, 78, 77, 43, 25Z5	132	4-5
34C (C6-D6)	Vol.	XXR185A	55	MR44				8-8	4	See Note	B3				6	6A8, ‡6K7, 75, 6F6, 80	456	6-5
	Tone	XXR186A	22	MR44	M26													
34F7	Vol.	2KR209	55	MR48	M26			2KC237	1	2N516		2KV-6	222		6	6A7, ‡15, 85, 76, 19	456	7-1,2
	Tone	2KR210	22	MR44				2KC249	13	TC52								
								2KC234	15	TN111								
35 (T6)	Vol.		17	MR48	M26			12-12-8	11	See Note	B3				6	‡78, 75, 43, 25Z5	172.5	4-3
								5	15	TC22								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
36 (B5)	Vol.		6	E12		EX150		8-6	1	See Note	B3				5	‡6D6, 76, 42, 80	456	6-7
								12	15	TC22								
38 (U6)	Vol.		17	MR48				GCC125	6/13	TN125					6	6A7, ‡6D6, 25Z5, 43, 75	456	6-9
	Tone		22	MR24				HC32	15	TN111								
38 (U6D)	Vol.		6	MR36	M26	EX200		GCC125	6/13	TN125					6	6A7, ‡6D6, 25Z5, 43, 75	456	6-9
								HC32	15	TN111								
39 (D-S5)	Vol.	YR100	‡	MN	6			8-8	4	TCS71					5	2A7, 2B7, 47, 58, 80	456	5-5
								4	13	TC52								
								5	15	TC22								
40	Vol.		17	MR53	M26			PC83	11	UR182	B31				6	6B7, 25Z5, 43, ‡78	175	4-6
41	Vol.		6	MR24		EX500		8-8	4	See Note	B3				5	‡58, 57, 47, 80	456	4-1
42 (U6)	Vol.		17	MR48				GCC125	6/13	TN125					6	6A7, ‡6D6, 25Z5, 43, 75	456	6-9
	Tone		22	MR24		See Note A4		HC32	15	TN111								
42 (U6D)	Vol.		6	MR36	M26	EX200		GCC125	6/13	TN125					6	6A7, ‡6D6, 25Z5, 43, 75	456	5-3
								HC32	15	TN111								
45 (6BD)	Vol.		6	E7	6	4		8-4	4	See Note	B3				6	‡6D6, 6A7, 75, 42, 80	456	5-7
								8	12	See Note	B3							
								5	15	TC22								
49 (U6)	Vol.		17	MR48				GCC125	6/13	TN125					6	6A7, ‡6D6, 25Z5, 43, 75	456	6-9
	Tone		22	MR24		See Note A4		HC32	15	TN111								
49 (U6D)	Vol.		6	MR36	M26	EX200		GCC125	6/13	TN125					6	6A7, ‡6D6, 25Z5, 43, 75	456	5-3
								HC32	15	TN111								
50L	Vol.	JR46	6	E7	6			1C42	4	TCS71					7	55, 56, ‡58, 59, 80	115	4-17
	Tone		34	MR24				1C43	20	TC22								
50M	Vol.	GR28	6	E7	6	2		BC9	4	TCS71					7	47, 55, 56, ‡58, 80	175	4-18
	Tone	GR29	34	SRP263														
AW55	Vol.	R132	7	H	6	2		8-4	4	See Note	B3				6	‡24, 47, 56, 58, 80	445	3-4
59 (DS5)	Vol.		‡	MN	6			8-8	4	See Note	B3				5	2A7, 2B7, 47, 58, 80	456	5-5
								4	13	TC62								
								5	15	TC22								
65	Vol.		7	UC500				2-1-1	1	See Note	B1				9	‡24, ‡27, ‡45, 80, 99		1-2
71 (AW7)	Vol.		17	MR53	M26			8-8	1	See Note	B3				7	‡6D6, 6A7, 75, ‡42, 80	456	5-9
	Tone		41	SRP263				4	13	TC62								
77	Vol.		17	MR53				8-8	4	See Note	B3				7	2A6, 47, 56, ‡58, 80	172.5	4-4
	Tone		34	SRP263														
101 (C6-D6)	Vol.	XXR185A	18	MR44				8-8	4	See Note	B3				6	6A8, ‡6K7, 75, 6F6, 80	456	6-5
	Tone	XXR186A	22	MR44	M26													
101F7	Vol.	2KR209	55	MR48	M26			2KC237	1	2N516		2KV-6	222		6	6A7, ‡15, 85, 76, 19	456	7-1,2
	Tone	2KR210	22	MR44				2KC249	13	TC52								
								2KC234	15	TN111								
101U	Vol.	2FR205A	55	MR48				ZZC192A	11/13	UR193	B265				6	6A8, ‡6K7, 75, 43, 25Z5	456	7-3,4
	Tone	XXR186A	22	MR44	M26			YC98	11	TC42								
102	Vol.	NNR156	17	MRT440				NNC155	1	2N518					9	‡6K7, 6A8, 75, 6E5, 6C5, ‡6F6, 80	456	7-5,6
	Tone	NNR157A	22	MR48				1C43	15	TC22								
								NNC226	‡	TC71								
102LW (B8)	Vol.	NNR156	18	MRT440				2HC217	1	2N518					8	‡6K7, 6A8, 75, 6C5, ‡6F6, 80	456	7-7,8
	Tone	NNR157A	22	MR48				NNC226	1	TC71								
								1C43	15	TC22								
103 (F5)	Vol.		17	MR48	M27										5	1C6, 34, 25S, 30, 33, LLL25	456	6-8
104	Vol.	NNR156	17	MRT440				NNC155	1	2N518					9	‡6K7, 6A8, 75, 6E5, 6C5, ‡6F6, 80	456	7-5,6
	Tone	NNR157A	22	MR48				1C43	15	TC22								
								NNC226	‡	TC71								
104LW (B8)	Vol.	NNR156	17	MRT440				2HC217	1	2N518					8	‡6K7, 6A8, 75, 6C5, ‡6F6, 80	456	7-7,8
	Tone	NNR157A	22	MR48				NNC226	1	TC71								
								1C43	15	TC22								
105 (A11)	Vol.	NNR156	20	MRT440				2AC-209A	30	3S584/TC32	B3				11	5Z3, 6A8, 6C5, ‡6F6, 6H6, ‡6K7	456	6-11
	Tone	2AR198	22	MR48	M26			1C43	19	TC22								
106 (U6B)	Vol.	2CR195	45	MR48	M26			2CC-194	27	TCS44					6	6A7, 6D6, 6H6, 6F5, 43, 25Z5	456	6-13
107 (U6A)	Vol.	ZZR190A	55	MR48	M26			ZZC-192A	11/27	UR193	B99				6	6A8, ‡6K7, 75, 43, 25Z5	456	6-15
	Tone	ZZR191A	22	MR44				YC98A	11	TC42								
107 (U6F)	Vol.		45	MR48				16-8-4	6/13	TN125					6	6A7, 6K7, 6H6, 6F5, 43, 25Z5	456	7-10
								4	13	TC52								
107AC	Vol.	2NR214A	18	MR44	M26			2NC246A	1	RS216					5	6A7, 78, 75, 41, 1V	456	7-11
								2NC246B	1	RS216								
								1C43A	15	TC22								
107LW (U6C)	Vol.	ZZR190A	45	MR48	M26			4-8-16	25/13	See Note	B3				6	6A7, 6K7, 6H6, 6F5, 43, 25Z5	456	7-13,14
	Tone	ZZR191A	22	MR44														
108-110	Vol.	2DR169	18	MR48	M26			2DC300	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5	456	6-17,18
108LW (U5B)	Vol.	2DR169	18	MR48	M26			2DC203	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5	132	7-15,16
109 (U4A)	Vol.		6	MR36	M26	See Note A14		KKC143	6	2N509					4	6A7, 6F7, 43, 25Z5	456	7-15,16
110LW	Vol.	2DR169	18	MR48	M26			KKC145	15	TN111								
								2DC203	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5	132	7-15,16
111 (U6A)	Vol.	ZZR190A	18	MR48	M26			ZZC-192A	11	UR193	B99				6	6A8, ‡6K7, 75, 43, 25Z5	456	6-15
	Tone	ZZR191A	22	MR44				YC-98A	11	TC42	B99							
111 (U6F)	Vol.	ZZR190A	45	MR48	M26			16-8-4	6	See Note	B3				6	6A7, 6K7, 6H6, 6F5, 43, 25Z5	456	7-10
	Tone	ZZR191A	22	MR44				4	13	TC42								

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS						
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
EMERSON—Continued																		
111LW (U6C)	Vol.	ZZR190A	45	MR48	M26			4-8-16	25/13	UR193	.B3				6	6A7, 6K7, 6H6, 6F5, 43, 25Z5	456	7-13,14
	Tone	ZZR191A	22	MR44														
112	Vol.	NNR156	17	MRT440				NNC155	1	2N518					9	‡6K7, 6A8, 75, 6E5, 6C5, ‡6F6, 80	456	7-5,6
	Tone	NNR157A	22	MR48				1C43	15	TC22								
								NNC226	‡	TC71								
114	Vol.	2NR214A	18	MR44	M26			2NC246A	1	RS216					5	6A7, 78, 75, 41, 1V	456	7-11
								2NC246B	1	RS216								
								1C43A	15	TC22								
116	Vol.	TTR159A	6	E12	6	See Note	A14	TTC159	1/15	3S579					5	‡6D6, 76, 42, 80	456	7-17,18
117	Vol.	2NR214	56	MR44	M26			2NC246	1	RS216					5	6A7, 6D6, 85, 42, 80	456	7-21,22
								2NC247	1	RS216								
								1C43A	15	TC22								
117LW	Vol.	2NR214D	56	MR44	M26			2NC246	1	RS216					5	6A7, 6D6, 85, 42, 80	456	7-23
								2NC247	1	RS216								
								1C43A	15	TC22								
118	Vol.	2VR219A	6	MR36	M26			GGC137	6/15	3S584/TN111	.B98				4	6D6, 6C6, 43, 25Z5		7-12
119 (U6A Rev)	Vol.	ZZR190A	55	MR48	M26			ZZC192A	11	UR193	.B99				6	6A8, ‡6K7, 75, 43, 25Z5	456	7-29
	Tone	ZZR191A	22	MR44				YC98A	11	TC42								
								VVC221	11	TC42								
120	Vol.	2VR219A	6	MR36	M26			GGC137	6/15	3S584/TN111	.B98				4	6D6, 6C6, 43, 25Z5		7-12
121	Vol.	TTR159A	6	E12	6	See Note	A14	TTC159	1/15	3S579					5	‡6D6, 76, 42, 80	456	7-17,18
126	Vol.	2VR219A	6	MR36	M26			GGC137	6/15	3S584/TN111	.B98				4	6D6, 6C6, 43, 25Z5		7-12
138	Vol.		18	MR48				3BC282	4	RS215					8	‡6K7, 6A8, 6R7, 6G5, 6C5-6J7, 6F6-6L6, 5W4	456	
	Tone		‡	MR48				3BC289	4	RS224								
								3BC281	14	TC52								
250	Vol.		6	MR24	M26	EX300		KC68	11	UR193	.B264				5	‡78, 77, 43, 25Z5	172.5	3-6
250AW	Vol.		6	MR24	M26	EX300		KC68	11	UR193	.B264				5	25Z5, 43, 77, ‡78	456	4-2
250LW	Vol.		6	MR24	M26			KC68	11	UR193	.B264				5	6A7, 78, 77, 43, 25Z5	132	4-5
280 (F6D)	Vol.		17/15	Order from	Mfr.										5	1C6, ‡34, 1A6, 33, LL1.25	456	6-19
300	Vol.		6	MR24	M26	EX300		KC68	11	UR193	.B264				5	‡78, 77, 43, 25Z5	172.5	3-6
321AW, 330AW, 350AW	Vol.		6	MR24	M26	EX300		KC68	11	UR193	.B264				5	25Z5, 43, 77, ‡78	456	4-2
321LW, 350LW	Vol.		6	MR24	M26	EX300		KC68	11	UR193	.B264				5	6A7, 78, 77, 43, 25Z5	132	4-5
375	Vol.		17	MR53	M26			PC83	11	UR193	.B264				6	6B7, 25Z5, 43, ‡78	175	4-6
375 (UV5-375)	Vol.	PPR-168	6	SRP263	6	EX300		PPC-201	1/15	2N509/TN111					5	6A7, 6D6, 76, 43, 25Z5	456	14-1
375LW	Vol.	PR81	13	MR53	M26	See Note	A88	KC68	11	UR193	.B264				6	78, 6A7, 6B7, 77, 43, 25Z5	125	4-7
409, 410, 411 (A4)	Vol.	RR82	6	MR24	M26	EX300		RC84	1	2N516					4	78, 6F7, 38, 1V		4-8
								RC85	15	TN111								
409, 410, 411 (U4C)	Vol.	2WR218	6	MR36	M26			2WC239	6	TC42/TN111					4	6D6, 6C6, 43, 25Z5		7-40
								2WC240	6	TC45								
415, 416	Vol.		6	MR24	M26	EX300		8-4	4	TCS44					4	78, 77, 38, 1V		4-9
415, 416 (Revised)	Vol.		6	MR24	M26	EX300		8-4	4	TCS44					4	1V, 6C6, 6D6, 38		5-10
								8	15	TC22								
420 (V4)	Vol.		6	MR24	M26	EX300		QC78	4	TCS44					4	78, 77, 38, 1V		4-10
456	Vol.		6	MR24	M26	EX300		KC68	11	UR193	.B264				5	77, ‡78, 43, 25Z5	456	4-2
667	Vol.		17	UM161	M26		A96	6-10	1	2N518			296	C3	7	6A7, ‡41, 75, ‡78, 84	172.5	5-11,12
								IC43	15	TC22								
								.015		Buffer	.B14							
678 Type 1	Vol.		‡	See Note			A19	4-8	1	2N518			222		5	78, 6A7, 6B7, ‡41	172.5	4-11
	Tone		22	MR21				4-8	13	See Note	.B3							
	Supp.		‡	C1MP		See Note	A33	5	15	TC22	.B6							
678 Type 2	Vol.		‡	Order from	Mfr.			4-8	1	2N518			222		5	78, 6A7, 6B7, ‡41	172.5	4-11
	Tone		39	MR21				4-8	13	See Note	.B3							
	Supp.		‡	C1MP		See Note	A33	5	15	TC22	.B6							
L755	Vol.	JR46	6	E7	6	2		IC42	4	TCS71					7	55, 56, ‡58, 59, 80	115	4-17
	Tone	GR29	34	SRP263				IC43	20	TC22								
M755	Vol.	GR28	6	E7	6	2		BC9	4	TCS71					7	47, 55, 56, ‡58, 80	175	4-18
	Tone	GR29	34	SRP263														
S755	Vol.	GR28	6	E7	6	2		IC42	4	TCS71					7	‡58, 59, 80, 57	465	4-19,20
								IC43	19	TC22								
770 (AW7)	Vol.		17	MR53	M26			8, 8	1	ST595					7	6A7, ‡6D6, ‡42, 75, 80	456	5-9
	Tone		41	SRP263				4	13	TC62								
965	Vol.	WR92	17	UM161	M26		A96	ZC100	1	2N518		ZV-3	296	C3	6	6A7, 41, 75, ‡78, 84	172.5	5-13,14
								IC43	15	TC22								
								.02		Buffer	.B14							
EMPIRE																		
10	Vol.		7	MR45	M26	EX300		16-8	6	2N509					4	25Z5, 36, 39, 43		4-1
								2-4	15	TN111	.B6							
20	Vol.		7	MR45	M26	EX300		16-8	6	2N509					5	39, 36, 37, 43, 25Z5		4-2
								2-4	15	TN111	.B6							
30	Vol.		6	SRP263	6	EX200		16-8	6	2N509					5	‡77, 78, 43, 25Z5	175	4-3
								2-4	15	TN111								
40	Vol.		18	MR48	M26			16-16	1	2N509					6	6A7, 78, 75, 43, 37, 25Z5	175	4-4
								4-4	18/15	See Note	.B3							
40SW	Vol.		18	MR48	M26			4-16-16-8-4	8/14	3N527/2N509	.B131				6	6A7, ‡6D6, 75, 43, 25Z5	456	5-1
51	Vol.		17	MR48	M26			12-8	4	See Note	.B3				5	2A7, 58, 2A6, 2A5, 80	175	5-2

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMPIRE—Continued																		
60	Vol.		17	MR48	M26			8-4	1	2N518			292	C3	6	‡78, 6A7, 75, 41, 84	175	4-5
								2-4	15	TN111	B6							
								10-10	‡	TN111								
								.02		Buffer	B14							
71	Vol.		18	MR48	M26			16-8	23	See Note	B3				7	2A5, 2A6, 2A7, ‡58, 80	175	5-3
74	Vol.		6	MR18	M26			8-8	4	See Note	B3				7	‡58, 57, 2A5, 80	462.5	4-6
400AC	Vol.		8	G		3		6-6	4	See Note	B3				4	57, 58, 47, 80		3-2
400DC	Vol.		3	MR18		EX200									4	‡39, 36, 33		3-1
450A	Vol.		17	MR48	M26			16-4-16-4-2	8/13/15	3N527/2N509	B132				5	6A7, 6D6, 75, 43, 25Z5	456	5-4
460B	Vol.		17	MR48	M26			16-4-16-8-4	8/15	3N527/2N509	B131				6	‡6D6, 6A7, 75, 43, 25Z5	456	5-5
470C	Vol.		17	MR48				8-16	1	See Note	B3				7	‡58, 2A7, 2B7, 2A6, 2A5, 80	456	5-6
								2	13	TC70								
								4-4	15	TN111								
480C	Vol.		17	MR48				16-4-16-8-4	8/15	3N527/2N509	B131				8	‡6D6, 6A7, 75, ‡43, ‡25Z5	456	5-7
								6	13	See Note	B3							
500AC	Vol.		8	G				8, 8	4	ST595					5	‡58, 57, 47, 80		3-3
	Tone		22	MR33														
500DC	Vol.		6	MR18											5	‡36, 37, ‡33		3-1
550AC	Vol.		6	MR18	M26	EX300		6-6	4	2S567					5	‡58, 47, 80		3-4
	Tone		34	MR33														
575	Vol.		6	G7	6			8-8	4	2S567					5	57, 58, 55, 47, 80	175	4-7
	Tone		22	MR33														
600AC	Vol.		7	G	6			8-8	4	2S567					6	‡58, 24, ‡47, 80		3-5
	Tone		22	MR33														
700DC	Vol.		6	G7	6	EX200									7	‡39, ‡37, ‡48		5-8
	Tone		44	MR33														
ERLA (ERLA-SENTINEL) Also see Sentinel			1†															
R1 (Power Pack "A")	Vol.		13	MR44				2-1-2	3	See Note	B2				10	‡26, 27, ‡50, ‡81		1-1
R2 (Power Pack "A" 2)	Vol.		40	MR18				1-2-2	3	See Note	B1				8	‡26, 27, ‡71A, 80		1-2
10M, 10MF	Vol.	1145	17	UM154	M26	See Note A96		1188	1	2N518		1893	294	C3	5	6A7, 6D6, 6B7, 41, 84	370	8-5
								8876	15	TC22								
								.02		Buffer	B14							
11M	Vol.	1145	18	UM154	M26	See Note A96		1973	4	TCS71		1974	294	C3	6	‡6D6, 6A7, 75, 41, 84	465	8-6
	Tone	1950	34	MR44				.02		Buffer	B14							
14A	Vol.	2220	7/18	DRP314	6			1477	1	RS215					9	‡6D6, ‡76, 75, ‡41, 80	465	9-1,2
	Tone	1732	44	MR44				1476	1	RS216								
19A	Vol.	2055	18	MR48	M26			1477	25	RS215					6	6A7, 6D6, 75, ‡42, 80	465	8-7
	Tone	2056	34	MR33				1476	25	RS216								
								1110	13	TC70								
20A	Vol.	2055	18	MR48	M26			1477	25	RS215					5	6A7, 6D6, 75, 42, 80	465	7-1
	Tone	2162	22	MR29				1476	25	RS216								
22U	Vol.	2055	18	MR48	M26			2159	11	UR182					5	6A7, 6K7, 75, 43, 25Z5	465	
	Tone	2373	22	MR33														
25A	Vol.	2198	18	UM154-SS16				1477	25	RS215					7	6A7, 6D6, 75, 76, ‡41, 80	465	
	Tone	2199	44	MR33	M26			1476	25	RS216								
27A	Vol.	2220	7/18	DRP314	6			1477	1	RS215					9	‡6D6, ‡76, 75, ‡41, 80	465	
	Tone	1732	44	MR44				1476	1	RS216								
								1693	15	TC22								
30 (248)	Vol.		7	MR19	M26			8-8	1	See Note	B3				7	‡24, 27, ‡35, 47, 80		3-2
	Tone	7812-0	22	MR33														
30A	Vol.	1835	6	SRP263	6	EX200		2158	25	RS213					4	6D6, 6C6, 42, 80		8-8
								1260	25	RS213								
								8876	15	TC22								
31, 32, 33 (A3, R3)	Vol.	5584-0	6	G7				2-2-1	3	See Note	B3				8	‡27, ‡45, 80		2-1
								.05		See Note	B9							
31B	Vol.	2198	18	UM154-SS16				2272	1	TCD55		2269	245A	C3	6	1C6, ‡34, ‡30, 19	465	6-1
	Tone	2282	22	MR33	M27			.02		Buffer	B14							
32B	Vol.	2239	18	MR48											4	1C6, 34, 1B5, 33	465	8-9
33B	Vol.	2290	18	MR48	M24			2289	12	TC42					5	1C6, 34, 1B5, 30, 19	465	8-10
	Tone	2162	22	MR29														
34B	Vol.	2260	18	MR48	M27			2272	1	TCD55		2269	245A	C3	4	1C6, 34, 1B5, 38	465	8-11
	Tone	2239	57	MR48				.02		Buffer	B14							
35, 37, 38, 39 (230)	Vol.	6497-0	15	MR44				6638-0	14	RS213					9	‡24, ‡27, ‡45, 80		2-5
	Tone	6484-0	41	MR53														
35B	Vol.	2198	18	UM154-SS16				2289	12	TC42					6	1C6, ‡34, ‡30, 19	465	6-3
	Tone	2331	22	MR33	M24													
36L	Vol.	2055	18	MR48	M26										6	6A7, 6D6, 75, 76, ‡48	465	8-12
	Tone	2162	44	MR39														
37B	Vol.	2239	18	MR48											4	1C6, 34, 1B5, 33, 5E1	465	8-13
38B	Vol.	2290	18	MR48	M24			2289	13	TC42					5	1C6, 34, 1B5, 30, 19	465	8-14
	Tone	2162	22	MR29														
39B	Vol.	2198	18	UM154-SS16				2289	13	TC42					6	1C6, ‡34, ‡30, 19	465	8-15
	Tone	2331	22	MR33	M24													
40A, 40B	Vol.	2198	18	UM154-SS16				1477	25	RS215					6	6A7, 6D6, 6H6, 6F5, 42, 80	465	8-16
	Tone	2199	34	MR33	M26			1476	25	RS216								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

† Rider References Volumes 1-5 are listed under Electrical Research Labs. Volume 6 and above will be found under Sentinel.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ERLA—Continued																		
47A, 47AE	Vol.	2699	18	TM228-SS16				3167	25	RS223					11	[2]6K7, 6L7, 6J7, 6H6, 6G5, [2]6C5, [2]6F6, 5Z3	465	7-5,6
	Tone	2700	22	MR33	M26			1476	25	RS216								
								3170	19	TC32								
								8876	15	TC22								
								1110	13	TC71								
48A	Vol.	2624	7	E		3		2627	1/15	3S579					5	6A7, 6D6, 76, 41, 80	465	8-17
	Tone	2625	22	MR33	M26													
49B	Vol.	2239	18	MR48				2272	1	2N509		2269	245A	C3	5	1C6, 34, 6B7, 30, 19	465	8-18
	Tone	2282	22	MR33	M27			.02		Buffer	B14							
50B	Vol.	2198	45	UM154-SS16				2272	1	2N509		2269	245A	C3	7	1C6, [3]34, [3]30, 19	465	8-19,20
	Tone	2282	22	MR33	M27			.02		Buffer	B14							
54A	Vol.	2239	18	MR48				2627	1/15	3S579					5	6A7, 6D6, 75, 41, 80	465	8-23
	Tone	2199	22	MR33	M26													
55U	Vol.	2775	18	MR48	M26			12-20	27	TCS45					5	6A7, 6D6, 75, 43, 25Z5	465	8-24
60B	Vol.	2239	18	MR48											4	1C6, 34, 1F6, 33, 5E1	465	8-25
61, 62, 63 (250)	Vol.	7839-0	8	MR19				8-2	1	See Note	B3				6	[3]24, 27, 35, 47, 80	175	3-2
								7850-0	1	TC71								
63B	Vol.	2239	18	MR48				3060	1	2N518		3069	245A	C3	4	[3]15, 75, 41	465	8-26
	Tone	2239	22	MR48				1693	15	TC22								
								.01		Buffer	B14							
65B	Vol.	2239	18	MR48				3150	13	RS216					5	1C6, 34, 1F6, 30, 19	465	8-27
	Tone	2331	22	MR33	M24													
66B, 66BE	Vol.	2966	45	TM234-SS16				3060	1	2N518		3069	245A	C3	8	[3]15, 6A7, [3]76, 6G5, 19	465	9-3,4
	Tone	2965	44	MR33	M26			8876	15	TC22								
								.02		Buffer	B14							
67L	Vol.	2239	18	MR48											6	6A7, 6D6, 75, 76, [3]48	465	10-4,5
	Tone	2199	22	MR33	M26													
68B, 68BE	Vol.	2239	45	MR48				3060	1	2N518		3069	245A	C3	7	6A7, [3]15, [3]76, 6G5, 19	465	10-4,6
	Tone	2199	22	MR33	M26			1693	15	TC22								
								.01-.01		Buffer	B14							
69U	Vol.	3171	6	MR21	M26	EX200		20-12	27	TCS45					4	6D6, 6C6, 43, 25Z5		
								1693	15	TC22								
70A	Vol.	3024	7	E	6	3		3041	1	2N518					5	6A7, 6D6, 76, 41, 80	465	8-28
71U	Vol.	2775	17	MR48	M26			20-12	27	TCS45					5	6A7, 6D6, 75, 43, 25Z5	465	8-31
72A, 72AE	Vol.	2775	17	MR48	M26			3041	1	2N518					6	6A7, 6D6, 75, 41, 80, 6G5	465	9-13
	Tone	3545	22	MR33														
73B	Vol.	3671	17	MR48				3060	1	2N518		3698	245	C3	5	6D8G, [2]6S7G, 6L5G, 41	465	10-7,8
	Tone	3545	22	MR33				1693	15	TC22								
								.03		Buffer	B14							
74, 76 (210)	Vol.	6707-0	‡	‡		See Note A38									7	[3]30, [3]32, [3]71A		2-2
76A	Vol.	3403	20	TM251-SS16				3167	25	RS223					11	[2]6K7, 6A8, 6J7, 6H6, [2]6C5, [2]6F6, 80	465	9-17,19
								3041	25/15	2N518								
								1110	13	TC71								
								1693	20	TC22								
75, 77 (231)	Vol.	6749-0	12	MR36	M26										7	[3]30, [3]32, [3]71A		2-6
78B	Vol.	3761	17	UM154-SS16				3060	1	2N518		3698	245	C3	7	6D8G, [2]6S7G, [2]6L5G, 6N5, 19	465	
	Tone	2199	22	MR33	M26			1693	15	TC22								
								.03		Buffer	B14							
80B	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	10-8,11
81, 82 (245)	Vol.	6887-0	7	G	6			6638-0	1	RS213					8	[3]24, [3]27, [3]45, 80	175	1-5
	Tone	6484-0	41	MR53														
81P, 82P (248)	Vol.		7	MR19	M26			6638-0	1	RS213					7	[3]24, 27, [3]35, 47, 80	175	3-2
	Tone	7812-0	22	MR33														
82A, 82AE	Vol.	3761	17	UM154-SS16				3718	1	2N518					7	6A7, 6D6, 76, 75, 6G5, 41, 80	465	9-21,22
	Toue	2199	22	MR33	M26			1693	15	TC22								
85U, 85UE	Vol.	2775	17	MR48	M26			3638	27	TCS47					6	6A7, 6D6, 75, 43, 6G5, 25Z5, M49B-M42G	465	9-20
	Tone	3545	22	MR33														
86AE	Vol.	4078	17	TM251-SS16				3718	1	2N518					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, [2]6K6G, 5Y4G	465	10-15,16
	Tone	2199	44	MR33	M26			1108	20	TC70								
90B	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	9-23,24
93L	Vol.	3761	17	UM154-SS16											6	6A7, 6D6, 75, 76, [3]48	465	9-25,26
	Tone	2199	22	MR33	M26													
95B	Vol.	3761	17	UM154-SS16				3150	12	RS216					6	1C6, 34, 1F6, [3]30 (4-1)	465	
	Tone	2331	44	MR33	M24			1693	15	TC22								
96BE	Vol.	2775	17	MR48	M26			3060	1	2N518		3698	245	C3	6	6D8G, [2]6S7G, 6L5G, 6N5, 41	465	10-25,26
	Tone	3545	22	MR33				1693	15	TC22								
								.03		Buffer	B14							
107AE	Vol.	4408	17	MR48				3718	1	2N518					6	6A7, 6D6, 75, 6G5, 41, 80	465	10-33-36
	Tone	4409	22	MR33	M26													
224AC	Vol.	6167-0	12	F7	6			1-2-2-3	3	See Note	B1				8	[3]24, [3]27, [3]45, 80		1-3
224B	Vol.	6167-0	12	F7	6			3-2-1-1	3	See Note	B1				8	[3]24, [3]27, [3]45, 80		2-3
225	Vol.	6779-0	25	GE				6638-0	1	RS213					8	[3]24, [3]27, [3]45, 80		2-4
	Tone	6484-0	41	MR53														
271A	Vol.	6482-0	25	GE				6552-0	1	RS213					7	[3]24, [3]27, 26, 45, 80		2-7
	Tone	6777-0	57	MR48														
335	Vol.	6942-0	7	MR20	M26	See Note A10		6958-0	1	ST595					4	35, 24, 45, 80		1-6
								6938-0	1	ST595								
336	Vol.	6974-0	6	MR18	M26			4-4	1	See Note	B11				4	[3]36, [3]38		2-8
570, 570X	Vol.	9331	6	II7	6	2		4-20-8	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5	262	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ERLA—Continued																		
599	Vol.	9331	6	H7	6	2		4-20-8	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5.	262	
603	Vol.	1229	17	MR48	M26			1247	1	2N518		1245	292	C3	6	§78, 6A7, 75, 41, 84	265	5-1
								9328	15	TN111								
								.005		Buffer	B14							
620, 622, 623	Vol.	9666	17	MR44	M26			9659	1	RM262					6	§57, 58, 2A6, 2A5, 80	465	
	Tone	9174	22	MR33				8876	15	TC22								
630, 634, 635	Vol.	9666	17	MR44	M26			9659	1	RM262					6	§57, 58, 2A6, 2A5, 80	465	
	Tone	9174	22	MR33				8876	15	TC22								
810	Vol.		46	MR48	M27										8	§32, §34, §30, §19	175	7-5,6
1010	Vol.		15	MR48	M26			9193-0	3	3S584					10	§58, §57, 55, §46, 80	175	7-5,6
	Tone		22	MR33														
	NSC			MR44														
5001, 5002	Vol.	9611	6	MR21		EX250		9925	12	TC71					5	§78, 37, 77, 38	465	
								5-5	15	TN111								
5700, 5721	Vol.	1104	18	MR48	M26			9659	1	RM262					5	2A7, 58, 2A6, 2A5, 80	465	5-3
								1108	12	TC70								
6100	Vol.	9611	6	MR21		EX250		9925	12	TC71		8701	Order fro	m Mfr.	6	§78, 77, 38, 37, 25Z5/84	465	5-5
								8705	1	TC71								
								9328	15	TN111								
								.02-.02		Buffer	B14							
6300, 6315, 6317, 6323	Vol.	9666	17	MR44	M26			9659	1	RM262					6	2A7, §58, 2A6, 2A5, 80	465	5-7,8
	Tone	9174	22	MR33				1110	13	TC70								
								8876	15	TC22								
6900	Vol.	1004	18	MR48	M26										6	6A7, 6D6, 75, 76, §48	465	8-29,30
7700, 7732, 7741	Vol.	1289	18	MR48	M27			1291	12	ST595					6	1C6, 34, §30, 32, 19	465	5-11
8100B	Vol.	1495	18	MR48	M26			9659	1	RM262					8	§6D6, 6A7, 76, 75, §41, 5Z3	465	7-17,18
	Tone	1732	39	MR44														
ESPEY																		
RC20	Vol.	9012	50	MR55	M26			80	24	2N511	B8				2	50L6GT, 35Z5GT		13-7
	Tone	9016	21	MR55				20	24	TC45								
								20	15	TC26								
WQXR	Vol.	9011	127	MR53	M26			32-24	1	2N513					11	§6K7, 6A8G, §6F5, 6H6, §25L6G, 6U5, §25Z6G	456	14-1
								10-10	15	TN111								
030	Vol.	9011	50	MR53	M26			8-8	1	2N518					3	6C5, 6V6G, 80		13-7
								10-10	15	TN111								
040	Vol.	9001	18	MR53	M27			4	12	TC40					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	13-1
052	Vol.	9011	18	MR53	M26			30-30	24	2N513					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 70L7GT	455	13-2
								100	15	TC2501								
060	Vol.	9036	140	MRT443	M26			60, 60	1	TC50					6	§12SK7, 12A8GT, 12SQ7, 35L6GT, 35Z5GT	455	13-3
	Tone	9003	140	MR53				10-10	15	TN111								
080	Vol.	9036	140	MRT443	M26			8-16	1	3S584	B8				8	§7B7, 7A8, 7C6, 7A4, §6V6G, 80	455	13-4
	Tone	9003	140	MR53				10-10	15	TN111								
0101	Vol.	9036	18	MR53	M26			30-30	1	2N513					9	§7B7, 7A8, 7C6, 7A4, §25L6G, §25Z6G	455	13-5
	Tone	9003	22	MR53				16	14	TC44								
								10-10	15	TN111								
0102	Vol.	9006	17	MR48	M26			16	1	TC74					10	§6SK7, 6SA7, 6H6, 6U5, §6SF5, §6L6, 83V	455	13-6, 14-3
	Tone	9005	21	MR48				8-8-8	1	3S584								
								10	15	TC22								
675	Vol.		17	MR48				20	12	TC47					7	6A7, 6D6, 6R7, §43, §25Z5	456	8-1
	Tone		41	MR48				30	6	TC47								
								16	6	TC45								
								10	15	TC22								
771	Vol.	771	‡	MR53	M26			677	‡	TN129					6	6A8B, 6K7, 6Q7B, 25L6, §25Z6B, BK23B	456	
	Tone	677-1	‡	MR48				678	‡	TN111								
782	Vol.	771	‡	MR53	M26			677	‡	TN129					7	6A8B, 6K7, 6Q7B, 25L6, 6C5, §25Z6B, BK23B	456	
	Tone	677-1	‡	MR48				678	‡	TN111								
851	Vol.	9010	18	MR48	M26			16-16	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	14-4
861	Vol.	9006	18	MR48	M26			16-16	1	2N509					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5	455	13-8
891	Vol.	771	‡	MR53	M26			10-10	15	TN111					9	6A8B, 6K7, 6R7, 6C5, §25Z6B, §25L6, 6G5	456	
	Tone	677-1	‡	MR48				677	‡	TN129								
								5.228	‡	TN129	B8							
								678	‡	TN111								
942, 943	Vol.	9002	18	MR53	M27			4	12	TC40					4	1A7G, 1N5G, 1H5G, 1Q5G	455	13-8
958	Vol.	9002	18	MR53	M27			60	76	TC50					5	1A7G, 1N5G, 1H5G, 1Q5G, 25Z6G	455	14-5
960 Amp	Vol.	9010	50	MR48	M26			100	76	TC2501								
	Tone	9015	22	MR48				40-40	24	2N511					5	§6C5, §25L6, 25Z6		13-9
964	Vol.	9002	18	MR53	M27			10-10	15	TN111								
	Tone	9003	22	MR53				60	46	TC50					6	1A7, 1N5, 1H5, 1G4, 1G6, 25Z6	455	14-6
								30, 30	46	TC47								
								100	78	TC2501								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ESPEY—Continued																		
965	Vol.	9002	18	MR53	M27			60	46	TC50					6	1A7, 1N5, 1H5, 1G4,		
	Tone	9003	22	MR53				30, 30	46	TC47						1G6, 25Z6	455	14-7
								100	78	TC2501								
1141	Vol.	9010	‡	MR48	M26			16, 16, 16	1/13	ST597					14	[4]7H7 or 6SK7, 6K8,	AM	
	Tone	9015	‡	MR48				10	15	TC22						6SJ7, 7A6, 6SQ7,	455	
								25	15	TC26						6U5, [2]6SF5,	FM	
																[2]6V6GT, 80	4.3 mc.	14-9,10
1150	Vol.	9030	‡	MR48	M26			16, 16, 16	1/13	ST597					15	[4]7H7, 6K8, 6SJ7, [2]7A6,	AM	
	Tone	9029	‡	Order from	Mfr.			10	15	TC22						[2]6SF5, 6U5,	455	
								25	15	TC26						[2]6V6GT, 80	FM	
																	4.3 mc.	14-11,12
1152	Vol.	9036	140	MRT443	M26			16, 16, 16	1/13	ST597					15	[4]7H7, 6K8, 6SJ7, 7A6,	AM	
	Tone	9005	140	MR48				10	15	TC22						6H6, [2]6SF5, 6U5,	455	
								25	15	TC26						[2]6V6GT, 80	FM	
																	4.3 mc.	14-13,14
1190	Vol.	9030	‡	MR48	M26			60, 60	1	TC50					19	[4]14H7, 12K8, 12SJ7,	AM	
	Tone	9029	‡	Order from	Mfr.			30	12	TC47						[2]7A6, 12SF5, 6AB5,	455	
								16	13	TC45						[2]6SJ7, [4]25L6GT,	FM	
								10	15	TC22						[3]25Z6GT	4.3 mc.	14-15,16
2111	Vol.	9010	‡	MR48	M26			16-16-16-25	1/13/15	FP444	B117				11	[4]6SK7, 6SA7, 6U5,	AM	
	Treble	9015	‡	MR48												6SJ7, 7A6, 6SQ7,	455	
	Bass	9015	‡	MR48												6V6, 80	FM	
																	4.3 mc.	14-8
2113	Vol.	9010	124	MR48	M26			16	46	ST597					11	[3]7H7, 6SA7, 6SQ7,	AM	
	Treble	9015	‡	MR48				16-16-16-25	46/13/15	FP444	B117					6U5, 6SJ7, 6H6,	455	
	Bass	9015	‡	MR48												6J5, 6V6, 5Y3	FM	
																	4.3 mc.	13-10
2143	Vol.	9010	18	MR48	M26			16, 16, 16, 16, 16	‡	ST597					14	[4]7H7, 6SA7, 6SQ7,	AM	
	Bass	9015	‡	MR48				25	15	TC26						6U5, 6SJ7, 6H6,	455	
	Treble	9015	‡	MR48				10	15	TC22						[2]6J5, [2]6V6, 80	FM	
	Sen.	9015	‡	MR48													4.3 mc.	13-11
2143 (Late), 2144	Vol.	9010	124	MR48	M26			16, 16, 16, 16	‡	ST597					14	[3]7H7, 6SA7, 6SQ7,	AM	
	Bass	9015	‡	MR48				16	13	ST597						[2]6SJ7, 6H6, 6U5,	455	
	Treble	9015	‡	MR48				25	15	TC26						[2]6J5, [2]6V6, 80	FM	
	Sen.	9015	‡	MR48				10	15	TC22							4.3 mc.	14-19
2162	Vol.	9010	124	MR48	M26			16, 16, 16, 16	‡	ST597					16	[3]7H7, 6SA7, 6SQ7,	AM	
	Bass	9016	‡	MR55				16	13	ST597						6U5, [2]6SJ7, 6H6,	455	
	Treble		‡	UC506				25, 25	15	TC26						[2]6J5, 6C8G, [2]6V6,	FM	
	Sen.	9015	‡	MR48				10	15	TC22						80	4.3 mc.	13-12
2221	Vol.	9030	146	MR48	M26			60, 60	46/13	TC50					22	[4]14H7, 14Q7, [3]14B6,	AM	
	Bass	9016	146	MR55				30, 30	46	TC47						6N5, 14C7, [2]7A6,	455	
	Treble	9039	146	MR48				10, 10, 10, 10	15	TC22						14F7, 14A4, [2]6SJ7,	FM	
																[4]25L6, [3]25Z6	4.3 mc.	14-21
5111	Vol.		18	MR48				30	1	TC47					10	6A7, 6K7, 6R7, [4]43,		
	Tone		41	MR48				16	1/18	TC45						[3]25Z5	456	8-2
								20	12	TC44								
7111	Vol.	7152-1	15	MR53				5.117	1	RS216					11	[2]6K7, 6L7, 6H6, 6E5,		
	Tone	7152-2	39	MR48	M26			5.117A	1	RS224						6F5, 6C5, [2]6L6, 5Z3	456	8-3
	Sen.	7152-3	7	Order from	Mfr.			678	15	TN111								
7111	Vol.	9003	17	MR53				16	1	ST597					11	[2]6K7, 6L7, 6H6, 6E5,		
	Tone	9005	21	MR48				35	1	ST599						6F5, 6C5, [2]6L6,		
								10-10	15	TN111						5Z3	456	13-13
7151, 7153	Vol.	7152-1	80	MR53				677	6/13	TN129					15	[2]6K7, 6L7, 6Q7, 6G5,		
	Tone	7152-2	80	MR48	M26			5.228	12	TN129	B8					6C5, [4]25L6, [4]25Z5	456	8-4
	Sen.	7152-3	7	Order from	Mfr.			10	15	TC22								
9161	Vol.		124	MR55				56-16	1	2N520					16	[2]6K7, 6L7, 6H6, 6F5,		
								80	12	2N511	B8					[2]6C5, 6U5, [4]25L6,		
								10	15	TC22						[4]25Z6G	455	14-22
EVEREADY—See National Carbon.																		
EVERETTE PIANO—See "Orgatron"																		
FADA																		
A66PC, A66T	Vol.	50.61	15	MRT451	M26			20.107	4	2S569					6	6A8G, 6K7G, 76,		
																6F5G, 6V6G, 80	456	11-11
A76PC, A76T	Vol.	50.61	15	MRT451	M26			20.109	8/15	TN129/TC26					6	6A8G, 6K7G, 6Q7G,		
																25L6G, [3]25Z5	456	11-15
AP-104, AP-105	Vol.	55.28	15	MR48				20.106C	1	2N513					3	12Q7GT, 50L6GT,		
								20.39	15	TC22						50Z7GT		13-5
B49	Vol.	50.58	18	MR48	M26			20.89	19	TC26					4	1A7G, 1N5G, 1H5G,		
																1C5G	456	10-11
B49SW	Vol.	50.59A	15	MR48	M27			20.85	12	TC42					4	1A7G, 1N5G, 1H5G,		
																1Q5G	456	
C-34	Vol.	50.75	18	MR48	M26			20.137	13/15	2N513					5	1R5, 1T4, 1S5, 3S4,		
								20.136	78	Order from	Mfr.					35Z5GT	456	14-1
C49	Vol.	50.58	18	MR48	M26			20.89	19	TC26					4	1A7G, 1N5G, 1H5G,		
																1C5G	456	10-11
D174	Vol.	50.70	140	MRT450	M26			20.125	1/13	TC74					7	6SA7GT, 6SK7GT,		
	Tone	55.29	140	MR57												[2]6K6GT, [2]6SQ7GT,		
																80	456	12-11

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FADA—Continued																		
D175	Vol.	50.70	140	MRT450	M26			20.125	8	TC45					8	6SA7GT, 6SK7GT, [6]6SQ7GT, [2]25L6GT, [2]25Z6GT	456	12-12
	Tone	55.29	140	MR57				60-30	8	TC50/TC47								
F25	Vol.	50.51A	18	MR48	M26			20-103B	1	2N514					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	456	11-1
F44, F45	Vol.	50.55	6	MR33	M26			20.106	1	2N514					4	12K7GT, 12J7GT, 50L6GT, 45Z5GT		11-2
F55	Vol.	50.51A	18	MR48	M26			20.103	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	456	10-13
KA60	Vol.	2-1451MS	15	MR53				2-2-2-1-1	66/13	See Note	B1				9	[2]24A, [2]27, [2]45, 80		
KB (81, 82, 84, 86)	Vol.	2-1451MS	15	MR53				2.5-2-1-2	3	See Note	B7				12	[2]24, [2]27, [6]71A		2-7
	Sen.	2-1497MS	12	E12														
KE (122)	Vol.	3-1210MS	12	MR24	M23										7	[2]30, [2]31, [2]32		2-8
KF (43) KG (761, 762, 764, 766)	Vol.	3-1236MS	24	DRP119				2-2-1-1	30/14	See Note	B1				7	[2]24, 27, [2]45, 80		1-21
KO (51) KOC (53, 57)	Vol.	3-1269MS	8	F	6	See Note A39		3-1301-MS	1	RS213					7	[2]35, [2]24, 27, 47, 80	175	1-30
								3-1313-MS	17	TC26								
KOC (171, 173) 110 V DC	Vol.	3-1337MS	8	F	6										8	[4]36, [2]37, [2]38	175	2-9
KU (45, 45Z)	Vol.	3-1269MS	7	F	6	See Note A40		3-1301-MS	3	RS213	B10				8	[2]35, [2]27, 24, [2]47, 80	175	1-22
KW (48, 49)	Vol.	3-1326MS	78	MR53	M26			3-1301-MS	3	RS213					10	[2]27, [4]35, [2]47, 80	175	1-23
	F.O.G.	3-1324MS	‡	F														
	Tone	4-1497MS	41	MR45			A90											
KX (61, 66)	Vol.	3-1337MS	42	F	6			3-1301-MS	4	RS213					5	[2]35, 24, 47, 80		2-6
								3-1384-MS	4	RS213								
KY (66) Early, Late	Vol.		64	MR53	M26			3-1301-MS	1	RS213					10	[2]24, [4]35, [2]27, 47, 80	175	3-10,14
L26	Vol.	50.51A	18	MR48	M26			20.103B	1	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11-1
L56	Vol.	50.51A	18	MR48	M26			20.103A	1	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11-4
L67C, L67T	Vol.	50.47A	18	MR48	M26			20.82	6/15	3N533					5	6SA7GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z5	465	11-12
	Tone	55.20	22	MR48														
L96	Vol.	50.47A	18	MR48	M26			20.103A	1	2N514					5	6SA7GT, 6D6, 6Q7G, 25L6G, 25Z5	456	11-7
	Tone	55.20	22	MR48														
L96A	Vol.	50.47A	18	MR38	M26			20.108	1	3N533					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	
	Tone	55.20	22	MR48														
LA60	Vol.	50.47A	18	MR48	M26			20.108A	1/15	2N514/TC26					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11
LW36	Vol.	50.47A	18	MR48	M26			20.108C	1/15	3N533					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	12-5
NA (14)	Vol.	5-1214MS	64	MR53	M26			5-1209-MS	1	RM262					6	6A7, 6D6, 37, 42, 77, 80	265	4-15
	Tone	5-1213MS	57	MR45			A90	4-1343-MS	15	TN111								
NE (151, 152)	Vol.	4-1444MS	15	MR53	M26			5-1209-MS	1	RM262					6	6A7, 6D6, 37, 77, 42, 80	265	4-16
	Tone	5-1215MS	57	MR44				4-1343-MS	15	TN111								
NF	Vol.	5-1214MS	17	MR53	M26			4-1488-MS	1	2N518					6	6A7, 6B7, [6]6D6, 42, 80	125	5-2
	Tone	5-1241MS	57	MR42				4-1314-MS	15/19	TC22								
NK (126, 127, 128)	Vol.		16	MR53	M27			4-1380-MS	1	2N516		5-1298VS	245A	C3	7	[2]34, 1A7, [2]30	262.5	7-8
	Tone		34	MR44														
P22	Vol.	50.65	149	MR48	M27			20.117A	76	2N513					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	456	13-3
								20.120	76/78	Order from	Mfr.							
P23 (1940)	Vol.	50.67	18	MR48	M27			20.103B	76	2N509					6	[2]1N5GT, 1A7GT, 1H5GT, 3Q5GT, 35Z5	456	12-1
								20.120	76/‡	Order from	Mfr.							
P24	Vol.	50.67	18	MR48	M27			20.118	1	2N513					7	[2]1N5GT, 1A7GT, 1H5GT, 3Q5GT, 50L6GT, 35Z5GT	456	12-2
								20.123	‡	Order from	Mfr.							
P28	Vol.	50.65	18	MR48	M27			20.112	‡	3N533					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	456	12-4
P28A	Vol.	50.65	149	MR48	M27			20.117A	76	2N513					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	456	13-3
								20.120	76/78	Order from	Mfr.							
P40	Vol.	50.60	18	MR48	M27			20.85	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	456	11-2
P41	Vol.	50.60	18	MR48	M27			20.124	76	2N511					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	13-4
								20.139	76/78	Order from	Mfr.							
P47, P49	Vol.	50.58	18	MR48	M26			20.89	19	TC26					4	1A7G, 1N5G, 1H5G, 1C5G	456	10-11
P49SW	Vol.	50.59A	15	MR48	M27			20.85	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	456	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FADA—Continued																		
P50, PL50, PUL50	Vol.	50.55	6	MR33	M26			20.100A	1	2N509					4	6D6, 6C6, 25L6G, 25Z5/25Z6GT, 115.53		11-3
	Phono.	50.57	63	‡		See Note A5												
P58, PL58	Vol.	50.60	18	MR48	M27			20.92	1	2N514					5	1A7GT, 1N5GT, 1H5GT, 1Q5GT, 70A7GT	456	11-5
								20.89	15/19	TC26								
P60	Vol.	50.51A	18	MR48	M26			20.84	1	TC47					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	11-6
	Tone	55.25	‡	‡		See Note A5		20.83	1	TC45								
PL60, PUL60	Vol.	50.51A	18	MR48	M26			20.105	1	TC47					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	456	11-7
	Tone	55.25	‡	‡		See Note A5		20.104	1	TC45								
PR-135	Vol.	50.77	18	MR48	M26			20.107A	4	2S569					7	[2]6SK7GT, 6SA7GT, 6J5GT, 6SQ7GT, 6V6GT, 80	456	13-1
	Tone	55.23	‡	MR48				20.89	15	TC26								
RA (74, 76, 83, 88, 89)	Vol.	3-1403MS	15	MR53	M26			3-1473-MS	28	RS213					9	[2]58, [2]56, [2]47, 80	175	3-22
	F.O.G.	3-1440MS	‡	MR29				3-1384-MS	28	RS213								
								3-1301-MS	28	RS213								
								3-1313-MS	15	TC26								
RC (78, 79)	Vol.	3-1456MS	‡	NN	6			3-1473-MS	28	RS213					11	[4]58, [4]56, 57, [2]47, 80	175	3-23
	F.O.G.	3-1440MS	‡	MR29				3-1384-MS	28	RS213								
	Sil.	3-1491-MS	12	MR18				3-1381-MS	28	RS213								
RE (73, 75, 85, 98)	Vol.	3-1403-MS	17	MR53	M26			3-1473-MS	25	RS213					7	[2]58, 55, 56, 47, 80	175	3-18
								3-1301-MS	25	RS213								
								3-1313-MS	17	TC26								
RE-187	Vol.	50.70	139	MRT450	M26			20.125	1/13	2S569/TC75					7	6SA7GT, 6SK7GT, [2]6SQ7GT, [2]6K6GT, 80	456	13-11
	Tone	55.29	139	MR57														
RG (55)	Vol.	4-1210MS	6	MR18	M26			4-1219-MS	1	RS213					5	[2]57, 58, 47, 80	175	3-6
RH (74, 76, 83, 87, 88, 89, 97)	Vol.	3-1403MS	15	MR53	M26			3-1473-MS	28	RS213					9	[2]56, [2]58, [2]47, 80	175	
	F.O.G.	3-1440MS	‡	MR29				3-1384-MS	28	RS213								
								3-1301-MS	28	RS213								
								3-1313-MS	15	TC26								
RK (101 Motoset)	Vol.	4-1259MS	17	UM154	M26	See Note A96		4-1254-MS	1	2N518		4-1252MS	292	C3	8	[2]39, 37, 84, 85, [2]89	175	3-26
								.01		Buffer	B14							
RL (103 Fadalette)	Vol.	4-1305MS	6	MR18	M26			4-1312-MS	6	2N516					4	36, 38, 39, 25Z5		3-25
								4-1314-MS	15	TC22								
RN (105, 106, 107)	Vol.	4-1328MS	17	MR53	M26			4-1362-MS	6	TN125					5	6A7, 78, 6B7, 43, 25Z5	470	4-8
								4-1343-MS	15	TN111								
RP (102 Motoset)	Vol.	4-1259MS	16	UM154	M26	See Note A96		4-1254-MS	1	2N518		4-1252MS	292	C3	8	[2]37, [2]39, 85, 89, 79, 84	175	4-5
	Tone	4-1378MS	44	MR39				4-1363-MS	12	TC71								
								4-1367-MS	15	TC22								
								.01		Buffer	B14							
RS (112)	Vol.	4-1328MS	17	MR53	M26			4-1362-MS	6	TN125					5	6A7, 78, 6B7, 43, 25Z5	470	4-11
	Tone	4-1378MS	22	MR39				4-1343-MS	15	TN111								
RU (131, 132)	Vol.	4-1444MS	15	MR53	M26			4-1450-MS	9	TC52/TC55					6	6A7, 6D6, 25Z5, 37, 43, 77	265	4-12
	Tone	4-1443MS	22	MR39				4-1451-MS	9	RS213								
								4-1343-MS	15	TN111								
RV (104B) Auto	Vol.	4-1385MS	17	UM161	M26	See Note A96		4-1254-MS	1	2N518		4-1252MS	292	C3	6	6A7, 6B7, [3]78, 41, 84	175	4-7
								4-1343-MS	15	TN111								
								4-1439-MS	15	TC22								
								.01		Buffer	B14							
RW, 78-10, 79-10, 97-10, 133, 134, 135	Vol.	4-1474MS	17	MR53	M26			4-1488MS	28	2N518					9	[2]6D6, [2]37, 85, [2]42, 80	265	4-14
	Tone	4-1497MS	21	MR45		See Note A90		4-1494MS	28	RS213								
	F.O.G.	3-1491MS	‡	MR18														
RX 93, 95	Vol.	3-1403MS	17	MR53	M26			3-1473MS	1	RS213					7	[2]58, 55, 56, 47, 80	125	4-1
								3-1384MS	1	RS213								
RY (108, 109, 125)	Vol.	4-1328MS	17	MR53	M26			4-1362MS	6	TN125					5	6A7, 78, 6B7, 43, 25Z5	470	4-10
								4-1343MS	15	TN111								
S46	Vol.	50.45	18	MR53	M26			20.79	1/15	3N527					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5, 115.41	456	10-10
T49	Vol.	50.58	18	MR48	M26			20.89	1	TC26					4	1A7G, 1N5G, 1H5G, 1C5G	456	10-11
WP-101, WP-102								20.142	24	2N516					2	12A8, 35Z5		13-5
5F50	Vol.	50.55	6	MR33	M26			20.100	1	2N509					4	6D6, 6C6, 25L6G, 114.53, 25Z5		10-1
5F60	Vol.	50.51	18	MR48	M26			20.84	1	TC47					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	9-14
								20.83	1	TC45								
6A39	Vol.	50.47A	18	MR48	M26			20.82	1/15	3N533					5	6A8GT, 6D6, 6SQ7GT, 25L6G, 25Z5	456	
	Tone	55.20	22	MR48														
6A51	Vol.	50.47A	18	MR48	M26			8-8	4	2S567					5	6A7, 6D6, 6Q7G, 6Y6G, 80	465	10-3
								25	19	TC26								
6A54	Vol.	50.45	18	MR53	M26			20.80A	23	3S584	B8				5	6A8G, 6K7, 6Q7G, 6Y6G, 80	456	10-12
6A60	Vol.	50.47A	18	MR48	M26			20.84	1	TC47					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, 115.41	456	10-9
								20.83	1	TC45								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FADA—Continued																		
6A61	Vol.	50.47A	18	MR48	M26			20.95	1/13/15	TN129/TC26					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	10-3
6A65	Vol.	50.53	15	MRT451	M26			20.3	1	RS216					6	6A8G, 6D6, 76, 6Q7G, 6V6G, 80	456	10-4
								20.88	1	TC71								
								20.89	15	TC26								
6A70	Vol.	50.50	15	MR53	M26			20.92A	6	2N514					6	6A8G, 6D6, 76, 6Q7G, 25L6G, 25Z5, 115.55	456	10-1
	Tone	55.22	22	‡		See Note	A5	20.83	13	TC45								
								20.89	15	TC26								
6A80	Vol.	50.53	18	MRT451	M26			20.3	1	RS216					8	[3]6K7, 6A8G, 6Q7G, 6E5, 6Y6G, 80	456	10-5.6
								20.94	1/13	3S584	B8							
10, 10Z, 11, 11Z	Vol.	1469MS	14	MR18-RS242				‡	‡	See Note	B1				7	[3]27, 71, 80		1-10
15M, 15MZ	Vol.	2-1316MS	11	A3MP-RS242				‡	‡	See Note	B1				8	[4]27, 24, [3]45, 80		1-15
16, 16Z, 17	Vol.	2-1303MS	4	MR18-RS242		(Early)	A27	‡	‡	See Note	B1				8	[3]27, [3]71, 80		1-11
	Vol.	2-1316MS	8	A3MP-RS242		(Late)	A4											
18DC	Vol.	2-1303MS	4	A3MP-RS242				1-2-2-1	‡	See Note	B7				7	[5]12A, [3]71A		1-12
20, 20Z (1929)	Vol.	2-1316MS	8	A3MP-RS242				‡	‡	See Note	B1				8	[3]27, [3]71, 80		1-13
20, 20A, 20T	Vol.	50.30	6	E12	6	2		20.79	1	3N527					5	6A7, 6D6, 76, 25L6G, 25Z5, 115.41	456	9-1
21	Vol.	50.55	6	MR33	M26			20.100A	1	2N509					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT, 115.53		11-1
25, 25Z	Vol.	2-1316MS	11	A3MP-RS242				‡	‡	See Note	B1				8	[4]27, 24, [3]45, 80		1-15
27	Vol.	50.64	18	MR48	M26			20.81B	23/19	2S567/TC36					5	6SA7GT, 6K7GT, 6SQ7GT, 6V6GT, 80	456	12-3
	Tone	50.26	22	MR48														
30, 30Z, 31, 31Z	Vol.	1469MS	35	MR18-RS242				‡	3	See Note	B1				7	[3]27, 71, 80		1-10
30 (Late)	Vol.	50.47A	18	MR48	M26			20.84	1	TC47					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, 115.41	456	10-8
								20.83	1	TC45								
31	Vol.	50.47A	18	MR48	M26			20.84	1	TC47					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, 115.41	456	10-8
	Tone	55.20	22	MR48				20.83	1	TC45								
32, 32Z	Vol.	2-1303MS	8	A3MP-RS242			A4	‡	‡	See Note	B1				8	[3]27, [3]71, 80		1-11
	Vol.	2-1316MS	4	MR18-RS242		(Early)	A27											
32 (Late)	Vol.	50.47A	18	MR48	M26			20.97	23	RS213	B3				5	6A7, 6D6, 6Q7G, 6Y6G, 80	456	10-9
								20.93	23	RS213	B3							
								20.89	19	TC26								
35, 35Z	Vol.	2-1357MS	12	D12				‡	‡	TC92					7	[2]24, [3]27, [3]45, 81 (or 80)		1-18
40	Vol.	2-1418MS	25	‡		See Note	A3	‡	‡	TC92					8	[2]24, [3]27, [3]45, 80		1-19
	Tone	2-1421MS	21	MR53														
41, 42	Vol.	2-1451MS	64	MR53				‡	‡	See Note	B1				9	[2]24, [3]27, [3]45, 80		1-20
43	Vol.	3-1236MS	24	DRP119				2-2-1-1	3/14	See Note	B1				7	[2]24A, 27, [3]45, 80		1-21
44	Vol.	2-1451MS	64	MR53				‡	‡	See Note	B1				9	[2]24, [3]27, [3]45, 80		1-20
46, 47	Vol.	2-1451MS	64	MR53				‡	‡	See Note	B3				9	[2]24, [3]27, [3]45, 80		1-20
48, 49	Vol.	3-1326MS	‡	‡		See Note	A85	8-8-8	3	See Note	B3				10	[3]27, [3]35, [3]47, 80		1-24
	F.O.G.	3-1324MS	‡	F7														
50, 50Z	Vol.	1469MS	14	MR18-RS242											9	[3]27, [3]71A, 80		1-25
52	Vol.	50.51	18	MR48	M26			20.103A	1	2N514					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	456	11-4
53	Vol.	50.51	18	MR48	M26			20.105	1	TC47					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	456	11-4
								20.104	1	TC45								
54	Vol.	50.45	18	MR53	M26			20.80A	23	3S584	B8				5	6A8G, 6K7, 6Q7G, 6Y6G, 80	456	10-12
57	Vol.	50.51A	18	MR48	M26			20.103A	1	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11-5
59	Vol.	50.51A	18	MR48	M26			20.105	1	TC47					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT, 120.17	456	10-13
								20.104	1	TC45								
60	Vol.	50.47A	18	MR48	M26			20.84	1	TC47					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, 115.41	456	10-9
61	Vol.	50.47A	18	MR48	M26			20.83	1	TC45								
	Tone	55.20	22	MR48				20.108	1/15	3N533					5	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 25Z5	456	11-6
63	Vol.	50.47A	18	MR48	M26			20.108C	1	3N533					5	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 25Z5	456	11-8
								20.104	1	TC45								
								20.105	24	TC47								
64APC	Vol.	50.53	17	MRT451	M26			20.107A	4	2S569					6	6SA7GT, 6K7GT, 6P5GT, 6SQ7GT, 6V6G, 80	456	11-9
								20.89	15	TC26								
65PC	Vol.	50.62	15	MR53	M26			20.107	4	2S569					6	6A8G, 6K7G, 76, 6F5G, 6V6G, 80	456	11-10
	Tone	55.20	22	MR48														
68	Vol.	50.64	18	MR48	M26			20.110	1/15	3N533					5	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 25Z5	456	11-14
	Tone	55.26	22	MR48														
69	Vol.	50.47A	18	MR48	M26			20.108	1/15	3N533					5	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 25Z5	456	11-6
	Tone	55.20	22	MR48														
70, 71, 72, 70Z	Vol.	1469MS	14	A3MP-RS242											9	[3]27, [3]71A, 80		1-25
74APC	Vol.	50.53	17	MRT451	M26			20.109	1/15	TN129/TC26					6	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, [2]25Z5, 115.68	456	11-13
								20.89	15	TC26								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FADA—Continued																		
75	Vol.	2-1316MS	12	A3MP-RS242				‡	‡	See Note	B1				8	[3]24,[3]27,[3]10, 81		1-29
75PC	Vol.	50.62	15	MR53	M26			20.109	8/15	TN129/TC26					6	6A8G, 6K7G, 6Q7G, 25L6G, [3]25Z5	456	14-2
	Tone	55.20	22	MR48				20.89	15	TC26								
77	Vol.	2-1316MS	12	A3MP-RS242				‡	‡	See Note	B1				8	[3]24,[3]27,[3]10, 81		1-29
107, 108 Phono	Vol.	50.85	50	MR57				20.106C	1	2N513					3	12Q7GT, 35L6GT, 50Z7GT		13-6
								20.89	15	TC26								
110A, 110B	Vol.		6	MR45	M26	EX200		4-8	24	2N518					4	6D6, 6C6, 38, 12Z3		
								2-4	15	TN111								
114	Vol.	50.51A	18	MR48	M26			20.103B	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	456	13-7
115, 116	Vol.	50.69A	18	MR48	M26			20.106A	1	2N514					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	12-6
119	Vol.	50.47A	18	MR48	M26			20.122	1	2N513					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	456	12-7
	Tone	55.20	22	MR48														
120	Vol.	50.55	6	MR33	M26			20.103R	1	2N514					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT, 115.96		12-8
130	Vol.	50.11	6	SRP263	6	EX200		20.22	6	2N509					5	[3]6C6, 6D6, 43, 25Z5	175	
								20.17	15	TN111								
130L	Vol.		6	SRP263	6	EX200		20.22	6	2N509					5	6A7, 6D6, 6C6, 43, 25Z5	175	
								20.17	15	TN111								
136	Vol.	50.51A	18	MR48	M26			20.103B	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	456	13-7
137	Vol.	50.51A	18	MR48	M26			20.103B	1	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	12-8
140	Vol.		18	MR48	M26			16-16	6	2N509					6	6A7, 6D6, 75, 43, 37, 25Z5	175	14-3
								4-4	6/15	2N516								
140L	Vol.		18	MR48	M26			16-16	8	2N509					6	[3]6D6, 6A7, 75, 43, 25Z5	175	
								4-4	8/15	2N516								
140SW	Vol.		18	MR48	M26			8-4-4-16-16	8/15	TN125/2N509					6	[3]6D6, 6A7, 75, 43, 25Z5	175	
144	Vol.	50.44	18	MR48	M27			20.85	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	456	13-8
148	Vol.	50.51A	18	MR48	M26			20.103B	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	456	13-7
150 (Two Types)	Vol.	50.1	17	MR48	M26			20.8	1/15	3S579					5	6A7,6F6-42,6K7-6D6, 75, 80	456	6-1
150A	Vol.	50.14	17	MR53	M26			20.33C	1/15	4S718					5	6A7, 6K7, 75, 6F6, 80	456	
153	Vol.	50.47A	18	MR48	M26			20.103B	1	2N514					5	6SA7, 6SK7, 6SQ7, 25L6GT, 25Z6GT	456	12-7,15
154	Vol.	50.47A	18	MR48	M26			20.124	1	2N514					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	456	12-9,15
155	Vol.	50.6	4	MR18	M26	EX450		20.28	6/15	3N527					5	6A7, 6D6, 76, 43, 25Z5	456	6-3
156	Vol.	50.6	6	MR18	M26	EX450		20.28	6/15	3N527					5	6A7, 6D6, 76, 43, 25Z5	456	6-5
157	Vol.	50.6	6	MR18	M26	EX450		20.35	6/15	3N527					5	6A8, 6C5, 6K7, 43, 25Z5	456	6-6
158, 159	Vol.	50.6	6	MR18	M26	EX450		20.28	6/15	3N527					5	6A7, 6D6, 76, 43, 25Z5	456	
160	Vol.	50.13	17	MR53	M26			20.33A	1/15	4S718					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	456	6-7
160A	Vol.	50.14	15	MR53	M26			20.33C	1/15	4S718					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	456	
162	Vol.	50.18	18	MR53	M28			20.37	12	TC42					6	[3]34, 1C6, 1R5, 30, 19	456	
163	Vol.	50.19	15	UM161	M26		A96	20.38	1	2N518		90.102	245	C3	6	[3]6K7, 6A8, 75, 6C5, 79	456	
								20.39	15	TN111								
								20.40	13	TC62								
								.005		Buffer	B14							
165	Vol.	50.14	17	MR53	M26			20.1A	8/15	TN129/TC26					6	6A8, 6K7, 75, 6H6, 43, 25Z5	456	
166 Motoset	Vol.	50.8	17	MR53	M26	EC240		20.29	1	2N518		90.17	253Y	C3	6	[3]78, 6A7, 75, 41, 84	175	6-9
	Tone	55.4	22	MR39				20.30	15	TN111								
								.01		Buffer	B14							
167, 168	Vol.	50.1	17	MR48	M26			20.36	6/15	4S715					6	6A7, 6K7, 75, 6H6, 43, 25Z5	456	7-1,2
	Tone	55.10	22	MR44														
169	Vol.	50.47A	18	MR48	M26			20.121	63	2N513					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6G, [3]25Z6	456	12-10
	Tone		22	MR48				20.105	24	TC47	B12							
								16	63	TC45								
								16	63	TC45	B12							
170	Vol.	50.14	17	MR53	M26			20.33A	1/15	4S718					7	6A8, 6F5, [3]6F6, 6H6, 6K7, 5Z4	456	6-11
								20.34	13	TC71								
175	Vol.	50.70	139	MRT450	M26			30-60-16	63	TN129/TC48	B8				8	6SA7GT, 6SK7GT, [3]6SQ7GT,[3]25L6GT, [3]25Z6GT	456	13-10
	Tone	55.29	139	MR57														
174	Vol.	50.70	124	MRT450	M26			20.125	1/13	TC74					7	6SA7GT, 6SK7GT, [3]6K6GT,[3]6SQ7GT, 80	456	12-11
	Tone	55.29	22	MR57														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FADA—Continued																		
176	Vol.	50.72	124	MRT451	M26			20.107A	4	2S569					7	²6SK7GT, 6SA7GT, 6P5GT, 6SQ7GT, 6V6GT, 80	456	12-13
177	Vol.	50.72	124	MRT451	M26			20.133	63/15	TN129/TC26					7	²6SK7GT, 6SA7GT,		
								20.130	63	TC50						6SQ7GT, 25L6GT, ²25Z6GT	456	13-9
184	Vol.	50.70	124	MRT450	M26			20.125	1/13	TC74					7	6SA7GT, 6SK7GT,		
	Tone	55.29	22	MR57												²6SQ7GT, ²6K6GT, 80	456	12-11
185	Vol.	50.70	139	MRT450	M26			30-60-16	63	TN129/TC48	B8				8	6SA7GT, 6SK7GT,		
	Tone	55.29	139	MR57												²6SQ7GT, ²25L6GT, ²25Z6GT	456	13-10
190	Vol.	50.16	17	MR53	M26			20.7	1	RS215					9	6A8, 6F5, ²6F6, 6H6,		
								20.4	1	RS213						²6K7, 5Z4	456	6-13
								20.34	13	TC71								
								20.6	15	TN111								
192	Vol.	50.17	7/17	DRP314	8			20.32	‡	4S715/2N516	B139				9	²6K7, 6A8, 6H6, 6C5, ²43, ²25Z5	456	6-17
193	Vol.	50.17	7/17	DRP314	8			20.32	‡	4S715/2N516	B139				9	²6K7, 6A8, 6H6, 6C5, ²43, ²25Z5	456	
207 APT	Vol.	50.51A	18	MR48	M26			20.124	6	2N511					5	12SA7GT, 12SK7GT,		
	Tone	55.20	22	MR48												12SQ7GT, 50L6GT, 35Z5GT	456	13-12
211	Vol.	50.25	17	TM234-SS1	M28			20.47	6	2N514					10	²6K7, 6A8, 6Q7, 6C5,		
	Tone	55.11	22	MR48	M26			20.25	13	TC42						²25A6, 6G5, ²25Z6	456	7-3
								20.44	15	TN111								
211B (220V)	Vol.	50.25	17	TM234-SS1	M28			20.54	1	Order from	Mfr.				10	²6K7, 6A8, 6Q7, 6C5,		
	Tone	55.11	22	MR48	M26			20.55	13	TC52						6G5, ²25A6, ²25Z6	456	8-3
	F.O.G.	50.24	‡	MR53	M28			20.44	15	TN111								
212	Vol.	50.25	17	TM234-SS1	M28			20.50	3	RS216					12	²6K7, 6L7, ²6C5, 6Q7,		
	Tone	55.13	22	MR48				20.4	3	RS213						²6L6, 6E5, ²5W4	456	8-4
	F.O.G.	50.24	‡	MR53	M28			20.44	15	TN111								
214	Vol.	50.51A	18	MR48	M26			20.103B	1	2N513					6	²6SK7GT, 6SA7GT,		
	Tone	55.33	22	MR48												6SQ7GT, 25L6GT, 25Z6GT	456	13-13
215	Vol.	50.51A	18	MR48	M26			20.124	1	2N511					6	²6SK7GT, 6SA7GT,		
																6SQ7GT, 25L6GT, 25Z6GT	456	13-14
216	Vol.	50.25	17	TM234-SS1	M28			20.47	1	2N514					15	²6K7, 6L7, ²6C5, 6Q7,		
	Tone	55.13	22	MR48				20.52	8	2N509						²25A6, ²25Z6, 6G5	456	8-5
	F.O.G.	50.24	‡	MR53	M28			20.25	13	TC42								
								20.27	13	TC45								
								20.44	15	TN111								
242	Vol.	50.28	17	MR53	M27			20.37	12	TC42					4	1C6, 1A4, 1F6, 1F4	456	8-9
246	Vol.	50.28	17	MR53	M27			20.57	1	2N516		90.147	W245	C3	4	1C6, 1A4, 1F6, 1F4	456	8-10
								.007		Buffer	B14							
250	Vol.	50.27	6	E12	6			20.48	1	2N518					5	6A7, 6D6, 76, 6B5, 80	456	7-4
252	Vol.	50.78	18	MR48	M26			20.106A	1	2N513					6	²6SS7GT, 12SA7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	13-15
253	Vol.	50.78	18	MR48	M26			20.103B	1	2N513					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	13-16
254	Vol.	50.29	6	E12	6	EX200		20.58	1/15	3S579					5	6A8, 6D6, 76, 25L6, 25Z5	456	8-12
255	Vol.	50.26	114	MR53	M26			20.48	1	2N518					5	6A7, 6D6, 75, 6B5, 80	456	8-13
	Tone	55.12	114	MR48				20.39	15	TC22								
256	Vol.	50.47A	18	MR48	M26			20.131	4	ST597					5	6SA7GT, 6SK7GT,		
	Tone	55.28	22	MR48				20.132	4/13	2S569						6SQ7GT, 6V6GT, 80	456	13-17
260	Vol.	50.21	6	MR18	M26	EX450		20.49	6/15	3N527					5	6A7, 6D6, 76, 43, 25Z5	456	7-5
261	Vol.	50.22	6	MR18	M26	EX250		20.49	6/15	3N527					5	6A7, 6D6, 76, 43, 25Z5	456	8-14
262	Vol.	50.22	6	MR18	M26	EX250		20.49	6/15	3N527					5	6A8, 6K7, 6C5, 43, 25Z5	456	7-7
263	Vol.	50.47A	18	MR48	M26			20.124	6	2N511					6	²6SK7GT, 6SA7GT,		
	Tone	55.28	22	MR48												6SQ7GT, 25L6GT, 25Z6GT	456	13-2
264	Vol.	50.47A	18	MR48	M26			20.103B	1	2N513					6	²6SK7GT, 6SA7GT,		
	Tone	55.28	22	MR48												6SQ7GT, 25L6GT, 25Z6GT	456	13-18
265	Vol.	50.26	114	MR53	M26			20.48	1	2N518					6	6A7, 6D6, 75, 6B5, 6G5, 80	456	8-15
	Tone	55.12	114	MR48														
266, 266SD, 266SG	Vol.	50.8	17	MR53	M26	EC240		20.42	1	2N518		90.63	294	C3	6	78, 6A7, 6K7, 6Q7,		
	Tone	55.4	22	MR39				20.30	15	TN111						41, 84	175	8-16
								.007		Buffer	B14							
267 Series	Vol.	50.31	17	UM161	M26		A96	20.59	4	RM262		90.63	294	C3	6	²78, 6A7, 75, 41, 84	175	8-17
	Tone	55.14	22	MR39				.004		Buffer	B14							
270, 271	Vol.	50.23	15	MR53	M28			20.4	1	RS213					7	6A8, 6K7, 6H6, 6F5,		
	Tone	55.11	22	MR48	M26			20.45	12	TC71						6F6, 5W4, 6G5	456	7-9,11
								20.44	15	TN111								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FADA—Continued																		
272, 273	Vol.	50.26	17	MR53	M26			20.46	8	2N509/TC42					6	6A8, 6K7, 6H6, 6Q7, 43, 25Z5	456	7-12,13
	Tone	55.12	21	MR48				20.44	15	TN111								
278	Vol.	50.77	18	MR48	M26			20.107A	4	2S569					7	[2]6SK7GT, 6SA7GT, 6J5GT, 6SQ7GT, 6V6GT, 80	456	13-19
	Tone	55.33	22	MR48				20.89	15	TC26								
280, 281	Vol.	50.26	17	MR53	M26			20.46	8	2N509/TC42					7	6A8, 6K7, 6Q7, 6H6, 43, 6G5, 25Z5	456	7-14,15
	Tone	55.12	21	MR48				20.44	15	TN111								
286	Vol.	50.74A	140	MRT450	M26			20.132	1	2S569					8	[2]6SK7GT, 6SA7GT, [2]6SQ7GT, [2]6K6GT, 80	456	13-20
	Tone	55.32	140	UC506														
288	Vol.	50.70	140	MRT450	M26			20.131	1	ST597					9	[2]6SK7GT, 6SA7GT, [2]6SQ7GT, 6U5, [2]6K6GT, 80	456	13-21
	Tone	55.35	140	UC506				20.143	1/13	2S569								
290	Vol.	50.25	17	TM234-SS1	M28			20.51	1	RS215					9	[2]6K7, 6A8, 6Q7, 6C5, [2]6L6, 6G5, 5Z4	456	7-16
	Tone	55.11	22	MR48	M26			20.4	1	RS213								
	F.O.G.	50.24	‡	MR53	M28			20.45	13	TC71								
								20.44	15	TN111								
291	Vol.	50.25	17	TM234-SS1	M28			20.51	1	RS215					9	[2]6K7, 6A8, 6Q7, 6C5, [2]6L6, 6E5, 5Z4	456	7-17
	Tone	55.11	22	MR48	M26			20.4	1	RS213								
	F.O.G.	50.24	‡	MR53	M28			20.45	13	TC71								
								20.44	15	TN111								
295	Vol.	50.70	140	MRT450	M26			20.131	1	ST597					9	[2]6SK7GT, 6SA7GT, [2]6SQ7GT, 6U5, [2]6K6GT, 80	456	13-21
	Tone	55.35	140	UC506				20.143	1/13	2S569								
311	Vol.	50.25	17	TM234-SS1	M28			20.47	6	2N514					10	[2]6K7, 6A8, 6Q7, 6C5, [2]25A6, 6E5, [2]25Z6	456	7-18
	Tone	55.11	22	MR48	M26			20.25	13	TC42								
	F.O.G.	50.24	‡	MR53	M28			20.44	15	TN111								
312	Vol.	50.25	17	TM234-SS1	M28			20.50	3	RS216					12	[2]6K7, [2]6C5, 6L7, 6Q7, [2]6L6, 6E5, [2]5W4	456	8-20
	Tone	55.13	22	MR48				20.4	3	RS213								
	F.O.G.	50.24	‡	MR53	M28			20.44	15	TN111								
316	Vol.	50.25	17	TM234-SS1	M28			20.47	8	2N514					15	[2]6K7, 6L7, [2]6C5, 6Q7, [2]25A6, [2]25Z6, 6G5	456	8-21
	Tone	55.13	22	MR48				20.52	8	2N509								
	F.O.G.	50.24	‡	MR53	M28			20.25	13	TC42								
								20.27	13	TC45								
								20.44	15	TN111								
350	Vol.	50.41	15	MR53	M26			20.75	1/15	3N527					4	6A7, 6B7, 25L6G, 25Z5	456	8-23
351	Vol.	50.37	17	MR53	M26			20.70	1/15	TN125/TC26					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	8-24
352	Vol.	50.37	15	MR53	M26			20.75	1/15	3N527					4	6A7, 6B7, 25L6G, 25Z5	456	9-4
353	Vol.	50.37	17	MR53	M26			20.70	1/15	TN125/TC26					5	6A7, 6D6, 6Q7, 25L6G, 25Z5	456	
354	Vol.	50.35	17	MR53	M26			20.72	1	2N518					5	6A7, 6D6, 6Q7G, 25L6, 25Z5	456	8-25
								20.68	15	TC22/TC26								
355	Vol.	50.35	17	MR53	M26			20.72	1	2N518					5	6A7, 6D6, 6Q7G, 25L6, 25Z5	456	
								20.68	15	TC22/TC26								
358	Vol.	50.37	17	MR53	M26			20.70	1/15	TN125/TC26					5	6A7, 6D6, 6Q7G, 25L6G, 25Z6	456	
360	Vol.	50.35	17	MR53	M26			20.67	6	2N514					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	9-5
								20.68	15	TC22/TC26								
361	Vol.	50.37	17	MR53	M26			20.73	1/15	TN129/TC26					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	14-4
362	Vol.	50.35	17	MR53	M26			20.67	6	2N514					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	
								20.68	15	TC22/TC26								
365	Vol.	50.37	20	MR53	M26			20.71	1/15	3S579/TC22					6	6A8G, 6D6, 76, 6Q7G, 6V6G, 80	456	9-6
								20.3	1	RS216								
366, 366PT	Vol.	50.37	15	MR53	M26			20.3	1	RS216					6	6A8G, 6D6, 76, 6Q7G, 6V6G, 80	456	10-14
	Tone	55.12	22	MR48				20.71	1/13/15	4S718								
368	Vol.	50.37	17	MR53	M26			20.73	6/15	TN129/TC26					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	
370	Vol.	50.37	15	MR53	M26			20.64	6	TC47					6	6A8G, 6D6, 76, 6Q7G, 25L6G, 25Z5	456	9-7
	Tone	55.12	22	MR48				20.66	6/15	3N527/TC22								
380	Vol.	50.39	15	MR53	M28			20.69	1	RS215					8	6A8G, [2]6K7, 76, 6Q7G, 6V6G, 6G5, 80	456	9-8
	Tone	55.15	22	MR48	M26			20.3	1	RS216								
								20.4	13	RS213								
390	Vol.	50.39	15	MR53	M28			20.64	6	TC47					8	6A8G, [2]6K7, 76, 6Q7G, 25L6G, 6G5, 25Z5	456	9-9
	Tone	55.12	22	MR48	M26			20.65	6/15	3N527								
410	Vol.	50.42	15	TM234-SS1	M28			20.69	1	RS215					10	6A8G, [2]6K7, 6J7, 6H6, 76, 6Q7G, 6V6G, 6G5, 80	456	9-10,11
	Tone	55.16	22	MR48	M26			20.3	1	RS216								
								20.4	13	RS213								
								20.39	15	TN111								
413	Vol.	50.43	15	MRT443	M28			20.3	3	RS216					13	[2]6K7, 6A8G, 6J7, [2]76, [2]6V6G, 6H6, 6Q7G, 6G5, 5Z3	456	9-12
	Tone	55.16	22	MR48	M26			20.4	3	RS213								
								20.77	15	TN111								
450	Vol.	50.46	6	SRP263		EX300		20.78	1	2N509					4	6D6, 6C6, 25L6G, 25Z5		9-14
451	Vol.	50.47	18	MR48				20.81	23	2S567/TC36					5	6A8, 6D6, 6Q7G, 6Y6G, 80	456	9-15
	Tone	55.20	22	MR48														
454	Vol.	50.45	18	MR53	M26			20.80	23	3S584	B‖				5	6A8G, 6K7, 6Q7G, 6Y6G, 80	456	9-16

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FADA—Continued																		
460	Vol.	50.45	18	MR53	M26			20.79	1	3N527					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5	456	9-17
461	Vol.	50.47	18	MR48				32-16-25	1	3N533					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	9-18
	Tone		22			See Note A3												
465	Vol.	50.50	15	MR53	M26			20.3	1	RS216					6	6A8G, 6D6, 76, 6Q7G, 6V6G, 80	456	10-16
470	Vol.	50.50	15	MR53	M26			20.88	1	TC71								
	Tone	55.20	22	MR48				20.92	6	2N514					6	6A8G, 6D6, 76, 6Q7G, 25L6G, 25Z5, 115.55	456	10-17
								20.83	13	TC45								
490	Vol.	50.39A	18	MR53	M27			20.84	8	TC47					8	6A8G, [2]6K7, 6G5, 6Q7G, 25L6G, [2]25Z5, 115.58	456	10-18
	Tone	55.15A	22	‡		See Note A5		20.65	8	2N514								
554	Vol.	50.45	18	MR53	M26			20.80A	23	3S584	B8				5	6A8G, 6K7, 6Q7G, 6Y6G, 80	456	10-12
913	Vol.	50.47A	18	MR48	M26			20.113	63	TN129					12	[2]6K7GT, 6SA7GT, 6P5GT, 6SQ7GT, 6SF5GT, [2]25L6G, [2]25Z5, 6G5	456	11-16, 12-14
	Tone	55.20	22	MR48				20.105	63	TC47								
								20.104	63	TC45								
1242	Vol.	50.28	17	MR53	M27			20.37	12	TC42					4	1C6, 1A4, 1F6, 1F4	456	
1246	Vol.	50.28	17	MR53	M27			20.57	1	2N516		90.147	W245	C3	4	1C6, 1A4, 1F6, 1F4	456	
								.007		Buffer	B14							
1250	Vol.	50.27	6	E12	6			20.48	1	2N518					5	6A7, 6D6, 76, 6B5, 80	456	
1255	Vol.	50.26	114	MR53	M26			20.48	1	2N518					5	6A7, 6D6, 75, 6B5, 80	456	8-26
	Tone	55.12	114	MR48														
1262	Vol.	50.22	6	MR18	M26	EX250		20.49	6/15	3N527					5	6A8, 6K7, 6C5, 43, 25Z5	456	8-27
1265	Vol.	50.26	114	MR53	M26			20.48	1	2N518					6	6A7, 6D6, 75, 6B5, 6G5, 80	456	8-28
	Tone	55.12	114	MR48				20.39	15	TN111								
1450	Vol.		17	MR48	M26			20.1	8/15	2N509/2N516					5	6A7, 6D6, 75, 43, 25Z5	456	
1452	Vol.		17	MR48	M26			8-8-5	1/15	3S579					5	6A7, 6D6, 75, 42, 80	456	
1453	Vol.		17	MR48	M26			4-8-8	1/15	3S579					5	6A7, 6D6, 75, 42, 80	456	
1460	Vol.		17	MR48	M26			16-16-8-4-4	8/15	2N509/3N527	B140				6	[2]6D6, 6A7, 75, 43, 25Z5	456	
1462	Vol.	50.1	17	MR48	M26			20.1	6/15	2N509/2N516					6	6A7, 6K7/6D6, 6C5/37, 75, 43, 25Z5	456	6-19
1462 (above Ser. 22102)	Vol.	50.1	17	MR48	M26			20.36	6/15	4S715					6	6A7, 6K7, 75, 6H6, 43, 25Z5	456	7-19
1463	Vol.	50.1	17	MR48	M26			20.36	6/15	4S715					6	6A7, 6K7, 75, 6H6, 43, 25Z5	456	7-20
1470	Vol.		17	MR48				8	1	RS213					7	[3]58, 2A7, 2B7, 2A6, 2A5, 80	456	
								16	1	RS216								
								4-4	15	TN111								
1480	Vol.		17	MR48				20.1	8/15	2N509/2N516					8	[2]6D6, 6A7, 75, [3]43, [2]25Z5	456	14-6
1556	Vol.	50.11	6	SRP263	6	EX200		20.22	6	2N509					5	[2]6C6, 6D6, 43, 25Z5	456	6-21
								20.17	15	TN111								
1582	Vol.	50.7	17	MR53				20.7	1	RS215					8	[2]6D6, 6A7, 75, [3]42, 80	456	6-22
								20.4	1	RS213						‡		
								20.5	12	TC71								
								20.6	15	TN111								
1583	Vol.	50.7	17	MR53				20.7	1	RS215					8	6A7, [2]6D6, [3]42, 75, 80	456	6-16
								20.4	1	RS213								
								20.5	13	TC71								
								20.6	15	TN111								
FAIRBANKS-MORSE—Also see Audiola.																		
B6	Vol.	V6502	17	UM154-SS3	M26			8-8	25	TCS71	B39		298	C3	6	[2]6D6, 6A7, 75, 41, 84	177.5	5-12
								.02		Buffer	B14							
C6	Vol.	V6515	18	UM147			A96	8-8	4	TCS71	B3	14981	294	C3	6	6A7, [2]6D6, 42, 75, 84	177.5	6-2
								.02		Buffer	B14							
4A	Vol.	340-1	17	MR48	M27										4	1C7G, 1D5G, 1F7G, 1F5G	456	9-1,3
4B	Vol.	340-1	17	MR48	M27			231-1	1	2N516		806-1	246	C3	4	1C7G, 1D5G, 1F7G, 1F5G	456	9-1,3
								.01-.01		Buffer	B14							
5A (5AT-1)	Vol.	340-3	6	E12	6			231-2	1	2S567					5	6A7, 6D6, 76, 41, 80	456	9-4,6
5B	Vol.	340-2	18	MR48	M26			232-1	4	2S567					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3	456	9-7
5C	Vol.	340-2	18	MR48	M26			211-1	4	RS216					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3	456	8-2
								231-3	4/13	2N518								
5D (5DC-1B), (5DT-3B)	Vol.	340-1	18	MR48	M27			210-1	12	ST595					5	1C7G, 1D5G, 1F7G, 1H4G, 1J6G	456	8-3,4
6A	Vol.	340-2	18	MR48	M26			211-1	4	RS216					6	6A8G, 6K7G, 6Q7G, 6G5, 6F6G, 5Y3	456	8-1,2
								231-3	4/13	2N518								
6C (6CC-2B), (6CT-4B)	Vol.	340-2	18	MR48	M26			210-1	1	ST595		806-1	246	C3	6	6D8G, 15, 6T7G, 6L5G, 1J6G, 6N5	456	8-5,6
								230-1	15	TC22								
								.01-.01		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FAIRBANKS-MORSE—Continued																		
7A	Vol.	340-10	140	500M No. 1		See Note A19		236-1	4	3S584	B8				7	6K8, 6K7, 6J5G, 6F5G, 6V6G, 6U5, 5Y3G	455	10-1,2
	Tone	340-11	140	MR48	M26													
8A (8AC-2), (8AC-3), (8AT-8)	Vol.	340-6	80	MRT427				211-2	4	RS216					8	‡6K7G, 6C5G, 6L7G, 6Q7G, 6G5, 6V6G, 5Y3G	456	8-7,8
	Tone	340-5	80	MR53	M26			214-1	4	RS216								
9A (9AC4, 9AC5)	Vol.	340-8	80	MRT427	M26			211-2	4	RS216					9	‡6K7G, 6L7G, 6J7G, 6C5G, 6H6G, 6Q7G, 6V6G, 5V4G	456	8-9,10
	Tone	340-7	80	MR48				214-2	4	RS224								
								210-2	13	RS213								
9B	Vol.	340-9	18	MR53				211-4	25	RS207					8	‡6K7G, 6L7G, 6C5G, 6Q7G, 25L6G, 25Z6G, 6E5, 808-1	456	11-1,2
	Tone	340-5	22	MR53	M26			210-3	25	RS207								
9C	Vol.	340-10	140	500M No. 1		See Note A19		211-2	4	RS216					9	‡6K7, 6K8, 6Q7G, 6J5G, ‡6V6G, 5Y3G, 6U5	455	10-3,4
	Tone	340-11	140	MR48	M26			214-2	4	RS224								
								214-3	13	RS215								
12A (12AC6)	Vol.	340-8	140	MRT427	M26			211-3	1	RS216					12	‡6K7G, 6L7G, 6J7G, ‡6C5G, 6H6G, 6Q7G ‡6L6G, 5V4G	456	8-11
	Tone	340-7	140	MR48				214-1	1	RS216								
								210-2	13	RS213								
								231-4	15	TN111								
12B	Vol.	340-20	45	MRT420				211-5	4	RS216					12	‡6K7, 6K8, 6B8G, 6Q7G, ‡6J5, ‡6V6G, 5V4G, 6AF6G	455	10-5-8
	Tone	340-21	22	MR39	M26			214-4	4	RS224								
								235-1	13	FP227	B117							
23S12	Vol.		45	MR44	M26			8	3	RS213					12	‡58, 57, ‡56, ‡46, 83	177.5	
	Tone		22	MR33				8-8	3	2N518								
32S11	Vol.		45	MR48				8	3	RS213					11	‡35, ‡27, 24, ‡47, 80	177.5	
	Tone		22	MR33				8-8	3	2N518								
33A6	Vol.		15	MR39			A15	8-8	1	2N518	B42		Order from Mfr.		6	‡6D6, 6C6, 85, 37, 89	177.5	
								5	15	TC22								
								.02		Buffer	B14							
40 (4015)	Vol.	5139	40	MR24	M26			5026	4	RS216					4	‡6C6, 41, 80	456	7-1
								5025	4	RS213								
41 (4015)	Vol.	5442	27	UC513	13		A41	5438	12	ST595					4	1C6, 34, 32, 33	456	6-1,7-3
42 (42TOB) (42C1B)	Vol.	6059	79	MR48	M27			6054	12	TC52					4	1C6, ‡1B4, 33	456	8-17
43 (43T1B) (43C1B)	Vol.	6059	79	MR48	M27			6054	12	TC52		5610	246	C3	4	‡1B4, 1F4, 1C6	456	8-19
								5612	1	2N518								
								.01-.01		Buffer	B14							
51 (5106, 5107, 5109, 5111, 5112, 5141, 5143‡); 52 (5212, 5212A, 5241); 53 (5312, 5312A, 5341‡)	Vol.	V6503	17	MR48	M26			EL8	4	RS213					5	2A7, 58, 2A6, 2A5, 80	456	5-1
	Tone	V6504	22	MR33				EL6	15	TC22								
54 (5416, 5445)	Vol.	5031	18	MR48				5026	4	RS216					5	6A7, 6D6, 75, 42, 80	456	6-4,7-4
	Tone	5030	22	MR48	M26			5518	4	RS216								
55 (5516, 5545)	Vol.	5031	18	MR48				5026	4	RS216					5	6A7, 6D6, 42, 75, 80	456	
	Tone	5030	22	MR48	M26			5518	4	RS216								
56 (5619, 5645)	Vol.	5506	18	MR48	M26			5025	4	RS213					5	6A7, 6D6, 75, 42, 80	456	6-2,7-7
								5519	4	RS216								
57 (57TO)	Vol.	5728	18	MR48	M26			5880	4	RS213					5	6A8G, 6Q7G, 6K7G, 6F6G, 5Y3	456	8-21,22
								5881	4	RS213								
58 (58T1, 58T2, 58C1)	Vol.	5799	18	MR48	M26			5825	4	RS213					5	5Y3, 6A8G, 6F6G, 6K7G, 6Q7G	456	8-23,24
								5823	4	RS213								
								8	14	TC71								
60 (6010, 6044)	Vol.	V6508	18	MR44				EL8	4	RS213					6	‡6D6, 6A7, 6B7, 42, 80	456	6-11
	Tone	V6509	22	MR33	M26			EL16	4	RS216								
61	Vol.		17	MR48	M26			5-16-10	11	UR182	B31				6	6A7, 6B7, ‡6D6, 25Z5, 43	456	5-6
	Tone		22	MR33														
62 (6210, 6244)	Vol.	V6508	18	MR44				EL23	8	UR182	B104				6	‡6D6, 6A7, 6B7, 43, 25Z5	456	6-13,14
	Tone	V6507	34	MR33	M26													
63 (6317, 6346)	Vol.	5031	18	MR48				5025	4	RS213					6	‡6D6, 6A7, 75, 42, 80	456	7-8
	Tone	5030	22	MR48	M26			5026	4	RS216								
								5429	13	RS213								
64 Auto	Vol.	V6515	18	UM147		See Note A96		8-8	4	2N518			294	C3	6	‡6D6, 6A7, 75, 42, 84	177.5	7-10
								25	15	TC26								
								.02		Buffer	B14							
64 Home	Vol.	5031A	18	MR48				5429	12	RS213					6	1C6, ‡34, 30, 19	456	6-4
	Tone	5470	22	MR33	M23													
65 (6517, 6546)	Vol.	V6508	18	MR44				EL23	8	UR182	B104				6	‡6D6, 6A7, 6B7, 43, 25Z5	456	9-10
	Tone	V6507	34	MR33	M26													
66 (6616, 6645)	Vol.	5031	18	MR48				5026	4	RS216					5	6A8, 6K7, 6H16, 6F6, 5Z4	456	7-11
	Tone	5030	22	MR48	M26			5518	4	RS216								
67 (6717, 6746)	Vol.	5031	18	MR48				5429	13	RS213		5610	246	C3	5	‡15, 6A7, 75, 19	456	7-12,13
	Tone	5030	22	MR48	M26			5317	15	TC22								
								5612	1	2N518								
								.01		Buffer	B14							
68	Vol.		18	MR48				16-16	6	2N509					5	6A7, 6D6, 75, 43, 25Z5	456	8-25
								5	15	TC22								
69	Vol.		6	E12				6198	27	TCS44					5	6A7, 6D6, 76, 43, 25Z5	456	8-28

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FAIRBANKS-MORSE—Continued																		
70 (7014, 7040, 7042)	Vol.	V6508	18	MR44				EL21	4	RS216					7	[3]6D6, 6A7, 6B7, 42, 80	456	5-7-11
	Tone	V6509	22	MR33	M26			EL8	4	RS213								
								EL18	14	2N518								
71	Vol.	5031	18	MR48				5026	4	RS216					7	[3]6K7, 6A8, 6F5, 6H6, 6F6, 5Z4	456	6-5, 7-14
	Tone	5030	22	MR48	M26			5025	4	RS213								
								5429	13	RS213								
72 (72T3, 72C2, 72C3)	Vol.	5814	80	TM233-SS1				5917	4	RS216					7	[3]6K7G, 6A8G, 6Q7G, 6L6, 6E5, 5Y3	456	8-29,30
	Tone	5815	80	MR48	M26			8	4	RS213								
								8	13	RS213								
73 (73T3B, 73C3B)	Vol.		20	TM233-SS1				5429	13	RS213		5610	246	C3	7	[3]15, 6A7, 75, 76, 19, 6E5	456	8-31
	Tone		21	MR48	M26			5612	1	2N518								
								5317	15	TC22								
								.01-.01		Buffer	B14							
74 Auto	Vol.	V6515	18	UM147			A96	8-8	4	TCS71	B39		294	C3	7	[3]6D6, 6A7, 85, 41, 6A6, 84	177.5	7-10
								8	15	TC32								
								.01		Buffer	B14							
81 (8110, 8114)	Vol.	V6514	18	MR48	M27			4	24	ST595					8	[3]34, 1C6, [3]30, 32	456	6-15,16
	Tone	V6504	22	MR33														
82 (8218, 8247, 8248)	Vol.	5318	18	MR44				5026	1	RS216					8	[3]6D6, 6A7, 85, [3]42, 80	456	7-15-18
	Tone	5319	41	MR29	M26			5317	14	TC22								
90	Vol.	5318	18	MR44				5026	1	RS216					9	[3]6K7, 6A8, 6H6, 6C5, [3]6F6, 5Z4	456	7-16-19
	Tone	5397	41	MR39	M26			8	14	TC62								
91 (91T4, 91C4, 91C5)	Vol.	5807	80	TM233-SS1				5888	4	RS223					9	5Z4, 6F5, 6H6, [3]6K7, 6L6, 6L7, 6J7, 6E5	456	8-33
	Tone	5808	80	MR48	M26			5920	4	RS216								
								5889	13	RS213								
100 (10049, 10050)	Vol.	5318	45	MR44				5415	31	RS213					10	[3]6D6, 6A7, [3]76, 42, [3]2A3, 5Z3	456	7-20,22
	Tone	5397	22	MR39	M26			5025	31	RS213								
								5317	15	TC22								
110	Vol.		18	MR44				5415	3	RS213					11	[3]6K7, 6A8, 6H6, 6C5, 6F6, [3]2A3, [3]5Z4	456	7-21-24
	Tone		22	MR39	M26			5025	3	RS213								
								5317	15	TC22								
120 (12C6)	Vol.		80	TM233-SS1				6035	3	RS216					12	[3]6K7, 6L7, 6J7, 6H6, 6C5, [3]6L6, 6E5	456	8-14-16
	Tone		80	MR48				5888	3	RS223						[3]5W4		
								5823	3	RS213								
								5317	15	TC22								
346	Vol.		17	UM154-SS3	M26			8-8	25	TCS71	B39		297	C3	6	[3]6D6, 6A7, 75, 41, 84	177.5	5-12
	Tone		22	MR33				.02		Buffer	B14							
347	Vol.		18	UM154-SS3	M26			8-8	25	TCS71	B39		297	C3	7	[3]6D6, 6A7, 85, [3]41, 84	177.5	5-12
	Tone		41	MR33				.02		Buffer	B14							
816, 840 (32 Volt)	Vol.	V6511	15	MR48				EL9	1	TC52		14602	Order from Mfr.		8	[3]37, [3]39, 85, 79, 25Z5	177.5	5-13
	Tone	V6512	22	MR33				EL-6	15	TC22		A14614	Order from Mfr.					
								.01		Buffer	B14							
FARNSWORTH																		
AC70, AC71 (C3-1)	Vol.	783-1	124	TM260-SS1	M26			2510-1	23	TC74					8	[3]6SK7, 6J5GT, 6SA7, 6H6, 6SQ7, 6V6G, 5Y3G	455	11-8,10
	Tone	784-1	...‡..	MR55				2511-1	23	TC77								
AC90, AC91 (C4-1)	Vol.	783-1	17	TM260-SS1	M26			2510-1	23	TC74					10	[3]6SK7, 6J5GT, 6SA7, 6H6, 6SQ7, 6SF5, [3]6V6G, 5Y3G	455	11-9,10
	Tone	784-1	...‡..	MR55				2511-1	23	TC77								
ACL55, ACL56 (C2-3)	Vol.	781-1	18	MR48	M26T			251-1	9	Order from	Mfr.				7	[3]6SK7, 6SQ7, 6A8GT, 6H6, 25L6GT, 25Z6GT	455	11-7,10
								252-1	9	TC45								
AK17 (C1-3)	Vol.	782-1	18	Order from	Mfr.			259-1	1	2N514					5	12SA7, 12K7GT, 12SQ7, 50L6GT, 35Z5GT	455	11-2
AK76 (C3-2)	Vol.	783-1	124	TM260-SS1	M26			2510-1	23	TC74					8	[3]6SK7, 6J5GT, 6SA7, 6H6, 6SQ7, 6V6G, 5Y3G	455	11-8,10
	Tone	784-1	...‡..	MR55				2511-1	23	TC77								
AK95, AK96 (C4-2)	Vol.	783-1	17	TM260-SS1	M26			2510-1	23	TC74					10	[3]6SK7, 6J5GT, 6SA7, 6H6, 6SQ7, 6SF5, [3]6V6G, 5Y3G	455	11-8-10
	Tone	784-1	...‡..	MR55				2511-1	23	TC77								
AKL58, AKL59 (C2-4)	Vol.	781-1	18	MR48	M26T			251-1	9	Order from	Mfr.				7	[3]6SK7, 6SQ7, 6A8GT, 6H6, 25L6GT, 25Z6GT	455	11-10
								252-1	9	TC45								
AT10, AT11, AT12 (C1-1)	Vol.	782-1	18	Order from	Mfr.			259-1	24	2N514					5	12SA7, 12K7GT, 12SQ7, 50L6GT, 35Z5GT	455	11-1
AT14, AT15, AT16 (C1-5)	Vol.	782-1	18	Order from	Mfr.			259-1	24	2N514					5	12SA7, 12K7GT, 12SQ7, 50L6GT, 35Z5GT	455	11-1
AT20, AT21, AT22, AT23 (C5-1)	Vol.	785-1	18	MK401	M26			2515-1	4	TC47					6	12SA7, 12SK7, [3]12SQ7, 35L6GT, 35Z5GT	455	11-3

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FARNSWORTH—Continued																		
AT30 (C6-1)	Vol.	788-1	18	UM154-SS18	M27			2518-1	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	11-4
AT31 (C7-1)	Vol.	786-1	18	UM154-SS22				2516-1	1	2N511					5	1A7G, 1N5G, 1H5G, 1A5G, 35Z4GT	455	11-5
								2517-1	‡	TC26								
AT40 (C8-1)	Vol.	787-1	18	MK401	M27			2518-1	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	11-6
ATL10, ATL11, ATL12 (C1-2)	Vol.	782-1	18	Order from	Mfr.			259-1	24	2N514					5	12SA7, 12K7GT, 12SQ7, 50L6GT, 35Z5GT	455	11-1
ATL14, ATL15, ATL16 (C1-6)	Vol.	782-1	18	Order from	Mfr.			259-1	24	2N514					5	12SA7, 12K7GT, 12SQ7, 50L6GT, 35Z5GT	455	11-1
ATL50, ATL52 (C2-1)	Vol.	781-1	18	MR48	M26T			251-1	9	Order from	Mfr.				7	[2]6SK7, 6SQ7, 6A8GT, 6H6, 25L6GT, 25Z6GT	455	11-7,10
								252-1	9	TC45								
ATL51 (C2-2)	Vol.	781-1	18	MR48	M26T			251-1	9	Order from	Mfr.				7	[2]6SK7, 6SQ7, 6A8GT, 6H6, 25L6GT, 25Z6GT	455	11-7,10
								252-1	9	TC45								
BC45	Vol.	77-28	18	‡			A3	2517-1	15	TC26					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	12-4
BC72	Vol.	783-1	140	TM260-SS1	M26			2510-1	23	TC74					8	[2]6SK7, 6SA7, [2]6J5GT, 6SQ7, 6V6G, 5Y3G	455	14-1
	Tone	784-1	140	MR55				2511-1	23	TC77								
BC80, BC81	Vol.	783-1	140	TM260-SS1	M26			2510-1	23	TC74					8	[2]6SK7, 6SA7, [2]6J5GT, 6SQ7, 6V6G, 5Y3G	455	14-1
	Tone	784-1	140	MR55				2511-1	23	TC77								
BC82, BC83	Vol.	78-12	140	TM260-SS1				25-33	23	TC74					8	[2]6SK7, 6SA7, 6J5GT, [2]6SQ7, 6K6GT, 6X5GT	455	13-19,20
	Tone	78-11	140	Order from	Mfr.			25-32	23	TC77								
BC103, BC105	Vol.	78-12	124	TM260-SS1				2511-1	23	TC77					10	[2]6SK7, 6SA7, 6J5GT, [2]6SQ7, [2]6V6G, 5Y3G	455	12-5,6
	Bass	78-11	‡	Order from	Mfr.													
	Treble	78-10	22	Order from	Mfr.													
BC601, BC601X	Vol.	781-1	18	MR48	M26T			25-36	23	TC65					6	6SA7, 6J5GT, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	12-11,12
								25-37	23	TC65								
BC1020 (Ch. C54), BC1020X (Ch. C70)	Vol.	78-160	124	‡			A3	25-41	23	ST598					10	[2]6SK7, 6SA7, 6J5GT, [2]6SQ7, [2]6V6GT, 5W4GT	455	
	Bass	78-11	‡	Order from	Mfr.			25-43	23	TC74								
	Treble	78-10	22	Order from	Mfr.													
BC1041 (Ch. C76)	Vol.	78-12	124	TM260-SS1				2511-1	4	TC77					10	[2]6SK7, 6SA7, 6J5GT, 6SJ7, 6H6, 6SQ7, 6V6G, 5Y3G	4.3 mc. 455 kc.	
	Tone	78-11	‡	Order from	Mfr.													
	Phono.	78-10	22	Order from	Mfr.													
BK73	Vol.	781-1	18	MR48	M26T			25-33	23	TC74					7	[2]6SK7, 6SA7, 6J5GT, 6SQ7, 6K6GT, 6X5GT	455	13-17,18
								25-32	23	TC77								
BK77, BK78	Vol.	781-1	18	MR48	M26T			25-33	23	TC74					7	[2]6SK7, 6SA7, 6J5GT, 6SQ7, 6K6GT, 6X5GT	455	13-17,18
								25-32	23	TC77								
BK85	Vol.	781-1	124	MR48	M26T			25-33	23	TC74					8	[2]6SK7, 6SA7, 6J5GT, [2]6SQ7, 6K6GT, 6X5GT	455	13-18,22
								25-32	23	TC77								
BK86	Vol.	783-1	140	TM260-SS1	M26			2510-1	23	TC74					8	[2]6SK7, 6SA7, [2]6J5GT, 6SQ7, 6V6G, 5Y3G	455	14-1
	Tone	784-1	140	MR55				2511-1	23	TC77								
BK87, BK88, BK89	Vol.	781-1	124	MR48	M26T			25-33	23	TC74					8	[2]6SK7, 6SA7, 6J5GT, [2]6SQ7, 6K6GT, 6X5GT	455	13-18,22
								25-32	23	TC77								
BK106, BK107, BK108	Vol.	78-12	124	TM260-SS1				2511-1	23	TC77					10	[2]6SK7, 6SA7, 6J5GT, [2]6SQ7, [2]6V6G, 5Y3G	455	12-5,6
	Bass	78-11	‡	Order from	Mfr.													
	Treble	78-10	22	Order from	Mfr.													
BK110, BK111, BK112	Vol.	78-15	17	MR57	M26			25-45	16	RS223					11	[2]6SK7, 6SA7, 6Q7, [2]5Y3G, [2]6SC7, [2]6V6G, 6J5GT	455	12-7-9
	Bass	78-23	‡	Order from	Mfr.			25-47	16	RS223								
	Treble	78-24	‡	Order from	Mfr.			25-50	14/15	FP332	B117							
								25-42	13/15	FP234	B117							
								25-38	15	TC29								
BK602, BK602X	Vol.	781-1	18	MR48	M26T			25-36	23	TC65					6	6SA7, 6J5GT, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	12-11,12
								25-37	23	TC65								
BK1061 (Ch. C77)	Vol.	78-12	124	TM260-SS1				2511-1	4	TC77					10	[2]6SK7, 6SA7, 6J5GT, 6SJ7, 6H6, 6SQ7, 6V6G, 5Y3G	455 kc. 4.3 mc.	
	Bass	78-11	‡	Order from	Mfr.													
	Treble	78-10	22	Order from	Mfr.													
BK1071 (Ch. C77)	Vol.	78-12	124	TM260-SS1				2511-1	4	TC77					10	[2]6SK7, 6SA7, 6J5GT, 6SJ7, 6H6, 6SQ7, 6V6G, 5Y3G	455 kc. 4.3 mc.	
	Bass	78-11	‡	Order from	Mfr.													
	Treble	78-10	22	Order from	Mfr.													
BK6025, BK6025X	Vol.	781-1	18	MR48	M26T			25-36	23	TC65					6	6SA7, 6J5GT, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	12-11,12
								25-37	23	TC65								
BK10305 (Ch. C63)	Vol.	78-160	124	‡			A3	25-41	23	ST598					10	[2]6SK7, 6SA7, 6J5GT, [2]6SQ7, [2]6V6GT, 5W4GT	455	
	Bass	78-11	‡	Order from	Mfr.			25-43	23	TC74								
	Treble	78-10	22	Order from	Mfr.													

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FARNSWORTH—Continued																		
BKR84	Vol.		18	UM154	M26		A96	15, 15, 15	23/13	ST597					8	6SK7, 6SA7, 6J5GT, 6SQ7, 6K6GT, 6X5GT	455	13-18,21
BT20, BT22	Vol.	78-9	18	MR48	M26			25-22	1	2N514					6	12SA7,12SK7,12SQ7, 35L6GT, 12J5GT, 35Z5GT	455	12-1,2
BT41	Vol.	77-28	18	‡			A5	2517-1	15	TC26					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	12-4
BT52, BT53, BT54, BT55, BT56	Vol.		18	UM154	M26		A96	30-20	1	2N514					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-3,2
BT57	Vol.	78-29	18	‡			A3	4	12	TC40					5	1A7GT, 1P5GT, 1N5GT, 1H5GT, 1Q5GT	455	12-10
BT58	Vol.	78-27	18	UM161			A96	25-61	46/78	2N513/2N511					5	1A7G, 1N5G, 1H5G, 3Q5GT, 117Z6GT	455	13-5
BT61, BT63, BT66	Vol.	78-9	18	MR48	M26			25-22	1	2N514					6	12SA7,12SK7,12SQ7, 35L6GT, 12J5GT, 35Z5GT	455	12-1,2
BT70, BT71	Vol.	781-1	18	MR48	M26T			25-29 25-30	4 4	TC65 TC55					7	6SK7, 6SA7, 6J5GT, 6SQ7, 6K6GT, 6X5GT	455	13-17,18
BT600, BT600X	Vol.	781-1	18	MR48	M26T			25-36 25-37	23 23	TC65 TC65					6	6SA7, 6J5GT, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	12-11,12
BT1010 (Ch. C-54), BT1010X (Ch. C70)	Vol. Tone Phono.	78-160 78-11 78-10	124 ‡ 22	‡ Order from Order from	 Mfr. Mfr.		A3	25-41 25-43	23 23	ST598 TC74					10	6K7, 6SA7, 6J5GT, 6SQ7, 6V6GT, 5W4GT	455	
CC70 (Ch. C118-1)	Vol. Tone	70-60 90-120	106 106	MK401 MK403	M26			25-33 25-29	4 4	TC74 TC65					7	6SK7, 6SA7, 6J5GT, 6SQ7, 6K6GT, 6X5GT	455	13-9,10
CC90 (Ch. C128-1)	Vol. Bass Treble	78-57 78-58 78-59	140 140 22	 MK402	 	See No	te A19	2510-1 2511-1	23 23	TC74 TC77					9	6SK7, 6SA7, 6J5, 6SQ7, 6V6GT, 5Y3G	455	13-11
CK58 (Ch. C108-2)	Vol.	78-48	18	MK401	M26		A106	25-22	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-3,4
CK66 (Ch. C106-2)	Vol. Tone	78-48 78-56	18 21	MK401 MK403	M26		A106	25-22	1	2N513					6	6SS7, 12SA7, 12SQ7, 50L6GT, 35Z5GT	455	13-7,8
CK73, CK74 (Ch. C118-2) CK75 (Ch. C118-3)	Vol. Tone	78-60 90-120	106 106	MK401 MK403	M26			25-33 25-29	23 23	TC74 TC65					7	6SK7, 6SA7, 6J5GT, 6SQ7, 6K6GT, 6X5GT	455	13-9,10
CK91 (C128-2), CK92 (C128-3), CK93 (C128-4)	Vol. Bass Treble	78-57 78-58 78-59	140 140 22	 MK403 MK402	 	See No	te A19	2510-1 2511-1	12 13	TC74 TC77					9	6SK7, 6SA7, 6J5, 6SQ7, 6V6GT, 5Y3G	455	13-11
CK111 (Ch. C116-1)	Vol. Bass Treble	78-12 78-11 78-10	140 140 22	TM260-SS1 Order from Order from	 Mfr. Mfr.			2511	23	TC77					11	6SK7, 6SA7, 6J5, 6SQ7, 6V6GT, 5Y3G	455	13-13,14
CT41	Vol.	78-51	18	MR53	M27			25-59	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	13-1
CT43	Vol.	78-51	18	MR53	M27			25-163 25-162	24/78 78	FP309 TC2501					5	1A7G, 1N5G, 1H5G, 3Q5GT, 117Z6	455	13-2
CT50, CT51 (Ch. C108-1)	Vol.	78-48	18	MK401	M26		A106	25-22	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-3,4
CT52, CT53 (Ch. C109-1)	Vol.	78-48	18	MK401	M26		A106	25-22	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-3,4
CT54 (Ch. C108-2)	Vol.	78-48	18	MK401	M26		A106	25-22	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-3,4
CT59	Vol.	78-46	18	‡			A5	25-131	24/78	FP309					5	1R5, 1T4, 1S5, 3S4, 35Z5	455	
CT60	Vol.	78-47	18	‡			A5	25-132	1/78	FP309					6	1N5, 1A7, 1H5, 3Q5, 117Z6	455	
CT61, CT62 (Ch. C106-1)	Vol.	78-48	18	MK401	M26		A106	25-22	1	2N513					6	6SS7, 12SA7, 12SQ7, 50L6GT, 35Z5GT	455	13-7,8
CT63 (C110-1), CT64 (C110-2)	Vol.	78-48	18	MK401	M26		A106	25-22	1	2N513					6	6SS7, 12SA7, 12SQ7, 50L6GT, 35Z5GT	455	13-7,8
DK73, DK75 (Ch. C140-1, C140-2)	Vol.	78-60	18	MK401	M26			25-33 25-29	23 23	TC74 TC65					7	6SK7, 6SA7, 6J5GT, 6SQ7, 6K6GT, 6X5GT	455	14-2,3

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FEDERATED PURCHASER		—"Acratone"																
Cathedral Tone	Vol.		12	MR48	M26			8-8	4	See Note	B3				5	[3]24, 45, 80		3-2
2	Vol.	8453	6	G7	6			2-2	1	See Note	B1				5	[3]24, 47, 80		2-1
5	Vol.	8753	6	MR21	M26			5-5	4	See Note	B3				6	[3]24, 51, 27, 47, 80	175	2-2
								5	4	See Note	B3							
6A	Vol.		15	MR51				12-8	4	See Note	B3				10	[3]58, [3]56, [3]59, 5Z3	175	5-2
	Tone		21	MR39				5-5	15	TN111								
	Supp.		12	MR24														
7A	Vol.		17	MR51				8-4	4	2S567					6	[3]58, 56, 2A6, 47, 80	465	5-1
	Tone		22	MR39				5	15	TC22								
8A	Vol.		7	MR28	M26			16-8-4	11	UR182	B31				5	6A7, 78, 77, 43, 25Z5	465	5-1
8B, 9B	Vol.		45	MR48				4	32	RS213					7	6A8, 6K7, 6H6, 6A6,		
	Tone		44	‡		See Note	A5	8-4	32	2N518						[2]6F6, 80	456	7-1
Royal 9A	Vol.		7	MR28	M26	EX500		4-4	1	See Note	B3				4	77, 78, 43, 25Z5		6-3
								5	15	TC22								
10	Vol.		59	MR20				8-8	4	See Note	B3				6	[3]35, 27, 47, 80		
11B	Vol.		45	MR48				4	32	RS213					7	6A8, 6K7, 6H6, 6A6,		
	Tone		44	‡		See Note	A5	8-4	32	2N518						[2]6F6, 80	456	7-1
12A	Vol.		15	MR51				12-8	4	See Note	B3				10	[3]58, [3]56, [3]59, 5Z3	175	5-2
	Tone		21	MR39				5-5	15	TN111								
	Supp.		12	MR24														
13A	Vol.		17	MR51				8-4	4	See Note	B3				6	[3]58, 56, 2A6, 47, 80	465	5-1
	Tone		22	MR39				5	15	TC22								
14A	Vol.		56	‡		See Note	A5	4-4-4	7	See Note	B3				8	[3]58, [3]56, 55, 53, 80	175	5-2
	Tone		22	‡		See Note	A5											
17	Vol.		15	MR48				4-4	4	2S567					6	57, 58, 56, 55, 47, 80	175	§4-3
	Tone		21	MR44														
24A	Vol.		17	MR51				8-4	4	2S567					6	[3]58, 56, 2A6, 47, 80	465	5-1
	Tone		22	MR39				5	15	TC22								
26A	Vol.		6	MR33				5-16-8	11	UR182	B31				4	77, 78, 43, 25Z5		
29C, 30C, 31C	Vol.	P660	18	MR48	M26			4	32	RS213					8	6L7, 6C5, 6K7, [2]6Q7,		
	Tone	P661	44	MR39				8-4	32	2N518						[2]6F6, 5Z4	456	7-3,4
31-40	Vol.		8	G				1948	3	RS213					8	[3]51, [3]27, [3]47, 80	175	3-1
	Tone		41	MR55	M26			1976	3	ST595								
32A	Vol.		15	MRT420	M26			50-8-8-10	64	2-UR182	B226				12	[3]6D6, [3]37, 85, [3]43, [3]25Z5	175	5-3
	Tone		44	MR33														
	Supp.		7	MR28														
32C, 33C (L7)	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, [3]34, [3]30, 19	456	7-5
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
35AC	Vol.	1968	8	G				1948	3	RS213					8	[3]51, [3]27, [3]47, 80	175	
	Tone	1953	41	MR55	M26			1976	3	ST595								
36A	Vol.		15	MRT420	M26			50-8-8-10	64	2-UR182	B226				12	[3]6D6, [3]37, 85, [3]43, [3]25Z5	175	5-3
	Tone		44	MR33														
	Supp.		7	MR28														
38A	Vol.		6	MR33				8-4	1	2S567					5	[3]58, 57, 47, 80	456	5-5
	Tone		22	MR33														
39A	Vol.		15	MR48				8	1	RS213					8	[3]57, [3]56, [3]58, 2A5, 80	485	5-6,7
	Tone		22	MR18	M26			10	15	TC22								
40AC	Vol.	1968	8	G				1948	3	RS213					8	[3]51, [3]27, [3]47, 80	175	3-2
	Tone	1953	41	MR55	M26			1976	3	ST595								
40 Auto	Vol.		17	UM154		See Note	A96	8-8	1	See Note	B3		294	C3	6	[3]6D6, 6A7, 75, 41, 84	175	6-4
								5-5	15	TN111								
								.025-.025		Buffer	B14							
43A, 44	Vol.		15	MR48				8	1	RS213					8	[3]57, [3]58, [3]56, 2A5, 80	485	5-6
	Tone		22	MR18	M26			10	15	TC22								
49	Vol.		18	MR48				6-12	1	3S584	B8		292	C3	5	6A7, 6D6, 6B7, 41, 84	456	8-1
								10	15	TC22								
								.02-.02		Buffer	B14							
52A	Vol.		6	MR28	M26	EX750		10-10	1	2N509					5	77, 78, 43, [3]12Z3		5-8
								5-5	15	TN111								
53, 54, 58, 59	Vol.		6	MR18	M26			10-12	1	2N509					4	6D6, 6C6, 43, 12Z3		5-8
								4-4	15	TN111								
65, 66	Vol.		6	MR24	M26			12-12	1	2N509					5	[3]6D6, 6C6, 43, 12Z3	455	6-1
								4-4	15	TN111								
67	Vol.		17	MR48				8-4	25	2S567					5	6A7, 78, 75, 42, 80		
								25	19	TC26	B6							
79, 80	Vol.		62	MR48	M26			8, 8	1	ST595					12	[3]58, [3]56, [3]57, [3]46, 80	175	5-9,6-2
	Tone		39	MR48				5	12	TC71								
	QAVC		7	F				5	15	TC22								
86, 87	Vol.		15	MR48				8	1	RS213					8	[3]58, [3]57, [3]56, 2A5, 80	485	5-6
	Tone		22	MR18	M26			10	15	TC22								
88	Vol.		6	D7		2		8-4	1	2N518					5	2A7, 57, 58, 2A5, 80	455	6-3
	Tone		22	MR33				5	15	TC22								
SW88	Vol.		15	MR48				8, 8	1	RS213					8	[3]56, [3]57, [3]58, 2A5, 80	485	
	Tone		22	MR18	M26			10	15	TC22								
92	Vol.		17	MR48	M26			6-8	4	2S567			292	C3	6	[3]6D6, 6B7, 41, 84	175	5-11
	Tone		22	MR21				10	15	TC22								
								.02		Buffer	B14							
92A-94A (Above 500,001)	Vol.		17	UM154-SS3	M26			8-6	4	2S567			292	C3	6	[3]6D6, 6B7, 41, 84 or		
	Tone		22	MR21				.02		Buffer	B14					6Z4	175	
93, 94, 96, 97	Vol.		18	MR48				8-8	1	2N518					7	[3]6D6, 6A7, 76, 75, 41,		
	Tone		22	MR18	M26			10-10	15	TN111						80	370	5-12

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FEDERATED PURCHASER—Continued																		
100	Vol.		6	MR18	M26	EX300		4-4	1	2N518					4	‡24, 47, 80		6-1
104	Vol.		7	‡		See Note	A5	‡	4	See Note	B3				6	2A7, 58, 57, 56, 2A5, 80		
	Tone		57	‡		See Note	A5											
107 Midget	Vol.		6	MR18	M26			2-2	1	See Note	B1				5	‡24A, 45, 80		
117	Vol.	9666	17	MR44	M26			9659	1	TCS71					6	2A7, ‡58, 2A6, 2A5, 80	465	6-7
	Tone	9174	22	MR33				1110	13	TC70								
								8876	15	TC22								
SA120-SA123	Vol.		64	MR48				8, 8	1	ST595					12	‡56, ‡57, ‡58, ‡46, 80	175	
	Tone		39	MR48				5	15	TC22								
	Sil.		59	F				5	17	TC22								
120 Amplifier	Vol.		16	MR44				6-6	2	See Note	B3				5	‡56, ‡45, 80		
121	Vol.		6	SRP263	6	EX300		8-8	4	2-TC42					5	6A7, 6D6, 6C6, 43, 25Z5	456	6-8
								16	13	TC45								
								4	12	TC42	B10							
125 Amplifier	Vol.		16	LL				‡	3	See Note	B2				8	‡57, ‡56, ‡50, ‡81		
126	Vol.		16	LL				4-4	1	See Note	B2				8	‡57, ‡56, ‡50, ‡81		
215	Vol.		6	SRP263	6	EX400		16-16	4	TCS44					5	6D6, 76, 6C6, 43, 25Z5		6-8
228, 229	Vol.		62	MR48											6	1C6, 34, ‡30, 32, 19	456	6-4
	Tone		22	MR33														
248	Vol.	608	17	MR48											6	‡6D6, 6A7, 85, ‡48	175	7-2
	Tone	609	149	MR33														
424 Climax	Vol.		6	MR18	M26	EX300		4-4	1	See Note	B3				4	‡24A, 47, 80		
460	Vol.		17	UM154-SS3	M26			8-6	4	2S567			292	C3	6	‡6D6, 6B7, 41, 84 or 6Z4	175	
	Tone		22	MR21				.02		Buffer	B14							
470-474 (600, 001 and up)	Vol.		18	MR48				8-8	1	2N518					7	‡6D6, 6A7, 75, 41, 80, 76	370	
	Tone		22	MR18	M26			10-10	15	TN111								
708	Vol.		23	LL				4-4-8	3	See Note	B3				7	‡57, ‡56, ‡2A3, 83		
728								8-8	24	See Note	B3				3	57, 2B6, 80		
								5-5	15	TN111								
734	Vol.		23	LL				8	12	2N509	B11				8	‡77, ‡37, ‡48		
745 Amplifier	Vol.		16	LL				8	12	TC71					6	‡77, ‡37, ‡46		
749	Vol.		18	MR48											4	‡78, 6A7, 85	175	
1000	Vol.		6	MR33				5-16-8	11	UR182					4	77, 78, 43, 25Z5		
1200	Vol.		15	MRT420	6			50-8-8-10	64	2-UR182	B226				12	‡6D6, ‡37, 85, ‡43, ‡25Z5	175	
	Tone		44	MR33														
	Supp.		7	MR28														
1940	Fader		82	MRT460				8, 8	1	RS213					10	‡6K7, 6A8, 6H6, 6E5, 6C6, 79, ‡6B5, 5Z3	456	8-2
	Vol.		15	MR53														
FIRESTONE																		
54	Vol.		18	UM154		See Note	A96	6-10	4	See Note	B3		294	C3	5	6A7, 6D6, 75, 42, 84	456	
								.02		Buffer	B14							
64	Vol.		18	UM154		See Note	A96	6-10	4	See Note	B3		294	C3	6	‡6D6, 6A7, 75, 42, 84	456	
								.02		Buffer	B14							
R1322	Vol.	85215	56	UM147-SS3	M26			83803	15	TC22		85243	289Y	C3	7	77, ‡78, 85, ‡41, 76	177.5	
	Tone	85179	44	MR36				.005		Buffer	B14							
R1332	Vol.	83728	17	UM154-SS3	M26			83803	15	TC22		84995	294	C3	5	6A7, 6D6, 75, 41, 84	456	
								.03-.03		Buffer	B14							
R1651AS, R1651WS, (R165)	Vol.	88036	6	MR24	M26			88033	25	RS213					5	‡6D6, 6C6, 41, 84	456	7-1,2
								88007	25	RS213								
R1661 (R166 chassis)	Vol.	88487	18	MRT420	M26			88512	1	RS216					7	6A8, 6K7, 6H6, 6G5, 6F5, 6F6, 5Z4	456	7-3,4
	Tone	88488	57	MR48				88511	1	RS216								
R3051 (R305)	Vol.	110503	18	MR53	M26			89755	13	ST595					5	6A8G, 6U7G, 6Q7G, 6K6G, 5W4G	465	9-1,2
	Tone	110504	21	MR48				110497	4	2S567								
3061 to 3069 (R306)	Vol.	112175	18	MR53	M26			110377	19	TC22					6	6L7G, 6U7G, 6Q7G, 6K6G, 6C5G, 5W4G	465	9-3
	Tone	112174	21	MR48				89937	25	RS224								
								112315	25	ST597								
								110768	25	ST595								
								112710	25	ST597								
								110377	19	TC22								
								111689	19	TC26								
3071 to 3079 (R307)	Vol.	112285	18	MR53	M26			89937	25	RS224					7	6L7G, 6U7G, 6Q7G, 6C5G, 6K6G, 6U5, 5W4G	465	9-5
	Tone	112286	57	MR48				111352	25	ST595								
								112284	25	ST595								
								110377	19	TC22								
								112113	19	TC32								
3085 (R308)	Vol.	112441	20	MRT440				89937	25	RS224					11	‡6K7, 6L7, 6C5, 6J7, 6U5, 6H6, 6F5, 6L6, 5U4G	465	9-7-10
								111469	25	ST597								
								110377	15	TC22								
								111298	13	TC52								
S7350-1	Vol.	78-42	18	UM154	M26		A96	25-99	24/15	FP339		76-1	859	C3	8	‡6SK7, 6SA7, 6SQ7, 6J5GT, ‡6F6, 0Z4	455	13-1-4
	Sen.	78-31	7	Order from	Mfr.			.007		Buffer	B14							
S7350-2	Vol.	78-42	18	UM154	M26		A96	25-99	24/15	FP339		76-1	859	C3	6	‡6SK7, 6SA7, 6SQ7, 6V6GT, 0Z4	455	13-4-6
	Sen.	78-31	7	Order from	Mfr.			.007		Buffer	B14							
S7393-1	Vol.	501027	18	MK401	M26			501060	1/19	TCD75/TC26					7	6SJ7, ‡6J5GT, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	14-1,2
S7396-2	Vol.	161325	18	MK401	M27			110377	19	TC22					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	455	13-7

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FIRESTONE—Continued																		
S7397-1	Vol.	13103	149	Order from	Mfr.			12935	24	2N511					5	1R5, 1T4, 1S5, 3S4, 117Z6GT	455	13-8,9
								13105	78	TC2501								
S7397-2 (A-377)	Vol.	501353	149	MK402				501213	1	2N514					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6GT	455	13-11,12
								161273	78	TC39								
S7397-2 (443)	Vol.	12525	18	Order from	Mfr.			12055	24	2N521					6	1P5GT, 1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6GT	455	13-9,10
								13242	78	2N511								
S7397-5	Vol.	N-4629	18	MK401	M26			N-3658	1	FP214					6	[2]12SK7, 12SA7, 12SF7, 35L6GT, 35Z5GT	456	13-13
S7397-9	Vol.	501488	18	MK402	M26			501321	1/19	FP371					7	6SJ7, [3]6J5GT, 6SK7, 6SQ7, 6F6G, 5Y3G	455	14-3,4
S7398-1	Vol.	N-3785	18	MK401	M26			N-3658	24	FP214					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	456	13-14
S7398-2	Vol.	N-4071	18	MK401	M26			N-4034	46	TN129					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	456	14-5,6
	Tone	N-4033	34	UM124-SS25														
S7398-3 (A-368)	Vol.	500315	124	TM243-SS25	M26			500256	1	FP354	B69				6	12AH7GT, [2]12SK7, 12SQ7, 35L6GT, 35Z5GT	455	13-15,16
								500744	1	FP357	B69							
S7398-5, S7398-6	Vol.	119779	18	MK401	M26			500201	1/19	FP371					5	6SJ7, 6SK7, 6SQ7, 6F6G, 5Y3G	455	14-7,8
S7398-7	Vol.	N-4071	18	MK401	M26			N-4034	46	TN129					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	456	13-17
	Tone	N-4033	34	UM124-SS25														
S7398-8	Vol.	500439	18	MK402	M26			500201	1/19	FP371					7	6SJ7, 6SK7, [3]6J5GT, 6SQ7, 6F6G, 5Y3G	455	13-18-20
S7399-1	Vol.	119779	18	MK401	M26			500201	1/19	FP371					6	6SJ7, 6J5GT, 6SK7, 6SQ7, 6F6G, 5Y3G	455	13-20-22
S7399-2	Vol.	500877	18	MR48	M26			500807	1	FP234					10	[3]6SK7, 6SJ7, [3]6J5GT, 6SQ7, [3]6F6G, 5Y3G	455	13-3, 23,24
S7400-1	Vol.	118669	18	TM243-SS25	M26			160174	1/19	FP339					7	6SA7, [3]6J5GT, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	14-2,9
S7400-2	Vol.	119602	18	MK402	M26			160008	1	Order from	Mfr.				9	[3]6SK7, 6SJ7, 6J5GT, [3]6SQ7, [3]6F6G, 5Y3G	455	13-25,26
	Tone	500929	‡	Order from	Mfr.													
S7400-3	Vol.	78-17	124			See Note A19		2511-1	4	TC77					11	[3]6SK7, 6SA7, [3]6J5, [3]6SQ7, [3]6V6GT 5Y3G	455	13-27-29
	Bass	78-53	‡	Order from	Mfr.													
	Treble	78-54	22	MK402														
S7400-4, S7400-5	Vol.	78-17	124			See Note A19		25-156	28	[2]TC77					13	[3]6SK7, 6SA7, 6J5, [4]6SQ7, [4]6V6GT, 5U4G	455	13-30-32
	Bass	78-53	‡	Order from	Mfr.			2511-1	28	TC77								
	Treble	78-54	22	MK402				25-158	15	TC26								
S7400-6	Vol.	501027	18	MK401	M26			160174	1/19	FP339					7	6SJ7, [3]6J5GT, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	13-20, 33,34
S7401-1	Vol.	N-3307	18	MK401	M26			N-3566	24	TCD48					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	13-35,36
S7401-6	Vol.	160576	50	MK400	M26			116470	24	2N509					2	35L6GT, 35Z5GT		13-37
S7401-7 (Phono. Oscillator)	Vol.	160576	50	MK400	M26			116470	24	2N509					2	35L6GT, 35Z5GT, 160540		12-1
S7402-1	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-1
S7402-2	Vol.	N1955	18	MK401	M26			N1366	24	2N514					5	12A8G, 12K7G, 12Q7GT, 35L6GT, 35Z5GT	456	11-1
S7402-3	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-3
	Vol.	N1955	18	MK401	M26			N2599	24	2N514	B20							
S7402-5 (Commentator)	Vol.	N-3877	18	MK401	M26			N-3302	24	TCD48					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	13-38
S7402-7	Vol.	N-4014	18	MK401	M26			N-4015	24	TCD48					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	13-39
S7403-2	Vol.	N-3785	18	MK401	M26			N-3658	24	FP214					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	456	14-10
S7403-3	Vol.		18	UM154	M26		A96	8-8	4	2S567					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y4G	455	11-2
S7403-4	Vol.	N2886	18	MK401	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-3
S7403-5	Vol.	N3045	18	UM154-SS22	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-2
S7403-6	Vol.	N3065	18	UM154-SS22	M26			N3114	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-3
S7403-7	Vol.		18	UM161	M26		A96	40-20	4	Order from	Mfr.				6	12SA7,12SK7,12SQ7, 12J5GT, 25L6G, 5W4	455	12-4

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FIRESTONE—Continued																		
S7403-8	Vol.	119602	18	UM161-SS25	M26			117034	4	2S569					6	6SA7, 6SK7, 6SQ7, 6F6G, 5W4G, 6J5GT	455	11-5,6
								110377	15	TC22								
S7403-9	Vol.	119779	45	UM154	M26		A96	117034	23	2S569					8	[2]6SK7, 6SA7, [2]6J5GT, 6SQ7, 6F6G, 5W4G	455	12-5,6
								110377	19	TC22								
S7404-1	Vol.	117212	127	TM243-SS25	M26			114258	23	TC71					6	6SA7, 6SK7, 6H6,		
								116262	23	TC74						6SQ7, 6F6G, 5W4G	455	11-7,8
S7404-2 (Serial No. with Prefix "A")	Vol.	118669	124	TM243-SS25	M26			114972	25	TC74					8	6SA7, 6SK7, 6H6, 6SF5, 6J5GT, 6U5, 6V6GT, 5W4G	455	11-9,10
S7404-2 (Serial No. with Prefix "C")	Vol.	41021	45	UM154	M26		A96	40666	1/15	TCS64/TC26					8	6SA7, 6SK7, 6H6, 6SJ7, 6SF5, 6V6G, 6U5, 5W4G	455	11-4,11
S7404-3	Vol.	117685	18	TM243-SS25	M26			113261	25	RS223					10	[2]6SK7, 6SA7, [2]6J5GT, 6SQ7, 6U5, [2]6F6G, 5Y3G	455	12-7-10
								114972	25	TC74								
S7404-4	Vol.	41437	127	MRT454	M26			16-16-10	1/15	TCS64/TC26					8	6SA7, 6SK7, 6SJ7, 6H6, 6SF5, 6V6G, 5W4G, 6U5	455	11-12
S7404-5	Vol.		18	UM161	M26		A96	40-20	4	See Note	B3				6	12SA7, 12SK7, 12SQ7, 12J5GT, 25L6G, 5W4G	455	12-11,12
S7404-6	Vol.		124	‡			A19	30-15	1	See Note	B3				9	[2]6SK7, 6SA7, 6SQ7, [2]6J5GT, [2]6F6G, 5Y3G	455	12-12,13
S7404-7	Vol.		124	‡			A19	16	23	TC74					11	[2]6SK7, 6SA7, [2]6J5GT, [2]6SQ7, [2]6V6G/GT, 5Y3G	455	12-6, 15,16
								113261	23	RS223								
7405-1	Vol.	4108A	6	MR21	M26			4806-A	23	TCS44					4	6D6, 6C6, 43, 25Z5		8-1
S7405-5	Vol.	119551	18	UM161			A96	112898	12	TC45					5	1A7G, [2]1N5G, 1H5G, 1A5G	455	11-13,14
	Tone	119552	22	UM140	M27		A96											
S7405-6	Vol.	500356	18	MK402	M27			112898	12	TC44					5	1A7GT, [2]1N5GT, 1H5GT, 1A5GT	455	13-40,41
	Tone	500357	22	UM142-SS25														
S7405-8	Vol.	161325	18	MK401	M27			110377	19	TC22					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	455	13-7
S7405-8 (445)	Vol.		18	UM154	M27		A96	10	19	TC22					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	455	13-42,43
S7405-9	Vol.	12297	55	MK401	M27			1693	19	TC22					5	1A7GT, [2]1N5GT, 1H5GT, 1A5GT	455	13-43, 44,45
7406-1	Vol.		18	MR48				8-8	1	2N516			245	C3	5	1C6, 1A4, 75, 30, 19	456	8-2
								.005		Buffer	B14							
S7406-5	Vol.	N3065	18	UM154-SS22	M26			N3114	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-22
S7406-6	Vol.		18	UM161	M26		A96	30-15	1	See Note	B3				8	[2]6SK7, 6SA7, 6SQ7, 6J5GT, [2]6F6G, 5Y3G	455	12-12,14
S7406-7	Vol.		124	‡			A19	25, 25	23	See Note	B3				11	[2]6SK7, 6SA7, 6J5GT, [4]6SQ7, [2]6V6G, 5Y3G	455	12-6, 17,18
7407-1	Vol.		18	MR48				8-8	1	2N516			245	C3	7	1C6, [3]34, [3]30, 19	456	8-2
								.005		Buffer	B14							
7407-3	Vol.		17	‡		See Note	A19	8-8-2	24/13	3S584	B3	R16034	852	C3	6	[2]6K7, 6A8, 6Q7, 6V6, 6X5	250	10-1
	Tone		21	UM147		See Note	A96	10	15	TC22								
S7407-5 (Early)	Vol.	20703	20	Order from	Mfr.			8-8-2	24/13	3S584	B3	20543	870	C3	6	[2]6U7G, 6A8G, 6Q7G, 6V6G, 6X5	455	10-2
								10	15	TC22								
								.003		Buffer	B14							
S7407-5 (Late)	Vol.		18	UM154	M26		A96	15-10	24	2S569		20543	870	C3	6	[2]6K7GT, 6A8GT, 6Q7GT, 6V6G, 0Z4G	455	11-17
								.004		Buffer	B14							
S7407-6	Vol.	116125	20	MRT427	M26			114258	25	TC71		116202	854	C3	6	[2]6K7, 6A8, 6Q7, 6K6G, 6X5G	465	11-15,16
								.01		Buffer	B14							
7422-3	Vol.	5-39	6	MR29				7-27	4/20	TCS47/TC22					4	6D6, 6C6, 25L6, 25Z5, 185R8		8-3
S7422-5	Vol.	N1955	18	MK401	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	11-1
S7422-9	Vol.	N-3785	18	MK401	M26			N-3658	24	FP214					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	456	13-46
S7424-3	Vol.	V20	18	MR53	M26			C242	1	FP225		F4	246	C3	6	6D8G, 1H4G, 6S7G, 6T7G, 6L5G, 1J6G	456	10-3
	Tone	V112	34	MR36				.01-.01		Buffer	B14							
S7425-3	Vol.	50526	18	MR53	M26			50528	23	2S567		G10-38000	859	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	11-19-21
								.0065		Buffer	B14							
S7425-4, S7425-5	Vol.	V6	6	UM128-SS25	M26	EX200		C233	46	TN125					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT		10-4
S7425-6 (Ch. R320)	Vol.	114814	18	UM161	M26		A96	112898	23	TC45					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G	465	11-22,23
								113472	23	TC48								
S7425-6 (Late)	Vol.	116691	18	‡			A5	112898	1	TC45					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-24
								113472	1	TC48								
S7425-8UA	Vol.	113501	6	UM124-SS18	M26	EX300		112898	4	TC45					4	6A8G, 6J7G, 25L6G, 25Z6G, L55B	465	11-25,26
								113472	4	TC48								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FIRESTONE—Continued																		
S7425-9 (Ch. R317)	Vol.	113501	6	UM124-SS18	M26	EX300		112898	4	TC45					4	6A8G, 6J7G, 25L6G, 25Z6G, L55B	465	11-25,26
								113472	4	TC48								
S7425-9 (Loop)	Vol.	116691	18	‡			A5	112898	1	TC45					5	12SA7,12SK7,12SQ7, 35L6GT, 35Z5GT	455	11-24
								113472	1	TC48								
S7426-1 (Ch. R311)	Vol.	113501	6	UM124-SS18	M26	EX300		112898	4	TC45					4	6A8G, 6J7G, 25L6G, 25Z6G, L55B	465	11-25,26
								113472	4	TC48								
S7426-2	Vol.	113852	18	MR48	M26			112898	4	TC45					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G, L49B	465	11-27
								113472	4	TC48								
S7426-3, S7426-4 (Ch. R313)	Vol.	113852	18	MR48	M26			113808	60	TC71					6	6A8G, 6K7, 6Q7G, [1]6K6G, 5W4G	465	11-28
								114009	60	TC71								
S7426-5	Vol.	V6	6	UM128-SS1	M26	EX200		C233	46	TN125					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT		10-4
S7426-6	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	10-5
S7426-7 (Roamer 1939)	Vol.	N1504	18	UM154-SS18	M27			N1367	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	10-6
S7426-7 (Mar. 1939)	Vol.	N1504	18	UM154-SS18	M27			10	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	10-7
S7426-8	Vol.	117212	124	TM243-SS25	M26			114258	23	TC71					6	6SA7, 6SK7, 6H6, 6SQ7, 6F6G, 5W4G	455	11-29,30
								116262	23	TC74								
S7426-9	Vol.	10869	45	UM154	M27		A96	10	19	TC22					3	1A7G, 1N5G, 1N6G	455	10-8
S7427-1 (Early) (Ch. R314)	Vol.	113982	18	UM154	M26		A96	112802	60	RM265					7	6A8G, 6K7, 6Q7G, [2]6K6G, 5W4G, 6U5	465	11-31,32
S7427-1 (Late)	Vol.	117212	124	TM243-SS25	M26			118421	23	2S569					7	[2]6SK7, 6SA7, 6SQ7, 6F6G, 5W4G, 6U5	455	11-33,34
S7427-2	Vol.	114020	18	‡			A19	89937	1	RS224					8	[2]6K7, 6A8G, 6Q7G, [2]6K6G, 6U5, 5Y3G	465	12-6, 19-21
								113261	1	RS223								
S7427-3 (Ch. R316)	Vol.	113258	17	MRT438	M26			89937	25	RS224					10	[2]6K7, 6L7G, 6J5G, 6H6G, 6L6G, [2]5W4G, 6U5	465	11-35-38
								113261	25	RS223								
								110377	15	TC22								
S7427-5	Vol.	4871	18	UM154-SS22				50-50	1	FP214					5	1A7G, 1N5G, 1H5G, 1A5G, 35Z4GT	455	10-9
S7427-6	Vol.		29	Order from	Mfr.			10	78	TC22					3	[1]1N5G, 1A5G	455	10-5
								5	12	TC42								
S7427-7	Vol.	117086	18	‡			A5	10	19	TC22					5	6SA7, 6SK7, 6SQ7, 6F6G, 5W4G	455	11-39,40
								113808	25	TC71								
								114972	25	TC74								
S7427-8	Vol.	40668	18	UM154	M26		A96	40666	1/15	TCS64/TC22					7	6SA7, 6SK7, 6SQ7, 6SJ7, 6U5, 6F6G, 5W4G	455	11-4,11
S7428-1	Vol.	V20	18	MR53	M26			C236	46	FP371		F4	246	C3	4	6D8G, 6S7G, 6T7G, 6G6G	456	10-10
								.01-.01		Buffer	B14							
S7428-2	Vol.	10441	18	UM154-SS25	M27			10	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	10-4
FORD-LINCOLN																		
"Glove Box" (Zenith)	Vol.		17	SRP251	6	See Note	A42	8-8	4	TCS71	B3		296	C3	6	[2]6D6, 6F7, 75, 42, 84	252.5	5-4
								10	15	TC22								
								.02		Buffer	B14							
"Glove Box" (Police)	Vol.		17	SRP251				8-8	4	TCS71	B3		Order from Mfr.		6	[2]6E7, 6A7, 6C7, 42, 6Y5	‡	5-1
	Sen.		40	MR18				10	15	TC22								
								.008-.008		Buffer	B14							
"Glove Box" (40-18805)	Vol.		17	SRP251				8-8	4	TCS71	B3		Order from Mfr.		6	[1]6E7, 6A7S, 6C7, 42, 6Y5	175	5-3
								10	15	TC22								
								.008-.008		Buffer	B14							
Police (Grigsby-Grunow)	Vol.		17	MR44				8	12	See Note	B3				6	[2]39,[2]38, 85	‡	6-1
B18805	Vol.		54	MR44				8	12	See Note	B3				6	[2]39, 85,[2]38	‡	5-2
N "Center Control"	Vol.	33-5067	20	TRP614	6			30-2030	1	RM262		38-5036	500P	C3	6	[2]44, 77, 75, 42, 84	260	6-2,3
								30-2076	15	TC22								
								.01		Buffer	B14							
111	Vol.		17	SRP251				8-8	1	See Note	B3				6	[2]39,[2]38, 85	‡	
FORDSON																		
FP (330001 Up)	Vol.		15	MR44				4-4	4	2S567					5	6A7, 78, 75, 42, 80	456	5-1
	Tone		22	Order from	Mfr.			5	19	TC32								
								5	15	TC22								
FP Batt. (173501 Up)	Vol.		54	MR44				5	20	TC32					5	1A6, 34, 32, 30, 19	456	5-1
	Tone		22	MR39														
FP 32V (350001 Up)	Vol.		15	MR44	‡			6-10	1	3S584	B8		Order from Mfr.		5	6A7, 78, 75, 42, 84	456	5-2
	Tone		22	Order from	Mfr.			5	15	TC22								
								.05-.05		Buffer	B14							
FR	Vol.		6	MR18	‡	EX100		4-4	4	2S567					4	58, 57, 2A5, 80		5-2
	Tone		22	Order from	Mfr.													

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FORDSON—Continued																		
FU	Vol.		6	MR39	M26	See Note A14		4-20	6	2N509					5	78, 44, 77, 43, 25Z5	456	5-3
								5-5	15	TN111								
FV	Vol.		7	MR40	M26	See Note A14		4-20	6	2N509					4	44, 77, 43, 25Z5		5-4
								5-5	15	TN111								
FW	Vol.		17	MR48	M26			4-8-4	26	See Note	B3				8	[3]78, 37, 85, [3]42, 80	456	5-5
	Tone		41	MR39														
R	Vol.		6	MR18	‡			4-4	4	2S567					4	78, 77, 42, 80 or 57, 58, 2A5, 80		
	Tone		22	Order from Mfr.														
U	Vol.		6	MR39	M26	See Note A14		4-20	6	2N509					5	78, 44, 77, 43, 25Z5	456	
								5-5	15	TN111								
V	Vol.		7	MR40	M26	See Note A14		20-4	6	2N509					4	44, 77, 43, 25Z5		
								5-5	15	TN111								
V (All-Wave)	Vol.		15	MR48	M26			40-8	6	2N514					4	6F7, 77, 43, 25Z5		
								5	15	TC22								
W All Wave	Vol.		17	MR48	M26			4-8-4	5	See Note	B3				8	37, [3]78, 85, [3]42, 80	456	
	Tone		41	MR39														
X	Vol.		6	MR18	M26	EX200		4-4	4	2S567					5	[2]6D6, 6C6, 42, 80		
								5-5	15	TN111								
"Warwick"	Vol.		15	MR39	M26			8-4	4	See Note	B3				5	57, 58, 55, 47, 80	175	
	Tone		21	MR48				10	17	TC22								
"Goldentone" 6T	Vol.		15	MR39	M26			6T28	1	2N518					6	[3]58, 55, [3]59, 80	456	§3-5
								6T26	15	TC22								
6TA	Vol.		18	MR48				8-4	1	See Note	B3				6	2A7, 58, 2A6, [2]2A5, 80	456	
FRANKLIN																		
6 Tube	Vol.		6	G7	6	5		4, 4	1	ST595					6	27, [2]24, 35, 47, 80	175	3-3
	Tone		22	MR18														
43AB or CL	Vol.		7	MR28	M26			DS197	1	See Note	B3				4	37, 39, 38, 36	456	4-6
53	Vol.	DS249	6	MR21		See Note A14		8-4	6	2N518					5	[3]78, 77, 43, 25Z5	456	4-5
								4-4	15	TN111								
54L	Vol.		15	MR48	M26			4-8-4	8	TN125					5	6A7, 78, 6B7, 43, 25Z5	456	4-6
55U	Vol.		56	MR48	M26			8-8-8-8	45	TCS52/TCD52					5	6A7, 78, 6B7, 43, 25Z5	456	
								5	15	TC22								
63L	Vol.		6	MR18				8-8	4	2S567					6	57, 58, 56, 2A6, 47, 80	130	4-7
	Tone		21	MR55														
64	Vol.		6	MR18	M26			8	1	ST595					6	57, [3]58, 59, 55, 80	‡	4-8
	Tone		22	MR39				5	15	TC22								
65VL, 65VU	Vol.		56	MR48				8-8-8-8	45	TCS52/TCD52					6	6A7, [3]78, 6B7, 43, 25Z5	456	
								5	15	TC22								
94	Vol.		15	MR44				8-8-8	3	See Note	B3				9	[3]57, [3]58, 2B7, 56, [3]59, 5Z3	450	4-9,13
	Tone		41	MR48														
	Sen.		8	A10MP	6													
100 (Auto)	Vol.		7	MR19											6	[3]36, 37, [3]38	175	3-1
102	Vol.		6	MR18				8-4	4	2S567					5	[3]24, 35, 47, 80	175	3-1
	Tone		22	MR18														
104	Vol.		6	MR18		EX500		4-4	1	2N518					5	[3]35, 24, 47, 80		3-4
	Tone		22	MR18														
105	Vol.	DS118	6	G7	6			DS29	1	2N518					4	58, 57, 47, 80		4-14
106	Vol.	DS113	6	MR18				DS23	1	2N518					5	57, 58, 55, 47, 80	‡	4-14
	Tone	DS234	21	MR55		See Note A4												
200 (Auto)	Vol.		15	MR48											6	[3]36, 85, 37, [3]89	177	4-15,16
FREED TELEVISION & RADIO CORP.																		
A7	Vol.		17	MR48				4-4	15	TN111			Order from Mfr.		4	6A7, 78, 6B7, 41	456	4-1
A9	Vol.		15	UM154		See Note A96		16	1	Order from	Mfr.		Order from Mfr.		6	6A7, 6D6, 85, [3]37, 41	456	4-1
								8-20	1	Order from	Mfr.							
								5-5	19	TN111								
								.05		Buffer	B14							
FE63 DC	Vol.		6	MR24			A14											
	Tone		22	MR39											6	[3]39, [3]36, [3]89		3-8
FE96 DC	Vol.	26.15	6	MR21	M26			24.7	1	See Note	B3				8	[3]36, 37, [3]38		3-9
	Tone	26.16	22	‡		See Note A5												
FE98	Vol.	26.26	7	‡		See Note A5		24.30	1	See Note	B3				8	[3]24, [3]35, 27, [3]47, 80	175	3-10
	Tone	26.30	22	‡		See Note A5		24.23	1	See Note	B3							
FE99	Vol.		6	MR18											6	[3]36, 37, [3]33		3-8
	Tone		22	MR39														
MB5	Vol.		7	MR18	M26			‡	28	See Note	B3				5	[3]51, 24, 47, 80		3-3
MB7	Vol.		6	MR18				8-4	1	See Note	B3				7	[3]58, 56, 55, 47, 80	175	3-4
	Tone		22	MR39				4	17	TC32								
MB9	Vol.		6	MR18				4-8-8	3	See Note	B3				9	[3]58, [3]56, 55, [3]46, 80	175	3-5
	Tone		22	MR33				4	15	TC32								
								4	17	TC22								
NR55 DC	Vol.		5	MR44				1-2	1	See Note	B7				7	[3]01A, [3]71A		1-9
NR55 AC, NR56 AC	Vol.		81	DRP240				2-1-4	3	See Note	B1				8	[3]27, [3]26, [3]71, 80		1-10
NR57	Vol.		4	MR18											6	[3]26, 71, 27		1-11
NR60 AC	Vol.		4	MR18											6	[3]26, 27, 71A		1-13
NR60 DC	Vol.		4	MR18											7	[3]01A, [3]71A		1-12
NR70 AC	Vol.		4	MR18											7	[3]26, 210, 27		1-15
NR78 AC, NR79 AC	Vol.		7	MR34				1-1-4-1	3/14	See Note	B1				8	[3]27, [3]45, 80		1-18
NR78 DC, NR79 DC	Vol.		13	MR44											9	[3]01A, [3]71A		1-17
NR80 DC	Vol.		4	C											8	[3]01A, 12A, [3]71A		1-19

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FREED TELEVISION & RADIO CORP.—Continued																		
NR80 AC	Vol.		4	E12											8	[5]26, 27, 71, 80		1-20
NR85 AC	Vol.		4	E12											8	[5]26, 27, 50, 81		1-21
NR90 S	Vol.	26.262B	24	DRP308				1-2-4	3	See Note	B1				8	[4]24, 27, [3]45, 80		1-22
NR95 AC	Vol.		7	MR33				1-1-4-1	3/14	See Note	B1				9	[6]27, [3]45, 80		1-23
51DC	Vol.		6	MR24	M26										5	[3]39, 36, [3]89	175	3-1
40	Vol.		7			See Note	A3	80, 80, 80	75	2N511	B8				15	[3]7H7, [2]6K8, [2]6SJ7, 6H6, 6SK7, 6SQ7, 6U5, [2]25L6GT, [2]25Z6GT	AM 462 FM 4.3 mc.	1-3
	Tone		22			See Note	A5	16	‡	TC44								
	FM Vol.		17	MR48				20	‡	TC26								
51	Vol.		17			See Note	A19	40, 40	1	RS224					14	[7]7H7, [2]6K8, 6U5, [2]6SJ7, [3]6H6, 6SK7, 6SQ7, 6V6, Rect.	462 FM 4.3 mc.	1-4
	Tone		22			See Note	A5	20, 20	15	TC26								
52	Vol.		114			See Note	A19	40, 40	25	RS224					18	[7]7H7, [2]6K8, [4]6SJ7, 6H6, [2]6SK7, 6Q7, 6U5, [2]6Y6, 5U4	462 FM 4.3 mc.	1-4
	Tone		114			See Note	A5	8	13/14	TC71								
								20	44	TC26								
54	Vol.		8	G				8-4	1	2N518					5	[3]58, 57, 47, 82		3-3
56	Vol.		8	G				8-4	1	2N518					5	[3]58, 57, 47, 80		3-3
58 AC	Vol.		6	MR24				8-4	4	2S567					5	57, 58, 55, 47, 80	175	3-1
	Tone		22	MR33														
59	Vol.		8	G				8-4	1	2N518					5	[3]58, 57, 47, 82		3-3
57-71	Vol.		17	MR48				40, 40	1	RS224					15	[3]7H7, [2]6K8, [2]6SJ7, 6H6, 6U5, 6SK7, 6Q7, [2]6Y6, 5U4	AM 462 FM 4.3 mc.	1-4
	Tone		21	MR44				8	13	TC71								
								20	15	TC26								
57A-71A	Vol.		114			See Note	A19	40, 40	25	RS224					16	[3]7H7, [2]6K8, [2]6SJ7, 6H6, [2]6SK7, 6Q7, 6U5, [2]6Y6, 5U4	AM 462 FM 4.3 mc.	1-4
	Tone		114			See Note	A5	8, 8	13/14	TC71								
								20	44	TC26								
72, 74	Vol.		6	MR18	M26			8-4	1	2N518					7	[3]58, 56, 55, 47, 80	175	3-4
	Tone		22	MR39				4	17	TC32								
90	Vol.		6	MR18	M26			4-8-8	3	See Note	B3				9	[3]58, [3]56, 55, [3]46, 80	175	3-5
	Tone		22	MR33				4	15	TC32								
91 DC	Vol.		6	MR21				‡	1	See Note	B7				5	[3]36, 37, 33		3-6
92 AC	Vol.		8	MR18	M26			‡	28	See Note	B3				5	[3]51, 24, 47, 80		3-7
346	Vol.		6	MR18	M26			8-4	1	2N518					4	78, 77, 42, 80		4-2
								5	15	TC32								
354	Vol.		6	MR18	M26			8-4	1	2N518					5	6A7, 78, 75, 42, 80	456	4-3
								5	15	TC32								
355	Vol.		6	MR18	M26			25-14	6	2N509					5	6A7, 78, 75, 43, 25Z5	456	4-4
								5	15	TC32								
360, 360X	Vol.		6	MR18	M26			8-4	1	2N518					6	6A7, 78, 75, 76, 42, 80	175	4-5
								5	15	TC32								
365, 365X	Vol.		6	MR18	M26			25-14	6	2N509					6	6A7, 78, 75, 76, 43, 25Z5	456	4-6
								5	15	TC32								
FREED MFG. CO., INC.																		
FE24A	Vol.		6	MR24				40	24	TC48					4	6D6, 6C6, 43, 25Z5, K55B		9-1
								8	24	TC42								
								5	15	TC22								
27D	Vol.		18	MR48				40	6	TC48					7	6A7, 6D6, 75, 6G5, 26L6G, [2]25Z5, MT300, [4]K34B	456	9-2
	Tone		22	MR44				20	6	TC47								
								5	15	TC22								
30D	Vol.		18	MR48				40	24	TC48					6	6A7, 6D6, 75, 6G5, 43, 25Z5, MT650, [3]K18B	456	9-2
								8	24	TC42								
								5	15	TC22								
FE30L	Vol.		6	MR24				4-4-5-5	24/15	2N516/TN111					3	6D6, 6C6, 12A7		7-1
FE33	Vol.		6	MR24		EX700		12-8	24	2N509					3	6D6, 6C6, 25A7		8-1
								5	15	TC22								
FE48	Vol.		6	MR24		EX700		4-4	24	2N516					4	6D6, 6C6, 38, 76		8-1
								5-5	15	TN111								
FE50, FE51L	Vol.		6	MR24		EX700		12-8	24	2N509					4	6D6, 6C6, 43, 25Z5, K55C		8-2
								5	15	TC22								
FE52, FE56, FE58	Vol.		6	MR14	M26			8-12	6	2N509					5	6A7, 6D6, 75, 43, 25Z5	456	7-2
								5	15	TC22								
FE60	Vol.		6	MR14	M26		A14	12-8	6	2N509					5	6A7, 6D6, 75, 43, 25Z5, K49C	456	8-3
								5	15	TC22								
FE62	Vol.		6	MR14	M26		A14	12-8	6	2S567					5	6A7, 6K7, 75, 43, 25Z5, L49E	456	8-3
								5	15	TC22								
FE69X	Vol.		45	MR48	M26			8-8	23	2S567					6	6A7, 6D6, 76, 75, 42, 80	456	8-4
								5	15	TC22								
96	Vol.		18	MR48				8-16	23	3S584	B3				6	6A7, 6D6, 75, 41, 6G5, 80	456	9-1
FE97	Vol.		18	MR48				8-16	23	3S584	B3				8	6A7, 6D6, [2]76, 75, 41, 6G5, 80	456	9-1
	Tone		22	MR44				5	15	TC22								
P351L	Vol.		6	MR24		EX700		12-8	24	2N509					4	6D6, 6C6, 43, 25Z5, K55B		8-2
								5	15	TC22								
351, 351P, 351L	Vol.		6	SRP263		EX400		12-8	6	2N509					4	6D6, 6C6, 43, 25Z5		6-1,2
								5-5	15	TN111								
357P	Vol.		6	MR36		EX400		8-14	6	2N509					5	6A7, 6D6, 76, 43, 25Z5	456	6-2
								5-5	15	TN111								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FREED MFG. CO., INC.—Continued																		
357L, 358L	Vol.		6	MR36		EX300		8-14	6	2N509					5	6A7, 6D6, 75, 43, 25Z5	132	6-3
369S	Vol.		6	MR36		EX300		8-14	6	2N509					6	6A7, 6D6, 76, 75, 43, 25Z5	456	6-4
								5-5	15	TN111								
JESSE FRENCH																		
"G" Jr	Vol.	7777	25	DRP119	6			1-2	1	See Note	B1				5	[3]24, 45, 80		2-1
H1	Vol.	H1107	25	GE	6			8-8-1	1	2N518/TP418					5	[3]24, 45, 80		2-4
H2 AC	Vol.		6	MR18				4	1	ST595					5	24, 47, [3]51, 80		2-3
H2 Jr	Vol.		6	MR18				4, 4	1	ST595					5	[3]24, 45, 80		3-1
	Tone		21	MR53														
H2 Special 110V DC	Vol.		40	E12				2-2	1	See Note	B11				5	30, [3]32, 71A		2-3
S2	Vol.	7777	25	DRP119	6			5483	2	2N518					8	[4]24, 27, [3]45, 80		3-2
	Tone	7779	41	MR53														
U1	Vol.		7	C	6			8, 8	34	ST595					7	[3]24, 27, [3]35, 47, 80	175	2-5
	Tone		22	MR33														
5-093	Vol.		13	MR33				‡	37	See Note	B1				9	[3]26, 27, [3]45, 80		1-2
JESSE FRENCH EXPORT.																		
5X, 6X, 7X	Vol.	63-235	15	MR48	M26			22-173	30	RS213					8	[3]58, [3]57, 56, 59, 80	175	5-1
	Tone	63-232	34	MR48														
	Sen.	63-234	7	MR34														
8 AC	Vol.		1	MR33				‡	3	See Note	B1				9	[3]26, 27, [3]71, 80		1-1
FRESHMAN																		
G (1st Type)	Vol.		35	MR44				‡	1	See Note	B4				7	[4]26, 27, 71, 80		1-2
G (2nd Type)	Vol.		35	MR44				‡	3	See Note	B4				7	[4]26, 27, 71, 80		1-3
G (3rd Type)	Vol.		3	MR18				2-2-6-4-2-1	3/14	See Note	B4				7	[4]26, 27, 71, 80		1-3
H	Vol.		35	MR44				‡	1	See Note	B4				8	[4]26, 27, 210, [3]81		1-4
K	Vol.		35	MR44				‡	1	See Note	B4				7	[4]26, 27, 12A, 213		1-5
L DC	Vol.		35	MR44											6	[4]01A, [3]12A		1-7
M	Vol.		60	MR33		See Note A43		2-4	1	See Note	B1				7	71, [4]26, 27, 80		1-6
N	Vol.		60	MR33		See Note A43		1-4	1	See Note	B2				7	[4]26, 27, 50, 81		1-7
Q15, Q16	Vol.		60	MR18				2-4	1	See Note	B1				5	22, 27, 26, 71, 80		1-9
QD-16-S	Vol.		4	MR18				1-2-2	3	See Note	B1				5	22, 27, 26, 71, 80		1-11
2N with 2N60S	Vol.		60	MR33		See Note A43		1-4	1	See Note	B2				7	[4]26, 27, 50, 81		1-8
3Q15, 3Q16	Vol.		4	MR18				1-4	1	See Note	B1				5	22, 27, 26, 71, 80		1-10
21AC and 22AC	Vol.		81	DRP240				2-1-4	3	See Note	B1				8	[3]26, [3]27, [3]71A, 80		
21 DC	Vol.		13	MR44											7	[3]01A, [3]71A		
31, 32, (AC)	Vol.		7	MR34				1-1-4	3	See Note	B1				8	[3]27, [3]45, 80		
31S, 32S, (AC)	Vol.		58	DRP308				1-1-4	3	See Note	B1				8	[3]27, [3]45, 80		
41 (AC)	Vol.		7	MR34				1-1-4	3	See Note	B1				9	[3]27, [3]45, 80		
FROST MINTON																		
FM4, FM5	Vol.		6	MR18				4, 4	25	ST595					5	[3]24, 45, 80		4-3
4PW	Vol.		6	MR18				4-4	25	2S567	B3				5	[3]24, 47, 80		4-1,2
FULTON																		
Pre								8-8	4	See Note	B3				3	[3]76, 84		6-1
								10	15	TC22								
Z	Vol.		16	MR44				8-8-8	4/17	RM265	B106				4	2A3, 2A6, 5Z3, 56		6-1
								5-5	15	TN111								
13B	Vol.		95	MM				16	1	See Note	B3				6	2A6, 5Z3, [3]50, 53, 56		6-2
	Equal.		‡	MR44				4	1	See Note	B4							
								8	17	TC32								
								4	13	TC70								
15B	Vol.		‡	MM				16-6	‡	See Note	B2				6	[3]2A3, 5Z3, 6A6, 75, 76		6-1
	Equal.		95	MR44				4	13	TC70								
								8	17	TC32								
35B	Vol.		‡	MM				6-16	1	See Note	B3				7	[3]50, 56, 57, 59, [3]83		6-2
	Equal.		95	MR44				2-3	1	See Note	B4							
								10	14	TC32								
								8	15	TC32								
GALVIN MFG. CO.	**Motorola**																	
Super 6	Vol.		56	Order from	Mfr.			8420	1	TCS71		944	270B		6	77, [3]78, 85, [3]12A5	456	4-10
	Tone		44	MR39														
Dual 6	Vol.		77	Order from	Mfr.			8825	1	3S579		53	253	C3	6	[3]78, 77, 75, 42, 84	262	5-1,7
	Tone		22	Order from	Mfr.			.01		Buffer	B14							
A1	Vol.	18A24918	18	Order from	Mfr.			23A14747	12	TC42					4	1R5, 1T4, 1S5, 1S4	455	
B150	Vol.	1A21688	18	UM161	M27		A96	23A21877	12	TC44					3	1A7GT, 3A8GT, 1Q5GT	455	12-38,20
FM82								23A27718	24	FP331					8	[3]6SK7GT, 6SA7, [3]6SJ7, 6H6, 5W4GT	4.3 mc.	14-26, 27, 28
JB	Vol.		7	MR34		EX200		32-16-16	11	TC47/TCS44					6	[3]6D6, 6A7, 75, 43, 25Z5	‡	
	Tone		22	MR33				10	15	TC22								
J8	Vol.		7	MR34		EX150		21632	11	TC47/TCS44					6	[3]6D6, 6A7, 75, 43, 25Z5	175	4-3
	Tone		22	MR33														
RW1	Vol.	18A22175	15/63	MK402	M26			23A14963	24/15	FP339					5	6SQ7GT, 6Q7GT, 6K6GT, 6SK7GT, 5W4GT		
	Bias	18A20889	7	Order from	Mfr.			23A22953	15	TC26								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS						
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
GALVIN MFG. CO.—Continued																		
S10	Vol.		83	MR48				8-8-12	3	See Note	B3				8	[3]78, 77, 85, 56, [2]45, 83	175	4-4
	Tone		22	MR33				25	15	TC26								
	Sen.		7	MR34		EX300												
Twin "8"	Vol.		15	Order from	Mfr.			8825	1/19	3S579		53	253	C3	8	[2]6A4, 37, 77, [3]78, 84, 85	262	5-1,7
	Tone		22	Order from	Mfr.			.01		Buffer	B14							
Auto Set	Vol.		7	MR45											6	[3]24, 01A, [2]12		§1-7
"Golden Voice"	Vol.	2168	18	UM154-SS10	M26			2326	1	TCD62/TCD45		2104	901M	C3	10	[2]6K7, 6A8, 6R7, [2]6H6, 6C5, [2]6F6, 0Z4	262	7-1,9
	Tone	2167A	22	Order from	Mfr.			.005		Buffer	B14							
	Sen.	2303	7	Order from	Mfr.													
Golden Voice (1937)	Vol.	3294	45	TM230-SS19	M26			3348	1/19	3S579		2404	901M	C3	8	[2]6K7, 6A8G, 6H6G, 6C5G, 6J5G, 6N7G, 0Z4/6X5G	262	8-1
								.005		Buffer	B14							
3A5	Vol.	18A24918	18	Order from	Mfr.			23B27161	24/46	TN129/TC2501					5	1R5, 1T4, 1S5, 3S4, 117Z6G	455	
5 Tube, "Split Case"	Vol.		7	MR40											5	01A, [3]24, 71A		3-1
5T (5-1)	Vol.	60H37838	18	UM147-SS16				14H37285	4	2S567					5	6A7, 6D6, 75, 41, 80	465	8-3
	Tone	60H37835	34	MR33	M26													
5T late (5-3)	Vol.	60H37829	15	UM161			A96	14H37285	4	2S567					5	6A7, 6D6, 75, 41, 80	465	
	Tone	60H37835	34	MR33	M26													
5T1, 5T2, 5Y (5-2)	Vol.	60H37838	18	UM147-SS16				14H37281	4	3S584	B8				5	6A7, 6D6, 75, 42, 80	465	8-5
	Tone	60H37835	34	MR33	M26													
5T 71	Vol.		7	MR40				8	12	See Note	B3				5	[3]24, 38, 71A		3-2
6A (6-1)	Vol.	60H37838	18	UM147-SS16				14H37281	4	3S584	B8				6	6A7, 6D6, 75, 42, 6G5, 80	465	8-6
	Tone	60H37835	34	MR33	M26													
6A1 (6-5)	Vol.	60H37829	15	UM154			A96	14H37285	4	2S567					6	6A7, 6D6, 75, 41, 80, 6U5	465	
	Tone	60H37835	34	MR33	M26													
6T, 6Y (6-2)	Vol.	60H37840	75	UM147-SS16				14H37275	25/13/19	TC74/3S579					6	6A8G, 6K7G, 6H6G, 6F5G, 6V6G, 5Y3	465	8-7
	Tone	60H37834	34	MR33	M26			14H37277	4	RS216								
								14H37288	13	TC70								
6T-12PL	Vol.		7	MR45				50	‡	See Note	B3				6	[3]24, 01, [2]12		3-3
6X (6-3, 6-6)	Vol.	60H37832	18	MR48	M26			14H37286	6	2N514					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G	465	
	Tone	60H37826	22	MR48				14H37284	15	TN111								
7T-38	Vol.		15	MR39											7	[3]24, [2]37, [2]38		3-4
7T-38A	Vol.		62	MR48											7	[3]51, [2]37, [2]38		3-6
7T-47A	Vol.		62	MR48											7	[2]37, [2]39, [3]LA	175	3-7,9
8-30	Vol.	18A4046	18	UM154-SS19	M26			10	19	TC32					6	[3]78, 6A7, 75, 41, 84	262	9-1,9, 10,11
								23A5186	24/19	3S579		48A5333	859	C3				
								.01		Buffer	B14							
8-40	Vol.	18A4238	18	UM147-SS19	M26			23A4014	1/19	3S579		48A5333	859	C3	6	[3]78, 6A7, 75, 41, 84	262	9-2,9, 10,11
								.01		Buffer	B14							
8-50	Vol.	18A4364	18	UM154-SS19	M26			23A4309	4	2S567		48A3333	859	C3	6	[3]78, 6A7, 75, 42, 0Z4	262	9-3,9, 10,11
								.01		Buffer	B14							
8-60	Vol.	18A4885	18	UM154-SS19	M26			23A4309	4	2S567		48A3333	859	C3	6	[3]78, 6A7, 75, 41, 0Z4	262	9-5,9, 10,11
								.01		Buffer	B14							
8-70	Vol.	18A4204	18	TM227-SS19	M26			23A4571	1/15	3S581/TC22		48A3333B	901M	C3	8	[2]6K7G, 6A8G, 6V7G, 6C5G, [2]6V6G, 0Z4	262	9-4,9, 10,11
								.005		Buffer	B14							
8-80	Vol.	18A4740	18	TM227-SS19	M26			23A4662	1/15	3S584/TC22		48A3333B	901M	C3	8	[2]6K7G, 6A8G, 6V7G, 6C5G, [2]6V6G, 0Z4	262	9-7,11
								.005		Buffer	B14							
9A, 9R, 9Y (9-1, 9-2, 9-3)	Vol.	60H37827	75	TM225-SS16				14H37275	25/13/19	TC74/3S579					9	6A8G, [2]6K7G, 6H6G, [2]6J5G, 6V6G, 6G5, 5Y3	465	8-9
	Tone	60H37834	34	MR33	M26			14H37277	4	RS216								
								14H37279	4	ST595								
								14-H-37288	13	TC70								
9-24	Vol.	18A12638	18	SM302				23A12645	24/19	FP380		48K12312	859	C3	6	[3]7A7, 7B8, 7B6, 7B5, 0Z4/6X5	455	10-3,4
								.006		Buffer	B14							
9-24A	Vol.	18A12638	18	SM302				23A12645	24/15	FP380		48K12312	859	C3	6	[3]6K7GT, 6A8GT, 6Q7GT, 6K6GT, 0Z4/6X5	455	10-3,4
								.006		Buffer	B14							
9-29	Vol.	18A4046	18	UM154-SS19	M26			23A5186	24/15	3S579		48A3333	859	C3	6	[3]78, 6A7, 75, 41, 84	262	10-5,6
								.006		Buffer	B14							
9-39	Vol.	18A4046	18	UM154-SS19	M26			22A5186	24/15	3S579		48A3333	859	C3	6	[3]78, 6A7, 75, 41, 84	262	
								.006		Buffer	B14							
9-44	Vol.	18A4364	18	UM154-SS19	M26			23A14219	1/19	FP380		48A3333	859	C3	6	[3]78, 6A7, 75, 41, 84	262	10-7,8
								.01		Buffer	B14							
9-49	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FP380		48A3333	859	C3	6	[3]7B7, 7A8, 7C6, 7C5, 0Z4, or [3]7A7, 7B8, 7B6, 7B5, 6X5	262	10-9
								.01		Buffer	B14							
9-69	Vol.	18A13683	75	TM227-SS19	M26			23A13037	1	FP231		48A3333B	901M	C3	8	[3]7A7, 7B8, 7A6, 7B6, [2]7C5, 6X5	262	10-10
								.005		Buffer	B14							
9-69 (Bantam)	Vol.	18A13683	75	TM227-SS19	M26			23A13037	1	FP231		48A3333B	901M	C3	8	[2]6K7GT, 6A8GT, 6H6GT, 6Q7GT, [2]6V6GT, 0Z4/6X5	262	
								.005		Buffer	B14							
10Y (10-1)	Vol.	60H37839	45	UM147-SS16				14H37275	25/13/19	TC74/3S579					10	[2]6K7G, 6A8G, [2]6J5G, 6H6G, 6V6G, 6G5, 5Y3	465	8-11,12
	Tone	60H37836	‡	MR39	M26			14H37277	25	RS213								
	Fid.	60H37833	‡	MR48				14H37288	13	TC70								
	Sen.	60H37831	7	MR19				14H37279	13	ST595								
10Y late (10-3)	Vol.	60H37839	18	UM147-SS16				14H37275	25/13/19	TC74/3S579					10	[2]6K7G, 6A8G, [2]6J5G, 6H6G, 6V6G, 6G5, 5Y3	465	
	Tone	60H37836	‡	MR39	M26			14H37277	25	RS213								
	Fid.	60H37833	‡	MR48				14H37279	13	ST595								
	Sen.	60H37831	7	MR19														

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GALVIN MFG. CO.—Continued																		
10Y1 (10-2)	Vol.	60H37839	18	UM147-SS16				14H37274	25	RS223					10	†6K7G, 6A8G, 6B8G,		
	Tone	60H37836	‡	MR39	M26			14H37277	25	RS213						6H6G, 6G5, 6J7G,		
	Fid.	60H37833	‡	MR48				14H37273	13/19	Order from	Mfr.					6R7G, 6V6G, 5Y3	465	9-13,20
	Sen.	60H37831	7	MR19				14H37279	13	ST595								
11A Wireless Record Player								10	13	TC42					1	25A7G		11-32
12Y, 12Y1 (12-1)	Vol.	60H37839	18	UM147-SS16				14H37274	25	RS223					12	†6K7G, 6A8G, 6B8G,		
	Tone	60H37836	‡	MR39	M26			14H37277	25	RS213						†6J5G, 6H6G, 6J7G,		
	Fid.	60H37833	‡	MR48				14H37273	13/19	Order from	Mfr.					6R7G, 6V6G, 5X4G,		
	Sen.	60H37831	7	MR19				14H37279	13	ST595						6U5	465	9-15,20
15F	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FP380		48A3333	859	C3	6	†78, 6A7, 75, 41, 84	455	10-11,12
								.006		Buffer	B14							
16C	Vol.	1X13617	18	UM154-SS20	M26			23A12645	1/19	FP380		48A3333	859	C3	6	†7A7, 7B8, 7B6, 0Z4,		
								.01		Buffer	B14					7B5	455	10-13,14
17D	Vol.	1X13040	18	TM230-SS21	M26			23K13504	1/15	FP380		48A3333	859	C3	6	†78, 75, 6A7, 6V6, 0Z4	455	10-15,16
								.007		Buffer	B14							
17FM41	Vol.	18K28356	37	TM238-SS25				23A14963	1	FP339					18	†6SJ7GT, 6A8GT,		
	Tone	18K28357	37	MK402	M26		A99	23A11710	13	TC62						6SK7GT, †6SQ7GT,		
																6E5, *6SD7GT,	AM	
																6J5GT, 6H6,	455	
																6H6GT, †6V6G,	FM	14-1,2,
																5Z3	4.3 mc.	3, 4
18O	Vol.	18A12999	18	Order from	Mfr.			23A12645	1/19	FP380		48A3333	859	C3	6	7A8, †7A7, 7C6, 0Z4,		
								.01		Buffer	B14					7C5	455	10-17,18
19B	Vol.	18A13174	18	MRT430	M26			23A13637	1	FP389	B69	3333B	901M	C3	7	†7A7, 7B8, 7B6, †6V6,		
								.004		Buffer	B14					0Z4	455	10-19,20
20P	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FP380		48A3333B	901M	C3	7	†78, 6A7, 6Q7GT, †41,		
								.01		Buffer	B14					0Z4	455	10-21,22
21A Wireless Record Player								10	12	TC42					2	6K6GT, 76		11-32
21L	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FP380		48A3333B	901M	C3	7	†78, 6A7, 6Q7GT, †41,		
								.01		Buffer	B14					0Z4	455	10-21,22
22A	Bias	18A20889	7	Order from	Mfr.			23A20887	24/15	TN125					2	6SK7GT, 6J5GT		12-4
22B	Bias	18A20889	7	Order from	Mfr.			23A20887	24/15	3N527					2	6SK7GT, 6J5GT		13-3
	Control																	
22S	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FP380		48A3333	859	C3	6	†78, 6A7, 75, 41, 84	455	12-5,6
								.006		Buffer	B14							
23RC, 23RCW	Bias	18A20889	7	Order from	Mfr.			23A20887	24/15	TN125					2	6SK7GT, 6J5GT		12-4
24K	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FP380		48A3333B	901M	C3	7	†78, 6A7, 6Q7GT, †41,		
								.01		Buffer	B14					0Z4	455	10-21,22
25F	Vol.	18A18283	18	Order from	Mfr.			23A17738	24/15	FP328		48A3333	859	C3	6	†6SK7GT, 6SA7GT,		
								.007		Buffer	B14					6SQ7GT, 6K6GT,		
																0Z4/6X5	455	11-2,1
25N	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FP380		48A3333	859	C3	6	†78, 6A7, 75, 41, 84	455	12-5,6
								.006		Buffer	B14							
26C	Vol.	18B18676	18	Order from	Mfr.			23A17738	24/19	FP328		48A3333	859	C3	6	†6K7GT, 6A8GT,		
								.01		Buffer	B14					6Q7GT, 6K6GT,		
																0Z4/6X5	455	11-3,4
26C7	Vol.	18B18676	18	Order from	Mfr.			23A17190	1	FP234		48A3333	859	C3	7	†6K7GT, 6SA7GT,		
								.007		Buffer	B14					6Q7GT, †6K6GT,		
																0Z4	455	10-3,4
27D	Vol.	1K17377	18	UM154	M26			23A17190	24	FP234		48A3333	859	C3	7	†6K7GT, 6SA7GT,		
								.007		Buffer	B14					6Q7GT, †6K6GT,		
																0Z4	455	11-5,6
27D6	Vol.	18A17378	18	UM154	M26			23A17738	24/19	FP328		48A3333	859	C3	6	†6K7GT, 6A8GT,		
								.01		Buffer	B14					6Q7GT, 6K6GT,		
																6X5-0Z4	455	12-7,8
27D6-41	Vol.	1K17377	18	Order from	Mfr.			23A17738	24/19	FP328		48A5067	859	C3	6	†6K7GT, 6A8GT,		
								.01		Buffer	B14	48A3333				6Q7GT, 6V6GT,		
																6X5GT	455	
28O	Vol.	28B17109	18	Order from	Mfr.			23A17190	1	FP234		48A3333	859	C3	7	†6K7GT, 6SA7GT,		
								.007		Buffer	B14					6Q7GT, †6K6GT,		
																0Z4	455	11-7,8
29B	Vol.	18B17108	18	Order from	Mfr.			23A17190	1	FP234		48A3333B	901M	C3	7	†6SK7GT, 6SA7GT,		
								.006		Buffer	B14					6G7GT, †6V6GT,		
																0Z4-6X5	455	11-9,10
29B6	Vol.	18A17108	18	Order from	Mfr.			23A17738	1/15	FP328		48A3333	859	C3	6	†6SK7GT, 6SA7GT,		
								.01		Buffer	B14					6SQ7GT, 6K6GT,		
																0Z4	455	11-11,10
30P	Vol.	28B17457	18	Order from	Mfr.			23A17190	1	FP234		48A3333	859	C3	7	†6K7GT, 6SA7GT,		
								.007		Buffer	B14					6Q7GT, †6K6GT,		
																0Z4	455	11-7,8
34	Vol.	1010A	77	UM154-SS3	M26			8426	1	TCS71		2404	901M	C3	6	†78, 77, 75, 42, 84	456	5-8
								R2520	19	TC26								
								.02		Buffer	B14							
34K6	Vol.	1K20085	18	UM154	M26		A96	23A17738	24/19	FP328		48A3333	859	C3	6	†6SK7GT, 6SA7GT,		
								.01		Buffer	B14					6SQ7GT, 6K6GT,		
																0Z4	455	12-9,8
34K7	Vol.	1K20085	18	UM154	M26			23A17738	24/19	FP328		48A3333	859	C3	7	†6SK7GT, 6SA7GT,		
								.006		Buffer	B14					6SQ7GT, †6K6, 0Z4	455	12-10,8
35	Vol.	3238	18	UM154-SS19	M26			3344	19/24	2N518/TC26		2404	901M	C3	6	†78, 6A7, 75, 41, 84/		
								.01		Buffer	B14					6Z4	262	8-15

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GALVIN MFG. CO.—Continued																		
35F	Vol.	18A24737...	18	UM154-SS30	M26	.....	.....	23A22738...	24/19	FP313	.....	48A3333....	859	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT...	262	12-11,12
								.02	.....	Buffer	.B14							
35N	Vol.	1K18144...	18	Order from	Mfr...	.....	.....	23A17738...	24/15	FP328	.....	48K12793...	859	C3	6	‡6SK7GT, 6SA7GT, 6SQ7GT, 6K6GT, 0Z4	455	12-13-11-8
								.01	.....	Buffer	.B14	48K12312..	859	C3				
36C1	Vol.	18B24046...	18	Order from	Mfr...	.....	.....	23A22738...	24/19	FP313	.....	48A5067....	859	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT...	262	.....
								.02	.....	Buffer	.B14	48A5333....	859	C3				
36C2	Vol.	18B24046...	18	Order from	Mfr...	.....	.....	23A22738...	24/19	FP313	.....	48A5067....	859	C3	6	‡6SK7GT, 6SA7GT, 6SQ7GT, 6U6GT, 6X5GT	455	.....
								.02	.....	Buffer	.B14	48A5333....	859	C3				
37D1	Vol.	1K17377...	18	Order from	Mfr...	.....	.....	23A23651...	24/13	FP390	.....	48K11026...	901M	C3	8	6SD7GT, 6SA7GT, 6SK7GT, 6SQ5GT, 6J5GT, ‡6V6GT, 0Z4	262	12-14,16
								.007	.....	Buffer	.B14							
37D2	Vol.	1K17377...	18	Order from	Mfr...	.....	.....	23A22738...	24/19	FP313	.....	48A3333....	859	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT...	455	12-15,16
								.02	.....	Buffer	.B14							
38O	Vol.	18B24254...	18	Order from	Mfr...	.....	.....	23A22738...	24/19	FP313	.....	48A5333....	859	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT...	262	12-17,18
								.02	.....	Buffer	.B14	48A5067....	859	C3				
39B1	Vol.	18K23489...	18	Order from	Mfr...	.....	.....	23A17190...	1	FP234	.....	48K11026...	901M	C3	7	6SD7GT, 6SA7GT, 6SK7GT, 6R7GT, ‡6V6GT, 0Z4	262	.....
								.006	.....	Buffer	.B14							
39B2	Vol.	18K23489..	18	Order from	Mfr...	.....	.....	23A22738...	24/19	FP313	.....	48A5067....	859	C3	6	‡6SK7GT, 6SA7GT, 6Q7GT, 6U6GT, 6X5GT	455	.....
								.02	.....	Buffer	.B14							
40-40B	Vol.	18A19979...	18	MK402....	M27	.....	.....	23A14727...	12	TC42	.....	.....	.....	.....	4	1A7GT, 1N5GT, 1H5GT, 1Q5GT...	455	12-23
40B1	Vol.	18A19979...	18	MK402....	M27	.....	.....	23A14727...	12	TC42	.....	.....	.....	.....	4	1A7GT, 1N5GT, 1H5GT, 1Q5GT...	455	12-19,20
40BK, 40BW	Vol.	18A19979...	18	MK402....	M27	.....	.....	23A14727...	12	TC42	.....	.....	.....	.....	4	1A7GT, 1N5GT, 1H5GT, 1Q5GT...	455	12-19,20
40P	Vol.	18B23844...	18	Order from	Mfr...	.....	.....	23A22738...	24/19	FP313	.....	48A5067....	859	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT...	262	12-21,22
								.02	.....	Buffer	.B14	48A5333....	859	C3				
40-50W	Vol.	18K19939..	18	MK401....	M26	.....	.....	23A19877...	24/19	FP339	.....	.....	.....	.....	5	6A8GT, 6SK7GT, 6SQ7GT, 6K6GT, 80	455	12-25, 26,36
40-60W	Vol.	18A14629...	18	UM154-SS22	M26	.....	.....	23A18744...	24	2N521	.....	.....	.....	.....	6	‡12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-24
41A	Vol.	18A14812...	18	UM154-SS22	M27	.....	.....	23A14828...	19	TC26	.....	.....	.....	.....	4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-12
41B	Vol.	18K14839...	18	UM154-SS22	M27	.....	.....	23A14828...	19	TC26	.....	.....	.....	.....	4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-13
41B11, 41B12	Vol.	18A19979...	18	MK402....	M27	.....	.....	23A14727...	12	TC42	.....	.....	.....	.....	4	1A7GT, ‡1N5GT, 3Q5GT	455	13-4
41D	Vol.	18K15633..	18	MK401....	M27	.....	.....	23A14826...	20	TC26	.....	.....	.....	.....	4	1A7G, 1N5G, 1H5G, 1Q5G	455	14-9,10
41D1, 41D2	Vol.	18K15633...	18	UM154-SS22	M27	.....	.....	23A14828...	19	TC26	.....	.....	.....	.....	4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-14,13
41E	Vol.	18A14812...	18	UM154-SS22	M27	.....	.....	23A14828...	19	TC26	.....	.....	.....	.....	4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-12
41F	Vol.	18K14839...	18	UM154-SS22	M27	.....	.....	23A14828...	19	TC26	.....	.....	.....	.....	4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-13
41H	Vol.	18K17174...	18	Order from	Mfr...	.....	.....	23A16138...	78	TC605	.....	.....	.....	.....	4	1A7GT, 3A8GT, 1Q5GT, 25Z6GT...	455	.....
								23A16139...	24	FP214/TC45	.B217	.....	.....	.....				
41S	Vol.	18A15869...	18	UM161-SS22	M27	.....	.....	23K16446...	19	TC26	.....	.....	.....	.....	4	1A7GT, 1N5GT, 1H5GT, 1T5GT..	455	11-12
42S	Vol.	18A24657...	18	UM154-SS29	M26	.....	.....	23A22738...	24/19	FP313	.....	48A3333....	859	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT...	262	12-27,28
								.02	.....	Buffer	.B14	48A5067....	859	C3				
43H	Vol.	18A23198...	18	Order from	Mfr...	.....	.....	23A22738...	24/19	FP313	.....	48A3333....	859	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT...	262	12-29,30
								.02	.....	Buffer	.B14	48A5067....	859	C3				
44	Vol.	531C.....	17	Order from	Mfr...	.....	.....	1823.....	1	TCD62	.....	944.....	Order from Mfr.		5	12A5, 75, 77, ‡78.....	456	4-5,8
								10.....	15	TC22	.....	.....	.....	.....		.....	.....	.....
								.01	.....	Buffer	.B14	.....	.....	.....		.....	.....	.....
44K	Vol.	1K24074...	18	UM154....	M26	.....	A96	23A22738...	24/19	FP313	.....	48A5067....	859	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT...	262	12-31
								.02	.....	Buffer	.B14	48A5333....	859	C3				
45	Vol.	3244.....	18	UM147-SS19	M26	.....	.....	3344.....	1/19	2N518/TC26	.....	2404.....	901M..	C3	6	‡78, 6A7, 75, 41, 84/6Z4	262	8-16
								.01	.....	Buffer	.B14	.....	.....	.....		.....	.....	.....
45N	Vol.	18B24193...	18	Order from	Mfr...	.....	.....	23A22738...	24/19	FP313	.....	48K12793...	859	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT...	262	12-33
								.02	.....	Buffer	.B14	.....	.....	.....		.....	.....	.....
49BT1, 49BT2	Vol.	18A12131...	18	MR48.....	M27	.....	.....	23X12223...	19	TC26.. ...	.....	.....	.....	.....	4	1A7G, 1N5G, 1H5G, 1A5G	455	.....
50	Vol.	2336.....	18	UM154-SS11	M26	.....	.....	2317.....	1	TCD62/TC22	.....	2404.....	901M	C3	6	6A7, ‡78, 75, 41, 84..	262	7-2
								.01	.....	Buffer	.B14	.....	.....	.....		.....	.....	.....

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GALVIN MFG. CO.—Continued																		
50W	Vol.	18K19939...	18	MK401	M26			23A19877...	24/19	FP339					5	6A8GT, 6SK7GT, 6SQ7GT, 6K6GT, 80	455	12-25
50X1, 50X2	Vol.	18A14629...	18	UM154-SS22	M26			23A20504...	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-35,36
50XC1, 50XC2, 50XC3, 50XC4	Vol.	18A14629...	18	UM154-SS22	M26			23A20504...	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-35,36
50XH1, 50XH2	Vol.	18A14629...	18	UM154-SS22	M26			23A20504...	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-37
50XW	Vol.	18A14629...	18	UM154-SS22	M26			23A20504...	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-35,36
51	Vol.		83	MR18											5	‡36, 39, 85, 41	175	
51A (Ch. 5A)	Vol.	18A14629...	18	UM154-SS22	M26			23A14615...	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	455	11-15,16
51A (Ch. 5AA)	Vol.	18A14629...	18	UM154-SS22	M26			23A14615...	1	2N509					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-15,16
51C (Ch. 5C)	Vol.	18A14629...	18	UM154-SS22	M26			23A14615...	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	455	11-17
51D	Vol.	18A16143...	18	Order from	Mfr...			23A16139... 23A16138...	24 78	FP214/TC45 .B217 TC605					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 25Z6GT	455	
51D1, 51D2	Vol.	18A16143...	18	Order from	Mfr...			23A16139... 23A16138...	24 78	FP214/TC45 TC605 .B217					5	1A7GT, 1N5GT, 1H5GT, 1Q5GT, 25Z6GT	455	11-14
51F11	Vol.	18K19939	18	MK401	M26			23A27881...	1/19	FP330					5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 5W4GT	455	13-5,6,9
51F12	Vol.	18A14629...	18	UM154-SS22	M26			23A31059... 23A30679... 23A22953...	9/13 9 15	TCD45/TC52 TC45 TC26					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 50Y6GT	455	14-7,18
51R11	Vol.	18A28750...	18	MK401	M26			23A27718...	1/19	FP331					5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 5W4GT	455	13-7,8
15X11, 51X12	Vol.	18A14629...	18	UM154-SS22	M26			23A25508...	1/15	3N527					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-10,12
51X13, 51X14	Vol.	18A14629...	18	UM154-SS22	M26			23A25508...	1/15	3N527					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-11
51X15, 51X16, 51X17	Vol.	18A14629...	18	UM154-SS22	M26			23A25508...	1/15	3N527					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-10,12
51X18	Vol.	18A14629...	18	UM154-SS22	M26			23A25508...	1/15	3N527					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-11
51X19	Vol.	18A14629...	18	UM154-SS22	M26			23A25508...	1/15	3N527					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-12
51X20	Vol.	18A14629...	18	UM154-SS22	M26			23A25508...	1/15	3N527					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-11
52BK, 52BW	Vol.	18K23336...	18	MK402	M27			23A14727...	12	TC22					5	1P5GT, 1A7GT, 1N5GT, 1I5GT, 1Q5GT	455	
52C (Ch. 5C)	Vol.	18A14629...	18	UM154-SS22	M26			23A14615...	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	455	11-17,16
52D	Vol.	18A16143...	18	Order from	Mfr...			23A16139... 23A16138...	24 78	FP214/TC45 .B217 TC605					5	1A7GT, 1N5GT, 1I5GT, 1G5GT, 25Z6GT	455	
52T, 52Y	Vol.	60II37837...	18	MR44											4	1C7G, 1D5G, 1F7G, 1G5G	465	
52T1	Vol.	18A22551...	18	MK401	M26			23A19877...	24/19	FP339					5	6A8GT, 6SK7GT, 6SQ7GT, 41, 80	455	12-25
52XAH1	Vol.	18A14629...	18	UM154-SS22	M26			23A20504...	1	2N509					5	12A8GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-38
53A, 54A (Ch. 5A)	Vol.	18A14629...	18	UM154-SS22	M26			23A14615...	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	455	11-15
53A, 54A (Ch. 5AA)	Vol.	18A14629...	18	UM154-SS22	M26			23A14615...	1	2N509					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-15-18

‡ Data not substantiated.

*IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GALVIN MFG. CO.—Continued																		
53C (Ch. 5C)	Vol.	18A14629...	18	UM154-SS22	M26	.....	.....	23A14615...	1	2N509	.....	.....	.....	.....	5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	455	11-17,16
55	Vol.	531C	56	Order from	Mfr...	.....	.....	88300	24	2N518	.....	625	Order fro	m Mfr.	5	77, ‡78, 75, LA	456	4-9
								830	1/19	TCD62/TC22	.....	.....	.....	.....	.....	.....	.....	.....
								.01	.....	Buffer	B14	.....	.....	.....	.....	.....	.....	.....
56T, 56Y	Vol.	60H37828...	18	Order from	Mfr...	.....	.....	14H37283	1	Order from	Mfr...	59H37825...	246	C3	5	6D8G, 6S7G, 6T7G,		
	Tone	60H37834...	22	MR33	M26	.....	.....	10-10	15	TN111	.....	.....	.....	.....	..	6K6G, 6Z7G	465	.....
								.005	.....	Buffer	B14	.....	.....	.....	.....	.....	.....	.....
56X1, 56XA1, 56XA2, 56XAW	Vol.	18A14629...	18	UM154-SS22	M26	.....	.....	23A20504...	1	2N509	.....	.....	.....	.....	5	12SA7GT, 12SK7GT, 12SQ7GT,		
								23A22953...	15	TC26	.....	.....	.....	.....	..	50L6GT, 35Z5GT	455	.....
57	Vol.	1449	17	UM154-SS15	M26	.....	.....	1540	1/19	TCD62/TC22	.....	1784	253T	C3	5	6A7, 41, 75, 78, 84	456	6-1
								.01	.....	Buffer	B14	.....	.....	.....	.....	.....	.....	.....
57BP1, 57BP2, 57BP3, 57BP4	Vol.	18A20580...	18	MK402	M27	.....	.....	23A20324...	24	FP214	.....	.....	.....	.....	5	1A7GT, 1N5GT,		
								23A20318...	78	TC1505	.....	.....	.....	.....	..	1H5GT, 3Q5GT, 117Z6G	455	12-39,40
57BP1A, 57PB2A, 57BP3A, 57BP4A	Vol.	18K20339...	18	MK402	M27	.....	.....	23A20324...	76	FP214	.....	.....	.....	.....	5	1A7GT, 1N5GT,		
								23A20318...	76	TC1505	.....	.....	.....	.....	..	1H5GT, 3Q5GT, 117Z6G	455	.....
58F1	Vol.	18K19939...	18	MK401	M26	.....	.....	23A19877...	24/13	FP339	.....	.....	.....	.....	5	6A8GT, 6SK7GT, 6SQ7GT, 6V6GT, 5W4GT	455	.....
58FRC	Vol.	18K19939...	18	MK401	M26	.....	.....	23A19877...	24/13	FP339	.....	.....	.....	.....	5	6A8GT, 6SK7GT, 6SQ7GT, 6V6GT, 5W4GT	455	.....
59F1	Vol.	.....	18	MR53	M27	.....	.....	15-10-20	1/19	FP328	B117	.....	.....	.....	5	6A7, 6D6, 75, 6V6G,		
								2	13	TC70	.....	.....	.....	.....	..	80	455	9-22
59K1 (59R5)	Vol.	18A10991...	80	TM238-SS22	.....	.....	.....	23A11336...	1/19	FP339	B117	.....	.....	.....	5	6A7, 6D6, 75, 41, 80	455	9-23,24
	Tone	18A10992...	80	UM160-SS22	M26	.....	A99	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
59T1, 59T3 (59R3, 59R1)	Vol.	18A10847...	18	MR53	M26	.....	.....	23A11519...	24/19	FP357	B10	.....	.....	.....	4	6C6/6A7, 6D6, 75,		
								23A10846...	24/19	TN129	.....	.....	.....	.....	..	25A7G, M73B	455	9-25,26
59T2, 59T4 (59R2, 59R4)	Vol.	18A10847...	18	MR53	M26	.....	.....	23K11087...	1/19	FP328	B117	.....	.....	.....	5	6A7, 6D6, 75, 41, 80	455	9-27
59T5 (59R5)	Vol.	18A10991...	80	TM238-SS22	.....	.....	.....	23A11336...	1	FP339	B117	.....	.....	.....	5	6A7, 6D6, 75, 41, 80	455	9-23
	Tone	18A10992...	80	UM160-SS22	M26	.....	A99	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	Vol.	2166	18	UM154-SS10	M26	.....	.....	2188	1	2S567	.....	2404	901M	C3	6	‡78, 6A7, 75, 6B5, 84	262	7-3,6
								.008	.....	Buffer	B14	.....	.....	.....	.....	.....	.....	.....
60X1, 60X2	Vol.	18A14629...	18	UM154-SS22	M26	.....	.....	23A20504...	1	2N509	.....	.....	.....	.....	6	‡12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-41
60XA1, 60XA2	Vol.	18A14629...	18	UM154-SS22	M26	.....	.....	23A20504...	1	2N509	.....	.....	.....	.....	6	‡12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-42
60XW	Vol.	18A14629...	18	UM154-SS22	M26	.....	.....	23A20504...	1	2N509	.....	.....	.....	.....	6	‡12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-41
60XW3	Vol.	18A14629...	18	UM154-SS22	M26	.....	.....	23A20504...	1	2N509	.....	.....	.....	.....	6	12SJ7GT, 12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	.....
61	Vol.	511	83	MR48	.....	.....	.....	8200 L or W	1	TC71	.....	538	Order fro	m Mfr.	5	‡36, 39, 85, 41	175	3-15
								.1	.....	Buffer	B14	.....	.....	.....	.....	.....	.....	.....
61A (Ch. 6A)	Vol.	18K14681...	18	MK401	M26	.....	.....	23A14615...	1	2N509	.....	.....	.....	.....	5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-18
61B (Ch. 6B)	Vol.	18K14681...	18	MK401	M26	.....	.....	23A14615...	1	2N509	.....	.....	.....	.....	5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-19
61C (With R.F. Stage)	Vol.	18K15058...	18	MK401	M26	.....	.....	23A15246...	1/19	FP339	B117	.....	.....	.....	6	‡6D6, 6A7, 75, 41, 80	455	11-20
61CA (With Separate Osc.)	Vol.	18K15058..	18	MK401	M26	.....	.....	23A15246...	1/19	FP339	B117	.....	.....	.....	6	6A7, 6D6, 75, 41, 80,		
	Tone	18A16083...	22	UM160-SS25	.....	.....	A99	.....	.....	.....	.....	.....	.....	.....	..	76	455	11-21
61D (With R. F. Stage)	Vol.	18K15058...	18	MK401	M26	.....	.....	23A15246...	1/19	FP339	B117	.....	.....	.....	6	‡6D6, 6A7, 75, 41, 80	455	11-20
61D (With Loop)	Vol.	18K15058...	18	MK401	M26	.....	.....	23A15246...	1/19	FP339	B117	.....	.....	.....	6	6A7, 6D6, 75, 76, 41,		
	Tone	18A16083...	22	UM160-SS25	.....	.....	A99	.....	.....	.....	.....	.....	.....	.....	..	80	455	11-22,23
61DA (With Separate Osc.)	Vol.	18K15058...	18	MK401	M26	.....	.....	23A15246...	1/19	FP339	B117	.....	.....	.....	6	6A7, 6D6, 75, 41, 76,		
	Tone	18A16083...	22	UM160-SS25	.....	.....	A99	.....	.....	.....	.....	.....	.....	.....	..	80	455	11-21
61E (Ch. 6E)	Vol.	18K14681...	18	MK401	M26	.....	.....	23A14615...	1	2N509	.....	.....	.....	.....	5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-24
61F	Vol.	18K15058...	18	MK401	M26	.....	.....	23A15284...	11	FP360	.....	.....	.....	.....	6	6A7, 6D6, 6Q7GT,		
								23A15291...	11	TC45	.....	.....	.....	.....	..	‡25B6G, 25Z5	455	12-32
61F21	Vol.	18K26678..	18	MK401	M26	.....	.....	23A27718...	1/19	FP331	.....	.....	.....	.....	6	6SD7GT, 6J5GT, 6SK7GT, 6SQ7GT, 6K6GT, 5Y3G	455	13-9, 15,16
61K21	Vol.	18K26678..	18	MK401	M26	.....	.....	23A27718...	1/19	FP331	.....	.....	.....	.....	6	6SD7GT, 6SK7GT, 6J5GT, 6SQ7GT, 6K6GT, 5Y3G	455	13-19-22

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GALVIN MFG. CO.—Continued																		
61L11, 61L12	Vol.	18A25882	18	UM161-SS18	M26			23A25889 23A25888	76 78	FP357 TC2501					6	[2]1N5GT, 1A7GT, 1H5GT, 3Q5GT, 117Z6GT	455	14-15,17
61T21	Vol.	18K26678	18	MK401	M26			23A27718	1/19	FP331					6	6SD7GT, 6J5GT, 6SK7GT, 6SQ7GT, 6K6GT, 5Y3G	455	13-17,18
61T22	Vol.	18K26678	18	MK401	M26			23A27718	1/19	FP331					6	6SD7GT, 6J5GT, 6SK7GT, 6SQ7GT, 6K6GT, 5Y3G	455	13-19,20
61T23	Vol.	18K26678	18	MK401	M26			23A27718	1/19	FP331					6	6SJ7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 5Y3GT	455	13-23-25
61X11, 61X12, 61X13, 61X15, 61X16, 61X17	Vol.	18A14629	18	UM154-SS22	M26			23A20504	1	2N509					6	12SJ7GT, 12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-16,17
61X14	Vol.	18A14629	18	UM154-SS22	M26			23A20504	1	2N509					6	12SJ7GT, 12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-26
61XW	Vol.	18A14629	18	UM154-SS22	M26			23A20504	1	2N509					6	[2]12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-42
62	Vol.	1449	17	UM154-SS15	M26			1540 .01	1/19	TCD62/TC22 Buffer	B14	1784	253T	C3	5	6A7, 41, 75, 78, 84	456	6-1
62A (Ch. 6A)	Vol.	18K14681	18	MK401	M26			23A14615	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-18
62B (Ch. 6B)	Vol.	18K14681	18	MK401	M26			23A14615	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-16-19
62E (Ch. 6E)	Vol.	18K14681	18	MK401	M26			23A14615	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-16,24
62F1	Vol.	18A21176	18	TM230-SS25	M26			23A14963	1/19	FP339					6	[2]6SK7GT, 6A8GT, 6SQ7GT, 41, 80	455	12-45,46
62L	Vol.	18K15058	18	MK401	M26			23A15246	1/19	FP339					6	[2]6D6, 6A7, 75, 41, 80	455	12-43
	Tone	18A16083	22	UM160-SS25			A99											
62L11, 62L12	Vol.	18A25882	149	UM161-SS18	M27			23A25889 23A25888	76 78	FP357 TC2501					6	[2]1N5GT, 1A7GT, 1H5GT, 3Q5GT, 117Z6GT	455	13-27, 21,22
62T1	Vol.	18A21176	18	TM230-SS25	M26			23A14963	1/19	FP339					6	[2]6SK7GT, 6A8GT, 6SQ7GT, 41, 80	455	12-44
	Tone	18A21481	‡	UM160-SS25														
62T2	Vol.	18K26678	18	MK401	M26			23A14963	1/19	FP339					6	[2]6SK7GT, 6A8GT, 6SQ7GT, 41, 80	455	
63A (Ch. 6A)	Vol.	18K14681	18	MK401	M26			23A14615	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-16,18
63E (Ch. 6E)	Vol.	18K14681	18	MK401	M26			23A14615	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-16,24
65	Vol.	3264	18	UM154-SS19	M26			3345 .01	1	2N518 Buffer	B14		901M	C3	6	[2]78, 6A7, 75, 6AB6G, 0Z4/6X5G	262	8-17
65BP1, 65BP2, 65BP3, 65BP4	Vol.	18K20339	18	MK402	M27			23A20324 23A20318 23A14828	76 76 78	FP214 TC1505 TC26					6	1P5GT, 1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6G	455	12-37
65BP1A, 65BP2A, 65BP3A, 65BP4A	Vol.	18K20339	18	MK402	M27			23A20318 23A20324 23A22953	76 76 78	TC1505 FP214 TC26					6	1P5GT, 1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6G	455	
66	Vol.		17	Order from	Mfr			8420	1	TCD71			270B		6	77,[2]78, 85,[2]12A5	456	4-10
	Tone		44	MR39														
69K1 (69R1)	Vol.	18A10991	80	TM238-SS22				23K11357	25	FP339	B117				6	6A7, 6D6, 6Q7G,[3]42, 80	455	9-28,29
	Tone	18A10992	80	UM160-SS22	M26		A99											
70	Vol.	3274	18	UM154-SS19	M26			3346 .005	4	2S567 Buffer	B14	3316	901M	C3	6	[2]78, 6A7, 75, 42, 0Z4/6X5G	262	8-18
71A	Vol.	18A17041	80	TM231-SS25	M26			23A16805	9	Order from	Mfr				7	6A7, 6D6, [2]6SQ7GT, [2]25B6G, 25Z5	455	
	Tone	18A16083	80	UM160-SS25			A99	23A15291	9	TC45								
72C	Vol.	18A17425	80	TM251-SS25	M26			23A17422	24	FP331	B192				7	6A8GT, 6K7GT, [2]6SQ7GT, [2]6V6G, 5W4GT	455	
	Tone	18A16083	80	UM160-SS25			A99											
75	Vol.	1466	18	UM154-SS15	M26			1465 or 1468 .01	1/19	TCD62/TC22 Buffer	B14	1784	253T	C3	6	[2]78, 77, 75, 41, 84	262	6-1,2
77	Vol.	531C	17	Order from	Mfr			8300A 8300B 6530 .01	4 4 19	TC71 TC71 TC39 Buffer	B14	735	Order from	Mfr.	7	[2]39, 77, 75,[2]LA	456	4-11,15
77A	Vol.		56	Order from	Mfr			8420	1	TCD71		852	270B		7	[2]12A5, 77,[2]78, 85	456	4-12
	Tone		44	MR39														
78	Vol.		15	MR48											7	[2]36,[2]38, 39, 85, 37	175	
79	Vol.	1466	56	UM154-SS15	M26			1468 or 1465 .01	1/19	TCD62/TC22 Buffer	B14	1784	253T	C3	6	[2]78, 77, 75, 41, 84	262	6-1,2
80	Vol.	2168	55	UM154-SS10	M26			2185	1	3S579		2404	901M	C3	8	[2]6K7, 6A8, 6H6, 6C5, [2]6N6, 0Z4	262	7-4,7
	Tone		76	Order from	Mfr			.005		Buffer	B14							
81C (Cylindrical Loop)	Vol.	18A15332	18	TM233-SS25	M26			23A14963	1/19	FP339					8	6A7, 6D6, 76, [2]6Q7G, [2]41, 80	455	11-25
	Tone	18A16083	22	UM160-SS25			A99											

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GALVIN MFG. CO.—Continued																		
81C (Square Loop)	Vol.	18A15332...	18	TM233-SS25	M26	.....	.....	23A14963...	1/19	FP339	.....	.....	.....	.....	8	6A7, 6D6, 76, [2]6Q7G, [2]41, 80	455	11-26
	Tone	18A16083...	22	UM160-SS25	.....	.....	A99	.....	.....	.....	.....	.....	.....	.....	..	117Z6GT	455	21,22
81F21	Vol.	18A22065...	139	TM238-SS25	M26	.....	.....	23A27718...	1/19	FP331	.....	.....	.....	.....	8	6SD7GT, 6SK7GT, [2]6SQ7GT, [2]6F6G, 5Y3G, 6J5GT	455	13-25, 29,30
	Tone	18A28062...	139	Order from	Mfr...	.....	.....	.....	.....	.....	.....	.....	.....	.....	..			
81K31	Vol.	18A21724...	139	TM238-SS25	.....	.....	.....	23A27718...	1/19	FP331	.....	.....	.....	.....	8	6SJ7GT, 6SA7GT, 6SK7GT, [2]6SQ7GT, [2]6F6G, 5Y3G	455	13-31,32
	Tone	18A21725...	139	UM160-SS25	M26	.....	.....	.....	.....	.....	.....	.....	.....	.....	..			
82A	Vol.	18A14938...	18	TM233-SS25	.....	.....	.....	23A14963...	1/19	FP339	.....	.....	.....	.....	8	6A7, 6D6, [2]6Q7G, [2]41, [2]84	455	11-27-30
	Tone	18K14937...	22	UM160-SS25	M26	.....	A99	23A11981...	‡	Order from	Mfr...	.....	.....	.....	..			
83F1	Vol.	18A22065...	140	TM238-SS25	M26	.....	.....	23A14963...	1/19	FP339	.....	.....	.....	.....	8	[2]12SK7GT, 12A8GT, [2]12SQ7GT, [2]42, 80	455	12-49
	Tone	18A21481...	140	UM160-SS25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..			
83K1	Vol.	18A21724...	140	TM238-SS25	.....	.....	.....	23A14963...	1/19	FP339	.....	.....	.....	.....	8	[2]12SK7GT, 12A8GT, [2]12SQ7GT, [2]42, 80	455	12-50-52
	Tone	18A21725...	140	UM160-SS25	M26	.....	.....	.....	.....	.....	.....	.....	.....	.....	..			
88	Vol.	511	15	MR48	.....	.....	.....	8200 L or W	1	TC71	.....	537	Order from	Mfr.	7	[2]36, 39, 85, 37, [2]38	175	3-10,14
								.05	.....	Buffer	B14	.....	.....	.....	..	.....	.....	.....
89K1, 89K2 (89R1)	Vol. &	18A11423 or	18															
	Tone	18A11781...	80	Order from	Mfr...	.....	.....	23A10045...	1	RS224	.....	.....	.....	.....	8	[2]6D6, 6A7, [2]75, [2]42, 80	455	9-31,32
								23A10044...	1	RS224	.....	.....	.....	.....	..		.....	11-33-36
89K3	Vol.	18A11645...	80	MRT438...	.....	.....	.....	23A11951...	25	FP146	.....	.....	.....	.....	8	6A7, 6D6, [2]75, [2]42, 80, 76	455	11-36
	Tone	18A11953...	80	UM160-SS1	.....	.....	A99	23A10044...	25	RS224	.....	.....	.....	.....	..			
93F1	Vol.	18A22493...	124	TM236-SS25	M26	.....	.....	23A22501...	1/19	FP346	.....	.....	.....	.....	9	[2]12SK7GT, 12A8GT, [2]12SQ7GT, [2]42, 80	455	12-55,56
	Tone	18A21481...	22	UM160-SS25	.....	.....	.....	23A11710...	13	TC62	.....	.....	.....	.....	..			
100	Vol.	1399	77	UM154-SS11	M26	.....	.....	1388	1/19	3S579	.....	1784	253T	C3	8	[2]78, 77, 85, 76, [2]LA, 84	262	6-2,5
								.01	.....	Buffer	B14	.....	.....	.....	..	.....	.....	.....
101C31	Vol.	18A22010...	140	TM238-SS25	.....	.....	.....	23A14963...	1/15	FP339	.....	.....	.....	.....	10	6SJ7GT, 6A8GT, [2]6J5GT, 6SK7GT, [2]6SQ7GT, [2]6V6G, 5Y3G	455	13-33,34
	Tone	18A22090...	140	UM160-SS25	.....	.....	.....	23A11710...	13	TC62	.....	.....	.....	.....	..			
101F21, 101F22	Vol.	18A22065...	140	TM238-SS25	M26	.....	.....	23A27718...	1	FP331	.....	.....	.....	.....	10	6SJ7GT, 6SA7GT, 6SK7GT, [2]6SQ7GT, [2]6P5GT, [2]6AC5GT, 5Y3G	455	14-29, 30,33,44
	Tone	18A21481...	140	UM160-SS25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..			
101R21	Vol.	18A22065...	140	TM238-SS25	M26	.....	.....	23A27718...	1	FP331	.....	.....	.....	.....	9	6SJ7GT, 6SA7GT, 6SK7GT, [2]6SQ7GT, 6AE7GT, [2]6AC5GT, 5Y3	455	14-31, 32,34
	Tone	18A21481...	140	UM160-SS25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..			
103F1	Vol.	18K22590...	124	TM234-SS25	M26	.....	.....	23A22051...	1	FP346	.....	.....	.....	.....	10	[2]6SK7GT, 6A8GT, 6J5GT, [2]6SQ7GT, [2]6V6G, 80	455	12-56,57
	Tone	18A21481...	22	UM160-SS25	.....	.....	.....	23A11710...	13	TC62	.....	.....	.....	.....	..			
103F2	Vol.	18K22590...	124	TM234-SS25	M26	.....	.....	22A22051...	1	FP346	.....	.....	.....	.....	10	[2]6SK7GT, 6A8GT, [2]6J5GT, [2]6V6G, [2]6SQ7GT, 80	455	12-56-58
	Tone	18A21481...	22	UM160-SS25	.....	.....	.....	23A11710...	13	TC62	.....	.....	.....	.....	..			
103K1	Vol.	18A22010...	140	TM238-SS25	.....	.....	.....	23A14963...	1/19	FP339	.....	.....	.....	.....	10	[2]6SK7GT, 6A8GT, [2]6J5GT, [2]6SQ7GT, [2]6V6G, 80	455	12-52,53
	Tone	18A22009...	140	UM160-SS25	M26	.....	.....	23A11710...	13	TC62	.....	.....	.....	.....	..			
103CK2	Vol.	18A22010...	140	TM238-SS25	.....	.....	.....	23A14963...	1/15	FP339	.....	.....	.....	.....	10	[2]6SK7GT, 6A8GT, [2]6J5GT, [2]6SQ7GT, [2]6V6G, 80	455	12-52,54
	Tone	18A22090...	140	UM160-SS25	M26	.....	.....	23A11710...	13	TC62	.....	.....	.....	.....	..			
109K1	Vol.	18A11645...	80	MRT440...	.....	.....	.....	23A10045...	25	RS224	.....	.....	.....	.....	10	[2]6K7G, 6J5G, 6A8G, 6I16G, 6Q7G, [2]6F6G, 5Z3, 6U7G	455	.....
	Tone	18A11871...	80	UM160-SS1	.....	.....	A99	23A10044...	25	RS224	.....	.....	.....	.....	..			
								23A11710...	14	TC62	.....	.....	.....	.....	..			
								23K12069...	‡	TC29	.....	.....	.....	.....	..	.....	.....	.....
								23A11981...	‡	Order from	Mfr...	.....	.....	.....	..	.....	.....	.....
								23K12220...	‡	WP041	B128	.....	.....	.....	..	.....	.....	.....
109K2	Vol.	18A11780...	140	MRT440...	.....	.....	.....	23A10045...	25	RS224	.....	.....	.....	.....	10	[2]6K7G, 6A8G, 6I16G, 6Q7G, 6V7G, [2]6F6G, 5Z3, 6U5G	455	11-37-40
	Tone	18A11871...	140	UM160-SS1	.....	.....	A99	23A10044...	25	RS224	.....	.....	.....	.....	..			
								23A11710...	14	TC62	.....	.....	.....	.....	..			
								23K12069...	‡	TC29	.....	.....	.....	.....	..	.....	.....	.....
								23A11981...	‡	Order from	Mfr...	.....	.....	.....	..	.....	.....	.....
								23K12220...	‡	WP041	B128	.....	.....	.....	..	.....	.....	.....
110	Vol.	.....	18	UM154-SS11	M26	.....	.....	1388	1/19	3S579	.....	1784	253T	C3	8	[2]78, 77, 85, 37, [2]LA, 84	262	6-2,3
								.01	.....	Buffer	B14	.....	.....	.....	..	.....	.....	.....
250	Vol.	18A18652...	18	Order from	Mfr...	.....	.....	23A17738...	24/19	FP328	.....	48K12312...	859	C3	6	[2]6K7GT, 6A8GT, 6Q7GT, 6K6GT, 0Z4/6X5	455	12-59,60
								.006	.....	Buffer	B14	.....	.....	.....	..			
251	Vol.	18A18652...	18	Order from	Mfr...	.....	.....	23A22738...	24/19	FP313	.....	48K12793...	859	C3	6	[2]6SK7GT, 6SA7GT, 6SQ7GT, 6U6GT, 6X5GT	455	12-61,62
								.02	.....	Buffer	B14	48K12711...	859	C3	..			
300	Vol.	18A17767...	18	Order from	Mfr...	.....	.....	23A17738...	24/19	FP328	.....	48A3333...	859	C3	6	[2]6K7GT, 6A8GT, 6Q7GT, 6K6GT, 0Z4	262	11-45
								.01	.....	Buffer	B14	48A5067...	859	C3	..			
301	Vol.	18A17767...	18	Order from	Mfr...	.....	.....	23A22738...	24/19	FP313	.....	48A5333...	859	C3	6	[2]6SK7GT, 6SA7GT, 6SQ7GT, 6U6GT, 6X5GT	262	12-63
								.02	.....	Buffer	B14	48A5067...	859	C3	..			
350	Vol.	18A19113...	18	TM233-SS19	M26	.....	.....	23A17738...	24/19	FP328	.....	48K12312...	859	C3	6	[2]6K7GT, 6A8GT, 6Q7GT, 6K6GT, 0Z4	262	11-46,47
								.006	.....	Buffer	B14	48K12793...	859	C3	..			
351	Vol.	18A19113...	18	TM233-SS19	M26	.....	.....	23A22738...	24/19	FP313	.....	48A5333...	859	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT	262	12-64
								.02	.....	Buffer	B14	48A5067...	859	C3	..			

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GALVIN MFG. CO.—Continued																		
400	Vol.	18K17853...	18	.....‡.....	.....	.....	A3	23A17738... .006.....	24/19	FP328..... Buffer.....	..... .B14	48A3333....	859	C3	7	[3]6K7GT, 6A8GT, 6Q7GT, [3]6K6GT, 0Z4.....	262	11-48
401	Vol.	18A17767...	18	Order from	Mfr...	.....	.....	23A17738... .01.....	24/19	FP328..... Buffer.....	..... .B14	48A5333....	859	C3	7	6SD7GT, 6SA7GT, 6SK7GT, 6Q7GT, [3]6K6GT, 6X5GT...	262	12-65
450	Vol.	1K19343....	18	UM154-SS28	M26	.....	.....	23A17190... .007.....	1	FP389..... Buffer.....	.B192 .B14	48A3333....	859	C3	7	6SK7GT, 6SA7GT, 6K7GT, 6SQ7GT, [3]6K6GT, 0Z4/6X5..	262	11-49,50
451	Vol.	18A17767...	18	Order from	Mfr...	.....	.....	23A22738... .02.....	24/15	FP313..... Buffer.....	..... .B14	48K12793...	859	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT..	262	12-66
496BT1	Vol.	18A12156...	18	MR48.....	M26	.....	.....	23A11959... .03.....	24/15	FP357..... Buffer.....	..... .B14	48X12412...	246A	C3	4	6D8G, 6S7G, 6T7G, 6G6G.....	455	.....
500	Vol.	18A19341...	18	UM154-SS28	M26	.....	.....	23A17190... .01.....	24	FP339..... Buffer.....	.B192 .B14	48A3333.... 48A5067....	859 859	C3 C3	7	[3]6K7GT, 6A8GT, 6Q7GT, [3]6K6GT, 0Z4/6X5.....	262	12-67,68
501	Vol.	1K19343....	18	UM154-SS28	M26	.....	.....	23A17190... .01.....	1	FP339..... Buffer.....	.B192 .B14	48K11026...	901M	C3	7	6SD7GT, 6SA7GT, 6SK7GT, 6Q7GT, [3]6K6GT, 0Z4.....	262	12-69
550	Vol.	1A20435....	18	.....‡.....	.....	.....	A3	23A17738... .01.....	24/19	FP328..... Buffer.....	..... .B14	48A5333.... 48A5067....	859 859	C3 C3	6	[3]6SK7GT, 6A8GT, 6SQ7GT, 6K6GT, 0Z4.....	262	12-70
550A	Vol.	1A20435....	18	.....‡.....	.....	.....	A3	23A22738... .02.....	24/19	FP313..... Buffer.....	..... .B14	48A5067.... 48A5333....	859 859	C3 C3	6	6SD7GT, 6A8GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT/0Z4	262	.....
551	Vol.	18A17767...	18	Order from	Mfr...	.....	.....	23A23651... .007.....	46	FP390..... Buffer.....	..... .B14	48K11026...	901M	C3	8	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6J5GT, [3]6V6GT, 0Z4.....	262	12-71
700	Vol. Tone	1K19085.... 1K19085....	18 75	.....‡..... .....‡.....	....	....	A3 A3	23A17190... .005.....	1	FP339..... Buffer.....	.B192 .B14	48K11026...	901M	C3	8	[3]6K7GT, 6A8GT, 6SQ7GT/6H6GT, 6Q7GT, [3]6V6GT, 0Z4/6X5.....	262	12-73,74
701	Vol.	1K19343...	18	UM154-SS28	M26	.....	.....	23A17190... .005.....	1	FP339..... Buffer.....	.B192 .B14	48K11026...	901M	C3	8	6SD7GT, 6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, [3]6V6GT, 0Z4.....	262	12-72
GAMBLE SKOGMO																		
A1	Vol. Tone	36X235.... 40X223....	45 34	MR48..... MR42.....	M26	....	....	44X31..... 44X35.....	23 23	HD684..... RS224.....	....	....	....	....	8	6J7, 6K7, 6C5, 6H6, 6G5, 6F5, 6F6, 5Y3G, or 6J7G, 6U7G, 6C5G, 6H6, 6G5, 6F5G, 6F6G, 5Y3G.....	456	.....
A2	Vol. Tone	36X236.... 40X224....	75 34	MRT428... MR53.....	M26	....	....	44X30..... 44X11..... 45X223.... 45X222....	25 25 13 19	RS216..... RS216..... TC52..... TC26.....	....	....	....	....	11	[3]6K7, [3]6J7, [3]6C5, 6H6, 6G5, [3]6F6, 5Y3G, or [3]6U7G, [3]6J7G, [3]6C5G, 6H6, 6G5, [3]6F6G, 5Y3G.....	456	.....
A3	Vol. Tone	36X238.... 40X225....	20 65	MRT450... MR55.....	M26	....	....	44X21..... 44X36..... 45X224.....	25 25 ‡..	RS223..... RS224..... TC26.....	....	....	....	....	13	[3]6K7, 6J7, [3]6C5, 6H6, 6G5, [3]6L6, [3]5Y3G, or [3]6U7G, 6J7G, [3]6C5G, 6H6, 6G5, [3]6L6G,[3]5Y3G.....	456	.....
A6	Vol. Tone	36X238.... 40X225....	20 65	MRT450... MR55.....	M26	....	....	44X21..... 44X36..... 45X224.....	25 25 ‡..	RS223..... RS224..... TC22.....	....	....	....	....	13	[3]6K7, 6J7, [3]6C5, 6H6, 6G5, [3]6L6, [3]5Y3G, or [3]6U7G, 6J7G, [3]6C5G, 6H6, 6G5, [3]6L6G,[3]5Y3G.....	456	.....
C4B15	Vol.	101250.....	149	MK402....	M27	.....	.....	119-117B...	12	TC44.....	.....	.....	.....	.....	4	1A7GT, 1N5GT, 1H5GT, 3Q5GT...	455	13-1,2
C4B16	Vol.	101250.....	149	MK402....	M27	.....	.....	119-117B...	12	TC44.....	.....	.....	.....	.....	4	1A7GT, 1N5GT, 1H5GT, 3Q5GT...	455	13-1,2
C5D14	Vol.	101272.....	18	MK401....	M26	.....	.....	119-92..... 119-93.....	24 24	FP354..... FP214.....	.B69 .B12	.....	.....	.....	5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT..	455	13-3,4
C5D15	Vol.	101265.....	18	MK402....	M26	.....	.....	119134.....	24/15	2N514/TC29	.....	.....	.....	.....	5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT..	455	13-5,6
C5D16	Vol.	101266.....	18	MK401....	M26	.....	.....	11994..... 11995.....	1 1	FP357..... Order from Mfr.....	..... .B12	.....	.....	.....	5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT..	455	13-7,8
C6D11 (Series A)...	Vol.	101274.....	18	MK402....	M26	.....	.....	119135.....	46	TN129.....	.....	.....	.....	.....	6	12SA7,[3]12SK7,12SQ7, 35L6GT, 35Z5GT..	455	13-9,10
C6D11 (Series B)...	Vol.	101274.....	18	MK402....	M26	.....	.....	119135.....	46	TN129.....	.....	.....	.....	.....	6	12SA7,[3]12SK7,12SQ7, 35L6GT, 35Z5GT..	455	14-1
C6D13 (Series A)...	Vol.	101274.....	18	MK402....	M26	.....	.....	119135.....	1	TN129.....	.....	.....	.....	.....	6	12SA7,[3]12SK7,12SQ7, 35L6GT, 35Z5GT..	455	14-2
C6D16 (Series A)...	Vol.	101274.....	18	MK402....	M26	.....	.....	119135.....	1	TN129.....	.....	.....	.....	.....	6	12SQ7,12SA7,[3]12SK7, 35L6GT, 35Z5GT..	455	14-3,4
C6D18 (Series A)...	Vol.	101211.....	18	MK402....	M26	.....	.....	11994.....	46	FP357.....	.....	.....	.....	.....	6	[3]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT..	455	14-4,5

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAMBLE-SKOGMO—Continued																		
C11A54 (Series A)	Vol.	101275	15	UM165-SS25				119112	46	FP429					11	1/2 6SK7, 6SA7, 1/2 6SQ7, 6J5GT, 1/2 6V6GT, 5Y3G, 6U5	455	I4-6,7
	Tone	125180	22	Order from	Mfr.			119112B	46	FP429								
C11A55 (Series A)	Vol.	101275	15	UM165-SS25				11969	15	TC74					11	1/2 6SK7, 6SA7, 1/2 6SQ7, 6J5GT, 1/2 6V6GT, 6U5, 5Y3G	455	14-6,7
	Tone	125180	22	Order from	Mfr.			119112	46	FP429								
C12A51	Vol.	101229	15	MK401				119112B	46	FP429					12	1/2 6SK7, 6SA7, 1/2 6SQ7, 6J5GT, 6U5, 1/2 6V6GT, 5Y3G	455	14-7, 9,10
								11969	13	TC74								
C579	Vol.	101110	18	MK402	M26			119105	24/15	FP339		1267	294	C24	5	6SA7, 6SK7, 6SQ7, 6K6G, 6X5G	465	
C590	Vol.	101252	149	MK402	M27			.005		Buffer	B14							
								119123	76/78	Order from	Mfr.				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	455	13-15,16
06A	Vol.	96001	97	TRP602				P80968	12	TC52					5	32, 1/2 34, 19, 30	175	7-3
07A	Vol.		15	MR53	M26			P80990	25	RS216					7	1/2 6D6, 6C6, 1/2 37, 42, 80	175	7-4
	Tone		22	MR42				P80916	25	RS213								
S200	Vol.	N3152	6	UM128-SS25				8	15	TC22	B10							
								N2174	24/15	3N533					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT		13-13
2-ODM-578	Vol.		7/15	DRP315	6T			44X10	4	RS216					10	1/2 6K7, 1/2 76, 1/2 45, 80	456	7-49,50
	Tone		65	MR57				44X11	4	RS216								
								44X18	13	RS213								
5Y	Vol.	P96017	17	MR55	M26			P82002	1/15	2N516/TC22		P2229	286S	C3	5	1/2 6D6, 6C6, 75, 41	175	7-1,2
								.007		Buffer	B14		G286S	C16				
6C1	Vol.	36X234	18	UM147-SS3	M26			45X210	4	TCS71		19A25	294	C3	6	1/2 6D6, 6C6, 75, 41, 84	175	8-1,2
	Tone	40X207	22	MR42				.0075		Buffer	B14							
6C9	Vol.		15	UM154			A96	40	24	See Note	B3	19A33	248	C3	6	1/2 6SK7, 6SA7, 6H6, 6V6G	456	12-1,2
								20-20	24/15	TC47/TC26								
								.008		Buffer	B14							
6D	Vol.	36X213	18	MR48	M26			P44X25	12	RS207					6	1/2 6D6, 6A7, 85, 43, 6A6	175	10-1,2
	Tone	40X209	44	MR36				P45X207	15	TC22								
6J Series	Vol.	36X233	56	Order from	Mfr.			45X219	1/15	3S579			248	C3	6	1/2 6K7, 6J7, 6B7, 41, 6A6	175	8-3,6
	Tone	40X212	22	MR55				.0055		Buffer	B14							
6K	Vol.	36X217	56	Order from	Mfr.			P45X211	1	3S584/TC22	B8	P19A26	248	C3	6	1/2 6K7, 6J7, 6B7, 41, 6A6	175	9-1,2
	Tone	40X212	22	MR55				.005		Buffer	B14							
6L	Vol.	36X216	18	UM154-SS3	M26			P45X210	4	TCS71		P19A25	294	C3	6	1/2 6D6, 6C6, 75, 41, 84	175	
	Tone	40X207	22	MR42				.0075		Buffer	B14							
6U	Vol.	P96015	18	UM147-SS3	M26			P81028	1	2N518		2080	253	C3	6	1/2 78, 77, 75, 41, 84	262.5	7-5
	Tone	P97012	22	MR42				P81021	15	TN111								
								.01		Buffer	B14							
7J512, 7J574	Vol.		56	MR48				44X11	23	RS216					7	1/2 6D6, 76, 6B7, 42, 80	456	7-6,8
	Tone		34	MR42				44X10	23	RS216								
11A24	Vol.	101270	18	MK401	M26			119124	1/13	FP444	B69				11	1/2 6SK7, 6SA7, 1/2 6SQ7, 6J5GT, 6U5, 1/2 6F6G, 5Y3G	455	13-11,12
	Tone	101271	22	MK402														
11B	Vol.	17677	15	MR48	M26			17644	1	RS216					11	1/2 6K7, 6A8, 1/2 6C5, 6F5, 6G5, 1/2 6L6, 1/2 5Y3	456	8-7
	Tone	17678	130	MR48				17645	1	RS216								
								17672	14	TC52								
								17080	15	TC22								
15C6	Vol.		15	UM163	M26		A96	45X236	24/15	TCS64/TC26		19A32	952W	C3	5	6A8G, 6U7G, 6H6, 6F5G, 6K6G	456	10-3,4
								45X239	15	TC22								
								.018		Buffer	B14							
20C7, 20C8	Vol.	P96005	45	MR55	M26			P81039	2	RS216					10	1/2 6D6, 1/2 76, 1/2 45, 80	456	6-1,2
	Tone	P97003	41	MR57				P81018	12/13	3S584								
22CM576	Vol.	36X210	7/15	DRP315	6T			P44X21	25	RS223					12	1/2 6K7, 1/2 76, 1/2 6F6, 1/2 80	456	7-11,13
	Tone	40X206	22	MR57				P44X11	25	RS216								
								P44X20	19	Order from	Mfr.							
26B5	Vol.	P96014	56	MR48	M26			P81016	23	TCS71		P2153	F294	C3	6	6F7, 6D6, 6B7, 12A5, 1/2 12Z3	175	7-15,16
	Tone	P97011	34	MR42				.015		Buffer	B14							
26FM552	Vol.	36X212	7/15	Order from	Mfr.			P44X22	3	RS223					16	1/2 6K7, 1/2 76, 6B7, 6F7, 1/2 2A3, 45, 1/2 5Z3	456	7-16,22
	Tone	40X208	34	MR55				P44X23	13	RS224								
								P45X205	13/‡	TCS71/TC55								
								P44X26	13	TC65								
26R1	Vol.	36X200	17	UM147-SS3	M26			E45X206C	4/15	3S579		P19A25	294	C3	6	1/2 6D6, 6C6, 75, 41, 84	175	7-23,24
	Tone	40X207	34	MR42				.0075		Buffer	B14							
26S1	Vol.	36X200	17	UM147-SS3	M26			45X204C	1	2S567		2080	253	C3	6	1/2 6D6, 6C6, 75, 41, 84	175	6-3,4
	Tone	40X201	22	MR44				45X203C	15	TN111								
								.01		Buffer	B14							
27C1, 27C5	Vol.	P96012	45	MR55				P81014	12	TCS55					7	1/2 34, 1/2 30, 19	175	6-7,8
30A	Vol.	1835	6	SRP263	6	EX200		1258	25	RS213					4	6D6, 6C6, 42, 80		7-91
								1260	25	RS213								
								8876	15	TC22								
31BT	Vol.	2198	45	UM154-SS16				2272	1	TCD55		2269	245A	C3	6	1C6, 1/2 34, 1/2 30, 19	465	7-27,28
	Tone	2282	22	MR33	M27			.02		Buffer	B14							
34BT	Vol.	2260	18	MR48	M27			2272	1	TCD55		2269	245A	C3	4	1C6, 34, 1B5, 38	465	7-29,30
	Tone	2239	57	MR48				8876	15	TC22								
								.02		Buffer	B14							
36L	Vol.	2055	18	MR48	M26										6	6A7, 6D6, 75, 76, 48	465	7-31,32
	Tone	2162	44	MR29														
42DL670	Vol.	36X221	45	MRT450	M26			30	2	RS223					13	1/2 6K7, 1/2 6C5, 6H6, 6G5, 1/2 6L6, 1/2 5Z4MG	456	8-9,11
	Tone	40X214	65	Order from	Mfr.			12	2	RS215								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAMBLE-SKOGMO—Continued																		
46L1	Vol.	36X216	18	UM154-SS3	M26			45X210	4	TCS71		19A25	294	C3	6	§6D6, 6C6, 75, 41, 84	175	7-33,34
	Tone	40X207	22	MR42				.0075		Buffer	B14							
47LL	Vol.	36X215	17	MRT446	M26			14	23	RS216					8	§6K7, 6C5, 6Q7, 6G5, 6F6, 5Z4MG	456	8-15,16
	Tone	40X211	34	Order from	Mfr.			18	23	RS216								
47P608	Vol.	36X213	18	MR48	M26			30-12	13/15	2N514					7	§6K7, 6A8, 85, 43, 6A6	456	8-17,19
	Tone	40X209	44	MR36														
47R, 47RL	Vol.	36X205	56	MR48	M26			P44X10	23	RS216					8	§6K7, 76, 6B7, 6G5, 6F6, 80	456	8-21,23
	Tone	40X217	34	Order from	Mfr.			P44X11	23	RS216								
51C	Vol.	V405	6	MR18	M26			8	4	RS213					5	§57, 58, 47, 80	175	7-42
	Tone		22	MR36				4	4	ST595								
								25	17	TC26								
70	Vol.		15	MR55				8-8	1	2N518					10	§35, §27, §47, 80	262	8-12
	Tone		44	MR42				8	13	TC71								
								8	15	TC32								
71C	Vol.	V403A	56	MR55				8-4	1	2S567					7	§58, 57, 55, 2A5, 56, 80	175	9-3
	Tone	V409	22	MR36	M26			12	15	TC22								
72 (8, 8X)	Vol.		15	MR55				8-8	1	2N518					8	§35, §27, 47, 80	262	9-4
	Tone		22	MR39														
77, 77A	Vol.	E17299	15	MR48	M27										7	1C6, 19, §30, 32, §34	456	6-6,7-14
85	Vol.		6	MR18				3366	1	TC70					5	§24A, 35, 47, 80	262	7-35,36
								2803	1	TC71								
90, 92D, 92M	Vol.		2/10	Order from	Mfr.			4	13	TC52					5	§32, 33	175	8-20,24
151	Vol.	101-238	18	MK401	M26			119-92	24	FP354	B69				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	
								119-93	24	FP357	B12							
400A, 410B	Vol.	E17158	135	MR19											4	1C6, 34, 32, 33	456	7-37
401, 402	Vol.	24-117	6	MR36	M26			18-219	24/15	4S715					4	6K7, 6F5, 25L6, 25Z6		9-5
404	Vol.	101-26	97	Order from	Mfr.										4	1A6, §32, 33	465	7-38
	Fil.	101-25	29	M4R														
415	Vol.	24-153	18	MK401	M26			18-266	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-5
425	Vol.		7	G				8	4	RS213					4	58, 57, 47, 80		7-40
								4	4	RS213								
430	Vol.	17381	2	MR18				17080	19	TC22					3	1A6, 19, 33	456	7-39, 6-9
457 (Regal)	Vol.		6	MR18		See Note A14		8-4	4	2S567					4	58, 57, 47, 80		7-40
460	Vol.	2441	6	MR21	M26	See Note A14		1840	4	RS215					4	6A7, 6C6, 42, 80	456	8-25
								1841	4	RS216								
489	Vol.	101-91	18	MR55	M27			119-28B	1	2N516		126-4	246	C3	4	6D8G, 6S7G, 6T7G, 6K6G	465	10-5,6
								119-22	15	TC22								
								.005		Buffer	B14							
501	Vol.	9611	70	MR21		EX250									5	§32, 34, 33, 30	465	7-41
	Fil.	9684	29	R														
504	Vol.	101-56	18	MR53	M27			119-28	1	2N516		126-4	246	C3	4	6D8G, 6S7G, 6T7G, 1F5G	465	10-7
	Tone	101-72	34	MR44				.005		Buffer	B14							
509, C509	Vol.	101-236	18	MK401	M27			119-116	19	TC26					5	1A7GT, §1N5GT, 1H5GT, 3Q5GT	455	12-3,4
510, 511	Vol.		17	MR48	M26			8, 8	4	TC71					5	6A7, 6D6, 75, 42, 80	456	8-26
								10	15	TC22								
516	Vol.		134	MR33											5	32, §34, 30, 19	456	7-41
Z516	Vol.	63-235	15	MR48	M26			22-173	23	TC71					8	§58, 56, §57, 59, 80	175	8-27,28
	Tone	63-232	34	MR48				22-172	23	TC70								
	Sen.	63-234	7	MR34														
518	Vol.	101-196	18	UM154-SS22	M26T			119-92	24	FP354	B69				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	465	
								119-93	24	FP357	B12							
520	Vol.	101-138	7	UM129-SS25	M26			119-70	1/15	3N533					4	6A8, 6J7, 25L6G, 25Z6G, 62A	465	12-6
								119-71	15	TC22								
521	Vol.	24-104	17	MR48	M26			18-102	1/15	3S579					5	6A7, 6D6, 75, 41, 80	456	9-6
Z521	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					10	§58, §56, §59, 57, 80	175	7-43
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-234	7	MR34														
525	Vol.	V601	17	MR18	M26			C525	11	UR182	B31				5	§6D6, 75, 43, 25Z5	456	7-42
526	Vol.	24-112	6	MR44	M26			18-212	24/15	3N533					4	6D6, 6C6, 43, 25Z5, L55C		9-5
527A	Vol.		18	‡		See Note A5		5, 5	23	TC71					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-8
527C	Vol.	101-141	18	UM154-SS25	M26T			119-47E	23	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-9,10
Z530	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					12	§58, §56, §59, §57, 80	175	7-45,46
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-249	7	‡			A5											
533, C533	Vol.	101-217	18	MK401	M26			119-94	46	FP357					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465	12-7
534	Vol.	101-198	18	UM161-SS22	M26			119-92	24	FP354	B69				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	
540	Vol.	P101-1	17	MR48	M26			C525C/C525D	11	UR182	B31				5	§6D6, 25Z5, 43, 75	456	6-10
540 (Batt.)	Vol.	17589	131	MR48	M27			17080	19	TC22					4	1C6, 1A4, 1B5, 950	456	
541A	Vol.	17589	56	MR48	M27			17080	19	TC22					4	1C7G, 1D5G, 1H6G, 1G5G	456	10-12
546	Vol.	101-210	18	UM161-SS22	M27			119-104	24/78	FP304					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT, 5459	465	
550AC	Vol.	1008	17	MR18	M26			P1003	4	RM262					5	2A7, 58, 2A6, 2A5, 80	456	8-29

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAMBLE-SKOGMO—Continued																		
550 (Batt.)	Vol.	17403	15	MR48				17080	19	TC22					5	1A6, 34, 30, 32, 33	456	7-53, 6-11
552	Vol.		56	MR48	M26			17080	19	TC22					5	1C7G, ‡1D5G, 1H4G, 1G5G	456	10-12
0556	Vol.	24-150	18	MK402				18-262	76	FP211					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-5
566	Vol.	101-41	18	UM154-SS13	M26			18-263	76/78	2N509								
								119-20	4	2S567		126-1	294	C3	5	6A8, 6K7, 75, 41, 84	465	9-7
								.01		Buffer	B14							
571 (A Above Serial 189300)	Vol.	101-209	18	MK401	M26			119-92	24	FP354	B69				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z4GT	465	11-3
575	Vol.	P101-10	6	MR36	M26	EX100		P119-6	4	2S567					5	58, ‡57, 2A5, 80	175	6-12
577C	Vol.	101-110	18	MK402	M26			119-50	24	TC52		1267	294	C24	5	6SA7, 6SK7, 6Q7, 6K6, 6X5	465	11-5,6
577D	Vol.	101-110	18	MK402	M26			.005		Buffer	B14							
								119-105	24/15	FP339		1267	294	C24	5	6SA7, 6SK7, 6SQ7, 6K6G, 6X5G	465	11-2,4
								.005		Buffer	B14							
578	Vol.	101-35	56	MR55				P103-6	4	RS213					5	6A7, 6D6, 6B7, 42, 80	456	7-47
								P103-7	4	RS213								
579	Vol.	101110	18	MK402	M26			119105	24/15	FP339		1267	294	C24	5	6SA7, 6SK7, 6SQ7, 6K6G, 6X5G	465	
								.005		Buffer	B14							
580	Vol.	P101-9	17	MR48	M26			P119-15	4	2S567		142-4	294	C3	5	6D6, 6A7, 75, 42, 84	175	7-51,52
								.01		Buffer	B14							
585 Series A	Vol.	P101-18	18	MR48	M26			P119-11	1/15	3S584					5	6F7, 6D6, 75, 42, 80	370	7-54-56
585 Series B and C	Vol.	P101-18	18	MR48	M26			P103-6	4	RS213					5	6F7, 6D6, 75, 42, 80	370	7-54-56
								P103-7	4	RS213							465	
586A	Vol.	101-49	18	MR55	M26			P103-6	42	RS213					5	6A7, 78, 75, 41, 80	465	7-57,58
								P103-7	42	RS213								
587 Ser. A	Vol.	101-49	18	MR55	M26			103-6	23	RS213					5	6A8, 6K7, 6Q7, 6F6, 5Y3	465	10-11
								103-7	23	RS213								
589 (Ser. A—Issue B)	Vol.	101-71	18	MR53	M26			119-38	4	2S567					5	6A8, 6K7, 6Q7, 6K6, 5Y3	465	11-7
C590	Vol.	101-252	18	MK402	M27			119-123	24/78	Order from	Mfr.				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	455	
600	Vol.	24-104	18	MR48	M26			18-102	1/15	3S579					6	6A7, 6D6, 6G5, 75, 41, 80	456	9-9
601 (Ser. A, B, C)	Vol.	101-54	18	MR55	M26			119-25	11	2N509/TC42					5	6A7, 78, 75, 43, 25Z5	465	11-8
	Tone	101-55	22	MR53														
602	Vol.	101-77	18	MR53	M26			119-39	1	2N509					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B	465	10-13,14
602B, 602C	Vol.	101-77	18	MR53	M26			119-42	4	TCS45					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B	470	10-14
623	Vol.	24-105	18	MR48				18-102	1/15	3S579					6	6A7, 6D6, 75, 6G5, 41, 80	456	9-10
	Tone	26-106	21	MR48	M26													
636	Vol.	101-127	18	UM161-SS18	M26			119-53E	1/15	3N533					6	‡12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	465	11-14
C640	Vol.	101-218	18	MK402	M26			119-94	24/13	FP357					6	12SA7, ‡12SK7, 12SQ7, 35L6GT, 35Z5GT	455	12-9,10
642	Vol.	101193	18	UM161-SS22	M26			11994	46	FP357					6	‡12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-16,19
645	Vol.	24-105	18	MR48				18-102	1/15	3S579					6	6A7, 6D6, 75, 6G5, 41, 80	456	9-11
	Tone	26-106	21	MR48	M26													
648	Vol.	24-121	127	MR53	M26			18-226	1	2S569					6	6A7, 6D6, 75, 76, 6AC5G, 80	455	9-12
	Tone	26-117	22	MR48														
650A, B, C	Vol.	17451	62	MR48	M27			17080	19	TC22					6	1C6, ‡1A4, 30, ‡950	456	8-30
660	Vol.	V603	17	MR48	M26			C550	4	TCS71		V660	Order from	Mfr.	6	‡6D6, 6A7, 75, 89, 6Z4	175	7-63
665 (Ser. A)	Vol.	101-126	18	MK402	M26			119-63B	4	2S569					6	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 5Y3G	465	11-9,10
666	Vol.	101-42	18	UM133-SS13	M26			119-21	1	TCS71		126-1	294	C3	6	‡6K7, 6A8, 6Q7, 6N6, 6X5	465	10-15,16
								.01		Buffer	B14							
667	Vol.	101-73	18	UM147-SS17	M26			119-34	1	2S567		126-1	294	C3	6	‡6K7, 6A8, 6Q7, 6F6, 6X5	262.5	10-17
	Tone	101-45	22	Order from	Mfr.			.01		Buffer	B14							
670	Vol.	P101-9	17	MR48	M26			P103-2	4	RM262		142-1	299	C3	6	6D6, 6C6, 78, 75, 42, 84	175	6-13
								20	15	TC26								
								.02		Buffer	B14							
670A	Vol.	P101-9	17	MR48	M26			P119-4	4	TCS71		142-1	299	C3	6	‡6D6, 6C6, 75, 42, 84	175	7-61,62
								.015		Buffer	B14							
C671	Vol.	101-232	18	MK402	M26			119-115	1	2S569					6	6SA7, ‡6SK7, 6SQ7, 6V6GT, 5Y3G	455	12-11,12
	Tone	101-231	22	MK402														
675	Vol.	P101-11	18	MR48	M26			P103-4	4	RS216					6	2A5, 2A6, 27, 57, 58, 80	370	6-15,16 and 7-59,60
								P103-3	4	RS216								
675A	Vol.	E17916	18	MR48	M27			E17080	19	TC22					5	‡1D5G, 1C7G, 1H6G, 1G5G	456	10-18
677A, B	Vol.	101-109	18	TM238-SS18	M26			119-51	4	2S567			294	C3	6	‡6K7, 6A8, 6Q7, 6V6, 0Z4/6X5	465	10-19,20
								.01		Buffer	B14							

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAMBLE-SKOGMO—Continued																		
678 (Issue A)	Vol.	101-161	76	Order from Mfr.				119-78	24/15	FP426		1269	248	C3	6	6K7, 6A8, 6SK7, 6Q7, 6J5, 6N7	465	11-11-13
	Tone	101-162	76	UM161-SS18				.0055		Buffer	B14							
678C	Vol.	101-161	76	Order from Mfr.				119-88	24/15	FP426	B168	1269	248	C3	6	6K7GT, 6A8GT, 6SK7, 6SQ7, 6J5GT, 6N7G	465	12-13,14
	Tone	101-162	76	UM161-SS18				.0055		Buffer	B14							
680, 680B	Vol.	E17422	62	MR48	M27			E17355	12	TC52					7	1C6, [3]34, [3]30, 1B5, 19	456	6-14
680 Auto	Vol.	P101-21	61	MR48	M26	EC256		P119-17	4	TCS71		142-4	299	C3	6	[3]6D6, 6A7, 6B7, 42, 84	175	7-64
								.01		Buffer	B14							
685B	Vol.	E17916	18	MR48	M27			E17080	19	TC22					6	[2]1D5G, 1C7G, 1H6G, 1G5G	456	10-18
686 "A" and "B"	Vol.	101-46	18	MR55	M26			P103-6	42	RS213					7	6L7, 6K7, 6Q7, 6C5, 6F6, 5Y3, 6G5	465	7-65,66
	Tone	101-53	22	MR33				P103-7	42	RS213								
690	Vol.	E17954	18	MR48				16-16	1	2S569					6	6A8G, 6K7G, 6Q7G, [3]6K6G, 5Y3G	456	10-21
	Tone	E14047	22	MR39				10	15	TC22								
690B	Vol.		18	UM154		See Note A96		16-16	1	See Note	B3				6	6A8G, 6K7G, 6Q7G, [3]6K6G, 5Y3G	456	10-21
	Tone		22	UM140		See Note A96		10	15	TC22								
695	Vol.	101-215	18	MK402	M26			119-94	46	FP357					6	12SA7, [2]12SK7, 12SQ7, 35L6GT, 35Z5GT	455	
	Tone	101-216	22	MK402														
715, 715B	Vol.	E14048	18	MR48				17645	1	RS216					7	6A8G, 6K7G, 6Q7G, 6C5G, [3]6F6G, 5Y3G	456	10-22
	Tone	E14045	22	MR39				14062	1	RS216								
729	Vol.	101-224	18	TM233-SS25				119-108	1	2S569					7	6SA7, 6SK7, 6SQ7, 6J5GT, [3]6K6GT, 5Y3G	455	
	Tone	101-223	22	MK402														
735	Vol.	24-105	18	MR48				18-202	25	RS215					7	6A7, 6D6, 76, 6Q7G, 6V6G, 6G5, 80	456	9-14
	Tone	26-106	21	MR48	M26			18-201	25	RS215								
740 Series A	Vol.	101-74	18	MR55	M26			103-6	4	RS213					7	6A8, 6K7, 6Q7, 6C5, [3]6F6, 5Y3	465	8-31,32
	Tone	101-75	22	MR44				103-14	4	RS216								
750	Vol.	P1025	18	MR48				8, 8	4	RS213					7	[2]58, 2A7, 55, [2]45, 80	175	7-67
	Tone	P1025	21	MR48				5	14	TC52								
761A	Vol.	101-104	18	MR53				103-6	1	RS213					7	6A8, 6K7, 6Q7, 6F5, [3]6F6, 5Y3	465	10-23,24
	Tone	101-105	22	MR44	M26			103-14	1	RS216								
762	Vol.	36X235	45	MR48	M26			44X31	23	HD684					8	6J7, 6K7, 6C5, 6H6, 6G5, 6F5, 6F6, 5Y3G, or 6J7G, 6U7G, 6C5G, 6H6, 6G5, 6F5G, 6F6G, 5Y3G	456	8-33,36
	Tone	40X223	34	MR42				44X35	23	RS223								
765 (Ser. A)	Vol.	101-126	18	MK402	M26			119-63B	4	2S569					7	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5	465	11-9,10
767 (Ser. A)	Vol.	101-144	18	MK402	M26			119-73	1	TC74					7	6K8G, 6K7, 6Q7G, 6J5G, [3]6K6G, 5Y3G	465	11-15-17
	Tone	101-145	22	MK402				119-74	1	TC72								
770	Vol.	P101-37	56	MRT436	M26			P103-8	43	RS216					7	[3]6K7, 6C6, 6C5, 6B7, 42, 80	465	7-69,70
	Tone	P101-38	21	SRP286	8			P103-4	43	RS216								
774	Vol.	36X236	45	MRT428	M26			44X30	25	RS216					11	[3]6K7, [3]6J7, [3]6C5, 6H6, 6G5, [3]6F6, 5Y3G, or [3]6U7G, [3]6J7G, [3]6C5G, 6H6, 6G5, [3]6F6G, 5Y3G	456	8-37,40
	Tone	40X224	34	MR53				44X11	25	RS216								
								45X223	13	TC52								
								45X222	19	TC26								
776	Vol.	36X238	124	MRT450	M26			44X21	25	RS223					13	[3]6K7/6U7G, 6J7/6J7G, [3]6C5/6C5G, 6H6, [3]6L6/6L6G, [2]5Y3G, 6G5	456	10-24-28
	Tone	40X225	41	MR55				44X36	25	RS224								
								45X224	19	TC26								
777C and 777L, Series "A"	Vol.	P101-23	18	MR55	M26			P103-4	4	RS216					7	[3]6D6, 6C6, 76, 75, 42, 80	465	7-71-73
	Tone	P101-24	21	MR44				P103-3	4	RS216								
777C and 777L, Series "B"	Vol.	P101-23	56	MR55	M26			P103-8	4	RS216					7	[3]6D6, 6C6, 76, 6B7, 42, 80	465	7-71,72
	Tone	P101-24	57	MR44				P103-4	4	RS216								
778A	Vol.	101-47	18	MRT436	M26			P103-8	25	RS216					7	[3]6K7, 6J7, 6C5, 6Q7, 6F6, 5Y3	465	7-75,76
	Tone	101-38	21	SRP286	8			P103-6	25	RS213								
780, 780B	Vol.	E17422	15	MR48	M27			E17355	12	TC52					7	1C6, [3]34, [3]30, 1B5, 19	456	7-74
787	Vol.	101-46	18	MR53	M26			103-6	23	RS213					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5W4	465	8-41,42
	Tone	101-53	22	MR33				103-7	23	RS213								
796	Vol.	101-215	18	MK402	M26			119-108	1	2S569					7	6SA7, 6SK7, 6SQ7, 6J5GT, [3]6K6G, 5Y3G	465	12-15,16
	Tone	101-216	22	MK402														
797	Vol.	101-215	18	MK402	M26			119-110	1/15	FP339	B3				7	6SA7, 6SK7, [3]6SQ7, 6V6GT, 5Y3G	455	
	Tone	101-216	22	MK402				119-67	13	TC71								
	Mike	101-219	127	MK402														
C800	Vol.	101-233	18	‡			A19	119-109	1/13	FP390					8	[3]6SK7, 6SA7, 6SQ7, 6J5GT, [3]6F6GT, 5Y3G	455	12-17
802	Vol.		134	UM119-SS25	M26			20-20-30	1/15	FP306	B3				4	[3]6J7, 25L6G, 25Z6G	456	11-18
802A	Vol.	17451	18	MR48	M27			10	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	456	10-29
803A, B	Vol.	14399	18	UM154	M27		A96	14403	1	2N518		14417	294	C3	5	6D8G, 6S7G, 6T7G, 6G6G, 6ZY5G	456	10-30
								17080	15	TC22								
806A	Vol.	14358	18	UM154	M27	See Note A96		.005		Buffer	B14							
								10	19	TC22					4	1C7G, 1D5G, 1H6G, 1G5G	456	10-29

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note	No.			
GAMBLE-SKOGMO—Continued																		
807B	Vol.		18	UM154		See No	te A96	15-15-20	1/15	FP339					7	6A8G, 6K7G, 6J5G, 6U5, 6F5G, 6K6G, 5Y3G	456	10-18
	Tone		22	MR39														
810	Vol.	17637	15	MR48	M26			17644	1	RS216					8	6A8, 6K7, 6C5, 6G5, [2]41, 80, 6F5	456	8-43
	Tone	17638	130	UC513	6		A86	17645	1	RS216								
								17080	15	TC22								
810 (1938)	Vol.		17	MR57	M26			30-20	12/15	TC36/TC26					7	6A8G, [2]6U7G, 6V7G, 25A6G, 6J5G, 6N7G	456	10-31,32
	Tone		41	MR39														
813B	Vol.	14475	18	‡		See No	te A5	10	19	TC22					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	10-29
816, 816B	Vol.		17	‡			A19	10-20-10	1/15	FP330	B3				8	[2]6K7G, 6A8G, 6Q7G, 6U5, [2]6K6G, 5Y3G	456	11-23
	Tone		22	MR39				30	1	FP145	B3							
822	Vol.	101-50	56	MR44	M27			103-11	12	ST595					8	1A6, 1A4, [2]30, [2]34, 19	465	8-43,44
	Tone	101-51	21	MR44														
850B	Vol.	17523	15	MR48				17355	12	TC52					8	[2]1A4, 1C6, [2]30, [2]950	456	8-52
	Tone	17524	130	MR42	M26		A86	17080	19	TC22								
864	Vol.		20	‡			A19	14	25	RS216					11	[2]6U7G, [2]6J7G, 6H6, [2]6J5G, [2]6F6G, 5Y3G, 6U5	456	11-19,20
	Tone		22	MR53				40	25	RS224								
								50	19	TC29								
867A	Vol.	101-144	18	MK402	M26			119-73	1	TC74					8	6K8G, 6K7, 6Q7G, 6K6G, 6U5, 5Y3G	465	10-33-35
	Tone	101-145	22	MK402				119-74	1	TC72								
C901	Vol.	101-233	18	‡			A19	119-109	1/13	FP390					9	[2]6SK7, 6SA7, 6SQ7, 6J5GT, [2]6F6G, 6U5, 5Y3G	455	12-18-20
902	Vol.		18	MK401	M27			4	12	TC42					5	1A7G, [2]1N5G, 1H5G, 1C5G	456	11-21,22
906	Vol.	24-146	18	MR48	M26			18-256	1	FP234					6	[2]6SK7GT, 6SA7GT, 6SQ7GT, 6K6GT, 5W4GT	455	13-20
								18-243	19	TC26								
907	Vol.	24-147	18	‡			A19	18-294	1	FP227					7	6SA7GT, 6SK7GT, 6SQ7GT, [2]6P5GT, 6AC5GT, 5W4GT	455	11-24
908	Vol.	24-131	45	‡			A19	18-256	1	FP234					8	6SA7GT, 6SK7GT, 6SQ7GT, [2]6P5GT, 6AC5GT, 5W4GT	455	11-24
940, 940A	Vol.		18	UM154			A96	10	19	TC22					4	1B7G, 1P5G, 1H5G, 1Q5G	456	11-25
951, 951A	Vol.		18	UM154			A96	10	19	TC22					5	1B7G, [2]1P5G, 1H5G, 1Q5G	456	11-25
953	Vol.		18	UM154			A96	10	19	TC22					5	1B7G, [2]1P5G, 1H5G, 1Q5G	456	11-25
962	Vol.		18/54	Order from	Mfr.			16	12	TC45					6	[2]1P5G, 1B7G, 1H5G, [2]1Q5G	456	11-26
								10	19	TC22								
970B, 970BX	Vol.		45	UM154			A96	10-10-20	1/15	FP332					7	6A8GT, 6K7GT, 6P5GT, 6Q7GT, 6K6GT, 5Y3G, 6U5	456	11-26
980B, 980BX	Vol.		18	‡			A19	15-15	1	FP234					8	6A8G, 6K7G, 6Q7G, 6P5G, [2]6K6G, 5Y3G, 6U5	456	11-26
	Tone		21	UM140			A96											
990	Vol.		18	‡			A19	15-15	1	FP234					9	[2]6K7GT, 6A8GT, 6Q7GT, 6P5GT, [2]6K6G, 5Y3G, 6U5	456	11-23
990B	Vol.	14809	18	MRT449	M26			14670	1	FP234					9	[2]6K7GT, 6A8GT, 6Q7GT, 6P5GT, [2]6K6G, 6U5, 5Y3G	456	13-13
1010B	Vol.	25004	124	MRT454	M26			14670	1	FP234					10	[2]6SK7, 6SA7, [2]6J5GT, 6SQ7, [2]6K6GT, 5Y3G	456	13-21,22
C1041	Vol.	101-214	18	MK401	M26			119-106	1/13	FP390					10	[2]6SK7, 6SA7, 6SQ7, 6P5G, [2]6F6G, 6U5, 5Y3G	465	12-21,22
	Tone	101-213	22	MK402														
1050	Vol.	P1025	15	MR48				P1048	26	RS213					10	[2]58, 2A7, [2]56, [2]45, 80	175	7-77
	Tone		‡	MR39	M26			P1038	26	RS213								
1070A	Vol.	25004	18	MRT454	M26			25069	1/15	FP339					7	[2]6SK7, 6SA7, 6J5GT, 6SQ7, 6K6GT, 5Y3G	456	13-22,23
C1100	Vol.	101-234	17	MK401	M26			119-112	46	FP444					11	[2]6SK7, 6SA7, [2]6SQ7, 6J5GT, [2]6V6GT, 5Y3G, 6U5	455	12-23,24
								119-69	13	TC74								
1128	Vol.	25409	45	MRT449	M26			25407	1/15	FP330					7	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 6X5GT	456	14-8, 11,12
1170	Vol.	101-47	20	MRT436	M26			103-10	25	RS223					11	[2]6K7, 6J7, 6C5, 6H6, 6F5, [2]6F6, 5Z4, 6G5	465	8-45-47
	Tone	101-40	22	Order from	Mfr.			103-8	25	RS216								
C1131	Vol.	101-214	18	MK401	M26			119-124	1/13	FP444					11	[2]6SK7, 6SA7, [2]6SQ7, 6J5GT, 6U5, [2]6F6G, 5Y3G	455	
	Tone	101-213	22	MK402														
1682	Vol.	25409	18	MRT449	M26			25407	1/15	FP330					7	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 6X5GT	456	14-8, 11,12
2056AW	Vol.		6	MR18				8, 8	1	RS213					7	57, [2]58, [2]56, 47, 80	455	10-36
	Tone		34	MR44				8	19	TC32								
2078D	Vol.	4242	6	MR18	M26			4703	1	TCS71					5	[2]57, 58, 47, 80	455	7-79-81

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAMBLE-SKOGMO—Continued																		
2090	Vol.		15	MR44				8-8-8	28	See Note	B3				9	‡58,‡57, 56,‡46, 80	262	7-82-84
	Tone		95	MR39				4	‡	See Note	B3							
	Sen.		98	F														
2092, 2094	Vol.		15	MR44				8-8-8	28	See Note	B3				10	‡58,‡56,‡46, 80	262	7-85,86
	Tone		95	MR36				8-8	‡	See Note	B3							
2402	Vol.	24-154	149	MK402	M27			18-250	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	14-14
2543	Vol.	24-150	149	MK402				18-266	76	2N513					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z4GT	455	14-13
								18-271	76	Order from	Mfr.							
3006	Vol.	36X289	18	MK401	M27			45X282	46	TN129					6	1A7GT, ‡1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	13-26,27
								45X284	78	Order from	Mfr.							
3058	Vol.	36X280	18	MK401	M26			45X277	4	Order from	Mfr.				6	6SA7, ‡6SK7, 6SQ7, 6K6GT, 5Y3G	456	13-28,29
3128	Vol.	6223	6	MR24				4-12-4	11	UR182	B182				5	6F7, 78, 75, 43, 25Z5	455	7-90
3128 (Late)	Vol.	36X309	18	TM227-SS25	M26			45X320	46/15	2N513/2N509					7	‡2SJ7,‡2SK7, 2SQ7, 6L5G, 35L6GT, 35Z5GT	456	13-30,31
	Tone	40X267	21	UM165-SS25														
3132, 3134, 3140	Vol.		6	F7											5	‡32, 34, 33, 30	455	9-15,16
	Fil.		29	M6R														
4002	Vol.	36X274	18	MK401	M27			45X268	46	TN129					6	1A7GT, ‡1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	13-33,34
								45X269	78	Order from	Mfr.							
4132	Vol.	36X319	18	UM165-SS25	M26			45X262	13/15	2N513					7	6SA7, 6J5G, ‡6SK7, 6V7G, 25A6G, 6N7G	456	13-31,32
	Tone	40X263	41	UM144-SS25				45X250	13	TC40								
4912	Vol.		18	UM154			A96	20-20-20	22/15	FP306					5	12SA7,12SK7,12SQ7, 35L6GT, 35Z5GT	456	11-22,30
4914	Vol.		18	UM154			A96	20-20-20	22/15	FP306					5	12SA7,12SK7,12SQ7, 35L6GT, 35Z5GT	456	11-22,30
4954	Vol.		124	‡			A19	14	23	RS216					11	‡6SK7, 6SA7, 6P5G, 6SQ7, 6C8G,‡6V6G, 6U5, 5Y3G	456	11-27-29
	Noise		‡	UM119			A96	40	23	RS224								
								10-10	14/15	2N516								
4956	Vol.		124	‡			A19	40	23	RS224					8	‡6SK7, 6SA7, 6SQ7, 6V6G, 6U5, 5Y3G	456	12-25-28
	Tone		34	UM165			A96	20	23	RS219								
5953A	Vol.	1004	18	MR48	M26										6	6A7, 6D6, 75, 76,‡48	465	8-49-51
6100	Vol.	9611	6	MR21		EX250		9925	1	TC71		8701	Order from	Mfr.	6	‡78, 37, 77, 38, 25Z5	465	9-17
								9328	15	TN111								
								8705	1	TC71								
								.02-.02		Buffer	B14							
6953A	Vol.	1004	18	MR48	M26													
7735, 7742, 7755	Vol.	1289	45	MR48	M27			1291	12	ST595					6	6A7, 6D6, 75, ‡48, 76	465	7-87,89
															6	1C6, 34,‡30, 32, 19	465	7-91,92
GAROD																		
Challenger I	Vol.		17	MR48	M26			12-12	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5	456	8-3
								5-5	15	TN111								
Challenger II	Vol.		17	MR48	M26			12-12	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5	456	9-1
								5-5	15	TN111								
Challenger III	Vol.		140	1 Meg. No. 1		See Note	A19	40-25	1	2N514					6	6A7, 6D6, 75, 25L6, 25Z5, 6F5	456	9-1
	Tone		140	MR53				10, 10	15	TC22								
EM	Vol.		16	MR48				4-4	1	2N518						‡	‡	3-2
2B2, 2B2-1	Vol.		‡	MR53	M27										6	1C7G, ‡1D5G, 1H6G, 1H4G, 1J6G	456	9-2
	Tone		44	MR39														
2B6, 2B6-1	Vol.		‡	MR53	M27			20-20	1	2N509			W245	C3	6	1C7G, ‡1D5G, 1H6G, 1H4G, 1J6G	456	9-2
	Tone		44	MR39				.01		Buffer	B14							
3B2, 3B2-3	Vol.		‡	MR53	M27			20-20	1	2N509	B3				7	‡1D5G, 1C7G, 1H6G, 1H4G, 1J6G	456	.....
	Tone		44	MR39														
3B6, 3B6-3	Vol.		‡	MR53	M27			20-20	1	2N509	B3		W245	C3	7	‡1D5G, 1C7G, 1H6G, 1H4G, 1J6G	456	.....
	Tone		44	MR39				.01		Buffer	B14							
BP4	Vol.		18	MR53	M27			4	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	11-1
BP5	Vol.		18	MR53	M27			80-80-40	1/12	Order from	Mfr.				5	1A7G, 1N5G, 1H5G, 1C5G, 25Z5	456	11-1
BP9, BP10	Vol.		18	MR53	M27			80-40-10	46	See Note	B3				5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 45Z5GT	456	11-2
BP11	Vol.	8.153	18	MR53	M27			5.362	24/78	Order from	Mfr.				5	1R5, 1T4, 1S5, 3Q5, 35Z5	455	12-1
BP12, A, B	Vol.		18	MR53	M27			80-40-20	24/78	Order from	Mfr.				6	1A7, ‡1N5, 1H5, 1T5, 35Z5	455	12-1
BP15	Vol.		18	MR53	M27			80-40-200	24/78	Order from	Mfr.				5	1A7, 1N5, 1H5, 3Q5, 35Z5	455	.....
BP36A	Vol.	8.145C	18	MR53	M27			5.362	24/15	Order from	Mfr.				6	1A7, ‡1N5, 1H5, 3Q5, 70L7	455	12-2
C119	Vol.		124	MR53	M27			40-25-80	24/13	Order from	Mfr.				10	‡6SK7, 6A8, ‡6J5, 6U5, 6SQ7, ‡25L6, 25Z6	455	12-4
	Tone		22	‡			A5	10-10	15	TN111								
C120	Vol.		124	MR53	M27			16	1	RS216					11	‡6SK7, 6SA7, ‡6J5, 6SQ7, ‡6V6GT, 6U5, 5Y3G	455	12-5,6
	Tone		22	MR53	M26			16	1	RS216								
25	Vol.		17	MR48	M26			10	15	TC22					5	6A7, 6D6, 75, 42, 80	‡	6-1
	Tone		34	MR39				8, 8	4	ST595								
								12, 12	4	ST597	B12							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAROD—Continued																		
26	Vol.		45	MR48	M26			12, 12	4	ST597					6	6A8, 6K7, 6H6, 6F5, 6F6, 80	456	7-1
	Tone		34	MR39														
27	Vol.		64	MR48	M26			12, 12	4	ST597					7	[3]6D6, 6A7, 76, 42, 80	456	6-2
	Tone		34	MR39														
31, 31LW	Vol.		45	MR48	M26			20-12	6	2N509					6	6A7, 6K7, 6H6, 6F5, 43, 25Z5	456	7-3
	Tone		22	MR39				5	15	TC22								
32, 32LW	Vol.		75	MR48	M26			25-12-20	63	TN129					7	6A7, 6K7, 6H6, 6F5, 43, [2]25Z5	456	7-4,5
	Tone		22	MR39				5	15	TC22								
33 and 33LW	Vol.		18	MR48				20-12-8	11	TN125					6	6A7, 6D6, 75, 43, 76, 25Z5	456	6-3
	Tone		22	MR39				5-5	15	TN111								
33, 33LW (Rev.)	Vol.		45	MR48	M26			20-12	6	2N509					6	6A7, 6K7, 6H6, 6F5, 43, 25Z5	456	7-3,5
	Tone		22	MR39				5	15	TC22								
35SW	Vol.		7	G	6			20-12	6	2N509					5	6A7, 6D6, 6C6, 43, 12Z3	456	7-6
	Tone		22	MR39				5, 5	15	TC22								
37B, 37D	Vol.		18	‡		See Note A19		20-12	1	2N509		W45	W245	C3	7	[1]A4, 1C6, 1B5, 30, 1J6G	456	10-1
	Tone		44	MR39				.01		Buffer	B14							
49, 49M	Vol.		45	MR48	M26			12, 12	1	ST597					10	[3]6K7, 6A8, 6H6, 6E5, [3]6C5, [2]45, 80	456	7-7,8
	Tone		44	MR39				5	15	TC22								
51	Vol.		18	MR53	M26			60-20	24	TN129	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-3
58	Vol.		7	D	6			8-20-12-4	8/13	TN125/TC40	B3				8	6A7, [3]6D6, [2]25Z5, [2]43, 85	456	6-4
	Tone		22	MR39				5	15	TC22								
60	Vol.		18	MR48	M26			20-12	6	2N509					5	6A7, 6K7, 75, 43, 25Z5, BK49D	456	7-2
								5	15	TC22								
66	Vol.		18	MR48	M26			20-12	6	2N509					6	6A7, [3]6D6, 75, 43, 25Z5	456	6-5
	Tone		22	MR39				10-10	15	TN111								
73, 73LW	Vol.		45	MR48	M26			12, 12	4	ST597					7	[3]6D6, 6A7, 76, 42, 80	456	7-13
	Tone		34	MR39				5	15	TC22								
83 and 83LW	Vol.		18	MR48	M26			25-12-20	6/12	TN129	B3				8	6A7, [3]6D6, [2]25Z5, [2]43, 85	456	6-6
	Tone		44	MR39														
104, 104M	Vol.		18	MR48	M27			12-25	6	2N513					11	[3]6K7, 6A7, 85, 6E5, [4]43, [2]25Z5	456	7-9,10
	Tone		44	MR39	M26			20	12	TC47								
	Sen.		7	D				25	44	TC47	B3							
105	Vol.		18	MR53	M26			60-20	24	TN129	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-3
115	Vol.		7	D	8			20	75	TC47					10	6A7, [3]6D6, 85, [4]43, [2]25Z5	456	8-1,2
	Tone		22	MR39	M26			12	75	TC44								
								8	75	TC42								
125, 135	Vol.		18	MR53	M26			60-20	24	TN129	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-3
150	Vol.		18	MR53	M26			16-16	4	2S569					5	6A7, 6D6, 6Q7G, 41, 80	456	11-3
159	Vol.		18	MR48				8-8	4	See Note	B3				5	6A7, 6D6, 6Q7, 41, 80	456	10-2
205, 205C, 205L, 205-1	Vol.		80	1 Meg. No. 1		See Note A19		16, 16	4	ST597					5	6A7, 6K7, 6Q7, 42, 80	456	9-3
	Tone		80	MR53														
206, 206C, 206L, 206-1, 206P4	Vol.		80	1 Meg. No. 1		See Note A19		16, 16	4	ST597					6	6A7, 6K7, 6Q7, 6U5, 42, 80	456	9-3
	Tone		80	MR53														
225A, 225B	Vol.		18	MR53	M26			60-20	24	TN129	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-3
237	Vol.		8	D				8	11	TC42					7	6A7, [3]6D6, 85, [2]43, 25Z5	456	9-4
	Tone		44	MR39				20	11	TC47								
								12	11	TC44								
245	Vol.		18	MR53	M26			60-20	24	TN129	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-3
250	Vol.		18	MR48				9	25	ST597					5	6A7, 6K7, 75, 42, 80	456	9-5
255	Vol.		18	MR53				60-20	24	TN129	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-3
259	Vol.	8.139B	17	MR53	M26			16, 16	4	ST597					5	6K8, 6D6, 6Q7, 42, 80	456	10-13,14
265	Vol.		18	MR53	M26			60-20	24	TN129	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-3
269	Vol.	8.139B	17	MR53	M26			16, 16	4	ST597					6	6K8, 6D6, 6Q7, 42, 6U5, 80	456	10-13,14
275, 285	Vol.		18	MR53				60-20	24	TN129	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-3
307, 307E, 307L, 307T, 307-1	Vol.		140	1 Meg. No. 1		See Note A19		16	4	RS216					7	6A8G, 6K7, 6H6, 6F5, 6U5, 6V6, 80	456	9-6
	Tone		140	MR53				9	4	RS213								
309 series	Vol.		140	1 Meg. No. 1		See Note A19		16, 16	4	RS216					9	[3]6K7, 6A8G, 6H6, 6F5G, 6U5, 6L6G, 80	456	9-7,8
	Tone		140	MR53														
	Sen.		7	D														
310	Vol.		18	MR48	M27			25-20-12	75	TN129					10	[3]6D6, 6A7, 85, [4]43, [2]25Z5	456	8-1,2
	Tone		22	‡		See Note A5												
	Sen.		42	D	6													
311	Vol.		45	MR48	M27			25-20-12	75	TN129					11	[3]6K7, 6A7, 6H6, 6C5, [4]43, [2]25Z5	456	8-4
	Tone		‡	MR39														
	Sen.		42	D	6													
337	Vol.		8	D				8	11	TC42					7	6A7, [3]6D6, 85, [2]43, 25Z5	456	9-4
	Tone		44	MR39				20	11	TC47								
								12	11	TC44								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAROD—Continued																		
369	Vol.		17	UM161	M26		A96	16	4	ST597					6	6K8, 6D6, 6Q7, 42, 6U5, 80	456	10-12
	Tone		22	UM161		See Note	A96	8	4	ST595								
370, 371 series	Vol.		20	‡			A19	16	4	TS216					7	6A8G, 6K7G, 6H6G, 6F5G, 6G5, 6L6G, 5Y3, or 6A8, 6K7, 6H6, 6F5, 6G5, 6L6, 5X4	456	8-5
	Tone		22	MR39				9	4	RS213								
								10	15	TC22								
379	Vol.	8.139B	17	MR53	M26			16, 16	4	ST597					7	[3]6D6, 6K8, 6Q7, 42, 6U5, 80	456	10-15,16
	Tone	8.140B	22	MR53				10	15	TC22								
380, 381 series	Vol.		20	‡			A19	16, 16	4	RS216					8	[3]6K7, 6A8, 6H6, 6F5, 6G5, 6L6, 5Y3, or [3]6K7G, 6A8G, 6H6G, 6F5G, 6G5, 6L6G, 5Y3	456	8-6,7
	Tone		34	MR39														
389	Vol.		‡	MRT440	M26			5.338	4	RS216					8	[3]6D6, 6K8, 6Q7, 6V6, 80, 6AF6G	456	11-4
	Tone		‡	MR53				50	4	FP115								
399	Vol.		80	‡			A19	16-16	4	2S569					9	[3]6D6, 6K8, 6Q7, 6AF6G, 6A8G, 6F6, 80	456	11-5, 12-13,14
	Tone		80	MR53														
453	Vol.	8.147	18	MR53	M26			5.358	1	2N514					5	12A8, 12K7, 12SQ7, 50L6, 35Z5	455	11-6
	Tone		22	MR39				40	13	TC48								
								10	15	TC22								
493	Vol.		124	MR53	M26			80-40	1	See Note	B3				9	[3]6D6, 6K8G, 6Q7, 76, [3]25L6G, 25Z5, 6U5	456	11-7
	Tone		22	MR53														
501P, 501PD	Vol.		18	MR53	M26			60-20	24	TN129	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	13-11
511A, 511G, 511P	Vol.		75	MR48	M27			12, 12, 12	3	RS215					12	[4]6K7, 6A8, 6H6, 6E5, [3]6C5, [4]45, 5Z3	456	7-11,12
	Tone		34	MR39	M26			12	13	RS215								
								5	15	TC22								
								25	15	TC36								
514	Vol.		75	MR48	M27			20-12	‡	2N509					14	[4]6K7, 6A7, 6H6, [3]6C5, [4]43, [2]25Z5	456	7-15,16
	Tone		44	MR51	M26			25	‡	RS207								
514M	Vol.		75	MR48	M27			20-12	‡	2N509					15	[4]6K7, 6A7, 6H6, [3]6C5, 6E5, [4]43, [2]25Z5	456	7-17,18
	Tone		44	MR39	M26			30	‡	RS207								
520 Twenty Grand	Vol.	8-113	75	MR48	M27			12, 12, 12	3	RS215					20	[5]6K7, 6A8, [3]6H6, [4]6C5, 6E5, [4]45, [3]5Z3	456	7-19,20
	Tone	8-116	‡	MR39	M26			8, 8	40	RS213								
								12	13	TC74								
								5	15	TC22								
								25	15	TC36								
602, 602C, 602L, 602-1	Vol.		80	1 Meg. No. 1		See Note	A19	20-12	1	2N509					5	6A7, 6K7, 6Q7G, 25L6G, 25Z5	456	9-9,10
	Tone		80	MR53				10	15	TC22								
								7	13	TC42								
610	Vol.		18	MR53	M26			16	1	TC45					5	6A7, 6D6, 6Q7, 25L6, 25Z5, L49BJG	456	11-3
								40	1	TC48								
620	Vol.		18	MR48	M26			20-12	1	2N509					5	6A7, 6K7, 75, 43, 25Z5	456	8-8
								5	15	TC22								
629	Vol.		18	MR53	M26			16-16	1	2N509					5	6K8, 6D6, 6Q7, 25L6, 25Z5	456	10-17
								5	15	TC22								
703E, 703EC, 703EL	Vol.		140	1 Meg. No. 1	M26		A19	20-12	1	2N509					6	6A7, 6K7, 6Q7G, 25L6G, 25Z5, 6U5	456	9-10
	Tone		140	MR53				7	13	TC42								
								10, 10	15	TC22								
729	Vol.		18	MR53	M26			16-16	1	2N509					6	6K8, 6D6, 6Q7, 25L6, 25Z5, 6U5	456	10-17
								5	15	TC22								
731	Vol.		18	MR48	M26			20-12	1	2N509					6	6A7, 6K7, 75, 43, 25Z5, 6G5	456	8-9
	Tone		22	MR39				10	15	TC22								
739	Vol.	8.139B	17	UM161	M26		A96	5.339	1	2N514					6	6K8, 6D6, 6Q7, 25L6, 6U5, 25Z5, L49DJG	456	10-18
	Tone	8.140	22	UM161		See Note	A96	10-10	15	TN111								
762	Vol.		140	1 Meg. No. 1		See Note	A19	40-25	1	2N514					6	6A7, 6D6, 76, 6F5, 25L6G, 25Z5	456	9-13
	Tone		140	MR53				10, 10	15	TC22								
782, 782-1	Vol.		80	1 Meg. No. 1		See Note	A19	40-25	6	2N514					6	6A7, 6D6, 6Q7G, 25L6, [2]25Z5	456	9-11,12
	Tone		80	MR53				10, 10	15	TC22								
803L, 803T, 803-1	Vol.		80	1 Meg. No. 1		See Note	A19	40-25	6	2N514					7	6A8G, 6K7, 6Q7G, 6U5, 25L6, [2]25Z6	456	10-19
	Tone		80	MR53				10, 10	15	TC22								
830, 830C, 830D, 830KC, 831, 831C, 831D, 831KC	Vol.		20	‡			A19	20-12	6	2N509					7	6A8, 6K7, 6H6, 6F5, 6G5, 25A6, 25Z6, or 6A8G, 6K7G, 6H6G, 6F5G, 6G5, 25A6G, 25Z6	456	8-10
	Tone		22	MR39				10, 10	15	TC22								
830A, 831A	Vol.		80	‡			A19	40-25	6	2N514					7	6A8, 6K7, 6Q7, 6G5, 25L6, [2]25Z6, or 6A8G, 6K7G, 6Q7G, 6G5, 25L6, [2]25Z6	456	8-11
	Tone		80	MR53				10, 10	15	TC22								
839	Vol.		17	UM161	M26		A96	5.339	1	2N514					7	[3]6D6, 6K8, 6Q7, 6U5, 25L6, 25Z6	456	10-20
	Tone	8.140	22	UM161		See Note	A96	10-10	15	TN111								
903 series	Vol.		80	1 Meg. No. 1		See Note	A19	80	75	TN129	B8				9	6K7, 6A8G, 6B8G, 6Q7G, 6G5, [2]25L6, [2]25Z6G	456	9-15,16
	Tone		80	MR53				25	75	RS207								
	Sen.		7	D				40	75	RS224								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAROD—Continued																		
930, 931 series	Vol.		17	‡			A19	30-20	75	2N513					9	[2]6K7, 6A8, 6R7, 6G5, [2]25A6, [2]25Z6, or [2]6K7G, 6A8G, 6R7G, 6G5, [2]25A6G, [2]25Z6G	456	8-12-14
	Tone		44	MR39				12	75	TC44								
930A	Vol.		80	‡			A19	60-25-40	75	Order from	Mfr.				9	6K7, 6A8, 6B8, 6Q7, 6G5, [2]25L6, [2]25Z6, or 6K7G, 6A8G, 6B8, 6Q7G, 6G5, [2]25L6G, [2]25Z6	456	8-14
	Tone		80	MR53														
939	Vol.		124	MR53	M26			40-80-25	1/13	See Note	B3				9	[2]6D6, 6K8G, 6Q7, 76, [2]25L6G, 25Z5, 6U5	456	11-8
	Tone		22	MR53				10	15	TC22								
1039	Vol.		37	1 Meg.			A19	80-40-25	75	See Note	B3				10	6K7, 6K8, 6A8, 6B8, 6Z7G, [2]25L6, [2]25Z5 6U5	456	11-9
	Tone		37	MR53														
1040	Vol.		18	MR48	M27			30-12	63	2N513					10	[2]6K7G, 6A8G, 6R7G, [4]25A6G, [2]25Z6G	456	14-32,33
	Tone		44	MR39	M26			20	63	TC45								
1049	Vol.		37			See Note	A19	80-40-25	75	See Note	B3				10	6K7, 6K8, 6A8, 6B8, 6Z7G, [2]25L6, [2]25Z5, 6U5	456	11-9
	Tone		37	MR53														
1203-1204 series	Vol.		80	1 Meg. No. 1		See Note	A19	40-25	75	2N514					12	6K7, 6A8G, 6B8G, 6Q7G, 6U5, [4]25L6, [2]25Z6G	456	9-17,18
	Tone		80	MR53				80	75	TN129	B8							
1239	Vol.		37			See Note	A19	40-25	6	2N514					13	6K8, 6D6, 6Q7, [2]6C8G, [4]25L6, [2]25Z5, 6U5	456	11-10
	Tone		37	MR53				16	13	TC45								
								10-10	15	TN111								
								10	15	TC22								
1240, 1240E, 1240LC	Vol.		17	‡			A19	30-20	75	[2]TC47					12	[2]6K7G, 6A8G, 6H6G, 6C5G, 6G5, [4]25A6G, [2]25Z6G, or [2]6K7, 6A8, 6H6, 6C5, 6G5, [4]25A6, [2]25Z6	456	8-15,16
	Sen.		7	D	6			12	75	TC44								
								10	15	TC22								
1240A	Vol.		80	‡			A19	60-25-40	75	Order from	Mfr.				12	6K7, 6A8, 6B8, 6Q7, 6G5, [4]25L6, [2]25Z6, or 6K7G, 6A8G, 6B8G, 6Q7, 6G5, [4]25L6, [2]25Z6G	456	8-17
	Tone		80	MR53				10	15	TC22								
	Sen.		7	D	6													
1450 (Series A)	Vol.		18	MR53	M26			60-20	24	TN129	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	13-10
1540	Vol.		75			See Note	A19	20-20	3	See Note	B3				15	[2]6K7, 6A8G, 6K8, [4]6C5, 6H6, 6AF6G, [2]6V6G, [2]80	456	11-11
								16-16	3/13	See Note	B3							
								8	13	TC71								
								10	15	TC22								
1550 (Series A)	Vol.		18	MR53	M26			60-20	24	TN129	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	13-10
1603, 1604	Vol.		140	MRT443	M27			80	75	TN129	B8				16	[4]6K7, 6A8G, 6H6, 6U5, 6F5, 6J5G, [4]25L6, [2]25Z6G	456	9-19,20
	Tone		140	MR53	M26			10-10	15	TN111								
	Sen.		7	D	6													
1649	Vol.		15	‡		See Note	A19	40-25	8	2N514					16	[2]6K7, 6K8, 6A8G, 6H6, [2]6C5, [4]25L6, [2]25Z6, 6AF6G	456	10-21,22
								32	8	TC47								
								80	8	TN129	B8							
1650, 1650H and 1650LC	Vol.		20	MRT443	M27			20-12-10-10	75/15	4S715					16	[2]6K7, 6L7, 6H6, 6G5, [2]6C5, [4]25A6, [2]25Z6, or [2]6K7G, 6L7G, 6H6G, 6G5, [2]6C5G, [4]25A6G, [2]25Z6	456	8-18,19
	Tone		‡	MR33	M26			30	75	RS207								
								8-8	13	2N516								
1650A	Vol.		17	1 Meg. No. 1		See Note	A19	25-40-10-10	75/15	Order from	Mfr.				16	[2]6K7, 6L7, 6Q7, 6G5, 6C5, [4]25L6, [2]25Z6, or [2]6K7G, 6L7G 6Q7G, 6G5, 6C5G, [4]25L6, [2]25Z6	456	8-20
	Tone		‡	MR53	M26			60	75	TN129	B8							
								8-8	13	2N516								
1739	Vol.		17	MR53				20-16	1	2N509		V5208	246	C3	7	6K7, 6K8, 6S7G, 6T7G, 6S5G, 6Z7G, 6G5	456	11-12
	Tone		22	MR53				10-10	15	TN111								
								.04		Buffer	B14							
3011	Vol.		124	MR53	M27			40-25-80	24/13	Order from	Mfr.				10	[2]6SK7, 6A8, [2]6J5, 6U5, 6SQ7, [2]25L6, 25Z6	455	12-4
	Tone		22	‡			A5	10, 10	15	TC22								
3012 series	Vol.		140	MRT443	M27			16, 16	25	RS216					12	[2]6K7, 6A8G, 6H6, 6U5, [2]6J5G, [2]6V6G, 80	456	9-21,22
	Tone		140	MR53														
	Sen.		7	D	6													
3016	Vol.		140	1 Meg. No. 1		See Note	A19	16, 16, 16	54	RS216					16	[4]6K7, 6A8G, [2]6H6, 6U5, [2]6J5G, [2]6V6G, [2]80	456	9-23,24
	Tone		140	MR53	M26			16	13	RS216								
	Sen.		7	E	6													
3109	Vol.		124	‡			A19	5.338	1	RS216					10	[2]6D6, 6A8G, 6K8G, 6Q7, 76, [4]41, 80, 6U5	456	11-13
	Tone		21	‡			A5	10	15	TC22								
3119	Vol.		17	MRT440	M26			16, 16	25	RS216					11	6K8, 6D6, 6Q7, [4]76, [2]6V6, 6U5, 80	456	10-23
	Tone		80	MR53				8	13	RS213								
3790	Vol.	8.139B	17	MR53	M26			16, 16	4	ST597					7	[2]6D6, 6K8, 6Q7, 42, 6U5, 80	456	10-15
	Tone	8.140	22	MR53				10	15	TC22								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAROD—Continued																		
4011	Vol.		124	MR53	M27			16	1	RS216					11	[3]6SK7, 6SA7, [3]6J5, 6SQ7, [3]6V6GT, 6U5, 5Y3G	455	12-5,6
	Tone		22	MR53	M26			16	1	RS216								
								10	15	TC22								
4012 series	Vol.		140	MRT443	M27			16, 16	25	RS216					12	[3]6K7, 6A8G, 6H6, 6U5, [3]6J5G, [2]6V6G, 80	456	9-21,22
	Tone		140	MR53														
	Sen.		7	D	6													
4016	Vol.		140	1 Meg. No. 1		See Note A19		16, 16, 16	54	RS216					16	[3]6K7, 6A8G, [2]6H6, 6U5, [3]6J5G, [2]6V6G, [3]80	456	9-23,24
	Tone		140	MR53	M26			16	13	RS216								
	Sen.		7	MR14	M26													
4110	Vol.		20	MRT443	M27			16	1	RS216					11	[3]6K7, 6L7, 6H6, 6F5, 6G5, 6C5, [2]45, 5Y3	456	9-25,26
	Sen.		7	D	6			16	1	RS216								
								5	15	TC22								
4123	Vol.	8.145	140	‡			A19	5.339	6	2N514					12	6SK7, 6K8, 6B8, 6Z7, 6U5, [4]25L6, 6A8, [3]25Z5	455	12-7,8, 12,13
	Tone	8.144	140	MR53				5.340	13	TC45								
								5.341	12	TN129	B8							
								10	15	TC22								
4124	Vol.		140	1 Meg.			A19	40-25-80	6/12	Order from Mfr.					12	[3]6SK7, 6K8, [3]6SQ7, [4]25L6, [3]25Z5, 6U5	455	12-9,10, 12,13
	Tone		140	‡			A5	16	13	TC45								
								10	15	TC22								
4159	Vol.		15	‡		See Note	A19	16, 16	25	ST597					15	[3]6K7, 6K8, 6A8, 6H6, 6AF6G, [4]6C5, [2]6V6, [3]80	456	10-25,26
								16	13	TC74								
4410	Vol.		15	MR53	M27			5-343	1	RS216					10	[3]6SK7, 6K8, 76, 6U5, 80, [3]6V6, [3]6J5	455	12-11-13
	Tone		22	MR53	M26			5-338	1	RS216								
								10	15	TC22								
4990	Vol.		80	‡			A19	16-16	4	2S569					9	[3]6D6, 6K8, 6Q7, 6AF6G, 6A8G, 6F6, 80	456	11-5
	Tone		80	MR53														
5140	Vol.		20	MRT443	M27			16, 16, 16	3	RS216					14	[3]6K7, 6L7, 6H6, 6G5, [3]6C5, [3]6L6, 5Z3, or [3]6K7G,6L7G,6H6G, 6G5, [3]6C5G,[3]6L6G, 5Z3	456	9-27,28
	Tone		‡	MR33	M26			16	13	RS216								
								8-8	13	2N516								
								10	15	TC22								
5240	Vol.		‡	MR53	M27			5-5	1	RS215					24	[3]6K7, 6L7, [4]6C5, 6J7, [3]6H6,6G5,[4]6L6,6X5, [3]5X4	456	8-21-24
	Bass		15	MR53	M26			16	1	RS216								
								9, 9	‡	ST595								
								16, 16	13	RS216								
								8-8-8	13	3S584								
								10	15	TC22								
7390	Vol.		17	MR53	M26			5.339	1	2N514					6	6K8, 6D6, 6Q7, 6U5, 25L6, 25Z5	456	10-24
	Tone		22	MR53				10-10	15	TN111								
GENERAL ELECTRIC																		
A52	Vol.	RV008	18	MR48	M26			RC409	1	RS216					5	6A8, 6K7, 6Q7, 6F6, 5Z4	465	7-1,3
								RC403	1	RS213								
A53	Vol.	RV005	8	A5MP	6	2		RC511	15	TN111								
								RC402	1	RS213					5	5Z4, 6A8, 6F6, 6J7, 6K7	465	6-4
A54	Vol.	RV007	18	MR48	M26			RC403	1	RS213								
								RC511	15	TN111								
A55	Vol.	RV008	18	MR48	M26			RC524	8	2N513					5	6A8, 6K7, 6Q7, 25A6, 25Z6	465	7-5,6
								RC516	8/15	2N509								
								RC409	1	RS216					5	6A8, 6K7, 6Q7, 6F6, 5Z4	465	7-1,3
								RC403	1	RS213								
								RC511	15	TN111								
A60—See RCA—Victor M-32																		
A63	Vol.	RV001	62	MR44	M26			RC409	1	RS216					6	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	6-9-13
								RC403	1	RS213								
A64	Vol.	RV006	19	TM221-SS1				RC501	13/15	2N518	B109							
	Tone	RT704	34	MR18	M26			RC404	1	HD684					6	6A8, 6K7, 6H6, 6J7, 6F6, 5Z4	465	6-14
								RC407	1	RS216								
								RC501	13/15	2N518	B109							
								RC502	13/14	2N518	B109							
A65	Vol.	RV001	62	MR44	M26			RC504	15	TC22								
								RC409	1	RS216					6	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	6-9,10
								RC403	1	RS213								
A67	Vol.	RV006	19	TM221-SS1				RC501	13/15	2N518	B109							
	Tone	RT704	34	MR18	M26			RC404	1	HD684					6	6A8, 6K7, 6H6, 6J7, 6F6, 5Z4	465	6-14
								RC407	1	RS216								
								RC501	13/15	2N518	B109							
								RC502	13/14	2N518	B109							
								RC504	15	TC22								
A70	Vol.	RV002	19	TM221-SS1				RC404	1	HD684					7	5Z4, 6A8, 6C5, 6F6, 6H6, [2]6K7	465	6-19,23
	Tone	RT701	34	MR39	M26			RC407	1	RS216								
								RC502	13/14	2N518	B109							
								RC503	15	TN111								
A75	Vol.	RV002	19	TM221-SS1				RC404	1	HD684					7	5Z4, 6A8, 6C5, 6F6, 6H6, [2]6K7	465	6-19,23
	Tone	RT701	34	MR39	M26			RC407	1	RS216								
								RC502	13/14	2N518	B109							
								RC503	15	TN111								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC—Continued																		
A81—See RCA—Victor P31																		
A82	Vol.	RV003	34/62	DRP311				RC405	1	RS215					8	[2]6K7, 6A8, 6H6, 6C5, [2]6F6, 5Z4	465	6-24-30
	Tone	RT701	34	MR39	M26			RC408	1	RS216								
	Sen.	RS800	7	C				RC502	13/14	2N518	B109							
								RC504	15	TC22								
A83, A85	Vol.	RV009	15	MRT454				RC406	1	RS216					8	[2]6K7, 6A8, 6H6, 6F5, [2]6F6, 5Z4	465	7-21,24
	Tone	RT705	34	MR48	M26			RC415	1	RS216								
								RC525	13/15	3S579								
								RC526	15	TC26								
A87	Vol.	RV003	34/62	DRP311				RC405	1	RS215					8	[2]6K7, 6A8, 6H6, 6C5, [2]6F6, 5Z4	465	6-24,30
	Tone	RT701	34	MR39	M26			RC408	1	RS216								
	Sen.	RS800	7	C				RC502	13/14	2N518	B109							
								RC504	15	TC22								
A125	Vol.	RV004	‡	DRP318				RC406	1	RS216					12	[2]6K7, 6L7, 6C5, [2]6H6, 6F5, [2]6F6, 5Z4	465	7-33,39
	B.Tone	RT702	‡	MR44				RC412	1	RS223								
	T.Tone	RT703	22	MR44	M26			RC509	13/15	TC52/TN111								
	Sen.	RS801	7	C				RC518	13	TC52								
								RC510	19	TC32								
A205	Vol.	RV010	2/45/21	Order from	Mfr.			RC411	46/13	RS223					20	[4]6K7, [2]6H6, [2]6C5, [2]6F6, 6L7, [2]5Z4	465	9-55 to 60,9-69 to 74
	Treble	RT706	‡	MR39	M26			RC515	46	RS216								
	Bass	RT702	21	MR44				RC512	19	TC39								
	Sen.	RS802	7	A20MP				RC520	13/15	Order from	Mfr.							
	Meter	RT707	7	MR14														
A205E	Vol. and Tone	RV026	15/21	Order from	Mfr.			RC411	46/13	RS223					19	[4]6K7, 6L7, [2]6C5, 6H6, 6B8, [4]6F6, [2]6L6, [2]5Z4	465	9-75 to 80
	Bass	RT709	‡	MR39				RC406	13	RS216								
	Vol.	RV024	15	MR48				RC515	46	RS216								
	Sen.	RR192	7	A20MP				RC512	19	TC39								
								RC504	15	TC22								
								RC520	13/15	Order from	Mfr.							
A208	Vol.	RV011	2/45/21	Order from	Mfr.			RC411	46/13	RS223					20	[4]6K7, [2]6H6, [2]6C5, [4]6F6, 6L7, [2]5Z4	465	9-61 to 74
	Treble	RT709	‡	MR39	M26			RC515	46	RS216								
	Bass	RT708	21	MR44				RC512	19	TC39								
	Sen.	RS803	7	A20MP				RC520	13/15	Order from	Mfr.							
	Meter	RT707	7	MR14														
A208E	Vol. and Tone	RV027	15/21	Order from	Mfr.			RC411	46/13	RS223					19	[4]6K7, 6L7, [2]6C5, 6H6, 6B8, [4]6F6, [2]6L6, [2]5Z4	465	9-75 to 80
	Bass	RT709	‡	MR39				RC406	13	RS216								
	Vol.	RV025	15	MR48				RC515	46	RS216								
	Sen.	RR192	7	A20MP				RC512	19	TC39								
								RC504	15	TC22								
								RC520	13/15	Order from	Mfr.							
C30	Vol.		8	MR45		EX300		4	12	TC40					3	78, 77, 38		
								5	15	TC22								
E50	Vol.	RV019	7	E	6	2		RC564	1	2N518					5	6A8, 6K7, 6C5, 6F6, 5W4	465	8-4,6
E51	Vol.	RV018	18	MR48	M26			RC566	8	2N509					5	6A8, 6K7, 6Q7, 25A6, 25Z6	465	8-9,11
								RC565	8/15	2N513								
E52	Vol.	RV019	7	E	6	2		RC564	1	2N518					5	6A8, 6K7, 6C5, 6F6, 5W4	465	8-4,6
E61, E62	Vol.	RV013	15	MRT448	M26			RC413	4	RS216					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	465	7-9,12
								RC403	4	RS213								
								RC567	4	3S584	B20							
E68	Vol.	RV013	15	MRT448	M26			RC413	4	RS216					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	465	7-9,12
								RC403	4	RS213								
								RC567	4	3S584	B20							
E71, E72, E76	Vol.	RV014	15	MRT454				RC413	1	RS216					7	6A8, [2]6K7, 6H6, 6F5, 6F6, 5W4	465	7-13,16
								RC412	1	RS223								
E79	Vol.	RV014	20	MRT454				RC413	1	RS216					7	6A8, [2]6K7, 6H6, 6F5, 6F6, 5W4	465	8-41,46
								RC412	1	RS223								
E81	Vol.	RV015	15	MRT454	M26			RC414	1	RS216					8	[2]6K7, 6A8, 6H6, 6F5, 6L6, 5Z4	465	7-17,20
	Tone	RT710	22	Order from	Mfr.			RC415	1	RS216								
								RC563	13/14	2N518								
E86	Vol.	RV015	15	MRT454	M26			RC414	1	RS216					8	[2]6K7, 6A8, 6H6, 6F5, 6L6, 5Z4	465	7-17,20
	Tone	RT710	22	Order from	Mfr.			RC415	1	RS216								
								RC563	13/14	2N518								
E91	Vol.	RV015	15	MRT454	M26			RC414	1	RS216					9	[2]6K7G, 6A8, 6H6, 6F5, 6C5, 6L6, 5Z4	465	7-25,28
	Tone	RT710	22	Order from	Mfr.			RC415	1	RS216								
								RC562	13/14	3S584								
E95	Vol.	RV015	15	MRT454	M26			RC414	1	RS216					9	[2]6K7, 6A8, 6H6, 6F5, 6C5, 6L6, 5Z4	465	7-25,28
	Tone	RT710	22	Order from	Mfr.			RC415	1	RS216								
								RC562	13/14	3S584								
E101	Vol.	RV015	15	MRT454	M26			RC414	1	RS216					10	[2]6K7, 6A8, 6J7, 6H6, 6F5, 6C5, 6L6, 5Z4	465	7-29,32
	Tone	RT710	22	Order from	Mfr.			RC425	1	RS223								
								RC424	13	RS207								
								RC423	13	RS207								
								RC561	13/15	TC62/TN111								
E105, E106	Vol.	RV015	15	MRT454	M26			RC414	1	RS216					10	[2]6K7, 6A8, 6J7, 6H6, 6F5, 6C5, 6L6, 5Z4	465	7-29,32
	Tone	RT710	22	Order from	Mfr.			RC425	1	RS223								
								RC424	13	RS207								
								RC423	13	RS207								
								RC561	13/15	TC62/TN111								
E115	Vol.	RV020	15	MRT449				RC405	1	RS215					11	[2]6K7, 6A8, 6H6, [2]6C5, [2]6F6, [2]5W4	465	8-57,60
								RC568	1/15	3S584/TC22	B6							

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC—Continued																		
E126	Vol.	RV016	20	DTM291-SS1	M26			RC411	1	RS223					12	[5]6K7, 6L7, 6J7, 6H6,		
	Tone	RT711	41	SRP286	6			RC412	1	RS223						6C5, [5]6F6, 5Z4	465	8-61,70
								RC426	14	ST597								
								RC551	13/15	ST595/TC22								
								RC558	13/15	TC39/TC22								
E129	Vol.	RV016	20	DTM291-SS1	M26			RC411	1	RS223					12	6J7, [5]6K7, 6L7, 6H6,		
	Tone	RT711	41	SRP286	6			RC412	1	RS223						6C5, [5]6F6, 5Z4	465	8-71,81
								RC426	14	ST597								
								RC551	13/15	ST595/TC22								
								RC558	13/15	TC39/TC22								
E155	Vol.	RV017	20	Order from	Mfr.			RC406	3	RS216					15	[5]6K7, 6L7, 6J7, [5]6H6,		
	Tone	RT712	22	Order from	Mfr.			RC411	3	RS223						6C5, 6F6, [5]6L6, [5]5Z4	465	8-83,92
								RC409	3	RS216								
								RC553	13/15	TC39/2N518								
								RC554	13/14	3S584								
								RC504	15	TC22								
F40	Vol.	RV036	6	F7	6	4		RC585	1	3S584					4	6A7, 6B7, 41, 80	455	9-1,2
F51	Vol.	RV039	18	MR55	M26			RC587	4	3S584					5	6A7, 6D6, 75, 41, 80	455	9-7,8
F53	Vol.	RV019	7	E	6	2		RC564	1	2N518					5	6A8, 6K7, 6C5, 6F6, 5W4	465	8-21,22
F63	Vol.	RV028	20	MRT445	M26			RC574	4	3S584					6	6A8, 6K7, 6H6, 6F5, 41, 80	465	8-27,28
F65, F66	Vol.	RV028	20	MRT445	M26			RC574	4	3S584					6	6A8, 6K7, 6H6, 6F5, 41, 80	465	8-27,28
F70	Vol.	RV029	20	MRT445				RC575	1/15	TC74/3S579					7	6A8, [5]6K7, 6H6, 6F5, 42, 80	465	8-29,31
F74	Vol.	RV028	20	MRT445	M26			RC589	1/14/15	TC74/3S579					7	6A8, 6H6, 6K7, 6F5, 41, 80, 6U5	465	9-15,17
F75	Vol.	RV029	20	MRT445				RC575	1/15	TC74/3S579					7	6A8, [5]6K7, 6H6, 6F5, 42, 80	465	8-29,31
F77	Vol.	RV028	20	MRT445	M26			RC589	1/14/15	TC74/3S579					7	6A8, 6H6, 6K7, 6F5, 41, 80, 6U5	465	9-15,17
F80	Vol.	RV029	20	MRT445				RC575	1/14/15	TC74/3S579					8	6A8, [5]6K7, 6H6, 6F5, 42, 80, 6U5	465	9-18,20
F81	Vol.	RV030	20	MRT445				RC569	1/14/15	TC74/3S579					8	6A8, [5]6K7, 6H6, 6F5, 42, 80	465	8-51,55
F85	Vol.	RV029	20	MRT445				RC575	1/14/15	TC74/3S579					8	6A8, [5]6K7, 6H6, 6F5, 42, 6U5, 80	465	9-21,25
F86	Vol.	RV030	20	MRT445				RC569	1/14/15	TC74/3S579					9	[5]6K7, 6A8, 6J5G, 6H6, 6F5, 42, 80	465	9-26,31
F88	Vol.	RV029	20	MRT445				RC575	1/14/15	TC74/3S579					8	6A8, [5]6K7, 6H6, 6F5, 42, 80	465	8-51,55
F96	Vol.	K12J65	20	DTM293-SS1				RC427	1	RS216					9	[5]6K7, 6A8, 6J5G, 6H6,		
								RC428	1	RS223						6F5, 42, 80	465	9-26,31
F107	Vol.	RV033	20	DTM293-SS1				RC579	14/15	Order from	Mfr.				10	[5]6K7, 6A8, [5]6J5G,		
								RC427	1	RS216						[5]6H6, 6L6G, 5Z4	465	9-40,46
								RC428	1	RS223								
F109	Vol.	RV033	15	DTM293-SS1				RC579	14/15	Order from	Mfr.				10	[5]6SK7, 6A8, [5]6J5G,		
								RC427	1	RS216						[5]6H6, 6L6G, 5Z3	465	13-7-15
								RC428	1	RS223								
								RC579	13/14/15	3S579/TC26								
								1000	‡	Order from	Mfr.							
F135	Vol.	RV033	20	DTM293-SS1				RC427	30	RS216					13	[5]6K7, 6L7, [5]6J5G,		
								RC429	30	RS223						[5]6H6G, [5]6L6G, 5Z3	465	9-49,56
								RC580	30/15	Order from	Mfr.							
FA60	Vol.	RV022	15	UM162-SS12				RC570	1/15	3S579		RV200	248	C3	6	[5]6K7, 6A8, 6H6, 6F5, 6F6	175	8-23,26
								.02-.02		Buffer	B14							
FA61	Vol.	RV022	15	UM162-SS12				RC570	1/15	3S579		RV200	248	C3	6	[5]6K7, 6A8, 6H6, 6F5, 6F6	175	8-23,26
								.02-.02		Buffer	B14							
FA80	Vol.	RV022	15	UM162-SS12				RC571	1/15	3S579/TC65		RV200	248	C3	8	[5]6K7, 6A8, [5]6C5, 6H6,		
								.02-.02		Buffer	B14					6R7, 6N7	175	8-47,50
FB52, FB53, FB56, FB57	Vol.	RV023	17	MR55				RC572	13	TN125		RV201	W246	C3	5	1C7G, [1]1D5G, [1]1F7G	465	8-17,20
								RC573	1	TC55								
								.03-.03		Buffer	B14							
FB72, FB73, FB76, FB77	Vol.	RV023	17	MR55				RC572	13	TN125		RV201	W246	C3	7	1C7G, [1]1D5G, 1F7G,		
								RC573	1	TC55						1H4G, 1J6G, 1E5G	465	8-37,40
								.03-.03		Buffer	B14							
FD62	Vol.	RV037	17	MRT449	M26			RC586	40	[2]TC49					5	6A8, 6K7, 6Q7, 43, 25Z5, BL49C	465	9-13,14
FD100	Vol.	RV023	17	MR55				K12J33-303	24/1	FP309					8	1C7G, [1]1D5G, 1F7G,		
								RC5123	1	Order from	Mfr.					[2]5Z6G, 1F5G	465	
								RC572	13	TN125								
FD105	Vol.	RV023	17	MR55				K12J33-303	24/1	FP309					8	1C7G, [1]1D5G, 1F7G,		
								RC5123	1	Order from	Mfr.					[2]5Z6G, 1F5G	465	
								RC572	13	TN125								
FD625	Vol.	RV037	17	MRT449	M26			RC586	40	[2]TC49					5	6A8, 6K7, 6Q7, 43, 25Z5, BL49C	465	9-13,14

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS				No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
GENERAL ELECTRIC—Continued																			
FE62	Vol.	RV031	20	MRT454				RC576	1/14/15	Order from	Mfr.					6	6A7, 6K7, 6H6, 6F5, 42, 80	455	12-19,20
FE63	Vol.	RV028	20	MRT445	M26			RC589	1/14/15	TC74/3S579						6	6A8, 6K7, 6H6, 6F5, 41, 80	465	
FE67, FE68	Vol.	RV031	20	MRT454				RC576	1/14/15	Order from	Mfr.					6	6A7, 6K7, 6H6, 6F5, 42, 80	455	12-19,20
FE82	Vol.	RV030	20	MRT445				RC427	1	RS216						8	½6K7, 6A8, 6H6, 6F5,		
								RC583	‡	3S579/TC74	B141						42, 80	455	12-32
FE87	Vol.	RV030	20	MRT445				RC427	1	RS216						8	½6K7, 6A8, 6H6, 6F5,		
								RC583	1/14/15	3S579/TC74	B141						42, 80	455	12-32
FE112	Vol.	RV034	20	MRT448				RC429	1	RS223						11	½6K7, 6L7, 6J5G, ½6H6,		
								RC428	1	RS223							6F5, 6L6G, 6U5,		
								RC584	14/15	3S579/TC36	B144						5Z3	455	12-57,58
FE116	Vol.	RV034	20	MRT448				RC429	1	RS223						11	½6K7, 6L7, 6J5G, ½6H6,		
								RC428	1	RS223							6F5, 6L6G, 6U5,		
								RC584	14/15	3S579/TC36	B144						5Z3	455	12-57,58
FE119	Vol.	RV034	20	MRT448				RC429	1	RS223						11	½6K7, 6L7, 6J5G, ½6H6,		
								RC428	1	RS223							6F5, 6L6G, 6U5,		
								RC584	14/15	3S579/TC36	B144						5Z3	455	12-57,58
G50	Vol.	RV038	18	MR55	M26			RC587	4	3S584	B8					5	6A7, 6D6, 75, 41, 80	465	9-3,4
G53	Vol.	RV040	20	MRT446	M26			RC593	1	2N518						5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	455	9-9,11
G55	Vol.	RV038	18	MR55	M26			RC587	4	3S584	B8					5	6A7, 6D6, 75, 41, 80	465	9-3,4
G56	Vol.	RV040	20	MRT446	M26			RC593	1	2N518						5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	455	9-9,11
G57	Vol.	RV038	18	MR55	M26			12-8	4	3S584	B8					5	6A7, 6D6, 75, 41, 80	465	9-3,4
G61	Vol.	RV041	17	TM259-SS1				RC594	1/13	3S584						6	6A8G, 6K7, 75, 76, 6AC5G, 5Y3G	455	10-5-8
G64	Vol.	RV040	124	MRT446	M26			RC593	1	2N518						6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G	455	10-15,16
G66	Vol.	RV041	17	TM259-SS1				RC594	1/13	3S584						6	6A8G, 6K7, 75, 76, 6AC5G, 5Y3G	455	10-5-10
G68	Vol.	RV041	17	TM259-SS1				RC594	1/13	3S584						6	6A8G, 6K7, 75, 76, 6AC5G, 5Y3G	455	10-6-10
G69	Vol.	RV041	17	TM259-SS1				RC594	1/13	3S584						6	6A8G, 6K7, 75, 76, 6AC5G, 5Y3G	455	10-5-11
G75	Vol.	RV040	17	MRT446	M26			RC593	1	2N518						7	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G, 6U5	455	10-17,18
G76	Vol.	RV041	17	TM259-SS1				8-8-12	1/13	See Note	B3					7	6A8G, 6K7, 75, 76, 6AC5G, 6U5, 5Y3G	455	10-21
G78	Vol.	RV041	17	TM259-SS1				RC594	1/13	3S584						7	6A8G, 6SK7, 6H6, 6SF5, 76, 6AC5G, 5Y3G	455	10-19,20
G85	Vol.	RV051	17	TM259-SS1				12-8-8	1/13	2N518/TC74						8	6A8G, ½6K7, 6Q7G, 76, 6AC5G, 6U5, 5Y3G	455	10-22-24
G86	Vol.	RV041	17	TM259-SS1				RC594	1/13	3S584						8	6A8G, 6SK7, 6H6, 6SF5, 76, 6AC5G, 6U5, 5Y3G	455	10-25,26
G95	Vol.	RV045	17	MRT451				RC429	25	RS223						9	½6K7, 6A8, 6H6, 6F5,		
								RC596	14/15	TC71/TC26							6J5G, ½6V6G, 5U4G	455	10-27-30
G97	Vol.	K12J65	20	DTM293-SS1				RC247	1	RS216						9	½6K7, 6A8G, 6J5G,		
								RC248	1	RS223							6H6, 6F5, 42, 5Y3G	465	9-47,48
								10-10-4-25	14/15	See Note	B3								
G99	Vol.	RV051	17	TM259-SS1				RC594	46	3S584						9	6A8G, ½6K7, 6H6, 6F5, 76, 6AC5G, 6U5, 5Y3G	455	10-31,32
G105, G106	Vol.	RV042	17	MRT451				RC429	25	RS223						10	½6K7, 6A8G, 6H6, 6F5,		
								RC596	14/15	TC71/TC26							6J5G, ½6V6G, 6U5,		
								RC597	‡	Order from	Mfr.						5U4G	455	9-32,39
G655	Vol.	RV040	124	MRT446	M26			RC593	1	2N518						6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G	455	10-15,16
GA62	Vol.	RV063S	18	MRT427	M26			RC5127S	74	ST595		RV202S	854	C3		6	½6K7, 6A8, 6Q7, 6K6G, 6X5G	465	10-12
								.01		Buffer	B14								
GB400	Vol.	RV059W	18	MR53				RC5118	12	TC52						4	1A7G, 1N5G, 1H5G, 1C5G	455	
GD41, GD41A, GD41U	Vol.	RV043W	7	MR29	M26	EX300		RC598W	1	TN125						4	6D6, 6C6, 25L6G, 25Z5, L55F		9-6
GD44A, GD44B, GD41AU, GD41BU	Vol.	RV046W	7	MR28	M26			RC598W	1/15	TN125						4	6D6, 6C6, 25L6G, 25Z5, L55F		10-2
	Phono.	RV047W	50	MR39															
GD51	Vol.	RV053	6	MR18				RC5113	4/13	FP211						4	6A8G, 6C6, 25L6G, 25Z6G, BL55B	455	10-11
								RC5114	4	TC45									
								RC5115	4	TC48	B12								
GD52	Vol.	RV050	20	MRT449	M26			RC599	4	TCS45						5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5, 49A	455	10-3
								RC5106	4	TCS47	B12								
GD52A	Vol.	RV044	18	MR55	M26			RC599	4	TCS45						5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5, 49A	455	10-4

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC—Continued																		
GD60	Vol.		20	MRT449	M26			RC599	4	TCS45					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5, 49A	455	10-3
								RC5106	4	TCS47	B12							
GD62, GD67	Vol.	RV038	18	MR55	M26			RC596	40	‡TC49					5	6A7, 6D6, 75, 25L6G, 25Z6G, BL49B	465	10-13
GD63	Vol.	RV050	18	MRT449	M26			RC5119	24/15	FP306					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5, 49A	455	10-14
								RC5114	24	TC45	B12							
GD400	Vol.		18	MR53				8	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	10-37
GD500	Vol.	RV056	6	MR24	M26	EX300		RC5120	24	FP211					5	6K7GT, 6F5GT, 6J5GT, 25L6GT, 25Z6GT	455	10-38
GD520, GD521	Vol.	RV060R	18	MR48	M26		A58	RC5125R	24	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	10-39
GD600, GD630	Vol.	RV053	6	MR18	M26			RC5121	4	TCS47					5	6A8G, 6SK7, 6SF5, 25L6G, 25Z6G, BL49B	455	10-41,42
								RC5115	4	TC48	B12							
GD610, GD620	Vol.	RV057	18	MR55				RC5121	4	TCS47					5	6A8G, 6SK7, 6SQ7, 25L6G, 25Z6G, BL49B	455	10-40
								RC5115	4	TC48	B12							
GDE-41A, GDE-41V	Vol.	RV054W	6	MR28	M26			30-20	24	2N514					4	6D6, 6C6, 25L6G, 25Z5		13-3
								10	15	TC22								
GE52	Vol.		18	MR55	M26			12-8-4	4/13	3S584/TC71	B8				5	6A7, 6D6, 75, 41, 80	455	12-13,14
GE53	Vol.		124	MRT446	M26			8-8-4	1/13	3S584					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	455	12-15,16
GE54	Vol.		18	MR55	M26			12-8-4	4/13	3S584/TC71	B8				5	6A8G, 6K7, 75, 6K6G, 5Y3G	455	12-17
GE93, GE96	Vol.		17	‡			A19	30	1	RS223					9	‡6K7, 6L7, 6J5G, 6H6, 6F5, 6L6G, 6U5, 5U4G	455	12-45,46
								20-4-4-25	1/13/15	Order from	Mfr.							
GM11	Vol.		63	MR48	M26			8	12	TC42						12A7		10-1
H73, H77, H78, H79	Vol.	RV067	124	MRT450				RC5130	‡	FP416					7	6SA7, 6SK7, 6H6, 6SF5, 6J5G, 6Y6G, 5Y3G	455	11-1-5
H87	Vol.	RV069	124	MRT451				RC5130	‡	FP416					8	6SA7, 6SQ7, ‡6Y6G, 6J5G, ‡5Y3G, 6SK7	455	11-7-10
H91, H91R	Vol.	7074	8	MR34		See Note A16		G5020	4	TC71					10	24, ‡27, ‡35, ‡47, 80	175	4-1-14
	Tone	7074	‡	MR34		See Note A16												
H116, H118	Vol.	RV069	124	MRT451				RC5130	‡	FP416					11	6SA7, ‡6SK7, 6H6, 6SF5, 6J5G, 6U5, ‡6Y6G, ‡5Y3G	455	11-11-18
H400	Vol.	RV056	6	MR24	M26	EX300		RC5137	24	2N514					4	12B7, 12F5GT, 50L6GT, 25Z5GT		10-45
H406U	Vol.	RV084W	8	MR28	M26			RC5151W	24	2N509					4	12SK7GT, 12SF5GT, 50L6GT, 45Z5GT		11-24
H500, 501, 510, 511, 520, 521 (W and X)	Vol.	RV070	124	MR55	M26			RC5135	24/15	FP311					5	12A8GT, 12SK7, 12SQ7, 35L6GT, 25Z5GT	455	10-47,48
H502	Vol.	RV080	18	MR48	M26			K12J33-366	24/15	FP311					5	12SA7GT, 12B7, 12Q7GT, 35L6GT, 35Z5GT	455	11-53,54
H503	Vol.	RV081	18	MR48	M26			K12J33-306	24/15	FP311					5	12SA7GT, 12B7, 12Q7GT, 35L6GT, 35Z5GT	455	11-53,54
H500U (W and X)	Vol.	RV086	18	MR48	M26			RC5135	24/15	FP311					5	12SA7GT/12A8GT, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-49,50
	Vol.	RV070	17	MR55	M26		A4											
H508	Vol.	RV079	18	MR48	M26			RC5135	24/15	FP311					5	12SA7GT, 12B7, 12Q7GT, 35L6GT, 35Z5GT	455	11-46
H510U (W and X)	Vol.	RV086	18	MR48	M26			RC5135	24/15	FP311					5	12SA7GT/12A8GT, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-50-51
	Vol.	RV070	17	MR55	M26		A4											
H520U (W and X)	Vol.	RV086	18	MR48	M26			RC5135	24/15	FP311					5	12A7GT/12A8GT, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	10-47,48
	Vol.	RV070	17	MR55	M26		A4											
H530, 531, 532	Vol.	RV082	18	MR48	M26			K12J33-306	24/15	FP311					5	12SA7GT, 12B7, 12Q7GT, 35L6GT, 35Z5GT	455	11-53,54
H600, H601	Vol.	RV072	124	MR55	M26			RC5136	24	FP214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT, BL42B	455	10-46
H600U (W and X)	Vol.	RV087	18	MR48	M26			RC5136	24	FP214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	11-59,60
H610, H611	Vol.	RV072	124	MR55	M26			RC5136	24	FP214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT, BL42B	455	10-46, 11-57,58

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC—Continued																		
H610U (W and X)	Vol.	RV087	18	MR48	M26			RC5136	24	FP214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	11-59,60
H620, H621	Vol.	RV072	124	MR55	M26			RC5136	24	FP214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT, BL42B	455	10-49 11-57,58
H620U (W and X)	Vol.	RV087	18	MR48	M26			RC5136	24	FP214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	11-59,60
H622, H623	Vol.	RV072	127	MR55	M26			RC5136	24	FP214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	11-65
H625	Vol.	RV072	124	MR55	M26			RC5136	24	FP214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT, BL42B	455	10-50 11-67-70
H630, H631, H632, H633	Vol.	RV072	124	MR55	M26			RC5136	24	FP214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT, BL42B	455	10-49
H630U, H632U (W and X)	Vol.	RV087	127	MR48	M26			RC5136	24	FP214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	11-59,60
H634, H638, H640	Vol.	RV067	124	MRT450				RC5134	24/13/15	FP410					6	6SA7, 6SK7, 6SQ7, 6J5G, 25L6G, 25Z6G, BL42D	455	11-71-74
H639 (AC-DC)	Vol.	RV078	18	MR48	M26			K26J26	24	2N520		RV203	Order from Mfr.		6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	11-80
H708	Vol.	RV088	18	MRT430	M26			40-20-20 K12J33-113	10/13 10	FP363 FP135	 B197				7	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25C6G, ‡25Z6GT	455	11-75,76
H736	Vol.	RV088	18	MRT430	M26			40-20-20 K12J33-113	10/13 10	FP363 FP135	 B197				7	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25C6G, ‡25Z6GT	455	10-75,76
HB402, HB403	Vol.	RV066	18	MR53	M27			RC5131	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-42
HB408	Vol.		18	MR53	M27			8	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-56
HB-410, HB-411	Vol.	RV066	18	MR53	M27			8	13	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	14-46
HB412	Vol.	RV066	18	MR53	M27			RC5156 RC5157	24 78	2N514 TC2501					4	1A7GT, 3A8GT, 1T5GT, 117L7GT	455	11-47,48
HB504	Vol.		18	MR53	M27			50-20-100	24/78	FP309					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z4GT	455	11-55,56
HB505	Vol.		18	MR53	M27			50-20-100	24/78	FP309					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z4GT	455	11-55,56
HE50	Vol.		124	MRT451	M26			20-40-20-20	24/13/15	FP416					5	6SA7, 6SK7, 6SQ7, 6Y6G, 5Y3G	455	12-3-6
HE64L	Vol.		124	MRT451	M26			20-40-20-20	46/15	FP416					6	6SA7, 6SK7, 6SQ7, 6Y6G, 6U5, 5Y3G	455	12-2-6
HE74	Vol.		17	2 Meg			A19	40-20-20-20 8	46/15 13	FP416 TC52					7	‡6SK7, 6K8, 6SQ7, 6Y6G, 6U5, 5Y3G	455	12-39,40
HE-74L	Vol.	RV065	17	2 Meg		See Note	A19	RC-5130 RC-5100	46/15 13	FP416 TC52					7	‡6SK7, 6K8, 6SQ7, 6U5, 6Y6G, 5Y3G	455	12-40, 13-62,63
HE100, HE100H	Vol.		15	2 Meg			A19	K12J33-407 40	46/13/15 46	FP424 RS224					10	‡6SK7, 6K8, 6H6, 6J5G, 6SF5, ‡6V6G, 6U5, 5U4G	455	12-46, 47-49
HE100L, HE100LH	Vol.		15	2 Meg			A19	K12J33-407 40	46/13/15 46	FP424 RS224					10	‡6SK7, 6K8, 6H6, 6J5G, 6SF5, ‡6V6G, 6U5, 5U4G	455	12-46, 47,49
HE105	Vol.		15	2 Meg			A19	K12J33-407 40	46/13/15 46	FP424 RS224					10	‡6SK7, 6K8, 6H6, 6J5G, 6SF5, ‡6V6G, 6U5, 5U4G	455	12-46, 48,49
HE105L	Vol.		15	2 Meg			A19	K12J33-407 40	46/13/15 46	FP424 RS224					10	‡6SK7, 6K8, 6H6, 6J5G, 6SF5, ‡6V6G, 6U5, 5U4G	455	12-46,48
HE540	Vol.		124	MRT451	M27			40-50-20-20	24/13/15	FP346/TC65					5	6SA7, 6SK7, 6SQ7, 25C6G, 25Z6G, §Ballast	455	12-66
HE640L	Vol.		124	MRT451	M27			40-50-20-20	46/15	FP346/TC65					6	6SA7, 6SK7, 6SQ7, 6U5, 25C6G, 25Z6G, §Ballast	455	12-62
HE-740, HE-740L	Vol.	RV065	17	2 Meg		See Note	A19	RC-5132 RC-5100	46/15 13	FP346/TC65 TC52					7	‡6SK7, 6K8, 6SQ7, 6U5, 25C6G, 25Z6G	455	12-40, 13-62,63
HJ119	Vol.	RV069	124	MRT451				RC5130	46/15	FP416					11	6SA7, ‡6SK7, 6H6, 6SF5, 6J5G, 6U5, ‡6Y6G, ‡5Y3G	455	11-11-13

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC—Continued																		
HJ514	Vol.	RV091	18	MR48	M26			RC5159	24	2N511					5	12SA7GT, 12SK7GT/12SK7, 12SQ7GT/12SQ7, 50L6GT, 35Z5GT	455	11-52
HJ612	Vol.	RV092	18	MR48	M26			RC5136	24	FP214					6	6SA7/6SA7GT, 6SK7GT, 6Q7GT/6Q7G/6Q7, 6J5GT/6J5G, 25L6GT, 25Z6GT/25Z6G	455	11-61
HJ618 (AC)	Vol.	RV078	18	MR48	M26			K26J26	24	2N520		RV203	Order from Mfr.		6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	11-62-64
HJ619	Vol.	RV078	18	MR48	M26			K26J26	24	2N520		RV203	Order from Mfr.		6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	.....
HJ624	Vol.	RV078	18	MR48	M26			K26J26	24	2N520		RV203	Order from Mfr.		6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	11-66
HJ628	Vol.	RV078	18	MR48	M26			K26J26	24	2N520					6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	11-66
HJ737	Vol.	RV088	18	MRT430	M26			40-20-20	10/13	FP363					7	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25C6G, [2]25Z6GT	455	11-75,76
								K12J33-113	10	FP135	B197							
HJ905	Vol.	RV067	127	MRT450				RC5161	10/15	FP416					9	12SA7, 12SK7, [1]12J5GT, 12SF5/12SF5GT, 25C6G, 6AB5/6N5, [2]25Z6GT/[2]25Z6G	455	11-77-79
								RC5160	10	FP135								
HJ908, HJ908B	Vol.	RV067	127	MRT450				RC5161	10/15	FP416					9	12SA7, 12SK7, [1]12J5GT, 12SF5/12SF5GT, 25C6G, 6AB5/6N5, [2]25Z6G/[2]25Z6GT	455	11-77-79
								RC5160	10	FP135								
HJ1005	Vol.	RV069	124	MRT451				40-20-20-20	46/15	FP416					10	6SA7, 6SK7/6SK7GT, 6H6, 6SF5/6SF5GT, 6J5G/6J5GT/6J5, [2]6Y6G, [2]5Y3G, 6U5	455	11-77-79
HJ1205	Vol.	RV069	124	MRT451				RC5130	46/15	FP416					12	6SA7, [2]6SK7/6SK7GT, 6H6, 6SF5/6SF5GT, [2]6J5G/6J5GT, [2]6Y6G, 6U5, [2]5Y3G	455	11-81,82
HM3	Vol.	RV-073	50			See Note A5											455	11-83-86
HM21																		13-1,2
HM80, HM85A	Vol.	RV067	‡	MRT450				RC5150	24	FP211					2	6A8G, 84		11-79
								RC5148	46/15	FP416					8	6K8, [2]6SK7, 6SJ7, 6H6, 6SF5, 6Y6G, 5Y3G	2.1 mc.	12-41
HM136, HM136A	Vol.	RV075	‡	‡		See Note A19		RC5141	46/15	FP429					13	[2]6SK7, 6K8, 6U5, 6SJ7, 6SQ7, 6H6, 6J5G, [2]6L6G, [2]5Y3G	2.1 mc. 455 kc.	11-19-22
HP558, HP559, HP560, HP561	Vol.		18	MR48	M26			30-20	24	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-67
HP657A	Vol.		75	MR48	M26			30-30	24	2N513					6	12SA7, 12SK7, [1]12SQ7, 35L6GT, 35Z5GT	455	12-73
			22	MR48														
J51, J53, J54, J54W	Vol.	RV097	18	MR48	M26			RC5163	24	FP214					5	12SA7/12SA7GT, 12B7, 12SQ7GT, 50L6GT, 35Z5GT	455	12-7,8
J62	Vol.	K26J425	18	MRT430	M26			RC5160	10	FP135					6	6SA7, 6SK7, 6SQ7, 6J5/6J5G, 25L6G, 25Z6/25Z6GT	455	12-21,22
								RC5166	10	TCD55/TC55	B8							
J63	Vol.	K26J125	18	MRT430	M26			RC5160	10	FP135					6	6SA7, 6SK7, 6SQ7, 6J5, 25L6G, 25Z6	455	12-24
	Tone	RT717	22	MR53				RC5166	10	TCD55/TC55	B8							
J64	Vol.	RV098	124	MRT449				RC5164	24/13	FP371					6	6SA7, 6SK7, 6SQ7, 6J5GT, 6Y6G, 5Y3G	455	12-25-27
J65	Vol.	RV078	18	MR48	M26			K26J26	24	2N520					6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	11-66
J71	Vol.	RV098	124	MRT449				RC5164	24/13	FP371					7	[2]6SK7, 6SA7, 6SQ7, 6J5GT/6J5G, 6Y6G, 5Y3G	455	12-28-30
J105	Vol.	RV098	124	MRT449				RC5169	24/13	FP444	B8				10	[2]6SK7, 6SA7, [4]6J5G/6J5GT, [2]6V6G, 5Y3G	455	12-52-55
J501, J501W, J502, J502W	Vol.	RV103W	18	MR48	M26			RC5170W	24	2N509					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-59

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC—Continued																		
J501, W, J502, W (RCVR Ser. No. 10,000 to 50,000)	Vol.	RV108	18	MR48	M26			RC5174	24	2N514					5	12SA7, 12SK7/12B7, 12SQ7, 50L6GT, 35Z5GT	455	12-60
J512	Vol.	RV086	18	MR48	M26			RC5176	24	TN129	B8				5	12SA7GT, 12B7, 50L6GT, 35Z5GT, 12SQ7GT	455	....
J602, J603	Vol.	RV120	18	MR48	M26			RC5183	24	2N521					6	[3]12B7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-68
J614	Vol.	RV120	18	MR48	M26			RC5183	24	2N521					6	[3]12B7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-69
J620	Vol.	K26J425	18	MRT430	M26			RC5160 RC5166	10 10	FP135 TCD55/TC55	B8				6	6SA7, 6SK7, 6SQ7, 6J5/6J5G, 25L6G, 25Z6/25Z6GT	455	12-21,22
J629	Vol.	RV078	18	MR48	M26			K26J26	24	2N520					6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	12-70
J644, J644W	Vol.	RV112	18	MR48	M26			RC5178	24	FP214	B211				6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	12-72
J654, J654W	Vol.	RV112	18	MR48	M26			RC5178	24	FP214	B211				6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	12-72
J664	Vol.	RV120	18	MR48	M26			RC5183	24	2N521					6	[3]12B7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-69
J678	Vol.	RV119	18	MR48	M26			K26J26	24	2N520					6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	12-74
J709	Vol.	RV088	18	MRT430	M26			40-20-20 K12J33-113	10/13 10	FP363 FP135	B197				7	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25C6G, [2]5Z6GT	455	12-75
J718	Vol.	RV098	124	MRT449				RC5132	24/13/15	FP346/TC65					7	[2]6SK7, 6SA7, 6SQ7, 6J5GT/6J5G, 6Y6G, 5Y3G	455	12-76-78
J728	Vol.		124	MRT449				RC5132	24/13/15	FP346/TC65					7	[2]6SK7, 6SA7, 6SQ7, 6J5GT/6J5G, 6Y6G, 5Y3G	455	12-76-78
J805	Vol.	RV098	124	MRT449				RC5165	24/13	FP444	B8				8	[2]6SK7, 6SA7, 6SQ7, 6J5GT/6J5G, [2]6V6GT/6V6G, 5Y3G	455	12-79-81
J808	Vol. Phono.	RV098 RV102	124 63	MRT449 MRT449				RC5168	24/13/15	FP429					8	[2]6SK7, 6SA7, 6SQ7, 6J5GT/6J5G, [2]6V6G/6V6GT, 5Y3G	455	12-82-86
J809	Vol.	RV098	124	MRT449				RC5168	24/13/15	FP429					8	[2]6SK7, 6SA7, 6SQ7, 5Y3G, 6J5GT/6J5G, [2]6V6G/GT	455	12-87
J818	Vol. Phono.	RV098 RV102	124 63	MRT449 MRT449				RC5168	24/13/15	FP429					8	[2]6SK7, 6SA7, 6SQ7, 5Y3G, 6J5GT/G, [2]6V6G/GT	455	12-82-86
J828	Vol. Phono.	RV098 RV102	124 63	MRT449 MRT449				RC5168	24/13/15	FP429					8	[2]6SK7, 6SA7, 6SQ7, 5Y3G, 6J5GT/G, [2]6V6G/GT	455	12-82-86
J1106	Vol.	RV098	124	MRT449				RC5165	24/13	FP444	B8				11	[2]6SK7, 6SA7, [2]6J5GT, 6SQ7, [4]6K6GT, 5Y3G	455	12-89,90
J1108	Vol.	RV098	124	MRT449				RC5165	24/13	FP444	B8				11	[2]6SK7, 6SA7, [2]6J5GT, 6SQ7, [4]6K6GT, 5Y3G	455	12-89,90
JA64	Vol.	RV063S	18	MRT427	M26			RC5127S .01	74	ST595 Buffer	B14	RV202S	854	C3	6	[2]6K7, 6A8, 6Q7, 6K6G, 6X5G	465	.....
JB72	Vol. Tone		140 140	‡ ‡			A19 A19	30-10 10 .03	1 15	FP390 TC22 Buffer	B8 B14	3698	245A	C3	7	[2]6S7, 6K8, 6T7G, 6G6G, 6Z7G, 6AB5	455	12-33-35
JB372	Vol. Tone		140 140	‡ ‡			A19 A19	30-10 10 .03	1 15	FP390 TC22 Buffer	B8 B14	3698	245A	C3	7	[2]6S7, 6K8, 6T7G, 6G6G, 6Z7G, 6AB5	455	12-33-35
JB-410	Vol.		18	MK401				10	12	TC42					4	1R5, 1T4, 1S5, 1S4	455	14-47
JB-420	Vol.	RV106E	18	UM154	M27	See Note A96		10	19	TC22					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	455	14-48
JB508	Vol.	RV100W	18	MR53	M27			RC5167W RC5143W	76 76	2N514 TC2501					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z4GT	455	12-30
JB513	Vol.	RV100W	18	MR53	M27			RC5167W RC5143W	76 76	2N514 TC2501					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z4GT	455	12-63
JB514	Vol.	RV100W	18	MR53	M27			RC5167W RC5143W	76 76	2N514 TC2501					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 1I7Z6GT	455	12-63
JB-520, JB-525	Vol. Tone	RV107E RT716E	18 22	UM154 UM154	M27	See Note A96 See Note A96		10	19	TC22					5	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT	455	14-50

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC—Continued																		
JB523	Vol.	RV100W	18	MR53	M27			RC5167W RC5143W	76 76	2N514 TC2501					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z4GT	455	12-63
JB524	Vol.	RV111W	18	MR53	M27			RC5167W RC5143W	76 76	2N514 TC2501					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z6GT	455	12-63
JB630	Vol.	RV100W	18	MR53	M27			RC5173W RC5177W	76 76	See Note TC26	B3				6	1A7GT, [1]1N5GT, 1H5GT, 3Q5GT, 35Z4GT	455	12-64,71
JB631	Vol.	RV111W	18	MR53	M27			RC5167W RC5143W	76 76	2N514 TC2501					6	1A7GT, [1]1N5GT, 1H5GT, 3Q5GT, 117Z6GT	455	12-64,71
JCP-562	Vol.		18	MR48				40-30	24	2N511					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	14-54
JCP-596	Vol.	P4060	18	MK401	M26			P4212	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	14-55
JE51	Vol.		124	MRT451	M27			40-50-20-20	24/13/15	FP346/TC65					5	6SA7, 6SK7, 6SQ7, 25C6G, 25Z6G	455	12-9-12
JE61	Vol.		124	MRT451	M27			40-50-20-20	24/13/15	FP346/TC65					6	6SA7, 6SK7, 6SQ7, 25C6G, 25Z6G, 6U5	455	12-9-12
JE61L	Vol.		124	MRT451	M27			40-50-20-20	24/13/15	FP346/TC65					6	6SA7, 6SK7, 6SQ7, 25C6G, 6U5, 25Z6G	455	12-18
JE81	Vol.		20	2 Meg.			A19	40-50-20-20	24/13/15	FP346/TC65					8	[2]6SK7, 6J5G, 6V6G, 6SQ7, 5U4G, 6K8, 6U5	455	12-43, 44,51
JE101	Vol.		20	MRT449				40-20-5-40 8	24/13/15 13	FP429 TC52					10	[2]6SK7, [2]6J5G, [2]6V6G, 6SF5, 5U4G, 6K8, 6U5	455	12-16, 50,51
JE107	Vol.		20	MRT449				40-20-5-40 8	24/13/15 13	FP429 TC52					10	[2]6SK7, [2]6J5G, [2]6V6G, 6SF5, 5U4G, 6K8, 6U5	455	12-16, 50,51
JE510	Vol.		124	MRT451	M27			40-50-20-20	24/13/15	FP346/TC65					5	6SA7, 6SK7, 6SQ7, 25C6G, 25Z6G	455	12-9-12
JE530, JE531, JE531X	Vol.		18	MR48	M26			40-20	24	2N514					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-65
JE810	Vol.		20	2 Meg.			A19	40-50-20-20	24/13/15	FP346/TC65					8	[2]6SK7, 6K8, 6J5G, 6SQ7, 25C6G, 6U5, 25Z6G	455	12-88
JFM-90								RC-5169	46	FP429	B192				9	[2]6AB7, 7A4, [2]6SK7, [2]6SJ7, 6H6, 5Y3G	4.3 mc.	13-75,76
JM-4	Vol.	RV-073	50			See Note A5												13-2
JM23								RC5150	24	FP211					2	6A8G, 84		12-1
L500	Vol.	RV108	18	MR48	M26			RC5174	24	2N513					5	12SA7, 12SQ7, 12B7/12SK7, 50L6GT, 35Z5GT	455	12-61
L510	Vol.	RV108	18	MR48	M26			RC5174	24	2N513					5	12SA7, 12B7/12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-61
L-512, L-513	Vol.	RV-108	18	MR48	M26			RC-5174	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-35
L-520, L-521, L-522	Vol.	RV-108	18	MR48	M26			RC-5174	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-35
L-540, L-541, L-542, L-543, L-542M, L-543M	Vol.	RV-108	18	MR48	M26			RC-5174	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-53
L550	Vol.	RV108	18	MR48	M26			RC5174	24	2N513					5	12SA7, 12B7/12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-61
L560	Vol.	RV108	18	MR48	M26			RC5174	24	2N513					5	12SA7, 12B7/12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-61
L-570, L-571, L-572, L-573, L-574	Vol.	RV-108	18	MR48	M26			RC-5174	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-35
L-580	Vol.	RV-108	18	MR48	M26			RC-5174	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-53
L-600, L-601	Vol.	RV-120	18	MR48	M26			RC-5183	24	2N521					6	[2]12B7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-40
L-610, L-611	Vol.	RV-120	18	MR48	M26			RC-5183	24	2N521					6	[2]12B7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-40
L-613	Vol.	RV-131	18	MR48	M26			RC-5183	24	2N521					6	[2]12B7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-44,45
L-621, L-624	Vol.	RV-120	18	MR48	M26			RC-5183	24	2N521					6	[2]12B7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-44,45
L-622	Vol.	RV142W	18	UM161	M26	See Note A96		30-20-100	76	FP309					6	[2]1T4, 1R5, 1S5, 3S4, 45Z3	455	14-56
L-630	Vol. Tone	RV-135 K26J894-4	124 ‡	MRT451 MR48	M26	See Note A19		RC-5164	24/13	FP371					6	6SG7, 6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	13-47

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC—Continued																		
L-631	Vol.	RV-131	18	MR48	M26			RC-5206 RC-5183	1 1	TCD47 2N512	 B12				6	12B7, 12SA7, 12SK7, 12SQ7GT, 35L6GT, 35Z5GT	455	14-58,59
L-632, L-633	Vol.	RV-120	18	MR48	M26			RC-5183	24	2N521					6	[2]12B7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-44,45
L-640	Vol. Tone	RV-135 K26J894-4	17 ‡	MRT451 MR48	 M26			RC-5164	46	FP371					6	6SG7, 6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	13-49,50
L-641	Vol. Tone	K26J894-14 RT-726	124 ‡	MRT451 MR48	 M26			RC-5205	1/13	FP380					6	6SG7, 6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	14-59,60
L-642	Vol.	RV-131	18	MR48	M26			RC-5206 RC-5183	1 1	2N513 2N521	 B12				6	12B7, 12SA7, 12SK7, 12SQ7GT, 35L6GT, 35Z5GT	455	14-58,59
L-643	Vol.	RV-120	18	MR48	M26			RC-5183	24	2N521					6	[2]12B7 or 14A7, 12SA7, 12SQ7GT, 35L6GT, 35Z5GT	455	14-61,62
L-650	Vol.	RV-132	18	MR48	M26			RC-5194	24	2N521					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-53,54
L-651	Vol.	RV-123	18	MR48	M26			RC-5194	1	2N521					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	14-62,63
L-652	Vol.	RV-123	18	MR48	M26			RC-5194	24	2N521					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-53,54
L-653	Vol.	RV-120	18	MR48	M26			RC-5183	24	2N521					6	[2]12B7 or 14A7, 12SA7, 12SQ7GT, 35L6GT, 35Z5GT	455	14-61,62
L-660	Vol.	RV-123	18	MR48	M26			RC-5187	24	2N511					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-57,58
L-663	Vol.	RV-120	18	MR48	M26			RC-5183	24	2N521					6	[2]12B7 or 14A7, 12SA7, 12SQ7GT, 35L6GT, 35Z5GT	455	14-61,62
L-673	Vol.	RV-120	18	MR48	M26			RC-5183	24	2N521					6	[2]12B7 or 14A7, 12SA7, 12SQ7GT, 35L6GT, 35Z5GT	455	14-61,62
L-674	Vol.	RV-120	18	MR48	M26			RC-5206 RC-5183	1 1	2N513 2N521	 B12				6	12B7, 12SA7, 12SK7, 12SQ7GT, 35L6GT, 35Z5GT	455	14-58,59
L678	Vol.	RV119	18	MR48	M26			K26J26	24	2N520					6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	
L-740	Vol. Tone	RV-135 K26J894-9	124 22	MRT451 MR55	 M26			RC-5198	46	FP371					7	6SG7, 6SA7, 6SF7, 6SC7, [2]6K6GT, 5W4	455	13-64,65
L-740 (Revised)	Vol. Tone	RV-135 K26J894-9	20 22	MRT451 MR55	 M26			RC-5198	46	FP371					7	6SG7, 6SA7, 6SF7, 6SC7, [2]6K6GT, 5W4GT	455	14-65,66
L-915	Vol. Tone	K26J894-5 K26J894-6	124 22	MRT451 MR53	 M26			RC-5165	46	Order from Buffer	Mfr. B14				9	6SG7, 6SA7, 6SK7, 6SQ7, [2]6J5GT, [2]6V6GT, 5Y3G	455	13-67,68
L-915W, L-916	Vol. Tone	K26J894-5 K26J894-6	124 22	MRT451 MR53	 M26			K12J33-325	46	FP424	B192				9	6SG7, 6SA7, 6SK7, 6SQ7, [2]6J5GT, [2]6V6GT, 5Y3G	455	13-69,70
LB-412	Vol.	RV110E	18	MK401				10	12	TC42					4	1R5, 1T4, 1S5, 1S4	455	13-31
LB-424	Vol.	RV-143-S	18	MR48	M27			RC-5105	19	TC32					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	455	13-32
LB-502	Vol.		18	MK403	M27			40-40 90	24 78	2N511 TC2501					5	1R5, 1T4, 1S5, 3S4, 35Z3	455	14-49
LB530	Vol.	RV125	55	MR48				RC5189 .006	24/78	Order from Buffer	Mfr. B14	RV204	T4000	C3	5	1A7GT, [2]1N5GT, 1H5GT, 1Q5GT	455	
LB-530X	Vol.	RV-125	18	MR48				RC-5189 .006	24/78	Order from Buffer	Mfr. B14	RV-204	T-4000	C3	5	1A7GT, [2]1N5GT, 1H5GT, 1Q5GT	455	14-51,52
LB-603	Vol.	RV129W	18	MK402	M27			30-20-100	76	FP309					6	[2]1T4, 1R5, 1S5, 3S4, 35Z5GT	455	13-41
LB-612	Vol.	RV129W	18	MK402	M27			30-20-100	76	FP309					6	[2]1T4, 1R5, 1S5, 3S4, 35Z5GT	455	13-41
LB-641, LB-642	Vol.	RV129W	18	MK402	M27			30-20-100	76	FP309					6	[2]1T4, 1R5, 1S5, 3S4, 35Z5GT	455	13-41
LB-700, LB-701, LB-702, LB-703	Vol. Vol.	K33J31-1 K33J31-2	18 18	MR53 MR53	M27 M27			RC-5196 RC-5193	78 78	TC48 TC50/TC2501					7	[2]1T4, 1A7GT, 1H5GT, [2]1T5GT, 117Z6GT	455	13-59,60
LC-608	Vol. Tone	P-4089 P-4531	18 139	TM231-SS22 MK401	M26			P4130	1/15	FP339					6	6SA7, [2]6SK7, 6SQ7, 6K6GT, 5Y3G	455	13-42
LC-619	Vol. Tone	RV-135 K26J894-4	124 ‡	MRT451 MR48	 M26			K12J33-318	24/13	FP371/TC55	B8				6	6SG7, 6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	13-45,46
LC-619W	Vol. Tone	RV-135 K26J894-4	124 ‡	MRT451 MR48	 M26			K12J33-324	1/13	FP390					6	6SG7, 6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	455 455	13-79,80
LC-628, LC-629	Vol.	RV138W	18	MR48	M26			24-16	1	2N509					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	14-57

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC—Continued																		
LC-638	Vol.		18	MR48	M26			24-16	1	2N509					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-51, 14-57
LC-648	Vol.	RV-135	124	MRT451				K12J33-318	24/13	FP371/TC55	B8				6	6SG7, 6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	13-48,52
	Tone	K26J894-4	‡	MR48	M26													
LC-648W	Vol.	RV-135	124	MRT451				K12J33-324	1/13	F2390					6	6SG7, 6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	13-77,78
	Tone	K26J894-4	‡	MR48	M26													
LC-649	Vol.		18	MR48	M26			24-16	1	2N509					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-51
LC-658	Vol.	RV-138W	18	MR48	M26			RC-5202W	46	[3]TC55					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-55,56
LC-679	Vol.	RV-119	18	MR48	M26			K26J26	24	2N520					6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	14-64
LC-758	Vol.	RV-135	15	MRT451				RC-5199	46	FP429	B192				7	6SG7, 6SA7, 6SF7, 6SC7, [3]6K6GT, 5Y3G	455	13-66,67
	Tone	K26J894-9	22	MR55	M26													
LC-759, LC-759B	Vol.	RV135	20	MRT451				RC-5214	46	FP390					7	6SG7, 6SA7, 6SF7, 6SC7, [3]6V6GT, 5Y3G	455	14-66, 67,68
	Tone	K26J894-9	22	MR55	M26													
LC-768	Vol.	RV135	20	MRT451				RC-5214	46	FP390					7	6SG7, 6SA7, 6SF7, 6SC7, [3]6V6GT, 5Y3G	455	14-66, 67,68
	Tone	K26J894-9	22	MR55	M26													
LCP401	Vol.	RV133K	18	MR53	M26			40-40	24	2N511					4	12SA7, 12SQ7, 50L6GT, 35Z5GT	455	14-45
LCP-508	Vol.	RV127W	18	MR48	M26			20	15	TC26								
LCP-596	Vol.	P-4060	18	MK401	M26			24-16	24	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-33
LCP-609	Vol.		18	MR48	M26			P-4683	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	13-39
LF-115, LF-116	Vol.	K26J894-10	124	MRT447-RS243				40-40	24	2N511					6	12SA7, 12SK7, [2]12SQ7, 35L6GT, 35Z5GT	455	13-43
	Tone	RT-725	22	MR48	M26			RC-5200	46/15	FP429					11	[3]6SG7, [3]6SH7, 7K7, [3]6V6GT, 6SQ7, 7Q7, 5U4G	455	13-17-22
LFC-1118	Vol.	K26J894-10	124	MRT447-RS243				RC-5200	46/15	FP429					11	[3]6SG7, [3]6SH7, 7K7, [3]6V6GT, 6SQ7, 7Q7, 5U4G	455	13-17-22
	Tone	RT-725	22	MR48	M26													
LFC-1128	Vol.	K26J894-10	124	MRT447-RS243				RC-5200	46/15	FP429					11	[3]6SG7, [3]6SH7, 7K7, [3]6V6GT, 6SQ7, 7Q7, 5U4G, 6J5/6J5GT	455	13-17-22
	Tone	RT-725	22	MR48	M26													
LFC-1228	Vol.	K26J894-10	124	MRT447-RS243				RC-5200	46	FP429					12	[3]6SG7, [3]6SH7, 7K7, [3]6V6GT, 6SQ7, 7Q7, 5U4G, 6J5/6J5GT	455	13-17-22
	Tone	RT-725	22	MR48	M26			RC-5203	15	TC26								
N60	Vol.	RV770	17	UM163-SS3	M26			RC779	4/15	3S584		RV750	294	C3	6	6F6, 6J7, [3]6K7, 6Q7, 6X5	175	7-7,8
	Tone	RT750	34	MR42				.0075		Buffer	B14							
U50	Vol.		45	MR53				4	12	TC52					5	1A6, 34, 30, 32, 1F4	175	8-7,8
U51, U55	Vol.	RBV001	18	MR53	M26			RBC502	46	TN129		RBV200	246	C3	5	1C6, [3]34, 1B5, 1F4	456	8-12,16
								.01		Buffer	B14							
U70, U75	Vol.	RBV002	45	MR53	M27			RBC504	1	RS207			Order from Mfr.		7	[3]34, 1C6, [3]30, 19	456	8-32,36
	Tone	RBT700	‡	MR42				RBC503	1/13	TN129								
X-105A, X-105V	Vol.	RV-126	127	MR55				RC-5190	21/15	FP331	B3				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-29,30
X-105VB	Vol.	RV-126	127	MR55			A3	RC-5190	24/15	FP331	B3				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-29,30
X-108, X-118	Vol.	RV-136	124	2 Meg.			A19	RC-5197	46/15	FP429					8	7Q7, 6SG7, 6SQ7, 6J5GT, 6U5, [2]25L6GT, 25Z6GT	455	13-5, 6,54
X-225A	Vol.	RV-153	127	‡		See Note	A3	RC-5190	24/15	FP331	B3				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-34,35
X-225V	Vol.	RV-153	127	‡		See Note	A3	RC-5190	24/15	FP331	B3				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-34,35
X-228	Vol.	RV136	124	2 Meg. No. 1			A19	RC5197	46/15	FP429					7	7Q7, 6SG7, 6SQ7, 6J5GT, 6U5, 25L6GT, 25Z6GT	455	14-42, 43,44
20	Vol.	K26J425	18	MRT430	M26			RC5160	10	FP135					6	6SA7, 6SK7, 6SQ7, 6J5, 25L6G, 25Z6	455	14-5
	Tone	RT717	‡	MR53				RC5166	10	Order from	Mfr.							
30	Vol.	RV-135	17	MRT451				RC-5214	46	FP390					7	6SG7, 6SA7, 6SF7, 6SC7, [3]6V6GT, 5Y3G	455	14-6,7
	Tone	K26J894-9	22	MR55	M26													
35	Vol.	RV-093	17	MRT454				RC-5100	24	TC52					10	[3]6SK7, 6K8, [3]6J5G/GT, 6SF5, [3]6V6G, 5U4G, 6U5	455	13-81-84
								RC-5162	46/15	FP429								
40	Vol.	RV-152	17	MRT451				RC-5200	46/15	FP429					11	[3]6SG7, 7Q7, [3]6SH7, 7K7, 6SQ7, [3]6V6GT, 5U4G	455 AM, 455 kc. FM, 4.3 mc.	14-12-16
	Tone	RT725	22	MR48	M26													
For all other General Electric Models see the Cross Reference on next page																		

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

CROSS REFERENCE OF GENERAL ELECTRIC—RCA VICTOR MODELS

A-90—See RCA Victor M30
BX—See RCA Victor R17M
B40—See RCA Victor M34
B52—See RCA Victor M116
B81—See RCA Victor 142B
B86—See RCA Victor 241B
C30—See RCA Victor 91B
C41—See RCA Victor M105
C60—See RCA Victor M107
C61—See RCA Victor M123
C62—See RCA Victor 126B
C67—See RCA Victor 223
C70—See RCA Victor 135B
C75—See RCA Victor 235B
D50—See RCA Victor M101
D51—See RCA Victor M104
D52—See RCA Victor M108
D72—See RCA Victor M109
E52—See RCA Victor T5
H31—See Radiola 80
H32—See RCA Victor R50
H51—See Radiola 82
H51R—See Radiola 82R
H71—See Radiola 86
H71R—See Radiola 86R
H72—See RCA Victor RAE 59
H91, H91R—See Previous Page
J70—See RCA Victor R4
J72—See RCA Victor R70 and R70N
J75—See RCA Victor R6
J80—See RCA Victor R8
J82—See RCA Victor R71
J83—See RCA Victor R-73 with 47's
J83A—See RCA Victor R73 with 2A5's
J85—See RCA Victor R12
J86—See RCA Victor R72
J87—See RCA Victor R75 (47's)
J87A—See RCA Victor R75 (2A5's)
J88—See RCA Victor R71
J100—See RCA Victor R100
J105—See RCA Victor R76
J107—See RCA Victor R77
J109—See RCA Victor RE81
J125—See RCA Victor R78
J125A—See RCA Victor R78 (2)
JZ30—See RCA Victor SW2
JZ822—See RCA Victor R24
JZ822A—See RCA Victor R24A (47)
JZ826—See Victor R24
JX828-J88 with SW adapter
JZ835—See RCA Victor RO23
K40—See RCA Victor R27
K40A—See RCA Victor R18W
K41—See RCA Victor R17M
K43—See RCA Victor 100
K48—See RCA Victor 300
K50—See RCA Victor R28
K50P—See RCA Victor R28P
K51—See RCA Victor R28
K51P—See RCA Victor R28P
K52—See RCA Victor 110
K53—See RCA Victor 111
K53M—See RCA Victor 115
K54—See RCA Victor RE40
K54P—See RCA Victor RE40P
K55—See RCA Victor 210
K58—See RCA Victor 310
K60—See RCA Victor R37
K60P—See RCA Victor R37P
K62—See RCA Victor R11
K63—See RCA Victor 120
K64—See RCA Victor 121
K64D—See RCA Victor 127
K65—See RCA Victor R38
K65P—See RCA Victor R38P
K66—See RCA Victor 220
K66M—See RCA Victor 222
K78—See RCA Victor 330
K79—See RCA Victor 331
K80—See RCA Victor 140 and 140E
K80X—See RCA Victor 141 and 141E
K82—GE K62 in clock cabinet
K85—See RCA Victor 240
K88—See RCA Victor 340
K88X—See RCA Victor 34E
K105—See RCA Victor 261
K106—See RCA Victor R90
K106P—See RCA Victor R90P
K107—See RCA Victor R260
K126—See RCA Victor 280
KZ-62P—See RCA Victor RE18, RE18A
L50—See RCA Victor R22S
L51—See RCA Victor R22W
L52—See RCA Victor 112
L52A—See RCA Victor 112A
L53—See RCA Victor 114
M40—See RCA Victor 102
M41—See RCA Victor 101
M42—See RCA Victor 103
M49—See RCA Victor 301
M50—See RCA Victor 117
M51—See RCA Victor 118
M51—See RCA Victor 118 (mod)
M52—See RCA Victor 119
M55—See RCA Victor 214
M56—See RCA Victor 211
M61—See RCA Victor 128
M62—See RCA Victor 125
M63—See RCA Victor 124
M65—See RCA Victor 221
M66—See RCA Victor 226
M67—See RCA Victor 224
M68—See RCA Victor Duo 321
M69—See RCA Victor 322
M81—See RCA Victor 143
M85—See RCA Victor 243
M86—See RCA Victor 242
M89—See RCA Victor 341
M106—See RCA Victor 262
M107—See RCA Victor 263
M125—See RCA Victor 281
M128—See RCA Victor Duo 380
M128R—See RCA Victor 380HR
M129—See RCA Victor 381
N60—See Previous Page
S22—See RCA Victor R7
S22X—See RCA Victor R7
S22D—See RCA Victor R7 DC
S42—See RCA Victor R9
S42B—See RCA Victor R43
S42D—See RCA Victor R9 DC
S132—See RCA Victor RI0
SZ42P—See RCA Victor RE16
T12—See RCA Victor R5
T11D—See RCA Victor R5 DC
T12E—See RCA Victor R5X
T41—See RCA Victor Radiola 48

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL HOUSEHOLD UTILITIES—See Grunow																		
GENERAL MOTORS—"Day-Fan"																		
"Little General"	Vol.	1202259	24	DRP309			A64	8	4	RS213					6	[24], 45, 80		
	Tone	1202261	22	MR18		See Note	A45	12	4	RS215								
F	Vol.		7	MR34											6	[36], [38]		
	Tone		22	MR39														
"Day-Fan" 5AC	Vol.		11	A400P				2-2-1	3	See Note	B1				6	[27], BH		1-3
"Day-Fan" 25, 26, 27, 28	Vol.		5	MR33				‡	3	See Note	B1				9	[26], 27, [71], 80		1-10
"Day-Fan" 43, 48	Vol.		5	MR33				‡	3	See Note	B1				9	[26], 27, [71], 80		1-10
110	Vol.		24	DRP309			A64	8	4	RS213					6	[24], 45, 80		3-1
	Tone		22	MR18		See Note	A45	12	4	RS215								
120, 130, 140, ("A", "B") Below serial 29100A-1700B	Vol.	1202073	25	Order from	Mfr.			3-2-4-4-5	‡	See Note	B1				8	[24], [27], [45], 80		1-14
	Tone	1200197	41	MR53														
120, 130, 140 ("A", "B") Between serials 29100A & 62100A, & 1700B & 1964B	Vol.	1202419	24	DRP309			A64	3-2-4-4-5	‡	See Note	B1				8	[24], [27], [45], 80		1-15
	Tone		41	MR48														
120, 130, 140 ("A", "B") Above serial 62100A, 1964B	Vol.	1202419	25	DRP309			A64	8, 8, 8	3	RS213					8	[24], [27], [45], 80		1-16
	Tone	1200197	41	MR53														
170E	Vol.	1201388	29	Order from	Mfr.										7	[32], 30, [31]		1-17,18
	Tone	1200197	41	MR53														
180, 190	Vol.	1202419	24	DRP309			A64	8	4	RS213					6	[24], 45, 80		3-1
	Tone		22	MR18		See Note	A45	12	4	RS215								
200-201 (E2)	Vol.	1203490	54	MR35	M26										7	[32], 30, [31]		3-3,4
	Tone	1203455	41	MR53														
211 (S9A, S9B)	Vol.	1206585	6	MR33	M26			8-8	1	TCS71					6	[24], 35, 27, 47, 80	175	3-5,6
216, 217, 219 (S1A, S1B)	Vol.	1204176	6	MR34				1203346	7	RM262					7	24, [35], [27], 47, 80	175	2-7,8
	Tone	1204748	22	MR39				8	7	RS213								
220 (S10A, S10B)	Vol.	1206795	8	MR20	M26			206566	1	TCS71					7	[35], [27], 24, 47, 80	175	2-13,14

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL MOTORS	—"Day-Fan"— Continued																	
250 (S1A, S1B)	Vol.		6	MR33	M26			1203346	28	RM262					7	24,[3]35,[3]27, 47, 80	175	2-7,8
	Tone		22	MR39				8	28	RS213								
251 (S2A, S2B)	Vol.	1204177	84	MR19	M26			C6629	28	RS213					8	24,[3]35,[3]27, 47, 80	175	2-9,10
	Tone	1204749	22	MR39				8	28	RS213								
252, 253, 254, 255 256, 257, 258 (S3A, S3B)	Vol.	1204246	84	MR19	M26			8, 8, 8	28	RS213					10	24,[3]27,[3]35,[3]45, 80	175	2-11,12
	Tone	1205253	44	MR33				15	20	TC36								
281 (R1A)	Vol.		‡	G7		See Note A44									2	36, 37	535	3-7,8
290, 291, 292, 293 (S4A, S4B)	Vol.	1204615	7	MR40	M26			8, 8	1	RS213					10	24,[3]27,[3]35,[3]45, 80	175	5-1,2
	Tone		22	‡		See Note A5												
A5003	Vol.		4	MR33				5-3-3-1	3	See Note	B1				9	[3]26, 27,[3]45, 80		1-12
A5005	Vol.		12	MR33				1-3-5-4	3	See Note	B1				7	[3]24, 27, 80,[3]45		2-1,2
A5010	Vol.	14230	4	MR44				1-3-3-5	3	See Note	B1				9	[3]26, 27,[3]45, 80		1-12
A5020	Vol.	14588	12	MR33				1-3-4-5	3	See Note	B3				7	[3]24, 27,[3]45, 80		2-1,2
5051, MG Set	Vol.		26	MR39				2-12-4	3	See Note	B3				6	[3]01A		1-5
5052	Vol.		26	MR33											6	[3]01A		1-8
5057	Vol.		26	MR24				2-2-2	3	See Note	B1				7	[3]Kellog, BH		1-6
5060	Vol.		26	MR24											6	[3]01A		1-8
5065 AC	Vol.		26	MR33											6	[3]26, 27, 71		1-7
5066	Vol.		26	MR33												‡		1-7
5077	Vol.		2	MR33				‡	3	See Note	B1				9	[3]26, 27,[3]71, 80		1-11
5080	Vol.		2	MR33				‡	‡	See Note	B1				9	[3]26, 27,[3]71, 80		1-11
5091	Vol.		4	G7				5-3-1-2	3	See Note	B1				9	[3]26, 27,[3]45, 80		1-13
GENERAL TELEVISION "A," "B," "C" "E," "SW"	Vol.		6	MR33	M26			20-4-10	6/15	UR182	B110				4	12Z3, 43, 44, 77		§6-9
	Tone		22	MR39	M27													
"G," "GSW," "M," "MSW"	Vol.		6	MR18				4-4	4	See Note	B3				4	58, 57, 47, 80		§6-9
	Tone		22	MR39														
457	Vol.	1050	6	MR18	M26	EX300		2000	4	2S567					4	58, 57, 47, 80		§10-5
557	Vol.	1050	69	MR18	M26	EX300		2000	4	2S567					5	[3]58, 57, 47, 80		§10-5
GENERAL TELEVISION & RADIO CORP. F56W	Vol.		18	MR48	M27			10	12	TC44					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	456	14-3,4
PR4	Vol.		6	MR24				12-12-5-5	6/15	4S715					4	6F7, 6C6, 43, 25Z5		§9-4
19 (Single End Tubes)	Vol.	2009-X	18	MR48	M26			346	24	2N514					5	12SA7G/GT, 12SK7G/GT, 12SQ7G/GT, 50L6G/GT, 35Z5G/GT	456	14-1
19 (Double End Tubes)	Vol.	2009-F	18	MR48	M26			346	24	2N514					5	12A8G/GT, 12K7G/GT, 12Q7G/GT, 50L6G/GT, 35Z5G/GT	456	14-2
26	Vol.	2009-X	18	MR48	M26			346	24	2N514					5	12SA7G/GT, 12SK7G/GT, 12SQ7G/GT, 50L6G/GT, 35Z5G/GT	456	14-1
34	Vol.	2009-X	18	MR48	M26			346	24	2N514					5	12SA7G/GT, 12SK7G/GT, 12SQ7G/GT, 50L6G/GT, 35Z5G/GT	456	14-1
47	Vol.	2009-X	18	MR48	M26			346	24	2N514					5	12SA7G/GT, 12SK7G/GT, 12SQ7G/GT, 50L6G/GT, 35Z5G/GT	456	14-1
49	Vol.	2009-X	18	MR48	M26			346	24	2N514					5	12SA7G/GT, 12SK7G/GT, 12SQ7G/GT, 50L6G/GT, 35Z5G/GT	456	14-1
51 (Single End Tubes)	Vol.	2009-X	18	MR48	M26			346	24	2N514					5	12SA7G/GT, 12SK7G/GT, 12SQ7G/GT, 50L6G/GT, 35Z5G/GT	456	14-1

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL TELEVISION & RADIO CORP.— Continued																		
51 (Double End Tubes)	Vol.	2009-F	18	MR48	M26			346	24	2N514					5	12A8G/GT, 12K7G/GT, 12Q7G/GT, 50L6G/GT, 35Z5G/GT	456	14-2
54	Vol.	2009-X	106	MR48	M26			348	46	TN129					6	12A8G/GT, 12K7G/GT, 12Q7G/GT, ²50L6G/GT, 35Z5G/GT	456	14-4
	Tone	2036-X	106	MR44														
57	Vol.	2009-X	18	MR48	M26			346	24	2N514					5	12SA7G/GT, 12SK7G/GT, 12SQ7G/GT, 50L6G/GT, 35Z5G/GT	456	14-1
88	Vol.	2009-X	18	MR48	M26			346	24	2N514					5	12SA7G/GT, 12SK7G/GT, 12SQ7G/GT, 50L6G/GT, 35Z5G/GT	456	14-1
91	Vol.	2009-X	18	MR48	M26			346	24	2N514					5	12SA7G/GT, 12SK7G/GT, 12SQ7G/GT, 50L6G/GT, 35Z5G/GT	456	14-1
411	Vol.	2042	6	MR20	M26		A14	343	24	2N514					4	12K7GT, 12SQ7GT, 50L6GT, 35Z5GT		14-5
421	Vol.	2042	6	MR20	M26		A14	343	24	2N514					4	12K7GT, 12SQ7GT, 50L6GT, 35Z5GT		14-5
511A	Vol.	2009-F	18	MR48	M26			346	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	456	14-6
520	Vol.	2009-F	18	MR48	M26			346	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	456	14-5
521	Vol.	2009-F	18	MR48	M26			346	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	456	14-6
530	Vol.		18	MR48	M27			40-20	76	2N514					5	1A7G, 1N5G, 1H5G, 1T5G, 35Z5G	456	14-2,7
								10	76	TC22								
								70	78	Order from Mfr.								
616	Vol.	2009X	106	MR48	M26			348	46	TN129					6	12A8G/GT, 12K7G/GT, 12Q7G/GT, ²50L6G/GT, 35Z5G/GT	456	14-4
	Tone	2036X	106	MR44														
GILFILLAN																		
X	Vol.		17	‡		See Note A3		8-12	24	3S584	B8		292	C3	5	6A8, 6K7, 6Q7, 6F6, 84		
	Tone		22	‡		See Note A3		10	15	TC22								
								.01		Buffer	B14							
4T	Vol.		6	MR18			A14	4-4	23	2S567					4	2A5, 57, 58, 80		5-3
5AD	Vol.		18	MR48	M26			20-20	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4	460	11-3
5B8	Vol.	A33005	18	MR48				10005	23	2S567					5	6A8, 6K7, 6Q7, 6F6, 5Z4	460	9-1
5C, 5T	Vol.		18	MR48	M26			8-4	23	2S567					5	2A5, 2A6, 57, 58, 80	175	5-3
	Tone		22	MR33														
5G-S, 5G-T	Vol.		18	MR48				8-8	23	2S567					5	6SA7, 6SK7, 6SQ7, 6V6GT, 5W4	460	12-1
	Tone		22	MR33														
5G8, 5G8T	Vol.	A33005	18	MR48				10005	23	2S567					5	6A7, 78, 75, 42, 80	460	9-1
5L	Vol.		18	MR48	M27			40-40-40	46	FP357					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6GT	460	12-1
5SJ	Vol.		18	MR48				8-8	23	2S567					5	6A8, 6K7, 6Q7, 6F6, 5W4	460	10-2
5S8, 5S8T	Vol.	A33005	18	MR48				A10005	23	2S567					5	6A7, 78, 75, 42, 80, or 6A8, 6K7, 6Q7, 6F6, 5W4	460	9-2
5T8	Vol.		18	MR48	M26			A10005	23	2S567					5	6A8, 6K7, 6Q7, 6F6, 5W4 or 5Z4	460	
5 tubes all wave	Vol.		18	MR44	M26			8-4	1	2N518					5	6A7, 78, 75, 42, 80	460	
								10	19	TC22								
5X	Vol.		6	MR21				8-16	6	2N509					5	25Z5, ³36, 39, 43	450	5-4
6B	Vol.		18	MR48				40-40-100	24/78	FP309	B117				6	1A7GT, ²1N5GT, 1H5GT, 3Q5GT, 6X5GT	460	12-4
6C, 6T	Vol.		15	MR48	M26			8-8	4	2S567					6	2A5, 2A7, 55, ³58, 80	262.5	5-1
	Tone		22	MR33				10	15	TC22								
6K, 6L, 6R	Vol.		18	MR48	M26			20-20	1	2N509					6	²12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	460	12-2

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GILFILLAN—Continued																		
6U	Vol.		18	MR48				16-4	23	3S584	B8				6	6K8, 6SK7, 6SQ7, 6V6GT, 6U5G, 6X5G	460	12-2
	Tone		22	MR44														
6X8	Vol.		17	MR48	M26			8, 8	23	TC71					6	6A7, 78, 75, 42, 6U5, 80	175	9-2
	Tone		22	MR33				10	19	TC32								
7A	Vol.		15	UM154		See Note	A96	8-8	1	2N518			296	C3	7	76, ‡77, 78, 85, 42, 84	175	6-7
								10	15	TC22								
								.015		Buffer	B14							
7 tubes all wave	Vol.		18	MR44	M26			8-8	1	2N518					7	6A7, ‡78, 75, ‡42, 80	460	6-9
								10	19	TC32								
7C8, 7T8	Vol.		18	MR48				8	25	RS213					7	6A7, 78, 6H6, 6F5, 42, 6T5, 80	460	9-3
	Tone		22	MR33				10	19	TC22								
8C, 8T	Vol.		15	MR48	M26			8-8	36	See Note	B3				8	‡2A5, 2A7, 55, 56, ‡58, 80	262.5	5-1,2
	Tone		85	MR33														
8C8	Vol.		45	MR48				8, 8	1	ST595					8	‡6K7G, 6A8G, 6H6G, 6F5G, 6F6G, 5Y3, 6U5	460	9-4
	Tone		22	MR33														
	Sen.		7	D														
8C8E	Vol.		18	MR48				8, 8	1	ST595					8	‡6K7G, 6A8G, 6H6G, 6F5G, 6F6G, 6U5, 5Y3	460	9-5
	Tone		22	MR33														
	Sen.		7	D														
8T8	Vol.		45	MR48				8, 8	1	ST595					8	‡6K7G, 6A8G, 6H6G, 6F5G, 6F6G, 6U5, 5Y3	460	9-4
	Tone		22	MR33				10	19	TC32								
	Sen.		7	D														
8T8E	Vol.		18	MR48				8, 8	1	ST595					8	‡6K7G, 6A8G, 6H6G, 6F5G, 6F6G, 6U5, 5Y3	460	9-5,6
	Tone		22	MR33				10	19	TC32								
	Sen.		7	D														
8X	Vol.	5-011-012	7/83	DRP314	M26			8-8	74	2N518		18318	294	C3	8	‡6K7, 6A8, 6R7, 6C5, ‡6F6, 84	265	7-1
	Tone	6590	22	MR33				10	19	TC22								
								.01		Buffer	B14							
11F, 11G	Vol.		20	500M			A19	40, 40	1	RS224					13	‡6SK7, 6K8, 6H6, 6F5GT/6J7GT, ‡6V6GT, 6SF5, ‡6U5, 6SJ7G, ‡6X5GT	460	12-3,4
	Phono.		‡	MR48	M26			10	15	TC22								
								50	15	TC29								
13A	Vol.		18	500M			A19	40, 40	1	RS224					13	‡6SK7, 6K8, 6H6, 6F5GT/6J7GT, ‡6V6GT, 6SF5, ‡6U5, 6SJ7G, ‡6X5GT	460	12-3,4
	Phono.		‡	MR48	M26			10	15	TC22								
								50	15	TC29								
13C8	Vol.		15	500M No. 1		See Note	A19	18	1	RS219					13	‡6K7G, 6A8G, 6H6G, 6F5G, ‡6C5G, ‡6F6G, ‡5Y3, 6U5	460	9-7
	Sen.		7	D				10	1	RS215								
13C8E	Vol.		18	500M No. 1		See Note	A19	18	1	RS219					13	‡6K7G, 6A8G, 6H6G, 6F5G, ‡6C5G, ‡6F6G, 6U5, ‡5Y3	460	9-7
								10	1	RS215								
								25	19	TC36								
30	Vol.		6	MR18				4-4	4	TCS71					4	2A5, 57, 58, 80		5-3
32	Vol.		17	MR48	M26			8-4	4	TCS71					5	2A5, 2A6, 57, 58, 80	175	5-3
	Tone		22	MR33														
33	Vol.		3	MR18				‡	3	See Note	B4				8	‡27, ‡12A, 80		1-1
34	Vol.		6	MR21				16-8	6	2N509					5	25Z5, ‡36, 39, 43	450	5-4
35 with 71's	Vol.		7	MR34				2-2-4	3	See Note	B1				8	‡27, ‡71, 80		6-1
35 with 2A5	Vol.		18	MR48	M26			8-4	4	TCS71					5	57, 58, 2A6, 2A5, 80	175	5-3
	Tone		22	MR33														
41	Vol.		17	MR48	M26			8-4	4	TCS71					5	2A5, 2A6, 57, 58, 80	175	5-3
	Tone		22	MR33														
42A	Vol.		6	H7				5-5	23	See Note	B3				4	42, 77, 78, 80		6-2
43A	Vol.		6	MR18	M26			4-4	23	TCS71					4	2A5, 57, 58, 80		6-2
44	Vol.		3	MR18				‡	3	See Note	B3				8	‡27, ‡12A, 80		1-1
47, 50	Vol.		15	MR48	M26			8-8	36	See Note	B3				8	‡2A5, 2A7, 55, 56, ‡58, 80	262.5	5-1,2
	Tone		85	MR33														
52A, 54A	Vol.		6	MR21				4-4	4	TCS71					5	‡77, 78, 42, 80	460	6-5
54A (Late)	Vol.		18	MR48				8-8	23	2S567					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G	460	§11-3
	Tone		22	MR33														
55A, 55B	Vol.		6	MR21				16-8	6	2N509					5	25Z5, ‡36, 39, 43	450	5-4
56S	Vol.		18	MR48				8-8	23	2S567					5	6A7, 78, 75, 41, 80	460	10-1
	Tone		22	MR33														
60	Vol.		86	MR28				2-2-3	3	See Note	B1				7	‡26, 27, 71, B11		1-2
62BX	Vol.		17	MR48	M26			8-4	23	See Note	B3				6	5Z4, 6F5, 6F6, 6H6, 6J7, 6K7	175	6-4
	Tone		22	MR33														
63B, 63X (AC)	Vol.		17	MR44	M26			8-8	1	See Note	B3				6	5Z4, 6A8, 6F5, 6F6, 6H6, 6K7	460	6-4
								10	19	TC32								
66	Vol.		3	E12				‡	3	See Note	B1				9	‡10, ‡27, ‡81		1-2
66S	Vol.		18	MR48				12	25	ST597					6	6K8, 78, 75, 41, 80, 6U5	460	10-1
	Tone		22	MR33				16, 16	25/13	ST597								
67A, 67R	Vol.		18	UM154			A96	A10002	4	2S567		V5105	294	C3	6	‡6K7, 6A8G, 6Q7G, 6K6G, 84	252.5	
	Tone		22	UM134			A96	.005		Buffer	B14							
77	Vol.		3	MR18				‡	3	See Note	B4				8	‡12, ‡27, 80		1-1
77R	Vol.		45	UM154			A96	A10002	4	2S567		V5105	294	C3	7	‡6K7G, 6A8G, 6H6G, 6F5G, 6F6G, 84	252.5	
	Tone		22	UM134			A96	.005		Buffer	B14							
78B, 78X	Vol.		17	MR48				8-8	1	See Note	B3				7	5Z4, 6A8, 6F5, 6F6, 6H6, ‡6K7	460	6-5
	Tone		76	MR33				10	19	TC22								
87R	Vol.		45	UM154		See Note	A96	A10002	4	2S567		V5105	294	C3	8	‡6K7G, 6A8G, 6H6G, 6F5G, 6C5G, 6N7G, 84	262.5	
	Tone		22	UM133		See Note	A96	.005		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GILFILLAN—Continued																		
100 with 45	Vol.		6	MR18				2-2-2	3	See Note	B1				8	‡27, 45, 80		1-1
100 with PP71	Vol.		58	MR34				2-2-4	3	See Note	B1				8	‡27, ‡71A, 80		6-1
105, 106 (1st Type)	Vol.		6	MR21				2-2	1	See Note	B1				6	‡24, 45, 80		3-1
	Tone		22	MR21														
116B, 116X, 117B, 117X	Vol.		46	MR48	M26			16	1	RS216					11	‡6K7, 6A8, 6H6, ‡6C5, ‡6F6, 5Z4	460	6-6
	Tone		76	MR44				18	1	RS216								
	Sen.		7	UC500				10	19	TC32								
402T	Vol.		6	MR21			A14	5-5	23	TCS71					4	78, 77, 42, 80		7-2
410	Vol.		6	MR18				4-4	23	TCS71					4	57, 58, 2A5, 80		6-7
412T	Vol.		6	MR18			A14	4-4	23	TCS71					4	58, 57, 2A5, 80		7-2
501T	Vol.		18	MR48				5, 5	23	ST595					5	6A7, 6D6, 75, 42, 80	460	9-8
	Tone		22	MR33				10	15	TC22								
510	Vol.		18	MR48	M26			8-4	23	TCS71					5	57, 58, 2A6, 80, 2A5	175	6-8
	Tone		22	MR33														
515	Vol.		18	MR44	M26			8-4	1	2N518					5	6A7, 78, 75, 42, 80	460	6-9
								10	19	TC22								
520	Vol.		18	MR48	M26			8-4	23	TCS71					5	57, 58, 2A6, 2A5, 80	175	6-8
	Tone		22	MR33														
521T-C	Vol.		18	MR48				5-5	23	TCS71	B3				5	6A7, 6D6, 75, 42, 80	460	8-1
	Tone		22	MR33				10	15	TC22								
525	Vol.		18	MR44	M26			8-4	1	TCS71					5	6A7, 78, 75, 42, 80	460	6-9
								10	19	TC32								
615	Vol.		15	MR48	M26			8-8	4	See Note	B3				6	2A7, ‡58, 55, 2A5, 80	262.5	6-10
	Tone		22	MR33				10	15	TC22								
625	Vol.		15	MR48	M26			8-8	4	See Note	B3				6	2A7, ‡58, 55, 2A5, 80	262.5	6-10
	Tone		22	MR33				10	15	TC22								
700	Vol.		15	UM154		See Note	A96	8-8	1	2N518			296	C3	7	42, 76, ‡77, 78, 84, 85	175	6-7
								10	15	TC22								
								.015		Buffer	B14							
711T	Vol.	8116	45	MR48	M26			8-4	23	TCS71					7	6A8, 6K7, 6H6, 6G5, 6F5, 6F6, 5Y3	175	8-2
	Tone	8117	22	MR33														
715	Vol.		18	MR44	M26			8-8	1	See Note	B3				7	6A7, ‡78, 75, ‡42, 80	460	6-9
								10	19	TC32								
723T-C	Vol.		45	MR44				8	12	TC42					7	1C6, ‡34, ‡30, 32, 19	460	7-2
	Tone		41	MR48				5	78	TC42								
725	Vol.		18	MR44	M26			8-8	1	2N518					7	6A7, ‡78, 75, ‡42, 80	460	6-9
								10	19	TC32								
731T-C	Vol.		124	MR48	M26			8-8	1	2N518					7	6A8, 6K7, 6H6, 6G5, 6F5, 6F6, 5Y3	460	8-3
	Tone		22	MR33				10	19	TC22								
815, 825	Vol.		15	MR48	M26			8-8	36	See Note	B3				8	2A7, ‡58, 55, 56, ‡2A5, 80	262.5	6-10
	Tone		22	MR33														
831T-C	Vol.	5-011-012	7/17	DRP314				16	1	RS216					8	‡6K7, 6A8, 6B7, 6G5, 6F6, 5Y3	462	7-3
	Tone	1-010-334	22	MR33				18	1	RS219								
								10	19	TC22								
1131C	Vol.		7/83	DRP314				16	1	RS216					11	‡6K7, 6A8, 6R7, 6G5, ‡6C5, ‡6F6, 5X4G	462	7-4
	Tone		44	MR33				18	1	RS219								
								8	13	TC71								
								25	19	TC26								
1331C	Vol.		7/46	DRP314				16	1	RS216					13	‡6K7, 6A8, 6H6, 6G5, 6Q7, ‡6C5, ‡6F6, 5X4G	462	8-4
	Tone		44	MR33				8	13	TC71								
								25	15	TC26								
GILT EDGE—See Airking																		
GLORIATONE—See U. S. Radio & Tel.																		
GOLDENTONE																		
L5	Vol.	P660	18	MR48	M26			P474	32	HD684					7	5Z4, 6F5, 6H6, 6K7, 6L7, 6C5, 6F6	456	
	Tone	P661	34	MR39				P160	32	2S567	B81							
								P304	15	TC22								
L6	Vol.	P660	18	MR48	M26			P474	32	HD684					8	5Z4, 6C5, ‡6F6, 6K7, 6L7, ‡6Q7	456	
	Tone	P661	44	MR39				P160	32	2S567	B81							
								P304	15	TC22								
L7	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, 19, ‡30, ‡34	456	
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
Z4	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 19, ‡30, 32, 34	456	
	Tone	P682	44	MR39				.01-.01		Buffer	B14							
Z5	Vol.	P691	45	Order from	Mfr.			P958	1	2N516		P402	245C	C3	6	1C6, 19, ‡30, 32, 34	456	
	Tone	P962	44	MR39				.01-.01		Buffer	B14							
GOLD MEDAL																		
L5	Vol.	P660	18	MR48	M26			P474	32	HD684					7	5Z4, 6F5, 6F6, 6H6, 6K7, 6L7, 6C5	456	
	Tone	P661	34	MR39				P160	32	2S567	B81							
								P304	15	TC22								
L6	Vol.	P660	18	MR48	M26			P474	32	HD684					8	5Z4, 6C5, ‡6F6, 6K7, 6L7, ‡6Q7	456	
	Tone	P661	44	MR39				P160	32	2S567	B81							
								P304	15	TC22								
L7	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, 19, ‡30, ‡34	456	
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GOLD MEADAL—Continued																		
Z4	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 19, [3]30, 32, 34	456	
	Tone	P682	44	MR39				.01-.01		Buffer	B14							
Z5	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 19, [3]30, 32, 34	456	
	Tone	P962	44	MR39				.01-.01		Buffer	B14							
GOODRICH																		
R399	Vol.		18	MR53	M26			5-5	23	RM262					5	6A7, 6D6, 75, 41, 80	456	12-1,2
R400	Vol.	P912	18	MR48	M26			P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	12-2,3
R401	Vol.	P934	18	MR48	M26			8-4	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5W4	456	12-4
	Tone	P943	34	MR39														
R404	Vol.	P1579	18	MR48	M26			P1591	23	2S567					6	6A7, 6D6, 75, 41, 6H5, 80	456	12-2,5
	Tone	P1642	22	MR39														
R405	Vol.	P1749	139	MRT427	M26			16-4	23	3S584	B8				7	6A7, 6D6, 76, 75, 42, 6U5, 80	456	12-1,2,7
	Tone	P1750	139	UM160-SS1				10	19	TC22								
R410	Vol.	P1158	15	MRT436	M26			P1156	1	RS223					11	[3]6K7, 6A7, 6H6, [3]6C5, [3]6F6, 6G5, 5Z3	456	12-6
	Tone	P1159	44	MR33				P1155	1	RS216								
	Vol.	P1166	15	MRT440	M26		A4	P1154	13	RS224								
	Tone	P1167	44	MR33			A4	5	15	TC22								
R411	Vol.	P1821	140	MRT436	M26			P1825	1/13	3S584					8	6A7, 6D6, [3]76, 75, [3]42, 80	456	12-7
	Tone	P1822	140	UM160-SS1				P1873	15	TC22								
R412	Vol.	P2935	18	MR48	M26			P2936	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5	455	12-8,10
R412A	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-8,10
R413	Vol.	P2935	18	MR48	M26			P2936	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5	455	12-9,10
R413A	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-9,10
R414	Vol.	P2450A	18	MR48	M26			P2456	23	TC71					5	6A7, 6D6, 75, 41, 80	456	12-11
R415A	Vol.	P3099	18	MR48	M26			P2936	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5	456	12-5,10
R416	Vol.	P3082	18	MR48	M26			P3086	1/15	TCS74/TC26					6	6A7, 6D6, 75, 76, 41, 80	456	12-11
R419	Vol.	P3015	18	MK401	M27			P3024	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-13,2
R419B	Vol.	P3317	18	MK401	M27			P3024	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-12
R420	Vol.	P691	45	Order from	Mfr.			P958	1	2N518		P402	245C		6	1C6, 34, [3]30, 32, 19	456	12-13,14
	Tone	P692	44	MR39				.01-.01		Buffer	B14							
R421	Vol.	P1677	18	MR48	M27			P958	1	2N518		P402	245C	C3	6	6D8G, 6S7G, 6T7G, [3]30, 19	456	12-15,27
	Tone	P1764	44	MR39				.01-.01		Buffer	B14							
R422	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P1414	859	C3	6	6D8G, 6S7G, 6T7G, 6G6G, 6L5G, 6ZY5G	456	12-16
	Tone	P2137	34	MR39	M27			.015		Buffer	B14							
R423	Vol.	P3335	18	MK401	M26			10-10	1	FP231					7	6A7, 6D6, 75, [3]41, 76, 80	455	12-17
	Tone	P3337	22	MK401														
R424	Vol.		18	UM154	M26		A96	20-20-20	1/15	3N533					6	[2]12SK7, 12SA7, 12SQ7, 35L6, 35Z5	455	12-3,14
	Tone		22	UM154			A96											
R425	Vol.	P1579	62	MR48	M26			10	19	TC22					5	1A6, [2]1A4, 30, 1G5G, 1B1 (Ballast)	456	12-18
	Tone	P1642	22	MR39														
R427, R428	Vol.	P2600	18	MK401	M27			P2602	19	TC26					4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-19,14
R429	Vol.		149	MR53	M27			20-30	1	2N513					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 70L7GT	455	§13-1
								40-40	78	[2]TC29								
R436	Vol.	P3335	18	MK401	M26			P3419	1	FP231					7	6A7, 6D6, 75, [3]41, 76, 80	455	12-17
	Tone	P3337	22	MK401														
R437	Vol.	P3471	45	MK401				P1993	25	RS223					11	6A8G, [3]6K7G, [3]6J5G, [3]6F6G, 5Z3	455	12-20
	Tone	P3472	15	Order from	Mfr.			P3478	25/14	FP238								
R450	Vol.	P3746	18	MK401	M26			P3355	24	2N514					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-21,14
R451	Vol.	P4060	18	MK401	M26			P4212	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-19,23
R452	Vol.	P4060	18	MK401	M26			P3531	1/15	3N527					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5, BT1000	455	12-22,23
R453	Vol.	P4089	62	TM231-SS22	M26			P4130	1/15	FP339					6	6SA7, [3]6SK7, 6SQ7, 6K6G, 5Y3G	455	12-22,23
R454	Vol.	P4089	62	TM231-SS22	M26			P4130	1/15	FP339					7	[3]6SK7, 6SA7, 6SQ7, 6K6G, 5Y3G	455	12-24,23
R458	Vol.	P4089	62	TM231-SS22	M26			P4264	1/15	FP444	B8				7	[3]6SK7, 6SA7, 6SQ7, 6K6G, 5Y3G	455	12-23,24
	Tone	P4193	22	Order from	Mfr.													
R459	Vol.	P4349	124	Order from	Mfr.			P4372	25/13	2S569					12	6AB7, 6SA7, [3]6SK7, 6SQ7, [3]6J5GT, [3]6F6G, 6AF6, 5U4G	455	12-25
								P1992	25	RS223								
R460	Vol.	P3961	18	UM161-SS18	M27			P3971	‡	FP409					6	[2]1N5, 1A7, 1H5, 3Q5, 117Z6	455	12-15,10
R470	Vol.	P2600	18	MK401	M27			P2602	19	TC26					4	1A7, 1N5, 1H5, 3Q5	455	12-21,14
R471	Vol.	P3720	18	MK402	M27			P3024	12	TC42					5	1A7GT, 1P5GT, 1N5GT, 1H5GT, 1Q5GT	455	12-26,10

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GOODRICH—Continued																		
R478	Vol.	P3720	18	MK402	M27			P3024	12	TC42					5	1A7GT, 1P5GT, 1N5GT, 1H5GT, 1Q5GT	455	12-26,10
R480	Vol.	P4089	62	TM231-SS22	M26			P4264	1/15	FP444	B8				7	§6SK7, 6SA7, 6SQ7,		
	Tone	P4531	22	MK401												6K6G, 5Y3G	455	12-26
GOODYEAR																		
45-01005	Vol.	101-23	18	MR53	M26			103-8	4	RS216					7	§6K7, 6C6, 6C5, 6B7		
	Tone	101-24	57	MR44				103-4	4	RS216						or 75, 42, 80	465	13-1,2
404	Vol.	101-26	‡	Order from	Mfr.										4	1A6, §32, 33	465	10-1
	Fil.	101-25	29	M4R														
504	Vol.	101-56	18	MR53	M27			119-28	1	2N516		126-4	246	C3	5	6D8G, 6S7G, 6T7G,		
	Tone	101-72	22	MR44				.005		Buffer	B14					1F5G, 6N5	465	10-2
522	Vol.	101-43	62	MR53	M26			119-22	19	TC22					5	1A6, 34, 30, 32, 950	465	11-1
	Fil.	101-44	29	C6R														
523	Vol.	101-69	15	MR53	M26			119-22	19	TC22					5	1A6, §1A4, 30, 950	465	8-1
	Fil.	101-44	29	M6R														
525	Vol.	V601	17	MR48	M26			C525	11	UR182	B31				5	§6D6, 75, 43, 25Z5	456	11-2
550	Vol.	P1008	17	MR48	M26			P1003	4	2S567					5	2A7, 58, 2A6, 2A5, 70	456	10-3
566	Vol.	P101-41	18	UM154-SS17	M26			119-20	4	2S567		126-1	294	C3	5	6A8, 6K7, 75, 41,		
								.01		Buffer	B14					84/6Z4	465	11-3
570	Vol.		17	MR48	M26			C525C, D	11	UR182					5	§6D6, 75, 43, 25Z5	456	6-1
575	Vol.	101-10	6	MR36	M26	EX100		P119-6	4	2S567					5	2A5, §57, 58, 80	175	6-2
578 Ser. A	Vol.	101-35	56	MR53				103-6	4	RS213					5	6A7, 6D6, 6B7, 42, 80	465	10-4
								103-7	4	RS213								
580	Vol.	101-9	17	MR48	M26			119-15	4	2S567		142-4	299	C3	5	6D6, 6A7, 75, 42, 84	175	7-4
								.01		Buffer	B14							
585 Series A, B, C	Vol.	101-18	18	MR48	M26			4-3	1	2N518					5	6F7, 6D6, 75, 42, 80	370,	10-5
								P103-6	4	RS213	B20						465	9-1,2
								P103-7	4	RS213	B20							
586	Vol.	P101-49	18	MR53	M26			103-6	42	RS213					5	6A7, 78, 75, 41, 80	465	11-4
								103-7	42	RS213								
588	Vol.	101-71	18	MR53	M26			119-38	23	2S567					5	7A8, 6K7, 6Q7, 6F6, 5Y3	465	8-3,4
601 (Runs 1, 2)	Vol.	101-54	18	MR53	M26			119-25	11	2S567/TC44					5	6A7, 78, 75, 43, 25Z5	465	10-7
	Tone	101-55	22	MR53														
602	Vol.	101-77	18	MR53	M26			119-39	1	2S556					5	6A8, 6K7, 6R7, 25L6,		8-2 &
								119-42	4	TCS44	B20					25Z6, L49B	465	10-8
660	Vol.	V603	17	MR48	M26			C550	4	TCS71		V660	Order from Mfr.		6	§6D6, 6A7, 75, 89, 6Z4	175	11-5
661	Vol.	101-41	18	UM154-SS17	M26			119-37	4	2S567		126-1	294	C3	6	§6K7, 6A8, 6Q7, 41,		
								.005		Buffer	B14					6X5	465	8-5
666 (Runs 1, 2)	Vol.	101-41	127	UM154-SS17	M26			119-21	1	2N518		126-1	294	C3	6	§6K7, 6A8, 6Q7, 6N6,		
								.01		Buffer	B14					6X5/84	465	10-9,10
667	Vol.	101-73	17	UM147-SS17	M26			119-34	4	RM262		126-1	294	C3	6	§6K7, 6A8, 6Q7, 6F6,		
	Tone	101-45	22	Order from	Mfr.			.01		Buffer	B14					6X5	262.5	8-6
670	Vol.	101-9	17	MR48	M26			P103-2	4	RM262		142-1	299	C3	6	6C6, 6D6, 42, 75, 78,		
								20	15	TC26						84	175	6-3,4
								.02		Buffer	B14							
675	Vol.	101-11	18	MR48	M26			P103-4	4	RS216					6	2A5, 2A6, 27, 57, 58,		
								P103-3	4	RS216						80	370	6-5,6
680	Vol.	P101-21	56	MR48	M26	EC256		P119-17	4	TCS71		142-4	299	C3	6	§6D6, 6A7, 6B7, 42, 84	175	11-6
								.01		Buffer	B14							
685 (Runs 1, 2)	Vol.	101-46	18	MR53	M26			103-6	42	RS213					6	6L7, 6K7G, 6Q7G,		
								103-7	42	RS213						6C5, 6F6G, 5Y3	465	11-7
686 (Runs 1, 2)	Vol.	101-46	18	MR53	M26			103-6	42	RS213					6	6L7, 6K7, 6Q7, 6C5,		
	Tone	101-53	22	MR33				103-7	42	RS213						6F6, 5Y3	465	11-7
690	Vol.	P101-21	56	MR48	M26	EC256		P119-17	4	TCS71		142-4	299	C3	6	§6D6, 6A7, 6B7, 42, 84	175	12-6
								.01		Buffer	B14							
691	Vol.	101-93	18	MR53	M26			119-45	23	2S567					6	6L7, 6K7, 6Q7, 6F6, 6C5, 5Y3	465	10-11,12
741	Vol.	101-74	18	MR53	M26			103-6	4	RS213					7	6A8, 6K7, 6Q7, 6C5,		
	Tone	101-75	22	MR44				103-14	4	RS216						§6F6, 5Y3	465	8-7,8
749	Vol.		18	‡		See Note A5		40-40	4	§TC49					6	6A7, 6D6, 75, §25L6G,		
	Tone		21	‡		See Note A5										25Z5, BM17C	456	10-20
770	Vol.	P101-37	56	MRT436	M26			103-4	4	RS216					7	§6K7, 6C6, 6C5, 6B7,		
	Tone	P101-38	21	SRP286	8			103-8	4	RS216						42, 80	465	11-8
777 series A	Vol.	101-23	18	MR53	M26			P103-4	4	RS216					7	§6D6, 6C6, 76, 75, 42,		
	Tone	101-24	57	MR44				P103-3	4	RS216						80	465	7-1,3
777 series B	Vol.	101-23	56	MR53	M26			P103-8	4	RS216					7	§6D6, 6C6, 76, 6B7,		
	Tone	101-24	57	MR44				P103-4	4	RS216						42, 80	465	7-1,3
778	Vol.	101-47	124	MRT436	M26			103-8	25	RS216					7	§6K7, 6J7, 6C5, 6Q7,		
	Tone	101-38	21	SRP286	8			103-6	25	RS213						6F6, 5Y3/5W4	465	11-9,10
787	Vol.	101-46	18	MR53	M26			103-6	23	RS213					7	6L7, 6K7, 6C5, 6G5,		
	Tone	101-53	22	MR53				103-7	23	RS213						6Q7, 6F6, 5W4	465	10-16
888, 889	Vol.	101-65	18	MR48	M26			103-13	25	RS213					8	§6K7, 6J7, 6Q7, 6F6,		
	Tone	101-53	22	MR33				103-12	25	RS216						§6G5, 5Y3	465	9-3,4
1070 (Runs 1, 2)	Vol.	101-36	15	DTM287-SS1	M26			103-8	1	RS216					10	§6K7, 6L7, §6C5, 6H6,		
	Tone	101-40	34	Order from	Mfr.			103-10	1	§RS223						§6F6, 5Z4	465	10-13,14
								119-19	15	§TC26								
1170, 1171	Vol.	101-47	15	MRT436	M26			103-8	25	RS216					11	§6K7, 6J7, 6C5, 6H6,		
	Tone	101-40	22	Order from	Mfr.			103-10	25	RS223						6F5, 6G5, §6F6, 5Z4	465	10-15

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GOODYEAR—Continued																		
1173	Vol.	101-76	20	DTM287-SS1	M26			103-10	25	RS223					11	‡6K7, 6J7, 6C5, 6H6,		
	Tone	101-62	22	Order from	Mfr.			103-8	25	RS216						6F5,‡6F6, 5Z3, 6G5	465	8-9,10
1174	Vol.	101-36	20	DTM287-SS1	M26			103-5	30	RS213					11	‡6K7, 6J7, 6C5, 6H6,		
	Tone	101-40	22	Order from	Mfr.			103-10	30	RS223						6F5,‡6F6, 5Z3, 6G5	465	9-5,6
								103-8	30	RS216								
1175	Vol.	101-102	15	DTM287-SS1	M26			103-10	25	RS223					11	‡6K7, 6J7, 6C5, 6U5,		
	Tone	101-103	22	SRP286	8											6H6, 6F5, 6J5,‡6F6, 5U4	465	10-17-19
01006	Vol.	49102	18	MR48	M26			31100	6/13	TN129					5	6A7, 6K7, 75, 25L6, 25Z5	470	12-1,2,4
01007	Vol.	49107	124				A19	31102	25	RS223					6	6A8G, 6K7G, 6J5G,		
								8	25	TC71						6K5G, 6V6G, 5Y4G	470	12-2-4
01009 (Ch. 526E), 01010 (Ch. 526I)	Vol.	101-107	18	UM154-SS18	M26			119-47D	23	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-21
01018 (Runs 1, 2) (Ch. 880)	Vol.	101-21	15	MR48	M26	EC256		119-16	1	2S569		142-4	299	C3	8	‡6D6, 6A7, 85,‡76, 84,		
	Tone	101-39	22	MR39				.015		Buffer	B14					6A6	465	10-22
01020 (Ch. 881)	Vol.	101-86	18	UM150-SS17				119-43	4	3S584	B8	126-1	294	C3	8	‡6K7, 6A8, 6R7, 6C5,		
								.003		Buffer	B14					‡6V6, 0Z4	262.5	10-23
01029 (Ch. 860)	Vol.	101-97	18	MR53				103-6	4	RS213					8	6A8, 6K7, 6Q7, 6C5,		
	Tone	101-98	22	MR44	M26			103-14	4	RS216						6U5, ‡6F6, 5Y3	465	10-24
01030 (Runs 1, 2) (Ch. 582 Ser. A,B)	Vol.	101-100	18	MK402	M26			119-48	4	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-34
01554 (Ch. 505)	Vol.	101-91	18	MR53	M27			119-24B	4	2S567		126-6	859	C3	5	6D8G, 6S7G, 6T7G,		
								119-22	15	TC22						6K6G, 6ZY5G	465	10-25
								.008		Buffer	B14							
010211 (Ch. 602E)	Vol.	101-77	18	MR53	M26			119-39	1	2N509					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B	465	10-26
010219 (Run 1) (Ch. 415A)	Vol.	101-56	56	MR53	M27			119-28	1	2N516		126-4	246	C3	4	1A6, 1F6, 1A4, 1F4	465	10-27
	Fil.	101-44	29	M6R				.005		Buffer	B14							
	Tone	101-59	21	MR53														
010219 (Run 2) (Ch. 415B)	Vol.	101-56	56	MR53	M27			119-28	1	2N516		126-4	246	C3	4	6D8G, 6S7G, 6T7G,		
	Tone	101-72	22	MR44				.005		Buffer	B14					1F5G	465	10-28
010219 (Runs 3, 4) (Ch. 489 Ser. A, Issue A, B)	Vol.	101-91	18	MR53	M27			119-28B	1	2N516		126-4	246	C3	4	6D8G, 6S7G, 6T7G,		
								119-22	15	TC22						6K6G	465	10-29,30
								.005		Buffer	B14							
010220 (Run 2) (Ch. 523B)	Vol.	101-69	56	MR53	M26			119-22	19	TC22					5	‡1A4, 1A6, 30, 1G5G	465	10-33
010221 (Ch. 804)	Vol.	101-66	18	MR48	M27			119-32	1	2N516		126-4	246	C3	6	‡6S7G, 6D8G, 6T7G,		
	Tone	101-67	22	MR39				.005		Buffer	B14					6N5, 6L5G	465	10-31,32
010222 (Ch. 6021)	Vol.	101-77	18	MR53	M26			119-39	1	2N509					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B	465	10-26
015040	Vol.		6	MR21				40-10-20	1/15	3N533					4	6D6, 6F5G, 25L6G, 25Z5, 55A		10-35
015050	Vol.		18	UM154	M26		A96	40-10-20	1/15	3N533					5	6A7, 6D6, 75, 25L6G, 25Z5, BK49B	455	10-36
015060	Vol.		127	UM163		See No	te A96	16, 16	9	TC45					6	6J8G, 6U7G, 6B6G,		
								30	9	See Note	B3					25B6G, 25Z6G,		
								25	15	TC26						6U5, BK42C	455	10-37
015070	Vol.		124	UM163		See No	te A96	32-16-8	1/15	See Note	B3				7	6J8G, 6U7G, 6H6, 6B6G, 25L6G, 6U5, 25Z6G	455	10-38-42
015070 (Ch. 543)	Vol.	24-123	18	MR53	M26			18-237	4	TCS48					6	6A7, 6D6, 75,‡25L6G,		
	Tone	26-118	22	MR48				13-238	15	TC22						25Z5	456	14-1
015080	Vol.		15	2 Meg.		See No	te A19	25	1	RS223					10	6A8G, 6U7G, ‡6J5G,		
								20	1	RS219						6H6, 6Q7G, 6U5, ‡6V6G, 5Y3G	455	10-39
015090	Vol.		15	1 Meg.		See No	te A19	25	24	RS223					13	‡6B8G, 6A8G, ‡6U7G,		
								30	1	RS223						‡6J5G, 6H6, 6AE6G,		
								10/25	13/15	TC52/TC26						6AD6G, ‡6V6G, 5X4G	455	10-40-43
015100	Vol.	1012524126.	18	UM161	M27		A96	1012118235.	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	10-44
015110	Vol.	1012524124.	18	UM154	M26		A96	1012118236.	24	Order from	Mfr.	34103	246	C3	4	6D8G, 6S7G, 6T7G, 6G6G	455	10-45
015120	Vol.	1022519789.	17	Order from	Mfr.			.004		Buffer	B14							
								1022119788.	1/15	3S579		14840	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GH, 6G6G, 6AB5	455	10-46
								1022118672.	..78	TC26								
								.009-.009		Buffer	B14							
015130	Vol.		18	UM154		See No	te A96	20-16-10	1/15	See Note	B3		859	C3	6	6D8G, 6S7G, 6T7G, 6AB5, 6G6G, 6ZY5G	455	10-49
								.012		Buffer	B14							
015140, 015141	Vol.		6	MR21	M26			40-10-20	22/15	3N533					4	12K7GT, 12F5GT, 50L6GT, 35Z4GT		12-5
015150, 015151	Vol.	1012524134.	18	UM154	M26		A96	1012118239.	1/15	3N533					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	12-7,8

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GOODYEAR—Continued																		
100502 (Double Eagle) (Above Ser. 42,000)	Vol.	101-109	18	TM238-SS18	M26			119-51	4	2S569		126-1	294	C3	6	[26]K7, 6A8, 6Q7, 6V6, 0Z4/6X5	465	10-47
								.01		Buffer	B14							
101500 Wings Jr.	Vol.	1012524119	18	UM154	M26		A96	4, 4	23	ST595		34101	859	C3	5	6A7, 6D6, 6Q7G, 41, 84	456	9-7,8
								.0038		Buffer	B14							
101501 Wings All-Weather	Vol.	1012524119	18	UM154	M26		A96	1012118222	23	ST595		34101	859	C3	6	[26]K7, 6A8, 6R7G, 6V6, 6X5G	262	9-9,10
	Tone	1012426115	22	UM147		See Note	A96	.005		Buffer	B14							
101503	Vol.	1012524120	18	MR48				1012118227	4	[27]TC49					7	6A7, 6D6, 75, [32]5L6G, 25Z5, BM17C	456	9-11,12
	Tone	1012426116	22	MR48	M26			40	4	TC48	B12							
102506	Vol.	1022518881	127	MR55				1022119727	9/15	Order from	Mfr.				6	6J8G, 6U7G, 6B6G, 25B6G, 6U5, 25Z6G	455	14-2
102507	Vol.		127	MR55				16-32-8	1/15	FP371	B117				7	6J8G, 6U7G, 6H6, 6B6G, 25L6G, 6U5, 25Z6G	455	14-3,4,5
102508	Vol.	1022519207	127	TM248-SS1				1022113903	1	ST599					10	6A8G, 6J5G, 6U7G, 6H6, 6Q7G, 6U5,		
								1022119079	1	ST598						6J5G, [26]V6G, 5Y3G	455	14-4,5,6
102509	Vol.	1022518616	17	TM248-SS1				1022113903	46	ST599					13	[26]B8G, [26]J5G, 6A8G, [26]6U7G, 6H6, 6AE6G, 6AD6G, [26]V6G, 5X4G	455	14-5,7,8
								1022114808	46	ST599								
								1022118764	13/15	2N509								
102512	Vol.	1022519789	127	Order from	Mfr.			1022119788	1/15	TN125		1026214840	246		6	1C7G, 1H4G, 1D5GP, 1F7GH, 6AB5, 6G6G	455	14-9,10
								1022118672	78	TC26								
102513	Vol.	1022518939	18	Order from	Mfr.			.009-.009		Buffer	B14							
								1022118938	1/15	FP313	B117	1026214300	859		6	6D8G, 6S7G, 6T7G, 6AB5, 6G6G, 6ZY5G	455	14-9, 11,12
								.012		Buffer	B14							
103533	Vol.		18	UM154-SS22	M27			10	19	TC22					4	1A7G, 1N5G, 1A5G, 1H5G	455	10-50
GRAHAM-PAIGE																		
A355	Vol.	38425	15	UM162-SS14				W38473-A	1	2N518		G7-38000	273C		5	6D6, 6A7, 6B7, 76, 6B5	450	
GRAYBAR ELECTRIC CO.																		
GB4 (Graybarette)—See RCA Model R5																		
GB8 (Midget)—See RCA Model R7																		
GB8A—See RCA Model R7A																		
GB9—See RCA Model R11																		
GB100—See RCA Model R55																		
GB300—See RCA Model R ad. 16																		
GB310—See RCA Model R ad. 18																		
GB311—See RCA Model R 33																		
GB320—See RCA Model R ad. 51																		
GB330—See RCA Model R ad. 60																		
GB340—See RCA Model R 62																		
GB500—See RCA Model R 44																		
GB550—See RCA Model R 46																		
GB600—See RCA Model R 66																		
GB678—See RCA Model R 48																		
GB700—See RCA Model R 80																		
GB770—See RCA Model R 82																		
GB900—See RCA Model R 86																		
GB989—See RCA Model R 10																		
GC13—See RCA Model R6																		
GC14—See RCA Model R12																		
GG15—See RCA Model R6																		
GT7—See RCA Model R4																		
GT8—See RCA Model R8																		
GT8-56—See RCA Model R 71																		
GT8-69—See RCA Model R 72																		
GT10-69—See RCA Model R 74																		
GT10-88—See RCA Model R 76																		
GT10-99—See RCA Model R 77																		
GREBE																		
AH1	Vol.		8	A1MP	6			‡	1	See Note	B4				7	[32]24, 27, [32]45, 80		1-20
	Tone		34	MR39				.01		See Note	B9							
Challenger III	Vol.		140	1 Meg		See Note	A19	40-25	1	2N514					6	6A7, 6D6, 76, 25L6, 25Z5, 6F5	456	
	Tone		140	MR53				10	15	TC22								
HS3	Vol.		6	MR18	M26			8, 8	4	ST595					5	[32]24, 35, 47, 80	175	3-1
	Tone		22	MR39														
HS4 1 Pentode	Vol.		7	E	6			8, 8, 8	3	RS213					7	[32]35, [32]24, 27, 47, 80	175	1-21,23
	Tone		22	MR39														
HS4 with 45PP	Vol.		6	MR15	M26			8, 8, 8	3	RS213					8	[32]24, [32]27, [32]45, 80	175	1-22
	Tone		22	MR39														
HS5	Vol.		7	E	6			8, 8, 8	3	RS213					8	[32]27, [32]35, 24, [32]47, 80	175	1-23
	Tone		22	MR39														
HS6	Vol.		15	MR48	M26			8, 8, 8	3	RS213					10	[32]27, [32]35, [32]47, 80	175	3-3
	Tone		‡	MR41														

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GREBE—Continued.																		
HS7	Vol.		7	E	6			6, 6, 6	3	RS213					7	[2]24, 27, [2]35, 47, 80	175	3-4
	Tone		22	MR39														
HS8	Vol.		64	MR48	M26			8, 8, 8	26	RS213					8	[4]35, [2]27, 47, 80	175	3-5
	Tone		22	MR39														
HS11	Vol.		45	MR48	M26			6, 6, 6	3	RS213					11	[4]35, [2]27, [2]47, 80, 24	175	4-5
	Sil.		12	A5MP		See No	te A14											
	Tone		34	MR39														
HS12	Vol.		45	MR48	M26			8, 8, 8	3	RS213					11	[2]27, [4]35, 24, [2]47, 80	175	3-6
	Supp.		12	A400MP														
61R	Vol.		56	MR48				8-8	1	2N518			292	C3	6	6A7, 37, 41, 78, 84, 85	456	4-2,3
								5	15	TC22								
								.025		Buffer	B14							
89	Vol.		6	E12				8, 8	4	RS213					8	[2]56, [2]58, [2]59, 80	175	4-4
111B	Vol.		18	MR41				16-8	35	RM265	B8				11	[2]46, 55, 56, [2]58, 57, 82	175	4-1
	Supp.		8	UC500														
428 Console	Vol.		26	A3MP				‡	1	See Note	B4				11	[2]26, 27, 71A, [2]81, [2]50, 80		1-14
762	Vol.		140	1 Meg.		See No	te A19	40-25	1	2N514					6	6A7, 6D6, 76, 6F5, 25L6G, 25Z5	456	
	Tone		140	MR53				10, 10	15	TC22								
782	Vol.		37	1 Meg. No. 1		See No	te A19	40-25	6	2N514					6	6A7, 6D6, 6Q7G, 25L6, [2]25Z5, 6-141	456	9-11,12
	Tone		37	MR53				10, 10	15	TC22								
GRIGSBY - GRUNOW—See Majestic																		
GRUNOW†																		
2A (1101)	Vol.	27971	‡	MR55				27710	28	RS213					11	[2]78, 6F7, 6B7, 85, 37, [4]45, 5Z3		4-17,21
	Tone	28103	41	MR53				27711	28	RS213							262	5-20
								27715	13/20	TCS71								
4A (450, 451)	Vol.	29119	6	MR18	M26			29168	1	TCS71					4	[2]6F7, 42, 84	455	5-1,2
								24789	15	TC22								7-1
4B (460, 461), 4BX (460X, 461X)	Vol.	31222	6	F7	6	3		31208	4	TCS71					4	6A7, 6F7, 42, 80	455	5-3,7-2
4C (470)	Vol.	33407	6	F7		3		31208	4	TCS71					4	6A7, 6F7, 41, 80	465/490	6-1,2
4NB (410, 411)	Vol.	35120	18	MR44	M26			35202	1	TCS71		35211	245	C3	4	1A6, 1A4, 75, 41	465	8-1
								32987	15	TC22								
								.0075		Buffer	B14							
5A (500)	Vol.	27834	17	MR53	M26			27713	1	RS213					5	6F7, 78, 75, 47, 80	455	4-1,2
								27712	1	RS213								
								27838	17	TC22								
								24789	20	TC22								
5AB (508, 509)	Vol.	39725	18	MR48	M27			39769	1	3S582	B8	39770	294	C3	5	6D8G, 6S7G, 6T7G, 41, 84	465	
								32987	15	TC22								
								.0075		Buffer	B14							
5AD	Vol.	39939	6	MR33	M26			39941	1	2N509					4	6D6, 6C6, 25L6, 25Z5		
5B (501, 520, 530, 550)	Vol.	27163	17	MR48	M26			27151	11/15	[2]N509					5	6F7, 25Z5, 43, 75, 78	455	6-3,4
5C (502, 503)	Vol.	26099	‡	MR18											5	[2]32, 30, 34, 33	455	4-5,6
	Fil.	26098	29	R														
5D (570, 571)	Vol.	31396	17	MR53	M26			29562	4	RS216					5	6A7, 6D6, 75, 42, 80	455	6-7,8
								27711	4	RS213								
								31477	13	RS215								
								24789	15	TC22								
5E (560)	Vol.	31785	17	MR48	M26			31849	1	2N518					5	6A7, 6D6, 75, 42, 80	455	6-5,6
								31857	15	TN111								
5G (580, 581)	Vol.	33300	18	TRP604	6			33369	4	RS215					5	6A7, 6D6, 42, 75, 80	465/490	6-9,10
								33469	4	RS216								
								33371	14	ST597								
								32987	15	TC22								
5H (532)	Vol.	34733	7	E	6	2		35181	4	RS215					5	6A7, 6D6, 76, 41, 80	465	8-24
								34744	4	RS215								
5J (542)	Vol.	34624	18	MR44	M26			34813	4	RS215					5	6A8, 6K7, 6Q7, 6F6, 5W4	465	8-38
								34669	4	RS215								
5K (551, 553)	Vol.	35624	18	MRT420	M26			33469	4	RS216					5	6A8, 6K7, 6Q7, 6F6, 5W4	465	8-3,4
								33369	4	RS215								
5L (555, 572)	Vol.	35649	18	MRT420	M26			33369	4	RS215					5	6A8, 6K7, 6Q7, 6F6, 5W4	465	8-5,6
								33469	4	RS216								
5M (590)	Vol.	35119	18	MR44	M26			35177	4	TCS55					5	6A8, 6K7, 6Q7, 25A6, 25Z6	465	8-7,8
5N (592, 594)	Vol.	35119	18	MR44	M26			35177	4	TCS55					5	6A7, 6D6, 75, 43, 25Z5	465	9-4
5NB (510)	Vol.	34941	18	MR44	M23										5	[2]1A4, 1A6, 1B5, 33	465	8-2
5P (599)	Vol.	37576	18	MRT420	M26			33369	4	RS215					5	6A7, 6D6, 75, 42, 80	465	9-3
								33469	4	RS216								
5Q (573)	Vol.	35649	18	MRT420	M26			33369	4	RS215					5	6A8, 6K7, 6Q7, 6F6, 5W4	465	8-11,13
								33469	4	RS216								
5R (564)	Vol.	36404	7	E	6			36350	4	2S567					5	6A7, 6D6, 76, 41, 80	465	8-9
5S (566)	Vol.	36404	7	E	6	2		36350	4	2S567					5	6A7, 6D6, 76, 41, 80	465	8-10,11
5T (576, 578)	Vol.	36404	7	E	6			36350	4	2S567					5	6A7, 6D6, 76, 41, 80	465	9-1
5U (587, 589)	Vol.	37576	18	MRT420	M26			33369	4	RS215					5	6A7, 6D6, 75, 42, 80	465	9-3
								33469	4	RS216								
5UA (585)	Vol.	37576	18	MRT420	M26			39546	4	2S569					5	6A7, 6D6, 75, 42, 80	465	
5V (596, 598)	Vol.	39463	18	MR44	M26			36350	4	2S567					5	6A7, 6D6, 75, 41, 80	465	
5VB (544, 545)	Vol.	39302	15	MR48											4	1C6, 34, 1F6, 33	465	

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

† Rider references will be found under General Household Utilities.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GRUNOW—Continued																		
5W (583, 585, 586, 588)	Vol.	38453	18	MR44	M26			36350	4	2S567					5	6A7, 6D6, 75, 41, 80	465	9-2
6A Early (650, 651)	Vol.	29404	17	TRP610	6			29557	4	TC71					6	6F7, ‡6D6, 42, 75, 80	262	5,7-8
	Tone	29406	22	MR44				29086	4	RS216								7-11
6B (622)	Vol.	38083	18	MR44	M26			38608	23	RS207					5	6A8, 6K7, 6Q7, 25L6, 25Z5	465	9-5
								38610	23	RS207								
								38709	13	2N516								
6C Early (660, 661, 662)	Vol.	29404	17	TRP610	6			29562	23	RS216					6	‡6D6, 6A7, 75, 42, 80	262	5-9,10
	Tone	29406	22	MR44				29557	23	TC71								5-11,12
6D (670, 671)	Vol.	30077	17	MR53				30091	4/13									
	Tone	30078	22	MR39	M26				15/19	3S584/TN111					6	‡6D6, 6A7, 75, 42, 80	455	6-13
6E (663)	Vol.	38994	18	MRT420	M26			33369	4	RS215					6	‡6K7, 6A8, 6Q7, 6F6G, 80	465	9-8
								33469	4	RS216								
6F (690, 691)	Vol.	29623	17	MRT440	M26			30091	4/13									
	Tone	29621	22	MR39					15/19	3S584/TN111					6	‡6D6, 6A7, 75, 42, 80	455	6-14
6G (680, 681)	Vol.	33300	18	TRP604	6			33369	4	RS215					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	465/490	6-15,16
								33469	4	RS216								7-15,16
								33371	14	ST597								
								32987	15	TC22								
6H (632)	Vol.	38937	18	MR44	M26			33369	4	RS215					6	‡6K7, 6A8, 6Q7, 6F6G, 80	465	9-7
								33469	4	RS216								
6HB (620, 621)	Vol.	33775	15	MR55	M27			33943	12	RS213					6	1C6, 34, ‡30, 32, 19	465	7-6,8
6J (640, 641)	Vol.	33300	17	TRP604	6			33369	4	RS215					6	6A7, ‡6D6, 42, 75, 80	465/490	6-11,12
								33370	4	RS216								7-9,10
								33371	14	ST597								
								33469	‡	RS216								
								32987	15	TC22								
6K (623, 627)	Vol.	37576	18	MRT420				38608	4	RS207					5	6A8, 6K7, 6Q7, 25L6, 25Z5	465	9-6
								38610	4	RS207								
								38611	13	TC40								
6L (653)	Vol.	38614	18	MRT420	M26			33369	4	RS215					6	6A8G, 6K7G, 6H6G, 6F5G, 6F6G, 80	465	
								33469	4	RS216								
6M (631, 643)	Vol.	35649	18	MRT420	M26			33469	4	RS216					6	6A8, ‡6K7, 6Q7, 6F6, 5W4	465	8-17,18
								33369	4	RS215								
6N (654)	Vol.	37722	18	MR44	M26			33369	4	RS215					6	6A8G, ‡6K7G, 6Q7G, 6F6G, 80	465	8-19,20
								33469	4	RS216								
6Q (624)	Vol.	38083	18	MR44	M26			38608	4	RS207					5	6A8, 6K7, 6Q7, 25L6, 25Z5	465	9-5
								38610	4	RS207								
								38709	13	2N516								
7A (700, 701)	Vol.	27419	20	TRP610				27414	1	RS213					7	‡78, 37, 75, 42, 80	262	4-7,8
	Tone	27420	22	MR44				27413	23	RS213								
7B (750, 751, 752, 753)	Vol.	29536	17	TRP610	6			29558	1	TC74					7	6D6, 6A7, 6F7, 75, 76, 42, 80	262	5-13,16
	Tone	29537	22	Order from	Mfr.			29562	1/23	RS216								
								31052	23	TC71	B10							
								29559	23	TC71								
7C (760, 761)	Vol.	33119	20	TM234-SS1				33369	1	RS215					7	‡6K7, 6A8, 6H6, 6F5, 6F6, 5Z4	175/455	7-20,22
								33371	14	ST597								
								33469	1	RS216								
								33169	15	TN111								
7DB (720, 721)	Vol.	33775	15	MR55	M27			33943	12	RS213					6	1C6, 34, ‡30, 32, 19	465	7-17,19
7M (723, 731, 733, 735)	Vol.	35649	18	MRT420	M26			33369	4	RS215					7	6A8, ‡6K7, 6Q7, 6F6, 5W4, 6E5	465	8-21,23
								33469	4	RS216								
7NB (711)	Vol.	35121	18	MRT440				35202	1	TCS71		35211	245	C3	7	‡1A4, 6A7, 1B5, 30, 19	455	8-25,28
								35154	24	ST597								
								35340	‡	Order from	Mfr.							
								.0075		Buffer	B14							
7Q (755)	Vol.	37722	18	MRT420	M26			33369	4	RS215					7	‡6K7G, 6A8G, 6Q7G, 6F6G, 80, 6G5	465	8-29,30
								33469	4	RS216								
8A (801)	Vol.	27687	17	TRP610	6			27414	1	RS213					8	‡78, 37, 85, 6B7, 42, 80	262	4-9,10
	Tone	27646	34	MR44				27413	1/23	RS213								
8B (821)	Vol.	27687	17	MR53	M26			27414	1	RS213					8	‡78, 6A7, 85, ‡37, 42, 80	262	6-17,18
	Tone	27646	22	MR44				27413	1/23	RS213								
								29562	23	RS216								
								27668	15	TC22								
8D (861)	Vol.	31910	17	TRP610				29562	23	RS216					8	‡6D6, 6A7, ‡76, 75, 42, 80	455	6-19,22
	Tone	29537	22	Order from	Mfr.			29558	23	TC74								
								30152	13	TC71								
8E (871)	Vol.	33119	17	TM234-SS1				33852	24	RS215					8	‡6K7, 6A8, 6H6, 6C5, ‡6F6, 5Z4	455	7-23,25
								33598	1	RS215								
								33469	1	RS216								
								33371	13	ST597								
								32987	15	TC22								
8H (823, 831, 833, 835)	Vol.	33119	20	TM234-SS1				33369	1	RS215					8	‡6K7, 6A8, 6H6, 6F5, 6F6, 6E5, 5Z4	455	8-31,34
								33469	1	RS216								
								33371	14	ST597								
								33169	15	TN111								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GRUNOW—Continued																		
9A Early (901, 902)	Vol.	27645	17	TRP610	6			27710	1	RS213					9	[3]78, 37, 85, [3]45, 6B7, 80	262	4-11,12
	Tone	28316	41	MR53				27711	1/23	RS213								
								27670	14/15	RM262								
								28400	...‡..	RM262								
9A (901, 902) Revised	Vol.	27645	17	TRP610	6			27710	1	RS213					9	[3]78, 37, 6B7, 85, [3]45, 80	262	5-19
	Tone	28316	41	MR53				28400	24	RM262								
								27670	14/15	RM262								
9B (1101)	Vol.	27971	...‡..	MR55				27710	1	RS213					11	[3]78, 6F7, 6B7, 85, 37, [4]45, 5Z3	262	4-17,21 5-20
	Tone	28403	41	MR53				27711	1	RS213								
								27715	24	TCS71								
9C (921)	Vol.	27687	17	TRP610	6			27710	28	RS213					9	[3]78, 6A7, 85, 37, 76, [3]45, 80	262	7-26
	Tone	28316	41	MR53				27711	28	RS213								
								29562	28	RS216								
								27670	14/15	RM262								
								24789	15	TC22								
9E (941)	Vol.	33119	20	TM234-SS1				33852	24	RS215					9	[3]6K7, 6A8, 6I16, 6C5, [3]6F6, 6E5, 5Z4	455	8-35,37
								33598	1	RS215								
								33469	1	RS216								
								33371	14	ST597								
								32987	15	TC22								
10D (1067)	Vol.	36727	20	TM234-SS1	M26			36752	1	RS223					10	[3]6K7, 6A8, 6I16, [3]6C5, [3]6F6G, 5Z3	465	9-9,10
	Vol.	38074	20	MRT436	M26		A4	36720	1	RS223								
								36721	14	RS215								
10G (1091)	Vol.	38267	20	TM234-SS1	M26			36752	1	RS223					10	[3]6K7, 6A8, 6J7, 6I16, 6N7, [3]6F6G, 5Z3	465	9-11,12
								36720	1	RS223								
								36721	14	RS215								
11A Type 1 (1151, 1152)	Vol.	29626	17	MR53	M26			27710	1	RS213					11	[2]6D6, 6A7, [4]76, 85, [3]45, 5Z3	262	5-17,18 6-23,26
	Tone	29627	41	MR48				27711	1/23	RS213								
								27715	14/19	TCS71								
								29632	13	TC71								
								24789	15	TC22								
11A Type 2 (1151, 1152, 1161, 1162)	Vol.	29626	17	MR53	M26			31743	1	RS215					11	[2]6D6, 6A7, [4]76, 85, [3]45, 5Z3	262	6-27,28
	Tone	29627	41	MR48				31629	1/23	RS216								
								27715	14/19	TCS71								
								29632	13	TC71								
								24789	15	TC22								
11B (1151, 1152, 1161, 1162)	Vol.	29626	17	MR53	M26			31743	28	RS215					11	[3]6D6, 6A7, [4]76, 85, [3]45, 5Z3	262	6-27,28
	Tone	29627	41	MR48				31629	28	RS216								
								27715	4/19	TCS71								
								29632	13	TC71								
								24789	15	TC22								
11C (1171)	Vol.	33265	17	MRT440				33645	3	RS213					11	[3]6K7, 6A8, 6I16, [3]6C5, 6F5, [3]6F6, 5Z4	455	7-27,30 5-17
								33768	3	RS215								
								34466	3	RS216								
								33371	13	ST597								
								33169	15	TN111								
11G (1191)	Vol.	36727	17	TM234-SS1	M26			33646	19	TC32					11	6G5, [3]6K7, 6A8, 6I16, [3]6C5, [3]6F6, 5Z3	465	8-41,43
								36719	46	RS219								
								36752	46	RS223								
								36720	46	RS223								
								36721	46	RS215								
11H (1181, 1183, 1185)	Vol.	38267	20	TM234-SS1	M26			36752	1	RS223					11	[3]6K7, 6A8, 6J7, 6I16, [3]6C5, [3]6L6G, 5Z3	465	9-13,14
								36720	1	RS223								
								36721	14	RS215								
12A (1241)	Vol.	33265	20	MRT440				33947	33	RS213					12	5Z4, 6A8, [3]6C5, 6F5, [3]6F6, 6I16, [3]6K7	455	7-31,33
								33946	33	RS215								
								34466	33	RS216								
								33646	33	TC32								
								33169	15	TN111								
12B (1291), 12W (1297)	Vol.	36728	18	TM234-SS1	M26			36752	46	RS219					12	[3]6K7, 6A8, 6J7, [3]6C5, 6I16, [3]6L6, or [3]6F6, 5Z3	465	7-34,36 8-44,46
	Vol.		18	MR44	M26		A4	36720	46	RS223								
								36721	46	RS215								
								33371	14	ST597								
								33169	15	TN111								
15W (1541)	Vol.	36503	18	MRT440				36776	15	TC22					15	[4]6K7, 6L7, [3]6J7, 6I16, 6R7, 6C5, [3]6F6, [3]5Z4	455	7-37,42
								36290	31	TC92								
								36596	31	RS215								
								34466	31	RS216								
								36597	14	TC44								
								33646	19	TC32								
99 and 99A	Vol.		6	MR18				8-4	1	2N518					5	[3]24, 35, 47, 80	175	
513	Vol.		6	MR24				4-12-4	11	UR182					5	6F7, 78, 75, 43, 25Z5	455	
614-618	Vol.	34003	18	TM241-SS12				35390	1/15	4S718		35433	294	C3	6	[3]6K7G, 6A8G, 6Q7G, 6F6G, 6X5G	262	8-14,16
								.005		Buffer	B14							
625	Vol.	34003	17	TM241-SS12				34119	1/15	4S718		35312	273D		6	[3]6K7G, 6A8G, 6R7G, 6C5G, 6A6	262	8-15,16
	Tone	34242	22	MR53														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GULBRANSEN—See Wells-Gardner																		
HALLICRAFTERS																		
DD1	Vol.AF	25-038	‡	MR48	M26			42-022	1	RS216					25	[2]6J5G, [2]6K7, [4]6L7, [4]6H6, 6J7, 6K6, [4]1851, [2]2A3, 5Z3	455	10-1,6
	Tone	25-037	22	MR39				42-019	1	RS216								
	Vol.AF RF	25-038	16	MR44	M26			42-007	13	TC72								
	Meter	25-122	7	A3MP				45-012	‡	TC42								
	RF Bal.	25-033	‡	Order from	Mfr.			42-025	15	TC26								
	Phase Adj.	22-068	‡	A20MP		See Note A68		42-023	15	TC47								
	Meter Adj.	22-026	8	A550P		See Note A68		42-007	13	TC72								
H8PA	Vol.		18	500M No. 1		See Note A19		42-003	15	TC32								
	Tone		22	‡		See Note A3		8-8	22	2N518					8	[2]6K7, 6A7, 75, 76, 6G5, 80	465	8-2
S9, SK9	Vol.	2502	45	500M No. 1		See Note A19		10, 10	15	TC22					9	[2]6K7, 6L7, 6H6, 6F5, 6C5, 6F6, 5Z4	456	7-5,6
	Tone	2503	22	UM160-SS1				4210	1	ST593								
	Gain	2500	7	MR19				4200	15	TC22								
S10 "Ultra Sky Rider"	Vol.	2512	140	500M No. 1		See Note A19		4216	1	RS216					10	[2]6K7,[2]6L7, 6C5, 6R7, 6J7, 6Q7, 6F6, 5Z4	1600	9-1-3
	Tone	2513	140	UM160-SS1	M26			4203	15	TC32								
	Sil.	2511	8	MR19														
	BFO.	2514	‡	MR48														
S11 (Super Skyrider 1937)	Vol.		18	‡		See Note A19		16, 16	1	ST597					11	[4]6K7, 6L7, 6C5, 6G5, 6R7,[2]6L6, 5Z3	465	8-3,4
	Tone		22	‡		See Note A3		10	15	TC22								
	Gain		7	MR19														
S12 (Commercial Skyrider)	Vol.		18	‡		See Note A19		16, 16	1	ST597					11	[4]6K7, 6L7, 6C5, 6G5, 6R7,[2]6L6, 5Z3	1600	8-6
	Tone		22	‡		See Note A3		10	15	TC22								
	Gain		7	MR19														
S14 (Sky Chief)	Vol.		18	MR48				12	4	ST597					7	6D6, 6A7, 6F7, 75, 6B5, 80, 6G5	465	8-8
	Tone		57	MR48				8	4	ST595								
	Gain		7	MR19														
S15 (Sky Challenger)	Vol.		18	MR48				16	1	ST597					9	[4]6K7, 6L7, 6C5, 6Q7G, 6F6G, 80	465	8-9
	Tone		57	‡		See Note A3		10	15	TC22								
	Gain		7	MR19														
S19R (Sky Buddy)	Vol.		17	MR53				10-10-10-10	1/13/15	FP434					6	6K8G, 6K7G, 6Q7G, 41, 76, 80	455	10-7,9
S20 (Sky Champion)	Vol.	25-031	17	MR48				42-021	1/15	3S579					8	6L7, [2]6K7, 6Q7, 6F6, 80, [2]6J5	455	
	Tone	25-028	57	MR48	M26													
	RF Gain	25-029	7	Order from	Mfr.													
S20R	Vol.		17	MR48				30-10-10-10	1/13/15	FP429					9	[2]6SK7, 6K8, 6SQ7, 6H6, 6J5GT, 6F6G, 80	455	11-1-3
	RF Gain		7	Order from	Mfr.													
S22 (Skyrider Marine)	Vol.	25-041	18	MR48				42-026	1	FP115					7	[2]6K7, 6L7,[2]6J5, 6Q7, 25L6, 25Z5	465	9-4-6
	Tone	25-040	57	MR48				42-025	15	TC26								
	Gain	25-039	7	MR29														
S22R (Skyrider Marine)	Vol.		17	MR48				40-40-30	1/13	FP357					8	[2]6SK7, 6K8, 6SQ7, 25L6, 6J5, 25Z5	1600	12-1,2
	Tone		57	MR48				10	15	TC22								
	RF Gain		7	MR28														
S27	Vol.		56	MR48				30-10-10-20	3/15	FP129					15	956, 954, [2]1852, 1853, 6SK7, [2]6H6, 6C8G, 955, 6J5, 5Z3, VR150, [2]6V6	5.25mc.	12-3-5
	RF Gain		7	MR19				30, 30	15	TC29								
	Zero Adj.		‡				A3											
S29 (Sky Traveller)	Vol.		18	MR48				60-60	1	See Note	B3				9	1T4, 1R5, [2]1P5GT, 1H5GT, 3Q5GT, [2]1G4GT, 50Y6GT	455	12-11,12
	RF Gain		12	MR50				60-100-40	78/13	See Note	B3							
S30 (Radio Compass)	Vol.		17	MR48				8-8	1	2N518		R21	Order from	Mfr.	6	[2]6SK7, 6K8, 6SQ7, 6G6G, 6U5	175	12-13-15
	RF Gain		7	Order from	Mfr.			30-30	1	2N513								
								10	15	TC22								
								.01		Buffer	B14							
S31A	Vol.	425084	‡	MRT460				8-8	3	TC74	B129				6	6F5, 6SQ7, 6SC7, [2]6L6G, 5Z3		14-7,8
	Vol.	25083	127	MR48				8-8	3	2N518	B129							
	Bass	25082	‡	MRT460				8-8	13	2N518	B129							
	Treble	25082	‡	MRT460				30, 30, 30	15	TC29								
SX16 (Super Skyrider 1938)	Vol.	25-023	37	1 Meg. No. 1		See Note A19		42019	1	RS216					11	[2]6K7, 6L7, 6J5, [2]6J7, 6R7,[2]6V6, 5Z3	465	8-11,12
	Tone	25-013	37	MR53	M26			42002	15	TC22								
	Meter	25-022	7	A550P														
	B.F.O.	25-024	‡	MR48	M26													
	Sen.	25-021	7	E	6													
SX17 (Super Skyrider)	Vol.	25-023	37	1 Meg. No. 1		See Note A19		42019	1	RS216					13	[4]6K7, 6L7, 6J5G, 6R7G,[2]6V6G, 6J7, 6J7G, 6J5, 5Z3	465	9-7 to 11
	Tone	25-013	37	MR53	M26			42002	15	TC22								
	B.F.O.	25-024	‡	MR48	M26													
	Meter	25-022	7	A550P	6													
	Gain	25-021	7	E	6													

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HALLICRAFTERS—	Continued																	
SX23	Vol.		15	MR48				16, 16	1	RS216					11	[3]6SK7, 6SA7, 6SQ7, [2]6SJ7, 6F6, 6B8, 6H6, 80	455	10-11,14
	Tone		21	MR48	M26			20	15	TC26								
	Sen.		7	Order from	Mfr.													
	Meter		26	A550P														
SX24	Vol.		17	MR48	M26			30-10-10-10	1/13/15	FP429					9	[3]6SK7, 6K8, 6SQ7, 6H6, 6F6, 76, 80	455	10-15
	Sen.		7	Order from	Mfr.													
	Meter		26	A550P		See Note A68												
SX25 (Super Defiant)	Vol.		17	MR48				30-10-10-10	1/13/15	See Note	B3				12	[4]6SK7, 6K8, 6J5GT, [2]6SQ7, [2]6F6G, 80, 6H6	455	11-4-6
	RF Gain		7	Order from	Mfr.			10	14	See Note	B3							
SX28	Vol.		15	MR48				30-30-40	1/15	See Note	B3				15	[4]6SK7, [2]6SA7, 6L7, [2]6B8, 6H6, 6J5, 6SC7, [2]6V6GT, 5Z3	455	12-7-10
	Tone		22	MR48	M26			10-10	13/15	See Note	B3							
	RF		7	Order from	Mfr.													
	S Meter		‡	Order from	Mfr.													
	A.N.L.		8	MR34	M26													
SX32	Audio Gain		15	MR48				30	1	FP145	B117				13	6AB7, [2]6SK7, [2]6SA7, 6K7, 6B8, 6H6, 6J5, 6SC7, [2]6V6GT, 5Z3	455	13-7-14
	RF Gain		‡	MR20				30	1	FP145	B117							
	Tone		22	MR48	M26			30	15	TC29								
	Meter		‡	C500P														
5PA "Sky Buddy"	Vol.		18	MR48	M26			4214	23	RM262	B3				5	6A7, 6F7, 75, 42, 80	465	8-1
5T (Sky Buddy)	Vol.		18	MR48				8	23	ST595					5	6A7, 6F7, 75, 42, 80		
								4	23	ST595								
HALSON																		
"Dual Range"	Vol.		7	G	6			8, 8	4	RS213	B3				6	[3]35, 24, [3]47, 80		3-2
	Tone		22	MR53														
"Roadmaster"	Vol.		15	MR48				8-8	1	2N518			Order from Mfr.		5	6A7, 78, 75, 42, 84	456	4-5
								5	15	TC22								
A-5	Vol.	2280C	6	MR29	M26			2575	1/15	3N527					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT, L49B		9-1
A5S	Vol.	1845-8	18	MR48	M26			2561	1	2N509					5	6K8G, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	§10-6
AW6	Vol.	1555	45	MR44	M26			1572	23	TCS47					6	6A7, 6D6, 6H6, 6J7, 43, 25Z5, or 6A7, 6D6, 76, 6C6, 43, 25Z5	456	7-2
C-6	Vol.	1845A	18	MR48	M26			2444A	23	TCS47					5	6A7, 6D6, 75, 25L6G, 25Z5, L42D	456	9-1
MA63	Vol.	1585	45	MR44				1591	25/13	3S584					6	6A8, 6K7, 6H6, 6J7, 6F6, 5Y3	456	7-8
	Tone	1616	22	MR24														
MG5	Vol.		6	MR24				16-8-5-5	6/15	4S715					4	6K7, 6J7, 43, 25Z5, 55A1		7-1
NS40	Vol.		6	MR45	M26	EX150		4-16-4	8	TN125					4	78, 77, 43, 25Z5		4-3
								5	15	TC22								
NS50	Vol.		7	G	6	1		4-16-8	8	TN125					5	6A7, 78, 75, 43, 25Z5	456	4-3
NS60	Vol.		7	G		2		4-16-16	8	TN129					6	[3]78, 6A7, 75, 43, 25Z5	456	
								5	15	TC22								
S5	Vol.	1845-8	18	MR48	M26			2561	1	2N509					5	6K8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	‡	§10-6
5L-E	Vol.	1748	6	‡		See Note A5		16-12-4-5-5	24/15	4S715/TC40					4	6D6, 6C6, 43, 25Z5, L49B		7-1
6L6	Vol.	1811	45	*MR44				1652	25	RS213					7	6A7, 6D6, 76, 6C6, 6E5, 42, 80	456	7-3
								1835	25/13	2N518								
10	Vol.	1908D-10	18	MR48	M26			40	23	TC48					5	6A7, 6D6, 75, 25L6G, 25Z5, L42B	456	9-2
								16	23	TC45								
20	Vol.	1908E	18	MR48	M26			2353	25	RS216					6	6A7, 6D6, 76, 6F5, 41, 80	456	9-3
								2308-2	25/13	2N518								
20A	Vol.		6	G7	6	1		8-4	6	2N516					5	[3]78, 77, 43, 25Z5		4-1
								5	15	TC22								
20B, 20B "European"	Vol.		7	G	6	1		8-8	6	2N516					5	6A7, 78, 77, 43, 25Z5	456	4-1,2
								5	15	TC22								
25	Vol.	1908D-2	18	MR48	M26			2263	23	TCS47					5	6A7, 6D6, 75, 43, 25Z5	456	8-1
30	Vol.	1908-30	17	MR48	M26			2634	11	TN129					6	6A7, 6D6, 75, 25L6G, [2]25Z5, L15B	456	9-4
35	Vol.	1908D-2	18	MR48	M26			2270	23	RS213					5	6A7, 6D6, 75, 41, 80	456	8-2
								2271	23	RS213								
40A1	Vol.	1908-D-10	18	MR48	M26			2612	23	TCS47					5	6K8G, 6K7G, 6Q7G, 25L6G, 25Z6G, L42B	456	11-2
40B2X	Vol.	1908E	45	MR48	M26			2353	25	RS216					6	6K8, 6D6, 76, 6F5, 41, 80	456	11-3
								2308-2	25/13	2N518								
40C3X	Vol.	1908-D-3	45	MR48	M26			2308-2	1/13	2N518					9	6A7, 6D6, 76, [3]6F5, [3]41, 80, 6G5	456	11-4
								2353	1	RS216								
								2369	15	TC26								
45	Vol.	1405	6	SRP263	6			1408	6/15	3S582/TN111					4	6D6, 6C6, 43, 12Z3		6-1
50S	Vol.	1542	18	MR44	M26			1533	40	TCS47					5	6A7, 6K7, 75, 43, 25Z5	456	7-4

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HALSON—Continued																		
50X	Vol.	1970	18	MR48				1977	6/15	UR182					5	6A7, 6K7, 75, 43, 25Z5, L42B	456	7-5
52	Vol.	1209	6	SRP263	6			1437	25	TC71					5	6D6, 6C6, 41, 76, 80		6-1
54	Vol.	1209	6	SRP263	6			1440	38	TCS44					5	6D6, 6C6, 43, 25Z5, 76		6-2
60L	Vol.	1811	18	MR44				1818	6/15	TN129					6	6A7, 6D6, 75, 43, 6E5, 25Z5	456	7-7
60M	Vol.	1811	18	MR44				1818	6/15	TN129					5	6A7, 6K7, 75, 43, 25Z5, L42D	456	7-6
66AW	Vol.	6601	8	‡		See Note A5		6606	8	UR182					6	6A7, [2]6D6, 75, 43, 25Z5	456	6-3
								6611	15	TC32								
100, 100M	Vol.	1952	18	MR48				1961	6/15	TN129					5	6A7, 6D6, 75, 43, 25Z5 (L42B)	456	7-9
102	Vol.	1908D-2	18	MR48	M26			2302	6	2N514					5	6A7, 6D6, 75, 25L6G, 25Z5	456	8-3
								10	15	TC22								
103	Vol.	1908D-2	18	MR48	M26			2302	6	2N514					6	6A7, 6D6, 75, 6G5, 25L6G, 25Z5	456	8-3
								10	15	TC22								
104	Vol.	1908D-2	18	MR48	M26			1652	25	RS213					6	6A7, 6D6, 76, 6F5, 41, 80	456	8-4
								2308-2	25/13	RM262								
106	Vol.	1908D-2	18	MR48	M26			1652	25	RS213					7	6A7, 6D6, 76, 6G5, 6F5, 41, 80	456	8-4
								2308-2	25/13	RM262								
161	Vol.	2202-2A	98	E	6		A14	2412	23	TCS47					4	6A7, 6C6, 25L6G, 25Z5, L49D	456	8-5
162	Vol.	2202-2A	98	E	6		A14	2412	23	TCS47					5	6A7, 6C6, 25L6G, 6E5, 25Z5, L42D	456	8-5
163	Vol.	1845A	18	MR48	M26			2444A	23	TCS47					5	6A7, 6D6, 75, 25L6G, 25Z5, L42D	456	9-1
310	Vol.	1908D-3	45	MR48	M26			2444-1	23	TCS47					10	6A7, 6D6, 6G5, 6F5G, 25L6G, [3]76	456	8-6
410	Vol.	1289	6	SRP263	6	EX300		1194	25	TC71					4	6D6, 6C6, 42, 80		5-1
412	Vol.	1908-D-3	18	MR48	M26			2302	63	2N514					7	6A7, 6D6, 75, 25L6, 6G5, [2]25Z5	456	9-5
								2357	63	ST597								
								10	15	TC22								
515	Vol.		6	MR18				8	4	ST595					5	[2]35, 24, 47, 80		3-1
								6	4	ST595								
515SW	Vol.		6	MR18	M26			8	4	ST595					5	[2]35, 24, 47, 80		3-1
								6	4	ST595								
516	Vol.		3	MR18	M26										5	[2]39, 38, [2]33		3-3
520	Vol.	1209	6	SRP263	6			1194	25	ST595					5	6A7, 6D6, 6C6, 42, 80	456	5-2
530	Vol.	1209	6	SRP263	6			1320	7	3S582					5	6A7, 6D6, 6C6, 43, 12Z3	456	5-3
535	Vol.	1209	6	SRP263	6			1392	38	3S582/TC52					5	6A7, 6D6, 6C6, 43, 25Z5	456	6-4
536	Vol.	1908	18	MR48	M26			1921	1	RS213					5	6A7, 6K7, 75, 41, 80	456	7-10
								1914	1	RS213								
580	Vol.	1366	6	SRP263	6			1381	27	TC44/TC42					5	6A7, 6D6, 6C6, 43, 12Z3	456	6-5
606	Vol.	1908A	45	MR48				1652	25	RS213					7	6A7, 6K7, 6F5, 76, 42, 80, 6E5	456	9-6
								1835	25	ST595								
610	Vol.	1072	18	MR48	M26			1088	1/13	3S584					6	6A7, [2]6D6, 75, 42, 80	456	5-4
612	Vol.	1908D-3	45	MR48	M26			2353	1	RS216					9	6A7, 6D6, 76, 6G5, [2]6F5, [2]41, 80	456	9-7
								2308-2	1	RM262								
								2369	15	TC26								
620, 630	Vol.	1240	18	MR39	M26			1230	38	UR182/TC42					6	6A7, [2]6D6, 75, 43, 25Z5	456	5-5,6
711	Vol.	1908D-3	45	MR48	M26			2444-1	23	TCS47					10	6A7, 6D6, 6G5, 6F5G, 25L6G, [3]76	456	8-6
770 AW	Vol.		17	MR44				‡	1	See Note	B3				7	56, 57, [2]58, 2A6, 2A5, 80	456	6-6
	Tone		22	MR55														
770 AW (Late)	Vol.		17	MR44				8, 8	1	ST595					7	57, 56, [2]58, 2A6, 2A5, 80	456	9-8
	Tone		22	MR55														
1200	Vol.	2166	18	MR48	M26			2061-1	3	RS207					11	[2]6K7, 6L7, 6J5, 6G5, 6R7, [2]5N6, [2]25Z6, L85CC	456	9-10
								2186-1	3	2N513								
								2061-1	12	RS207								
								2172	15	TC22								
1900	Vol.	2047	18	MR44	M26			2601-1	3	RS207					18	[2]6K7, 6L7, 6J5, 6G5, [2]6H6, [2]6C5, [2]25A6, [2]25Z6, L75CC	456	9-9
								2059-1	1/3	TN129								
								2070-1	1	RS207								
								2062	15	[3]TC22								
HAMMARLUND MFG. CO.																		
"Comet Pro" Battery	Vol.		7	H											7	[4]77, [3]78, 42	465	
	Tone		22	MR24	M26													
"Comet Pro" Dec. 1931	Vol.		7	H				8, 8	1	RS213					8	[3]24A, [2]35, 47, 80, [3]27	465	3-1
	Tone		34	MR39	M26			8	16	TC22								
"Comet Pro" July 1932	Vol.		7	H				8, 8, 8	3	RS213					8	[3]24A, [2]35, 80, [3]27	465	3-1
	Tone		34	MR24	M26			8	15	TC22								
"Comet Pro" Sept. 1932	Vol.		7	H				8, 8, 8	3	RS213					8	[2]57, [4]58, 47, 80	465	3-2
	Tone		34	MR18	M26			8	19	TC22								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HAMMARLUND—Continued																		
"Comet Pro" Oct. 1932	Vol.		7	H				8, 8, 8	3	RS213					8	[2]57, [4]58, 47, 80	465	3-2
	Tone		34	MR18	M26			8	19	TC22								
"Comet Pro" Feb. 1933	Vol.	•	7	H				8, 8, 8	3	RS213					8	[2]57, [4]58, 2A5, 80	465	2-1
	Tone		34	MR18	M26			8	18	TC22								
"Comet Pro" Standard Model	Vol.		7	H				8, 8, 8	3	RS213					8	[2]57, [4]58, 2A5, 80	465	4-1,4
	Tone		34	MR18	M26			8	19	TC22								
"Comet Pro" (Crystal)	Vol.		7	H				8, 8, 8	3	RS213					8	[2]57, [4]58, 2A5, 80	465	4-5,8
	Tone		34	MR24	M26			8	19	TC22								
"Comet Pro" AVC Model	Vol.		15	MR44				8, 8, 8	3	RS213					9	[2]57, [4]58, 2B7, 2A5, 80	465	5-1,2
	Gain		7	H	6			8	19	TC22								
Super Pro	A.F.	3889	18	MR44				3833	3	TC92					16	[3]6D6, 6A7, [3]6C6, [3]6B7, 76, [3]42, 5Z3, 1V	465	7-1,4
	I.F.	3891	9	MR34				3832	3/14	ST597								
	R.F.	3890	9	MR53				3834	‡	3S584								
	Tone	3888	34	MR33														
SP110 Series	Vol.	4816	45			See Note A3		3832	2/14	ST597					16	6L7, 6J7, [3]6K7, [3]6D6, [3]6B7, 6C6, 6C5, [3]6F6, 5Z3, 80	465	9-1,4
	Sen.	3891	‡	MR34				3834	‡	3S584								
								3835	15	TC39								
HQ120X	Vol.	6095	15	MR48	M26			6085	3	See Note	B3				12	[3]6S7, 6K8, 6F6, [3]6H6, 6SF5, 6V6, 6J7, 5Z4G, VR150	455	10-1
	Sen.	6096	7	G				6171	15	TC29								
HQ120X (Late)	Vol.		15	MR48	M26			6085	3	See Note	B3				12	6K8, [3]6S7, 6F6, 6Z7G, 6F8G, 6SF5, 6V6G, 6J7, VR150, 5V4G	‡	12-1
	Sen.		7	G				6171	15	TC29								
HARRIS																		
100A	Vol.		63	MR48	M26			8, 8	1	ST595					4	6C5, [3]6F6, 5Z4	§	9-4
	Tone		41	MR39														
500	Vol.		75	MR48	M26			8-8	4	2S567					7	6A8, 6K7, 6H6, 6C5, [3]6F6, 5Z4	465	8-1
	Tone		41	MR39														
501W	Vol.		75	MR48	M26			8-8	4	2S567					7	6A8, 6K7, 6H6, 6C5, [3]6F6, 5Z4	465	8-2
	Tone		41	MR39														
600	Vol.		75	MR48	M26			8-8	4	2S567					7	6A8, 6K7, 6H6, 6C5, [3]6F6, 5Z4	465	8-1
	Tone		41	MR39														
700	Vol.		75	MR48	M26			8-8	4	2S567					7	6A8, 6K7, 6H6, 6C5, [3]6F6, 5Z4	465	8-1
	Tone		41	MR39														
701W	Vol.		75	MR48	M26			8-8	4	2S567					7	6A8, 6K7, 6H6, 6C5, [3]6F6, 5Z4	465	8-2
	Tone		41	MR39														
800	Vol.		18	MR48	M26			16-16-8	63	TN129					7	6A8, 6K7, 6R7, [3]25A6, [3]25Z6	465	8-3
	Tone		41	MR39														
900	Vol.		75	MR48	M26			8-8	4	2S567					7	6A8, 6K7, 6H6, 6C5, [3]6F6, 5Z4	465	8-2
	Tone		41	MR39														
1000	Vol.		18	MR48	M26			16-16-8	63	TN129					7	6A8, 6K7, 6R7, [3]25A6, [3]25Z6	465	8-4
	Tone		41	MR39														
1201W	Vol.		75	MR48	M26			8-8	4	2S567					7	6A8, 6K7, 6H6, 6C5, [3]6F6, 5Z4	465	8-2
	Tone		41	MR39														
HETRO																		
6 Tube AC	Vol.		17	MR48	M26			8	4	RS213					6	[3]6D6, 6A7, 6B7, 42, 80	456	6-11
	Tone		34	MR33				10	15	TC22								
								30	4	RS223								
6 Tube AC-DC	Vol.		17	MR48	M26			C2092	6/15	3N527					6	6A7, [3]6D6, 6B7, 43, 25Z5	456	6-12
	Tone		34	MR33				10	15	TC22								
8 Tube Superhet	Vol.		15	MR55				622	3	RS213					8	2A7, [3]58, 55, 56, [3]2A5, 80	456	6-13,14
	Tone		41	MR48	M26			604	3	RM262								
								490	15	TC22								
9 Tube Air Ace	Vol.	S341N	18	MR48	M26			30	1	RS223					9	[3]6D6, 6A7, 85, [3]42, 80, 76	456	6-15,16
	Tone	TC900	44	MR33				14	1	RS216								
								10	15	TC22								
9 Tube Air Ace (Rev.)	Vol.	S341N	18	MR48	M26			30	1	RS223					9	[3]6K7, 6A8, 6R7, 6C5, [3]6B5, 5Z3	456	7-4
	Tone	TC90D	22	MR33				14	1	RS216								
								10	15	TC22								
6 LB, 6 SB	Vol.	734	18	MR48											6	1C6, 34, 1B5, [3]30	456	6-4
	Tone	735	21	MR53														
F9 to F12	Vol.		17	MR48				24	4	TC47					5	6A8, 6K7, 6Q7, 25A6, 25Z6	456	7-1
								16	4	TC45								
F13 to F20	Vol.		80	500M No. 1		See Note A19		30	4	RS223					6	6A8, 6K7, 6Q7, [3]6F6, 80	456	7-2
	Tone		80	MR48				16	4	RS216								
								10	15	TC22								
F21 to F28	Vol.		37	500M No. 1		See Note A19		24	27	TC47					6	6A8, 6K7, 6Q7, [3]25A6, 25Z6	456	7-3
	Tone		37	MR48				16	27	TC45								
H47, H48	Vol.	215	18	MR48				1703	23	2S567					6	6A8, 6D6, 6Q7, 41, 6G5, 80	465	9-12
	Tone	304A	34			See Note A3												
H61, H62	Vol.	1211962	18	MR44	M26			1211445	25	RS216					5	6A8G, 6K7G, 6Q7G, 6K6G, 5V4G	456	9-1
	Tone	1211398	57	MR48				1211444	25	RS216								
								1212000	13	TC70								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HETRO—Continued																		
HP61, HP62	Vol.	1211962	17	MR44	M26			1211445	25	RS216					5	6A8G, 6K7G, 6Q7G, 6K6G, 5V4G	456	9-1
	Tone	1211398	21	MR48				1211444	25	RS216								
								1212000	13	TC70								
H63, HP63	Vol.	1211396	75	MRT420	M26			1211972	25	RS216					8	6A8, [6]K7, 6H6, 6F5, 6G5, 6L6, 5V4G	456	9-3
	Tone	1211398	57	MR48				1211870	25	RS213								
								1211455	19	TC22								
								1211931	13	RS213								
H64, HP64	Vol.	1211396	75	MRT420	M26			1211972	25	RS216					8	6A8, [6]K7, 6F5, 6H6, 6G5, 6L6, 5V4G	456	9-3
	Tone	1211398	57	MR48				1211870	25	RS213								
								1211455	13	RS213								
								1211931	19	TC22								
HA67	Vol.		18	UM154			A96	8-8	1	2N518			See Note	C8	6	[2]6D6, 6L7, 76, 6B5, 75	465	9-5
	Tone		22	UM144			A96	.005		Buffer	B14							
H85, HP85	Vol.	1211936	45	MRT420				1211972	25	RS216					8	[2]6K7, 6A8, 6H6, 6F5, 6L6, 6G5, 5V4G	456	9-7
	Tone	1211398	57	MR48				1211870	25	RS213								
								1211931	13	RS213								
								1211455	19	TC22								
H87, HP87	Vol.	1211396	75	MRT420	M26			1211444	25	RS216					7	6A8G, 6K7G, 6H6, 6F5G, 6F6, 6G5, 5Z4	456	9-9
	Tone	1211398	57	MR48				1211445	25	RS216								
								1212000	13	TC70								
H93, HP93	Vol.	1211936	75	MRT420				1211972	25	RS216					8	[2]6K7, 6A8, 6H6, 6G5, 6F5, 6L6, 5V4G	456	9-7
	Tone	1211398	57	MR48				1211870	25	RS213								
								1211931	13	TC70								
								1211455	19	TC22								
22	Vol.		6	MR21		EX200		8-8	1	See Note	B3				8	[3]58, 57, [3]47, 56, 80	115	6-1
	Tone		22	MR24														
31	Vol.		77	MR48				8-8	1	See Note	B3				8	57, [3]58, 55, [3]47, 80	175	6-2
	Tone		44	MR24														
71	Vol.		56	MR48				10-25-10	11	UR182	B31				5	[2]6D6, 75, 43, 25Z5	456	6-3
207	Vol.	84	17	MR48	M26			623	4	ST595	B3				5	2A7, 58, 2A6, 2A5, 80	456	6-5
								490	15	TC22								
209	Vol.	84	17	MR48	M26			623	4	ST595	B3				5	2A7, 58, 2A6, 2A5, 80	456	6-6
								490	15	TC22								
251	Vol.	161	6	MR21		EX250		428	4	2S567					4	57, 58, 2A5, 80		6-7
	Tone	155	22	MR24	M26													
257, 259	Vol.	84	17	MR48	M26			623	4	ST595	B3				5	2A7, 58, 2A6, 2A5, 80	456	6-5,6
								490	15	TC22								
293	Vol.		6	MR24		EX200		2023	23	TCS55					4	6D6, 6C6, 43, 25Z5		7-4
295	Vol.	84	17	MR48	M26			466	11	UR182	B31				5	[2]6D6, 75, 43, 25Z5	456	6-8
								490	15	TC22								
297	Vol.	84	17	MR48	M26			466	11	UR182	B31				5	6A7, 6D6, 75, 43, 25Z5	456	6-9
								490	15	TC22								
412, 466	Vol.	658	17	MR48				C2092	6/15	3N527					6	[2]6D6, 6A7, 75, 43, 25Z5	456	6-10
	Tone	657	22	MR39	M26			10	15	TC22								
10310, 10410, 10510, 10610 Series B	Vol.	215	18	MR48				16-12	4	TCS44					6	6A7, 6D6, 75, 25L6, 6G5, 25Z5, L49C	465	9-11
14610, 14710	Vol.		18	MR48				8-4	23	2S567					7	[2]6K7, 6A8, 6Q7, 6F6, 6G5, 5Y3	465	9-13
	Tone		34	‡		See Note A3												
14810, 14890, 14910, 14990	Vol.		18	MR48				8-4	23	2S567					6	6A7, 6D6, 75, 42, 80, 6G5	465	9-14
	Tone		22	‡		See Note A3												
15010, 15110	Vol.		18	MR48				8-4	23	2S567					6	[2]6K7, 6A8, 6G7, 6F6, 5Y3	465	9-13
	Tone		34	‡		See Note A3												
15210	Vol.		18	MR48				8-4	23	2S567					7	[2]6K7, 6A8, 6Q7, 6F6, 6G5, 5Y3	465	9-13
	Tone		34	‡		See Note A3												
HERBERT H. HORN	"Tiffany	Tone"																
4T	Vol.		6	MR18				5-5	23	2S567					4	6D6, 6C6, 41, 80		9-1
5	Vol.		6	SRP263				4-4	23	TCS71					5	57, 58, 56, 2A5, 80	465	6-1
5A	Vol.		6	MR24				5-5	23	2S567					5	‡	465	7-1
	Tone		22	MR33														
5MT	Vol.		6	SRP263				5-5	23	2S567					5	6J7, 6K7, 6C5, 6F6, 5Z4	465	6-2
5MTD	Vol.		18	MR48				5-5	23	2S567					5	‡	465	7-2
	Tone		22	MR33														
7MT	Vol.		62	MR48				8-8	23	2S567					7	6A8, 6K7, 6H6, [2]6C5, 6F6, 5Z4	465	6-3
	Tone		22	MR33														
9MT, 9MTC	Vol.		83	MR48				16, 16	23	RS216					9	[2]6K7, [2]6A8, 6H6, 6C5, 6F6, 5Z4	1600	6-4, 7-3
	Tone		22	MR33														
10MT	Vol.		83	MR48				8-8	23	TCS71	B3				10	[3]6K7, 6L7, 6C5, 6H6, 6G5, 6J7, 6F6, 5Y3	1600	7-4
	Tone		22	MR33				10	19	TC22								
11A	Vol.		80	750M		See Note A19		16	1	RS216					11	6A8, [3]6K7, [3]6J5, 6J7, [3]6F6, 5Y3	465	9-2
	Tone		80	MR44				5, 5	1/13	ST595								
15	Vol.		6	H7				8, 8	4	RS213					6	[4]24, 45, 80		3-1,2
	Tone		22	L														
15M	Vol.		6	D7				8, 8	4	ST595					6	27, 47, 80, [3]35		6-5
	Tone		22	MR18														
16MT	Vol.		83	‡		See Note A3		8, 8, 8	30	ST595					16	[4]6K7, [3]6A8, [3]6H6, [3]6C5, [3]6F6, [3]5Z4	1600	8-1
	H. F. Tone		22	MR44				8	15	TC32								
								10	15	TC22								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HERBERT H. HORN—Continued																		
17MT	Vol.		83	MR48				16-8-8-8	‡	See Note	B3				17	[4]6K7, 6L7, [4]6C5, [3]6H6, 6G5, [3]6F6, [3]5Y3	1600	7-5
	Bass		‡	UC513				8	15	TC32								
								8	13	TC71								
21	Vol.		6	MR19	M26			4-8	23	TCS71					4	57, 58, 47, 82		4-1
	Tone		22	MR18														
24	Vol.		6	SRP263				4-4	4	TCS71					4	2A7, 57, 2A5, 80	465	4-2
25	Vol.		6	MR18	M26			8-4	23	TCS71					4	57, 58, 47, 80		4-1
	Tone		22	MR18														
36	Vol.		17	MR48	M26			4-4	4	See Note	B3				5	6A7, 78, 6B7, 42, 80	465	4-2
	Tone		22	MR48														
49	Vol.		6	C12				8-8	1	See Note	B3				5	[3]24, 45, 80		
50, 50B	Vol.		18	MR48				5-5	23	2S567					5	6A8, 6K7, 75, 42, 80, or 6A7, 6D6, 75, 6F6, 5Y3	465	9-1
51	Vol.		18	MR48				8-8	23	2S567					5	6A7, 6D6, 75, 42, 80	465	7-6
52	Vol.		18	MR48				8-8	23	2S567					5	6A8G, 6K7G, 75, 6F6G, 5Y3	465	7-7
	Tone		22	MR33														
55	Vol.		56	MR48				8, 8	23	ST595					5	57, 58, 2A6, 2A5, 80	465	6-1
	Tone		22	MR24														
58	Vol.		15	MR48	M26			8-8	1	2N518	B3				7	2A7, [3]58, 56, 57, 2A5, 80	465	4-3
	Tone		76	MR48				10	15	TC22								
58 (1933)	Vol.		15	MR48				8-8	1	2N518	B3				7	2A7, [3]58, 56, 2A5, 80, 57	465	4-3
	Tone		21	MR48				10	15	TC22								
59	Vol.		7	G				8-8	1	2N518	B3				8	[2]7, [3]51, [2]47, 80	175	3-3
	Tone		39	MR44														
62	Vol.		18	MR48				8-8	23	2S567					5	6A8G, 6K7G, 75, 6F6G, 5Y3	465	7-6
	Tone		22	MR33														
63	Vol.		18	MR48				8-8	23	2S567					5	6A8, 6K7, 75, 6F6, 5Y3	465	7-8
	Tone		22	MR33														
66	Vol.		15	MR48				8-8	23	2S567	B3				6	‡	465	6-6
66MT	Vol.		75	MR44				5-5	23	TCS71	B3				6	6A8, 6K7, 6H6, 6J7, 6F6, 5Z4	465	6-9, 7-1
	Tone		22	MR33														
67	Vol.		18	MR48				5-5	23	2S567					6	6A7, 6D6, 75, 42, 80, 6U5	465	9-3
	Tone		22	MR33														
69	Vol.		7	G				8, 8	1	ST595	B3				8	[2]7, [3]51, [2]47, 80	465	3-3
	Tone		39	MR44														
70, 71	Vol.		6	MR18	M26			8, 8	4	RS213					7	[3]35, [2]24, 27, 47, 80	175	3-4, 5
76	Vol.		75	MR48				8-8	23	See Note	B3				7	6A8, 6K7, 6H6, 6J7, 6F6, 6E5, 5Y3	465	7-4
	Tone		22	MR33														
77	Vol.		83	MR48				8-8	23	See Note	B3				7	2A7, [3]58, 55, [2]A5, 80	465	6-1
	Tone		22	MR24														
	Sen.		7	MR28														
79	Vol.		6	MR18				8-8	4	See Note	B3				8	[2]7, [3]51, [2]47, 80	175	6-7, 8
	Tone		22	MR44														
83	Vol.		83	MR48				8-8	23	TCS71	B3				7	6A8, 6K7, 6H6, 6G5, 6J7, 6F6, 5Y3	465	7-8
	Tone		22	MR33														
87, 87C	Vol.		18	MR48				12	23	RS215					7	[2]6K7, 6A8, 6U5, 75, 6V6G, 5Y3G	465	9-4
	Tone		22	MR33				12	23	RS216								
90	Vol.		7	G				8-8	1	See Note	B3				8	[2]7, [3]51, [2]47, 80	175	3-3
	Tone		39	MR44														
97, 97C	Vol.		18	MR48				10	25	RS215					9	[2]6K7, 6A8, 6Q7, 6U5, 6F6, [2]6C5, 5Y3	465	9-4
	Tone		22	MR48				12	25	RS216								
								10	15	TC32								
99	Vol.		6	MR18				8-8	4	See Note	B3				8	[2]7, [3]51, [2]47, 80	175	6-7, 8
	Tone		22	MR44														
101	Vol.		15	MR44				8-8	4	See Note	B3				11	[2]7, [3]34, [2]24, [2]47, 80	175/550SW	2-1, 2
	Tone		39	MR48														
	Tunlgt.		‡	A10MP														
101B, 102B	Vol.		15	MR48	M26			8-8	1	See Note	B3				12	[2]24, [2]27, [3]35, [2]47, 80	175	3-6, 8
	Tone		39	MR48														
	Tunlgt.		‡	A10MP														
109	Vol.		6	MR33				8-8	4	See Note	B3				8	[2]7, [3]51, [2]47, 80	175	6-7, 8
	Tone		22	MR44														
110	Vol.		15	MR48				8-8	4	See Note	B3				10	[2]27, [3]35, [2]47, 80	175/550SW	2-1, 2
	Tone		39	MR48														
	Tunlgt.		‡	A10MP														
112A	Vol.		15	MR48				8-8-4	32	See Note	B3				12	[3]58, 2A7, [3]56, [2]2A3, 5Z3	175	5-1
	Tone		22	MR48														
156	Vol.		56	MR48	M26			4-4	23	See Note	B3				5	2A7, 2B7, 58, 2A5, 80	465	5-2
	Tone		22	MR48														
156AW	Vol.		56	MR48	M26			4-4	23	See Note	B3				5	2A7, 58, 2B7, 2A5, 80	465	6-2
	Tone		22	MR48														
158 (1933)	Vol.		15	MR48				8-8	1	See Note	B3				7	2A7, [3]58, 56, 57, 2A5, 80	465	4-4
	Tone		21	MR48														
518	Vol.		18	MR48				5-5	23	2S567					5	6A7, 6D6, 75, 42, 80	465	9-3
535	Vol.		56	MR48				4-4	4	See Note	B3		294	C3	5	6A7, 6D6, 75, 42, 84	465	7-7
								.02		Buffer	B14							
536	Vol.		56	MR48				4-4	4	See Note	B3		294	C3	5	6A7, 6D6, 75, 42, 84	465	7-7
	Tone		22	MR33				.02		Buffer	B14							
537, 538	Vol.		18	MR48				5-5	23	2S567			294	C3	5	6A8, 6K7, 6Q7, 6F6, 84	465	8-2
	Tone		22	MR33				.01		Buffer	B14							
1934	Vol.		56	MR48				4-4	1	See Note	B3				5	6A7, [3]78, 6B7, 42	172	5-2
	Tone		22	MR33														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HOWARD																		
AA25	Vol.		6	MR21	‡	EX300		16-12	4	TCS44					4	6D6, 6C6, 43, 25Z5		6-3
AP	Vol.	2399	16	‡	‡	See Note A5		2335	3	TC71					9	55,§56,§58,§42, 80	175	
	Tone	1953	41	MR55	M26			1948	3	RS213								
								2209	3	TC71								
								1976	3	RS213								
A SW Converter								1859	1	ST595					1	§24, 35, 27		3-9
AVII (45, 60)	Vol.	1884	94	MR48				1883	3	3S584					9	§27,§35,§47, 80	175	2-6,7
	Tone	1881	44	MR48	M26													
AVO (35-A)	Vol.	1884	35	MR48				1883	3	3S584					8	§35,§27, 47, 80	175	3-11
	Tone	2269	34	MR39	M26			2282	16	TC22								
A12	Vol.		6	MR21	‡	EX300		16-12	4	TCS44					4	6D6, 6C6, 43, 12Z3		6-1
B13	Vol.		17	MR48				8-16-12	27	UR182	B115				5	6A7, 6D6, 75, 43, 25Z5	456	6-1
CC23, CC24	Vol.		17	MR48				8, 8	1	ST595					6	§6D6, 75, 42, 76, 80	456	6-3
								10	15	TC22								
D4 (Cable-Nelson)	Vol.	2202	8	‡		See Note A5		1869	1	TC71					4	51, 24, 47, 80		2-12
								2209	1	TC71								
D8	Vol.	3120	19	MRT427	M26			3004	28	RM262					8	§78, 6A7, 85, 76, 42, 80	465	6-17
	Tone	3119	22	MR24				1948	28	RS213								
	Supp.	3121	9	MR20														
EX (Dual Range)	Vol.	1968	8	G				1869	3	TC71					10	§27,§51,§47, 80	140	3-2
	Tone	1881	44	MR48	M26			2209	3	TC71								
E5B	Vol.		18	MR48				4	12	TC52					4	1C6, 1A4, 1F6, 1F4, 1B1	465	9-1
E14, E107	Vol.		18	MR48	M26			8-4	23	TCS71					6	6C6, 6D6, 75, 42, 80, 76	456	6-2
E57 (Long Wave)	Vol.	6208	18	MR48	M26			8815	11	2N509					5	6A7, 6D6, 75, 43, 25Z5	456	7-12,13
								8816	11	TC42								
E256	Vol.		45	MR48	M26			40-10	6	2N514					6	6A7, 6D6, 76, 6K5, 25B5, 25Z5, K42B	465	9-1
E259	Vol.		18	MR48	M26			40-10	6	2N514					5	6A7, 6D6, 75, 42, 80	465	9-2
F	Vol.	3120	15	MR48				3288	1	TCD71					12	6A7,§78, 85,§76,§42,§80	465	6-4
	Tone	3119	22	MR24				3004	1	RM262								
	Sen.	3121	7	MR20				1948	18	RS213								
F (with 45's)	Vol.	1939	24	‡		See Note A5		1748	1	RS213					7	§24, 27,§45, 80		2-1
	Tone	1938	41	MR57	M26													
Series 1 (Grand)	Vol.		15	MR48	M26			8-8	1	RM262					19	§76, 6C6,§78, 80, 85,§42		
	Tone		15	MR48				8-8	24	2N516						84, 5Z3	175	6-15,16
	Hum		‡	A10MP				5	15	TC32								
								25	15	TC26								
								8-8	12	RM262								
Series 2 (Grand)	Vol.		15	MR48	M26			8-8	1	RM262					19	§78, §76, 6C6, 85, §42, 5Z3, 80, 84	465	7-1,2
	Tone		15	MR48				8-8	24	2N516								
	Hum		‡	A10MP				5	15	TC32								
								25	15	TC26								
								30-8	1	See Note	B3							
"Green Diamond" 8 Mag. Speaker	Vol.	P1683A	1	D12				‡	‡	See Note	B4				9	§26, 27,§71A, 80		1-3
	Phono.	P1685A	10	MR33														
"Green Diamond" 8 Dyn. Speaker	Vol.	P1683A	1	D12				P1727	3	See Note	B3				9	§26, 27,§71A, 80		1-4
	Phono.	P1685A	10	MR33				P1728	3	See Note	B3							
"Green Diamond" 8 Dyn. Speaker 45's	Vol.	P1683A	1	D12				SA1090	3	3S584	B8				9	§26, 27,§45, 80		1-5
	Phono.	P1685A	10	MR33														
G26	Vol.		6	MR21		EX300		8-8-10-10	24	2N509/TN111					4	39, 36, 38, 37		6-3
H (with 45's) (35, 40)	Vol.	1968	8	G				1948	1	RS213					8	§51,§27,§45, 80	175	3-3,4
	Tone	1953	41	MR55	M26													
H (35, 40) (with 47's)	Vol.	1968	8	G				1948	3	RS213					8	§51,§27,§47, 80	175	2-3,5
	Tone	1881	41	MR48	M26			1976	3	RS213								
Auto (Series 1)	Vol.		18	UM154-SS3	M26			8-8	1	2N518			249	C3	6	§6D6, 76, 75, 42, 6L7	465	
	Tone		22	UM140			A96	.005		Buffer	B14							
HA1 (670A)	Vol.	101-9	17	MR48	M26			P119-4	4	TCS71		142-1	299	C3	6	6C6,§6D6, 75, 42, 84	175	6-7,9
								.015		Buffer	B14							
HA2 (52, 502)	Vol.		18	UM154		See Note A96		8-8	4	TCS71			292	C3	5	6A7, 6D6, 75, 41, 84	456	6-10
								10-10	15	TN111								
								.008-.008		Buffer	B14							
HA3	Vol.		17	UM154		See Note A96		8-8	4	TCS71			294	C3	5	6A7, 6D6, 75, 41, 84	456	6-11
								5-5	15	TN111								
								.015-.015		Buffer	B14							
HA4	Vol.		18	UM154-SS3				8-8	4	TCS71			294	C3	6	§6D6, 6A7, 75, 41, 84	175	6-12
								10	15	TC22								
								.015-.015		Buffer	B14							
HA6	Vol.	6227	18	UM157-SS3				8826	‡	BM262		9600	249	C3	6	§6D6, 6L7, 75, 76, 6B5	465	7-3,10
	Tone	6225	22	UM140-SS18				.005		Buffer	B14							
HA7	Vol.	22-281	18	UM157-SS17				26-266	4	2S567		3-967	294	C3	6	§6K7G, 6A8G, 6Q7G, 6V6G, 0Z4	262	10-3
								.0075		Buffer	B14							
HA8	Vol.	22-281	18	UM157-SS17				27-266	1	2N518		4-967	294	C3	8	§6K7G, 6A8G, 6Q7G, 6C5G,§6V6G, 0Z4	262	10-3
								.0075		Buffer	B14							
HA9	Vol.	22-281	18	UM157-SS17				26-266	4	2S567		3-967	294	C3	6	§6K7G, 6A8G, 6Q7G, 6V6G, 0Z4	262	10-3
								.0075		Buffer	B14							

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HOWARD—Continued																		
"Highwayman"	Vol.	101-9	17	MR18	M26			P103-2	4	RM262			299	C3	6	6D6, 6C6, 78, 75, 42, 84	175	
								.02		Buffer	B14							
J3	Vol.	2161	8	G	6			2178A	1	2N518					6	‡78, 77, 43, 84, 37	456	3-12
								2427	12	TC70								
								2177	15	TN111								
K (400)	Vol.	2294	13	MR39				1869	28	TC71					10	‡56, 57, ‡58, ‡47, 80	175	3-8
	Tone	1953	41	MR55	M26			2335	28	TC71								
	Supp.	2319	7	G														
L (410)	Vol.	2349	13	MR44				2335	3	TC71					11	55, ‡56, ‡58, ‡42, 80	175	3-5,6
	Supp.	2372	56	MR44	M26			1869	3	TC71								
	Tone	1953	41	MR55	M26													
M (420)	Vol.	2349	13	MR41				2335	3	TC71					13	55, ‡56, ‡58, ‡42, 84	175	3-6,7
	Supp.	2372	18	MR44	M26													
	Tone	1953	41	MR55	M26													
O (20, 25, 30, 32)	Vol.	1981	8	‡		See Note A5		1858	1	2S567					7	‡51, ‡27, 47, 80	175	2-8,9
	Tone	1863	21	‡		See Note A5		1859	1	TC70								
Q	Vol.	2808	15	MR44				2303	28	TCS71					7	‡78, 6A7, 76, ‡12A5, 80, 77	170	4-2,3
	Tone	2809	22	MR44	M26			2427	28	TC71								
R9	Vol.	2808	15	MR41				2803	3	TCD71					9	‡76, 77, 78, 6B7, ‡42, 80	465	5-1,3
	Tone	2988	22	‡		See Note A5		2427	3	TC71								
SG "A," "C," (R.F. chassis)	Vol.	P1900	24	Order from	Mfr.										4	‡24, 27		1-6
SG "A," SG "C" (A.F. Chassis)																		
SG "B"	Vol.	P1937	8	G				P1080	3	3S584	B8				3	‡45, 80		1-7
	Tone	P1938	21	MR55	M26			1748	1	RS213					6	‡24, 27, 45, 80		2-14
SG "T"	Vol.	1877	8	F	6	3		1868	1	TCD71					5	‡51, 24, 47, 80		2-10,11
S2, S7	Vol.	2787	15	‡		See Note A5									8	1A6, ‡30, 32, ‡34, ‡49	175	4-1,7-9
W 1st Type	Vol.	2863	15	MR48											10	‡56, ‡57, ‡58, 2A7, 2B7	465	5-4,12
	Tone	2862	22	MR48	M26													
	Supp.	2890	8	G														
	AVC	2865	‡	Y1000MP														
W 2nd Type	Vol.		15	MR48											10	‡56, ‡57, ‡58	465	5-5,12
	Tone	2862	22	MR48	M26													
	Supp.		12	MR18														
	Tunlgt.	2865	‡	Y1000MP														
W 2nd Revision	Vol.		17	MR48				8	13	TC71					19	2A7, ‡56, ‡58, ‡2A5, 83V	465	6-13,14
	Tone		22	MR48	M26			10	15	TC32								
	Sen.	3121	8	MR20														
W (Power Amplifier)								2851	3/14	See Note	B116				9	83V, ‡2A5, ‡56		5-6
								2850	4	TCS52								
								2427	15	TC22								
X2, X3, X8	Vol.	2725	15	MR48	M26			1948	3	RS213					7	6A7, 6B7, ‡78, 77, 12A5, 80	175	4-4,5
								1976	3	RS213								
								2427	15	TC22								
X275	Vol.	11-278	18	MR48	M26			30-266	1	FP231					6	6J8G, 6D6, 75, 6V6G, 6U5, 80	465	10-11
	Tone	23-281	21	MR18														
Z4	Vol.	2725	45	MR48	M26			1948	3	RS213					10	6A7, 6B7, ‡78, ‡77, ‡2A5, 80	175	4-6,7
								2209	3	TC71								
4B	Vol.	23-281	18	MR18				4	12	TC52					4	1A7G, 1N5G, 1H5G, 1C5G	465	10-1
4BT	Vol.	39-281	18	MR48	M27			36-266	12	FP143					4	1A7G, 1N5G, 1H5G, 1C5G	465	10-2
5B	Vol.	20-281	18	MR18	M27			23-266	12	ST595					4	1C6, 1A4, 1F6, 1F4, 1B1	465	8-1,3
6B	Vol.	6232	18	MR48	M27			8, 8	1	TC52		9605	245C	C3	6	6D8G, ‡1A4, 6T7G, 30, 19	465	9-4
	Tone		22	MR48				.005		Buffer	B14							
6B-A	Vol.	17-281	124	MR53	M27			20-266	1	3S584	B8	9605-1	246	C3	6	6D8G, ‡6S7G, 6T7G, 30, 19	465	9-4,5
	Tone	6223	22	MR18				.005		Buffer	B14							
6B-T	Vol.	17-281	124	MR53	M27			20-266	1	3S584	B8	9605-1	246	C3	6	6D8G, ‡6S7G, 6T7G, 30, 19	465	
	Tone	6223	22	MR18				.005		Buffer	B14							
7BT	Vol.	18-281	18	MR48	M26			8-16	1	3S584	B8		245C	C3	5	6D8G, 6S7G, 6T7G, 41, 6L5G	465	9-6
								10	15	TC22								
								.005		Buffer	B14							
12B	Vol.		18	MR48				10	12	TC44					4	1A7G, 1N5G, 1H5G, 1C5G	465	11-1
14ACB	Vol.	70-281	18	MR48	M27			47-266	1	FP211					6	1P5GT, 1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6GT	465	11-2
								50	78	TC29								
47A	Vol.	6207A	6	MR21	M26	EX300		16-12	4	TCS55					4	6D6, 6C6, 43, 25Z5		7-11,12
50SW	Vol.	6207A	6	MR21	M26	EX300		8812	4	TCS44					5	‡6D6, 6J7, 43, 25Z5		7-11,12
								3003	15	TC22								
50 (Series 2)	Vol.	6207A	6	MR21	M26	EX300		16-12	4	TCS44					5	‡6D6, 6J7, 43, 25Z5		7-11,12
								5	15	TC22								
56	Vol.		18	MR48	M26			16-12	4	TCS44					5	6A7, 6D6, 75, 43, 25Z5, K49B	465	8-2
57A, 57AUS	Vol.	6208	18	MR48	M26			8815	11	2N509					5	6A7, 6D6, 75, 43, 25Z5	456	7-12,14
								8816	11	TC42								
58 (B5)	Vol.	6221	18	MR48	M26			8812	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5	465	7-15,16
59	Vol.	6221	18	MR48	M26			8812	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5, K49C	465	9-26

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HOWARD—Continued																		
60 (Series 1), 60 (Short Wave)	Vol.	6208	75	MR48	M26			8815	11	2N509					6	6A7, 6D6, 6H6, 6F5, 43, 25Z5	456	7-12,14
67, 67C, 67T	Vol.	6212	75	MR48	M26			8816	11	TC42								
								8817	1	2N518					6	6A7, 6D6, 6H6G, 6F5G, 42, 80	465	8-15
68	Vol.	6229	18	MR48	M26			3003	15	TC22								
	Tone	6223	22	MR48				8826	1	2S567					6	6A7, 6K7, 6Q7, 6B5, 80, 6G5	465	7-17,18
77C, 77T	Vol.	6216	75	MR48	M26			3004	1	RM262					7	6A8, 6K7, 6H6, 6F5, 6F6, 5Y3	465	7-19,20
								8814	14	TC70								
								3003	15	TC32								
99, 99C, 99T	Vol.	6210	15	MR48	M26			3004	1	RM262					9	6K7, 6A8, 6H6, 6C5, 6F6, 5Z4	465	7-23,24
	Tone	6211	41	MR48				8814	14	TC70								
								3003	15	TC32								
118	Vol.	6222	75	MR53	M26			17-266	1	RS213					11	6K7, 6A7, 6H6, 6F5, 6C5, 6F6G, 6G5, 80	465	8-7,9
	Tone	6223	22	MR48				8826	1/13	2S567								
135AC (395, 445, 470, 495)	Vol.		10	GK				P1603A	3	See Note	B2				7	26, 27, 10, 81		1-8
135 D. C.	Vol.	P1750	10	E12											6	01A, 71A		2-2
200	Vol.		6	Order from	Mfr.			16	4	TC45					4	6K7GT, 6J7GT, 25L6, 25Z5		9-26
								12	4	TC44								
210, 211								16-8	24	2N509					2	6A7, 1V		10-5-7
214	Vol.	21-281	‡	Order from	Mfr.			8	1	RS213					14	6K7G, 6L7G, 6J5G, 6H6, 6G5, 6F5, 6V6G, 80	465	8-11,12
	B.Tone	8-278	‡	MR53	M26			8-8	1/14	2N518								
								8-4	14	2N518								
218	Vol.	6222	12	MR53	M26			17-266	1	RS213					11	6K7, 6A7, 6H6, 6F5, 6C5, 6F6G, 6G5, 80	465	8-7,9
	Tone	6223	22	MR48				8826	1/13	2S567								
220	Vol.	26-281	18	MR53				31-277	1	FP231					5	6A7, 6D6, 75, 41, 80	465	10-7-9
221	Vol.	36-281	18	MR48	M26			32-266	27	TCS45					5	6A7, 6D6, 75, 25L6G, 25Z5, K49B	465	10-10
								10	13	TC44								
225, S225	Vol.	23-281	18	MR48				28-266	1	2S567					5	6A7, 6D6, 75, 41, 80	465	9-9,14
	Tone	11-278	22	MR48	M26													
240-1	Vol.	29-281	18	MR48				28-266	1	2S567					6	6A7, 6D6, 75, 6U5, 41, 80	465	9-7,8
	Tone	14-278	21	MR48	M26													
240-2	Vol.	29-281	18	MR48				28-266	1	2S567					6	6A7, 6D6, 75, 6U5, 41, 80	465	9-7,8
	Tone	14-278	21	MR48	M26													
250, S250	Vol.	23-281	18	MR48				28-266	1	2S567					5	6A7, 6D6, 75, 41, 80	465	9-9,14
	Tone	11-278	22	MR48	M26													
256, S256	Vol.		18	MR48	M26			4-8	1	2N518					5	6A7, 6D6, 75, 42, 80	465	8-10
259, S259	Vol.	18-281	45	MR48	M26			40-10	6	2N514					6	6A7, 6D6, 76, 6K5, 25B5, 25Z5, K24B	465	8-13
260, S260	Vol.	23-281	18	MR48				28-266	1	2S567					6	6A7, 6D6, 75, 6U5, 41, 80	465	9-10,14
	Tone	11-278	22	MR48	M26													
266	Vol.	19-281	45	MR48	M26			24-266	1/19	3S579					6	6A7, 6D6, 76, 6F5G, 42, 80	465	8-4,6
	Tone		22	MR48														
268	Vol.	6229	45	MR48	M26			19-266	1/13	3S584	B79				7	6A7, 6K7, 76, 6F5G, 6B5, 80, 6G5	465	8-1,4
	Tone	6223	22	MR48														
270	Vol.	26-281	18	MR53				31-277	1	FP231					5	6A7, 6D6, 75, 41, 80	465	
271	Vol.	36-281	18	MR48	M26			32-266	27	TCS45					5	6A7, 6D6, 75, 25L6G, 25Z5, K49B	465	10-10
								10	13	TC44								
275, 275C, 275T, 280	Vol.	23-281	18	MR48				29-266	1	2N518					6	6A7, 6D6, 75, 6V6G, 6U5, 80	465	9-11,14
	Tone	11-278	21	MR48	M26													
300	Vol.	50-281	18	MR48	M26			39-266	1/15	FP332					5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 80	465	11-3-5
300A (301, 303, 304)	Vol.	50-281	45	MR48	M26			40-266	1/15	FP339					6	6A8GT, 6SK7, 6J5GT, 6Q7GT, 6V6GT, 80	465	11-4,5
302	Vol.		45	MR48	M26			40-266	1/15	FP339					6	6A8GT, 6K7GT, 6J5GT, 6Q7GT, 6V6GT, 80	465	
302R, 302RT (RA)	Vol.		‡	‡			A3	40-266	1/15	FP339					7	6A8GT, 6SK7GT, 6Q7GT, 6V6GT, 5W4GT, 6U5	465	12-1-6, 11-9,10
	Tone		22	UM154	M26		A96	45-266	13	FP143								
	Mike		‡	UM163			A96											
302S, 302APC	Vol.	50-281	45	MR48	M26			40-266	1/15	FP339					6	6A8GT, 6SK7, 6J5GT, 6Q7GT, 6V6GT, 80	465	11-8
305	Vol.	43-281	18	MR48				39-266	1/15	FP332					5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 80	456	11-11
306	Vol.		18	MR48	M26			39-266	1/15	FP332					5	6A8GT, 6SK7, 6Q7GT, 6K6GT, 80	465	11-12,5
307	Vol.		18	MR48				39-266	1/15	FP332					5	6A8GT, 6SK7, 6Q7GT, 6K6GT, 80	465	11-13
	Tone		57	MR48														
307-4, 307TP-2	Vol.	43-281	18	MR48				39-266	1/15	FP332					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	465	14-1,2
	Tone	49-281	22	MR48	M26													
308 (APC, C, TT)	Vol.		18	MR48				37-266	1	FP389	B8				8	6A8GT, 6SK7, 6Q7GT, 6J5GT, 6K6GT, 6U5, 5W4GT	465	11-14
	Tone		21	MR48														
318	Vol.	24-281	124	MR53				8824	1	RS213					10	6K7, 6A7, 6U5, 6Q7G, 6C5G, 6V6G, 80	465	9-15,18
	Tone	11-278	21	MR48	M26			8826-5	1/13	2S567								
318D	Vol.	29-281	18	MR48				10-10-10	1/15	FP332					7	6K8G, 6D6, 75, 6V6G, 6A7, 6U5, 80	465	10-14-20
	Tone	11-278	21	MR48	M26													

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HOWARD—Continued																		
325	Vol.	24-281	124	MR53				8824	1	RS213					10	‡6K7, 6A7, 6Q7G, 6C5G, ‡6V6G, 6U5, 80	465	9-15,18
	Tone	11-278	21	MR48	M26			8826-5	1/13	2S567								
325D	Vol.	29-281	18	MR48				10-10-10	1/15	FP332					7	6K8G, 6D6, 75, 6V6G, 6A7, 6U5, 80	465	10-14-16
	Tone	11-278	21	MR48	M26													
368	Vol.	24-281	124	MR53				19-266	1/13	3S584					8	6A7, ‡6K7, 6H6, 6F5G, 6V6G, 6U5, 80	465	9-15,18
	Tone	11-278	21	MR48	M26													
368A (with Aut. Tuning)	Vol.	24-281	124	MR53				19-266	1/13	3S584					9	6A7, 6A8, ‡6K7, 6H6, 6U5, 6F5G, 6V6G, 80	465	
	Tone	11-278	21	MR48	M26													
375	Vol.	29-281	18	MR48				10-10-10	1/15	FP332					7	6K8G, 6A7, 6D6, 75, 6V6G, 6U5, 80	465	
	Tone	11-278	21	MR48	M26													
377	Vol.	41-281	18	MR48				31-266	1	FP231					6	6A7, ‡6D6, 75, 41, 80	262	10-15
	Tone	41-281	22	MR48														
400	Vol.	25-281	‡	DRP232				17-266	1	RS213					12	‡6K7, 6L7, ‡6J5, 6Q7G, 6U5, 6F5, ‡6V6G, 80	465	9-19,25
	Tone	12-278	‡	MR53	M26			29-266	1/14	2S567								
								8-4	14	2N518								
400A	Vol.	25-281	‡	DRP232				17-266	1	RS213					12	‡6K7, 6L7, ‡6J5G, 6Q7G, 6U5, 6F5, ‡6V6G, 80	465	9-20,25
	Tone	12-278	‡	MR53	M26			29-266	1/14	2S567								
400X	Vol.	24-281	127	MR53				8, 8, 8	1/13	RS213					11	‡6K7, 6A7, 76, 6F5, 6J5G, ‡6V6G, 6U5, 80	‡	10-4
	Tone	11-278	21	MR48	M26													
418	Vol.	37-281	45	DRP232				8824	1	RS213					12	‡6K7, 6K8G, 6A7, 6Q7G, 6F5G, 6J5G, ‡6V6G, 6U5, 80	465	10-18
	Bass	17-278	‡	UM159-SS1	M26			30-266	1/14	FP231								
425	Vol.	25-281	‡	DRP232				17-266	1	RS213					14	‡6K7, 6L7, ‡6J5G, 6H6, 6U5, ‡6F5G, ‡6L6G, ‡80	465	9-19,25
	Tone	12-278	‡	MR53				29-266	1/14	2N518								
								8-8	14	2N518								
425A	Vol.	25-281	‡	DRP232				17-266	1	RS213					14	‡6K7, 6L7, ‡6J5G, 6H6, 6U5, 6F5G, 6F5, ‡6L6G, ‡80	465	9-20,25
	Tone	12-278	‡	MR53	M26			29-266	1/14	2N518								
								8-8	14	2N518								
430 Type 2	Vol.	38-281	18	MR48				31-266	1	FP231					6	6K8G, 6C5, 6K7, 6Q7G, 41, 5W4	465	10-21,22
								35-266	13/15	FP332								
435	Vol.		124	MR53				37-266	1	FP389	B8				6	6K8G, 6SK7, 6SQ7, 6K6G, 6C5, 80	465	12-10
								35-266	13/15	FP332								
436	Vol.		124	MR53				37-266	1	FP389	B8				7	6K8G, 6SK7, 6SQ7, 6H6G, 6K6G, 6C5, 80	465	12-10
								35-266	13/15	FP332								
437	Vol.		124	MR53				37-266	1	FP389	B8				9	‡6SK7, 6K8G, 6SQ7, 6K6G, 6C5, 6H6G, 80	465	12-11
	RF Gain		58	MR19				35-266	13/15	FP332								
438	Vol.	40-281	17	MR53				30-266	1	FP231					8	‡6K7, 6C5, 6K8G, 6Q7G, 41, 80	465	
								35-266	13/15	FP332								
440 (Ser. 1, 2)	Vol.		127	MR53				10-10	1	FP231					9	6K8G, ‡6K7, 6Q7G, ‡6J7G, 6V6G, 80	465	10-25
	Tone		22	MR48				10-10	13	FP231								
	Sen.		8	Y5MP														
445	Vol.	40-281	‡	MR53				47-266	1	FP211					6	12SG7, 12SA7, 12SF7, 12SC7, 35L6GT, 35Z5GT	465	14-3,4
								11-268	15	TC26								
450, 450A	Vol.	26-281	124	MR53				8	1	RS213					12	‡6K7, 6L7, 6Q7G, ‡6J5G, ‡6V6G, 80, ‡6J7G	450	10-27,29
	Tone	13-278	22	MR48				8-8	1/13	RM262								
	Sen.	28-281	7	MR14	M26													
	Meter	30-281	7	MR14														
	B.F.O.	27-281	26	MR50	M26													
460	Vol.		127	MR48				37-266	1	FP389	B69				10	6K6GT, ‡6SK7, 6K8G, 6SQ7, 6V6G, 6H6, 6SF5, 80	465	13-1-6
	RF Gain	44-281	7	MR18	M26			35-266	13/15	FP332								
	Meter	46-281	‡	MR14														
468	Vol.	37-281	‡	DRP232				33-266	1/13	FP389					9	6K8G, ‡6K7, 6A7, 6U5, 6Q7G, 6V6G, 6F5G, 80	465	
	Bass	17-278	‡	UM159-SS1	M26													
490	Vol.	43-281	15	MR48				50-266	1/15	FP339					14	‡6AB7, ‡6SA7, ‡6SK7, 6H6, 7E7, 6SF5, ‡6J5, ‡6K6GT, 5Y3G	465	13-7,8
	Bass	74-281	‡	MR48				31-266	13	FP231								
	Treble	75-281	21	MR48	M26													
	RF Gain	76-281	7	A2MP														
518, 518S, 518APC	Vol.		‡	DRP232				30-266	1/13	FP231					12	‡6SK7, 6A8GT, ‡6J5GT, ‡6F5GT, ‡6V6GT, 80, 6U5	465	11-15,5
	Bass		‡	UM159-SS1	M26			45-266	1	FP143								
520 APC	Vol.		‡	DRP232				33-266	1/13	FP389					12	‡6SK7, 6A8GT, ‡6J5GT, ‡6F5GT, ‡6L6G, 83V, 6U5	465	11-16
	Bass		‡	UM159-SS1	M26			45-266	1	FP143								
525	Vol.	37-281	‡	DRP232				8824	46	HD684					14	‡6K7, 6K8G, 6A7, 6H6G, ‡6F5G, 6J5G, ‡6L6G, 6U5, ‡80		
	Bass	17-278	‡	UM159-SS1	M26			33-266	46/13	FP389								
528	Vol.	56-281	124	Order from	Mfr.			33-266	1/13	FP389					12	‡6SK7, 6U5, 6K8G, 6SJ7, 6H6, ‡6J5, ‡6L6, ‡80	465	13-9
								37-266	1	FP145								
565 (6 Volt)	Vol.		18	MR48				39-266	1/15	FP332		5-967	859	C3	6	6D8G, 6S7G, 6T7G, 6L5G, 6Z7G, 6ZY5G	465	11-17,5
	Tone		57	MR48				.005		Buffer	B14							
565 (12 Volt)	Vol.		18	MR48				39-266	1/15	FP332		6-967	G826C	C3	6	6D8G, 6S7G, 6T7G, 6L5G, 6Z7G, 6ZY5G	465	11-17
	Tone		57	MR48				.0075		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HOWARD—Continued																		
568	Vol.		124	MR53				33-266	1/13	FP389					9	‡6SK7, 6A8GT, 6Q7GT, 6J5GT, ‡6V6GT, 80, 6U5	465	11-18,5
	Tone	49-281	‡	MR48	M26													
568R (RA)	Vol.	65-281	‡				A3	33-266	1/13	FP389					10	‡6SK7, 6A8GT, ‡6Q7GT, 6J5GT, ‡6V5GT, 80, 6U5	465	11-19,20
	Tone	49-281	21	MR48	M26			45-266	14	FP143								
	Mike	66-281	‡	MR55														
575	Vol.	48-281	18	MR48				40-266	1/15	FP339					6	6A8GT, 6SK7, 6Q7GT, 6V6GT, 6U5, 80	465	11-21,5
	Tone	49-281	21	MR48	M26													
580, 580APC, 580C	Vol.	48-281	18	MR48				37-266	1	FP389	B8				8	6A8GT, 6SK7, 6Q7GT, 6J5GT, ‡6K6GT, 80, 6U5	465	11-22,5
	Tone	49-281	21	MR48	M26													
585	Vol.		18	MR48				32-266	4	TCS15					6	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 6N5, 35Z5GT	465	12-1 5
	Tone		21	MR48														
626	Vol.	6212	75	MR48	M26			8817	1	2N518					6	6A7, 6D6, 6H6G, 6F5G, 42, 80	465	8-14,16
								3003	15	TC22								
650 (Pre. Amp.)	RF Gain	46-281	7	MR14				31-266	1	FP231					3	‡6AB7, 80		12-17,18
660 (Freq. Monitor)	Att.	42-281	‡	MR14				31-266	24	FP231					2	6K6GT, 1V		12-11
700	Vol.	69-281	18	MR48	M26			47-266	1	FP211					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465	11-2
702	Vol.	69-281	18	MR48	M26			47-266	1	FP211					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465	12-16
718	Vol.		‡	‡		See Note A3		51-266	1/13	FP380					12	‡6SK7, 6SA7, 6U5, 6H6, ‡6SF5, 6J5GT, ‡6V6GT, 5Y3G	465	12-19
	Tone		22	MR48														
	Phono.		‡	MR55														
718-FM	Vol.	85-281	‡	Order from	Mfr.			51-266	1/13	FP380					14	6SK7, 6SA7, ‡6AC7, 6SJ7, ‡6H6, ‡6SF5, 6U5, 6J5GT, ‡6V6GT, 5Y3G	465	13-11-13
	Bass	87-281	15	MR53														
	Treble	48-281	22	MR48														
718-FM, Series X	Vol.	85-281	‡	Order from	Mfr.			51-266	1/13	FP380					14	6SK7, 6SA7, ‡6AC7, 6SJ7, ‡6H6, ‡6SF5, 6U5, 6J5GT, ‡6V6GT, 5Y3G	465	13-11-15
	Bass	87-281	15	MR53														
	Treble	48-281	22	MR48														
765 (6 Volt)	Vol.	72-281	18	MR53				39-266	1/15	FP332		5-967	859	C3	6	6SA7, 6SK7, 6T7G, 6L5G, 6Z7G, 6ZY5G	465	12-20,22
	Tone	72-281	57	MR53				.005		Buffer	B14							
765 (12 Volt)	Vol.	72-281	18	MR53				39-266	1/15	FP332		6-967	G826C	C3	6	6SA7, 6S7G, 6T7G, 6L5G, 6Z7G, 6ZY5G	465	12-20,22
	Tone	72-281	57	MR53				.0075		Buffer	B14							
768	Vol.	72-281	18	MR53				51-266	1/13	FP380					10	6U5, ‡6SK7, 6SA7, 6SQ7, 6J5GT, ‡6K6GT, 80	465	12-20,22
	Tone	72-281	22	MR53														
780	Vol.	72-281	18	MR53				51-266	1/13	FP380					8	6U5, ‡6SK7, 6SA7, 6SQ7, 6V6GT, 80	465	12-21,22
	Tone	72-281	22	MR53				20	15	TC26								
802	Vol.	69-281	18	MR48	M26			47-266	1	FP211					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465	14-9
806, 808	Vol.	82-281	‡	MR48	M26			51-266	1/13	FP380					6	6SD7GT, 6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3GT	465	13-15-17
	Tone	81-281	22	MR48														
808 (Spread Band)	Vol.	82-281	‡	MR48	M26			51-266	1/13	FP380					8	6SD7GT, 6SA7, 6SK7, 6SQ7, 6J5, ‡6K6GT, 5Y3GT	465	13-15-18
	Tone	81-281	22	MR18														
808 Series X	Vol.	56-281	‡	Order from	Mfr.			51-266	1/13	FP380					8	6SD7GT, 6SA7, 6SK7, 6SQ7, ‡6K6GT, 6J5, 5Y3GT	465	13-19-21
	Tone	81-281	22	MR48														
810	Vol.	84-281	127	UM154-SS16	M26			51-266	46	FP380					10	7H7, 6SA7, 6SK7, ‡6SQ7, 6U5, 6SL7GT, ‡6K6GT, 5Y3GT	465	14-7,8
	Tone	86-281	22	MR18				53-266	13/15	FP234								
865	Vol.	72-281	18	MR53				39-266	1/15	FP332		5-967	859	C3	6	6SA7, 6S7G, 6T7G, 6L5G, 6Z7G, 6ZY5G	465	14-10-12
	Tone	72-281	57	MR53				.005		Buffer	B14							
868	Vol.	72-281	‡	MR53				51-266	1/13	FP380					10	6SD7GT, 6SA7, ‡6SK7, 6SQ7, 6U5, 6J5GT, ‡6K6GT, 80	465	14-11-14
	Tone	72-281	22	MR53														
1626	Vol.	6212	75	MR48	M26			8817	1	2N518					6	6A7, 6D6, 6H6G, 6F5G, 42, 80	465	8-14,16
								3003	15	TC22								
HUDSON-ROSS																		
38	Vol.		6	MR44	M26	EX250		8-8	24	2N509					4	6D6, 6C6, 38, 12Z3		5-1
								10	15	TC22								
48	Vol.		6	MR44	M26	EX250		16-12	1	2N509					4	6D6, 6C6, 38, 25Z5		5-1
								10	15	TC22								
59	Vol.		6	G7	6	2		20-20	6	2N509					5	6A7, 6D6, 75, 43, 25Z5	456	5-2
								10	15	TC22								
69	Vol.		6	G7	6	2		20-20	6	2N509					6	6A7, 6D6, 85, ‡43, 25Z5	456	5-3
								3	13	TC40								
								10	15	TC22								
80	Vol.	718	18	MR48	M26			701	23	2S567					5	6A7, 6D6, 75, 42, 80	456	5-4
"Legion"	Vol.		6	MR44	M26	EX250		8-8	24	2N509					4	6D6, 6C6, 38, 12Z3		§6-13
								10	15	TC22								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HUDSON-TERRAPLANE (Also see R. C. A.-Victor, Zenith.)																		
CB-6	Vol.	72558-6	17	TM239-SS4				68569-7	1	RS213		12236	249	C3	6	§6D6, 6A7, 85, 6C5, 6A6	260	9-1
	Tone	72558-7	22	MR39				8-10-10	1/15	ST595/TN111								
								.01-.01		Buffer	B14							
DB-37	Vol.	72558-6	17	TM239-SS4				12234	1	RS213		12236	249	C3	6	6D6, 6A7, 6K7, 85, 6C5, 6A6	260	9-3,7
	Tone		22	UM110		See Note	A96	12238	1/15	ST595/TN111								
								.01-.01		Buffer	B14							
DB38	Vol.																	
	Tone	156391	45/22	Order from	Mfr.			8-8	1	2N518			249	C3	7	§6K7G, 6A8G, 6H6G, 6J5G, §6V6G	260	10-1
								10-10-10	15	TN111/TC22								
								.01-.01		Buffer	B14							
DB39	Vol.	114363	17	‡			A19	111258	1	TC71		114300	854	C3	7	§6K7G, 6J7G, 6R7G, §6V6G, 0Z4	262	11-1,3-5
	Tone	114481	22	‡			A3	110377	15	TC22								
								.01		Buffer	B14							
DB40	Vol.	118216	15	SM306				117314	1/15	FP332		116202	854	C3	7	§6SK7, 6A8, 6H6, 6SF5, 6V6GT, 6X5	455	11-6,7, 9-12
	Tone	117965	22	‡			A3	118485	13	TC52								
								.01		Buffer	B14							
DB41	Vol.	160954	17	UM162		See Note	A96	161025	1	TC72		160796	854	C3	8	§6SK7, 6SA7, 6SQ7, 6J5GT, §6V6GT, 0Z4	262	12-3,4,6
	Tone	161156	22	‡			A3	161168	1	TC74								
								110377	14/15	TC22								
								.01		Buffer	B14							
DB-42	Vol.																	
	Tone	63-1248	140	Order from	Mfr.			22-1233	24/15	FP328		190-19	1100	C3	6	§7A7, 7B8, 7B6, 7C5, 7Y4	265	13-1-5
								.008		Buffer	B14							
Hudson H6	Vol.		56	UM147		See Note	A96	4961	1	RS213			294	C3	6	§6D6, 6A7, 6B7, 41, 84	260	
								4958	1/15	3S579								
								.02-.02		Buffer	B14							
JA40	Vol.		18	MR18	M26			15-10-20	24/15	FP328			294	C3	5	6K8GT, 6K7GT, 6SQ7, 6V6GT, 0Z4	455	12-1
								.005		Buffer	B14							
JA41	Vol.	161019	18	UM161	M26	See Note	A96	161024	74	TC72		160796	854	C3	5	6SA7, 6SK7, 6SQ7, 6V6GT, 6X5GT	455	12-2,4
								161025	75	TC72								
								.01		Buffer	B14							
SA37	Vol.	72558-54	45	UM147-SS4				13114	1	2N518		12236	249	C3	5	6D6, 6A8, 6K7, 6B7, 42	260	9-7,9
								.01-.01		Buffer	B14							
SA38	Vol.		56	UM147		See Note	A96	8-8	1	2N518			294	C3	6	§6K7G, 6B8G, §6V6G, 6X5G	260	10-1
								.01-.01		Buffer	B14							
SA39	Vol.	114364	18	UM154	M26	See Note	A96	114258	25	TC71		114300	854	C3	6	§6K7G, 6J7G, 6Q7G, 6K6G, 6X5G	262	11-2
								.01		Buffer	B14							
SA40	Vol.	118216	17	SM306				117314	1/15	FP332		116202	854	C3	6	§6SK7, 6A8, 6SQ7, 6K6GT, 6X5	455	11-8-12
								118485	19	TC52								
								.01		Buffer	B14							
SA41	Vol.	160954	17	UM162		See Note	A96	161024	74	TC72		160796	854	C3	6	§6SK7, 6SA7, 6SQ7, 6V6GT, 6X5GT	455	12-4-6
								161025	74	TC72								
								.01		Buffer	B14							
650HD, 651HE, 660TD, 660TE	Vol.	63-321	17	UC511	6			22-236	1/15	2S567/TC22			292	C3	6	§6D6, 6F7, 75, 42, 84	252.5	
	Tone	63-330	34	MR33				.02		Buffer	B14							
680	Vol.	48019	18	MR18	M26	EC256		22-347	4	TCS71			294	C3	6	§6D6, 6C6, 75, 42, 84	252.5	
								.01		Buffer	B14							
IMPERIAL RADIO																		
5M-17	Vol.	B16970	6	MR33	M26			B16973	27	RS207					4	6D6, 6C6, 43, 25Z5		
								B17042	27	RS207								
6M-27	Vol.	B17010	17	MR53				B17041-3	4	RS224					5	6A8G, 6K7G, 6Q7G, 25B6G, 25Z6G	456	
	Tone	B17047	‡	MR44	M26			B17197	4	RS221								
6U-107, 6L-137, 6C-607	Vol.	B165422	18	MR53	M26			B16466	4	RS216					6	6A8G, 6K7G, 6Q7G, 6G5, 6K6G, 5Y3	456	
	Tone	B16540-2	34	MR42				B16467-2	4	HD684								
7U-117, 7L-147, 7C-707	Vol.	B16542-2	18	MR53	M26			B16466	4	RS216					7	6L7G, 6C5G, 6K7G, 6Q7G, 6G5, 6F6G, 5Y3	456	
	Tone	B16540-2	34	MR42				B16567-2	4	HD684								
8C-807	Vol.	B16542-2	18	MR53	M26			A15236-3	25	RS223					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, §6F6G, 5Y3	456	
	Tone	B16540-2	44	MR42				A15237-2	25	RS215								
8U-127	Vol.	B16542-2	18	MR53				A15236-3	25	RS223					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, §6F6G, 5Y3	456	
	Tone	B16539-2	44	Order from	Mfr.			A15237-2	25	RS215								
10C-1007	Vol.	B16553-2	17	MRT448	M26			B16554-3	1	RS223					10	§6K7G, 6L7G, 6C5G, 6Q7G, 6G5, §6F6G, 5Z3	456	
	Tone	B16540-2	22	MR42				B15427	1	RS216								
								B16551-4	15	TN111								
INSULINE CORP.																		
"Classic"	Vol.		17	MR48	M26			32-16	27	TCS47					5	6A7, 78, 6B7, 43, 25Z5	132	5-6
								5-5	15	TN111								
"Conquerer"	Vol.		8	D		2		2-4-4	3	See Note	B3				5	§1,§27, 47, 80		2-6
AVC Super Seven, AVC Long Wave 110V DC	Vol.		6	G7	6	2		8	39	See Note	B11				7	§39, 85, 37,§43	175/115	4-3
"Elite"	Vol.		17	MR48	M26			32-16	27	TCS47					9	6A7, 78, 6B7, 43, 25Z5	132	5-5
								5-5	15	TN111								
"Envoy"	Vol.		8	G		2		4, 4	1	ST595					6	§51, 24, 47, 80		2-1
"Envoy Midget"	Vol.		8	C	6			8-4	1	See Note	B3				5	§51, 24, 47, 80		2-1

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
INSULINE CORP.—Continued																		
"Envoy Midget" DC	Vol.		8	C	6			8	39	See Note	B11				5	§36,§33		2-2
	Tone		21	MR44														
"Envoy DC" Broadcast—Long Wave.	Vol.		6	E12	6			8	39	See Note	B11				5	§36,§33		2-3
"Envoy AC" Broadcast—Long Wave.	Vol.		8	A2MP	6	2		8-4	1	See Note	B3				5	§51, 24, 47, 80		2-4
"Envoyette" AC	Vol.		8	G	6	2		8-4	1	See Note	B3				5	§58, 57, 47, 80		3-2
"Envoyette" DC 5T Rec.	Vol.		8	G	6	2									5	§39, 37, §43		3-2
"Envoyette" AC 5T Receiver—Long Wave	Vol.		8	G	6	2		8-4	1	See Note	B3				5	§58, 57, 47, 80		3-2
								25	17	TC26								
ICA-ette	Vol.		6	MR21	M26			24-12	6	2N513					5	6A7, 6D6, 6C6, 43, 12Z3	456	§6-14
								10-10	15	TN111								
"Icasix"	Vol.		17	MR48	M26			8-8	1	See Note	B3				6	§6D6, 6A7, 80, 75, 42	462.5	5-3
								5-5	15	TN111								
LW 4 Tube Midget AC	Vol.		8	G	6	2		4-4	1	See Note	B3				4	51, 24, 47, 80		2-5
"Insulette & Mascot" 4 Tube Midget AC	Vol.		8	G	6	2		4-4	1	See Note	B3				4	51, 24, 47, 80		2-5
"Super-Conqueror" Short and Long Wave AC	Vol.		8	G	6	3		8-8-8	3	See Note	B3				8	§57,§58, 55, 47, 80	115	2-7
	Tone		22	MR36				25	17	TC26								
"Super-Conqueror" AC 108-250 V w/ Noise Suppressor	Vol.		18	MR48				8-8-8	3	See Note	B3				9	55,§57,§58, 47, 80	115	4-14
	Supp.		32	A5MP				5	17	TC32								
Super Six AVC LW.	Vol.		6	G7		2		8-8	1	See Note	B3				6	55, 57,§58, 47, 80	115	4-4
								25	17	TC26								
Super Six AVC Broadcast	Vol.		6	G7	6	2		8-8	1	See Note	B3				6	55, 57,§58, 47, 80	175	4-5
								25	17	TC26								
"Super Seven" AC LW	Vol.		17	MR48	M26			8-8	1	See Note	B3				7	55, 57,§58, 47, 80	115	4-16
								25	17	TC26								
								10	‡	TC32								
"TransPacific"	Vol.		15	MR48	M26			6-6-6	3	3S581					8	6A7,§78, 6B7, 77,§43, 80	1580	5-2
	Sen.		7	G				5-5	15	TN111								
"Universal Companion" "AC-DC Battery Portable"	Vol.		8	E		2		4-8	1	2N509					5	36,§37,§38		2-8,9
"Universal Mascot" AC-DC	Vol.		7	MR44	M26	EX300		8-8-4	8	TN125					5	39, 37, 36, 43, 25Z5		2-8
								5-5	15	TN111								
"Universal Companion" AC-DC Battery Portable (Revised)	Vol.		4	C				4-4	1	2N516					7	§36,§37,§33		2-9
"Trans-Atlantic"	Vol.		15	MR48	M26			6-6-6	3	3S581					8	6A7,§78, 6B7, 77,§43, 80	1580	5-1
	Sen.		7	G		2		5-5	15	TN111								
"Americus" 5T Unaradio Super AC-DC	Vol.		17	MR48	M26			32-16	27	TCS47					5	6A7, 78, 6B7, 43, 25Z5	132	4-6
								5-5	15	TN111								
"Aiglon" 5T Unaradio Super. AC-DC	Vol.		17	MR48	M26			4-8-8	8	TN125					5	6A7, 78, 6B7, 43, 25Z5	132	4-7
								5-5	15	TN111								
"Bijou" 5T Unaradio Super. AC-DC	Vol.		17	MR48	M26			4-8-8	8	TN125					5	6A7, 78, 6B7, 43, 25Z5	132	4-9
								5-5	15	TN111								
"Atlantic" 5T Unaradio Super. AC-DC	Vol.		17	MR48	M26			32-16	4	TCS47					5	6A7, 78, 6B7, 43, 25Z5	132	4-8
								5-5	15	TN111								
"Latinic" 5T Unaradio Super. AC-DC	Vol.		17	MR48	M26			32-16	27	TCS47					5	6A7, 78, 6B7, 43, 25Z5	132	4-10
								5-5	15	TN111								
"Mignon" 5T Unaradio Super. AC-DC	Vol.		17	MR48	M26			4-8-8	8	TN125					5	6A7, 78, 6B7, 43, 25Z5	132	4-11
								5-5	15	TN111								
"Uni-Nine"	Vol.		18	MR48	M26			32-16	27	TCS47					9	§78, 6A7, 85, 77, §43, §25Z5	115	4-15
	Sil.		‡	E				10, 5, 5	15	TC22								
"Gnome" 5T Unaradio Super AC-DC	Vol.		17	MR48	M26			4-8-8	8	TN125					5	6A7, 78, 6B7, 43, 25Z5	132	4-12
								5-5	15	TN111								
"Pacific" 5T Unaradio Super. AC-DC	Vol.		17	MR48	M26			32-16	4	TCS47					5	6A7, 78, 6B7, 43, 25Z5	132	4-13
								5-5	15	TN111								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
INSULINE CORP.—Continued																		
"Superheterodyne" 6T AC	Vol.		6	G7	6	2		8-8	1	See Note	B3				6	‡35, ‡24, 47, 80	175	3-1
"Superheterodyne" 7T 220V DC	Vol.		6	G7	6	2		8	39	See Note	B11				7	‡39, ‡36, 37, ‡71	175	3-1
INTERNATIONAL RADIO CORP.—"Kadette"																		
A, B Kadette	Vol.	R135	77	MR44	M26			A424	11	UR193	B31				5	6A7, 6D6, 6B7, 43, 25Z5	262.5	4-1,2
	Tone	R134	22	MR33														
All Wave Duo	Vol.		6	MR19				8-8	4	See Note	B3				8	‡24, 27, ‡35, 47, 80		
	Tone		22	MR44														
Chassis D, DSP, (DA8, DA9, DA10, D11, D12, D14)	Vol.		56	MR44	M26			A430	11	UR193	B31				5	6A7, 6D6, 6B7, 43, 25Z5	262.5	5-7
CB (Battery)	Vol.	R143	9	MR44	M26			A416	19	TC26					5	1A6, 32, 30, 31, 33	262.5	5-3
CM	Vol.	R143	6	MR44	M26			A414	27	‡TC42					5	‡6D6, 76, 38, 12Z3	262.5	5-4,8
CMS	Vol.	R143	6	MR44	M26			A414	4	‡TC42					5	6A7, 6D6, 76, 38, 12Z3	262	5-3
CS	Vol.	R102	6	G7	6	3		A404	4	TCS71	B3				5	35, ‡24, 47, 80	175	3-3,4
DAC (A7, BW, CD)	Vol.	R144	56	MR44	M26			A429	27	TC44/TC42					5	6A7, 6D6, 6B7, 43, 25Z5	262.5	5-5
DAS (A8, A9, A10, AD11, AD12)	Vol.	R144	56	MR44	M26			A430	11	UR193	B31				5	6A7, 6D6, 6B7, 43, 25Z5	262.5	5-6,8
ES (ES19, ES20, ES25)	Vol.	R105	56	MR44				A412	27	TC47/TC42					5	6A7, 6D6, 6B7, 43, 25Z5	262.5	5-8
	Tone	R104	22	MR33														
Kadette	Vol.		7	MR45	M26	EX150		A407	1	2N516					4	39, 36, 38, 1V		3-2
								A408	15	‡TC32								
"F" Kadette Jr								A427	1/15	‡TC40					2	6F7, 12A7		4-3
"J," "JS"	Vol.	R102	6	G7	6	3		A404	4	TCS71					5	35, ‡24, 47, 80	175	3-1,5
	Tone	R130	22	‡		See Note A5												
"KS"	Vol.		7	G	6	1		A-3	4	TC71					8	‡35, ‡24, 27, 47, 80	175	3-1
	Tone		22	MR33				A18	4	TC71								
								A20	14	TC70								
"K6" (K60St. Regis)	Vol.	R106	17	UM154	M26	See Note A96		A402	1	2N518		G100	296	C3	6	‡6D6, 6F7, 75, 42, 84	262.5	5-1,2
								A417	15	TC22								
								.02		Buffer	B14							
K10	Vol.	R155	18	MR48				A470	9/13	3S582/2N516					5	6A7, 6D6, 6Q7, 25B5, 25Z5, 165R4	448	9-1
K25 to K28	Vol.	R184	18	MR48				A466	1/15	TN129					5	6A7, 6D6, 75, 25B5, 25Z5, 165R4	448	9-2
K41, K43 (1938)	Vol.	R186	6	‡		See Note A5		A467	4	TCS47					3	6K7, 6J7, 25A7		9-2
KR20	Vol.	R198	18	MR48				30-8	1	2N513					5	6K8, 6K7, 6R7, 25L6, 25Z6, 165R	448	10-2
KRC2 (Tunemaster)	Vol.	R199	6	MR48				A482	24	2N514					4	6K8, 6K7, 6B8, 25Z6, K72B	1570	10-1
"M" (K40 Regal)	Vol.		6	MR18				A3	4	TC71					4	35, 24, 47, 80		3-6
	Tone		22	MR18				A4	‡	TC70								
"P"	Vol.	R131	7	‡		See Note A5		A407	1	2N516					4	78, 77, 38, 1V or 39, 36, 38, 6Z3		9-8
								A408	15	‡TC32								
"T"	Vol.	R101	6	G7	6	3		A404	4	TCS71					4	35, 24, 47, 80		3-5
"TS"	Vol.	R102	6	MR18	M26	EX300		A404	4	TCS71					4	35, 24, 47, 80		3-5
10, 11, 12, 13, 14, 15, 16	Vol.	R155	17	MR48				A447	1	2N514					5	‡6D6, 6Q7, 25B5, 25Z5	448	8-1
								A417	15	TC22								
21, 22, 24	Vol.	R161	6	‡		See Note A3		A449	4	TC47/TC42					4	6D6, 6C6, 43, 25Z5		8-1
25	Vol.	R118	88	UC513		EX100		A437	1/15	3S579					4	6D6, 6C6, 41, 80		6-3
26	Vol.	R128	88	UC513		EX200		A438	1/15	3S579					4	‡6J7G, 6F6G, 5Z4		6-1,2
35	Vol.	R164	18	MR48				A453	1/15	3S579					5	‡6D6, 75, 41, 80	448	8-2
	Tone	R165	22	MR33														
36	Vol.	R162	18	MR48				A451	4	3S584	B8				6	‡6D6, 76, 75, 41, 80	448	8-3
	Tone	R163	34	MR33														
40 (Jewel)	Vol.	R111	88	UC513	6	EX200		A421	1/15	‡TC40					3	‡6C6, 12A7		6-4,7-1
50	Vol.	R109	6	MR45	‡	EX250		A419	4	TCS71					4	‡57, 47, 80		6-4
52	Vol.	R121	88	UC513	6	EX200		A438	1/15	3S579					5	6A8G, 6K7G, 6J7G, 6F6G, 5Z4	448	6-5,6
53 (Early, Late)	Vol.	R119	6	MR45		EX250	A27	A439	1	2N518					5	6A8G, 6K7G, 75 or 6J7G, 5Z4, 6F6G	448	6-7,8
	Vol.	R115	17	MR48			A4	A417	15	TC32								
	Tone	R122	34	MR33	M26													
55	Vol.	R109	6	MR45		EX250		A419	4	TCS71					4	‡57, 47, 80		6-10
"AW" 55	Vol.	R132	7	H	6	2		8-4	4	TCS71					6	‡24, 56, 58, 47, 80	445	3-4
56	Vol.	R118	88	UC513		EX100		A437	1/15	3S579					4	6D6, 6C6, 41, 80		6-3
56X	Vol.	R170	18	MR48				A456	1	2N513					5	6A7, 6D6, 75, 25B5, 25Z5, 165R4	448	8-4
60	Vol.	R105	56	MR44				A412	27	TC47/TC42					5	6A7, 6D6, 6B7, 43, 25Z5	262	6-10
	Tone	R104	22	MR33														
61	Vol.	R115	56	MR48				A440	6	2N509					5	6A8G, 6K7G, 6B7, 43, 25Z5	448	6-11,12
	Tone	R122	22	MR33	M26			A417	15	TC32								
65	Vol.	R105	56	MR44				A412	27	TC47/TC42					5	6A7, 6D6, 6B7, 43, 25Z5	262	6-13
	Tone	R104	22	MR33														
66	Vol.	R139	6	MR45	M26	EX150		A422	4	TCS47					5	‡6D6, 76, 43, 25Z5	448	

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
INTERNATIONAL RADIO CORP.—Continued																		
66X	Vol.	R159	6	MR39	M26	EX250		A443	4	TCS47					5	‡6D6, 6C6, 43, 25Z5, 165R4 Ballast Tube	448	7-1,2
70	Vol.	R113	40	MR33				A416	19	TC26					5	1A6, 32, ‡30, 33	262	6-13
	Tone	R112	22	MR33														
71	Vol.	R117	56	MR48				A416	19	TC26					5	1A6, 34, 25S, 30, 33	456	6-14
	Tone	R116	22	MR33														
71C	Vol.	R117	56	MR48				A431	12	TC40					5	1C6, 34, 25S, 30, 33	456	6-14
72	Vol.	R123	17	MR48				A442	12	TC52					5	1C6, 34, 25S, 30, 19	448	6-15,16
76, 76X	Vol.	R154	6	SRP263	6	EX300		A450	4	TCS47					5	‡6D6, 6C6, 43, 25Z5, 165R4 Ballast Tube		8-4
77 (777, 778, 779)	Vol.	R151	6	MR45	M26	EX250		A444	4	TC47/TC42					6	6A7, 6D6, 76, ‡43, 25Z5	448	7-3,4
85	Vol.	R105	56	MR44	M26			A412	27	TC47/TC42					5	6A7, 6D6, 6B7, 43, 25Z5	456	6-17,18
86	Vol.	R159	6	MR39	M26	EX250		A443	4	TCS47					5	‡6D6, 6C6, 43, 25Z5, 165R4 Ballast Tube	448	7-2
86X	Vol.	R170	18	MR48				A456	1	2N513					5	6A7, 6D6, 75, 25B5, 25Z5, 165R4	448	8-4
87 Series	Vol.	R157	17	MR48	M26			A444	4	TC47/TC42					6	6A7, 6D6, 75, ‡43, 25Z5, 878R48 Ballast Tube	448	7-5,6
90	Vol.	R145	17	MR44				A425	1/15	‡TC40					4	6D6, 6C6, 75, 12A7	262/456	6-19,20
96	Vol.	R160	6	MR39	M26	EX250		A443	4	TCS47					5	‡6D6, 6C6, 43, 25Z5, 165R4 Ballast Tube	448	7-2
105, EL105	Vol.	R115	56	MR48				A435	1	ST595					6	6A7, 6D6, 85, 76, 42, 80	456	6-21,22
	Tone	R114	22	MR33	M26			A436	1	ST595								
								A417	15	TC22								
120	Vol.	R115	15	MR48				A439	1	2N518					7	‡6K7G, 6A8G, 6H6G, 6C5G, 6F6G, 5Y3	448	6-23,24
	Tone	R122	22	MR33	M26			A417	15	TC22								
150, 151	Vol.	R183	18	MR48	M26			A462	4	TCS47					4	6A8, 6K7, 6Q7, 25A7	448	8-5
								A417	15	TC22								
210 (Converter)								A480	1	2N516					2	6J8G, 25Z5		9-8
226	Vol.	R128	88	UC513		EX200		A438	1/15	3S579					4	‡6J7, 6F6, 5Z4		6-1,2
400	Vol.	R152	17	MR48	M27										4	1C6, 34, 25S, 950	448	7-7,8
500	Vol.	R156	17	MR48	M27			A442	12	TC52					5	1C6, ‡34, 25S, 33	448	7-9,10
553 (Early, Late)	Vol.	R119	6	MR45		EX250	A27	A439	1	2N518					5	6A8G, 6K7G, 6J7 or 75, 6F6G, 5Z4 or 5Y3	448	6-7,9
	Vol.	R115	17	MR48			A4	A417	15	TC32								
	Tone	R122	22	MR33	M26													
617	Vol.	R159	6	MR39		EX250		A443	4	TCS47					5	‡6D6, 6C6, 43, 25Z5, 165R4	448	9-2
630AC	Vol.		18	MR48				A459	9	3S582					5	6A7, 6D6, 6R7, 43, 25Z5, 165R4	448	9-3
								A460	9/13/15	3S582								
634, 635	Vol.	R162	18	MR48				A451	4	3S584	B8				6	‡6D6, 75, 41, 76, 80	448	9-3
	Tone	R163	34	MR33														
661	Vol.	R115	56	MR48				A440	6	2N509					5	6A8G, 6K7G, 6B7, 43, 25Z5	448	6-11,12
	Tone	R122	22	MR33	M26			A417	15	TC32								
666	Vol.	R139	6	MR45	M26	EX250		A422	4	TCS47					5	‡6D6, 76, 43, 25Z5	448	
676	Vol.	R154	6	SRP263	6	EX300		A450	4	TCS47					5	‡6D6, 6C6, 43, 25Z5, 165R4 Ballast Tube		
735	Vol.	R182	75	MR48				A459	9	3S582					6	6A7, 6D6, 6H6, 6C5, 43, 25Z5, 140R4	448	9-3
								A460	9/13/15	3S582								
739	Vol.	R176	18	MR48				A457	9	2S556/TC52					6	6A7, 6D6, 6Q7, 25B5, 76, 25Z5, 140R8	448	9-5
	Tone	R179	44	MR33				A458	9/13	3S582								
777, 778, 779	Vol.	R151	6	MR45	M26	EX250		A444	4	TC47/TC42					6	6A7, 6D6, 76, ‡43, 25Z5	448	7-3
845	Vol.	R251	75	MR48				A457	9	2S556/TC52					7	6A7, 6D6, 6H6, 76, 6K5, 25B5, 25Z5, 120R8	448	10-1
	Tone	R179	34	MR33				A458	9/13	3S582								
950	Vol.	R176	75	MR48				A457	9	2S556/TC52					8	6A7, 6D6, 76, 6G5, 6H6, 6K5, 25B5, 25Z5, 100R8	448	9-5
	Tone	R179	44	MR33				A458	9/13	2S582								
1019	Vol.	R185	62	MR44	M26			8-8-8-12	29	3S582/TC52					7	6A7, 6D6, ‡76, ‡41, 25Z5	448	8-6
1030, 1035	Vol.	R185	62	MR44	M26			A468	29	3S582/TC52					7	6A7, 6D6, ‡76, ‡41, 25Z5, 320R4, 200R, 250R	448	9-9
1050	Vol.	R115	56	MR48				A435	1	ST595					6	6A7, 6D6, 85, 76, 42, 80	456	6-22
	Tone	R114	22	MR33	M26			A436	1	ST595								
								A417	15	TC22								
1129	Vol.	R191	62	MR48				A469	9	3S582/TC52					8	6A7, 6D6, ‡76, ‡41, 25Z5, 300R4, 200R, 250R	448	9-7
	Tone	R192	34	MR33														
1140	Vol.	R191	62	MR48				A469	9	3S582/TC52					8	6A7, 6D6, ‡76, ‡41, 25Z5, 300R4, 200R, 250R	448	9-9
	Tone	R189	149	MR33														
1149	Vol.	R191	62	MR48				A469	9	3S582/TC52					7	6A7, 6D6, ‡76, 25Z5, 300R4, 200R, 250R, ‡41	448	9-7
	Tone	R192	34	MR33														
1159	Vol.	R188	62	MR48				A469	9	3S582/TC52					8	6A7, 6D6, ‡76, ‡41, 25Z5, 300R4, 200R, 250R	448	9-7
	Tone	R189	34	MR33														

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
INTERNATIONAL RADIO CORP.—Continued																		
1200, 2200	Vol.	R115	62	MR48				A439	1	2N518					7	[26]K7G, 6A8G, 6H6G, 6C5G, 6F6G, 5Z4	448	6-23,24
	Tone	R122	34	MR33	M26			A417	15	TC22								
3734	Vol.	R162	18	MR48				A451	4	3S584	B8				6	[26]D6, 75, 41, 76, 80	448	9-3
	Tone	R163	34	MR33														
INTEROCEAN RADIO CORP.—Also see Zenith																		
202	Vol.	P1008	17	MR48	M26			P1003	4	RM262					5	2A7, 58, 2A6, 2A5, 80	456	10-1
204	Vol.	V600	7	MR36	M26			C538	11	UR182					4	6A7, 6E7, 43, 25Z5		10-2
500, 515, 516	Vol.	63-235	15	MR48	M26			22-173	23	TC71					8	[58, 56, [57, 59, 80	175	7-1,2
	Tone	63-232	34	MR48				22-172	23	TC70								
505	Vol.	256	18	MR48	M26			106	11	UR193					5	6A7, 6D6, 75, 43, 25Z5	456	10-2
508	Vol.	E608	18	MR48	M26			E607	1/13	3S584					6	[58, 2A7, 2A6, 2A5, 80	456	10-3
	Tone	E635	22	MR33				E636	15	TC22								
511	Vol.	E608	18	MR48	M26			E607	1/13	3S584					8	[58, 2A7, 2A6, [2A5, 80, 56	456	10-3
	Tone	E635	34	MR33														
520, 521, Chassis 2035	Vol.	63-231	20	MRT430	M26			22-167	28	RS213					10	[56, 57, [58, [59, 80	175	5-1,2
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-234	7	MR34														
522 (Ch. 508)	Vol.	E608	18	MR48	M26			E607	1/13	3S584					6	[58, 2A7, 2A6, 2A5, 80	456	10-3
	Tone	E635	22	MR33				E636	15	TC22								
524 (Ch. 511)	Vol.	E608	18	MR48	M26			E607	1/13	3S584					8	[58, 2A7, 2A6, [2A5, 56, 80	456	10-3
	Tone	E635	34	MR33														
525, 525A (Ch. 508)	Vol.	E608	18	MR48	M26			E607	1/13	3S584					6	[58, 2A7, 2A6, 2A5, 80	456	10-3
	Tone	E635	22	MR33				E636	15	TC22								
527, 527A (Ch. 511)	Vol.	E608	18	MR48	M26			E607	1/13	3S584					8	[58, 2A7, 2A6, [2A5, 56, 80	456	10-3
	Tone	E635	34	MR33														
530, 531, 533, Chassis 2038	Vol.	63-231	20	MRT430	M26			22-167	28	RS213					12	[56, [57, [58, [59, 80	175	5-3,4
	Tone	63-232	41	MR48				22-169	15	TC32								
JACKSON BELL CO. LTD.																		
S	Vol.		3	C	6			4-2	1	See Note	B1				8	[26, [27, [71, 80		
	Reg.		‡	A														
4	Vol.		6	MR18	M26			4, 4	23	ST595					4	[57, 47, 80		7-1
	Tone		22	MR41														
5A	Vol.		10	C				2-2	1	See Note	B1				5	[26, 27, 71A, 80		5-1
8	Vol.		3	C	6			4-2	1	See Note	B1				8	[26, [27, [71, 80		
	Reg.		‡	A														
8 (45 Output)	Vol.		6	C	6			4-1-2	3	See Note	B1				8	[26, [27, [45, 80		
	Reg.		‡	A														
24	Vol.		6	MR18	M26			4, 4	23	ST595					4	[57, 47, 80	175	3-1
	Tone		22	MR41														
25	Vol.		6	G7	6	1		4, 4	4	ST595					5	35, [24, 47, 80	175	3-2
25A, 25U	Vol.		6	MR18	M26			4, 4	4	ST595					5	24, [58, 47, 80	175	3-3
26	Vol.		6	G7	6	2		8, 8	4	ST595					5	[24, 47, 80		3-4
26S, B, L	Vol.		6	G7	6	3		8-4	23	2S567					6	56, [57, 58, 47, 80	175	3-6
27 Type 1	Vol.		6	MR18				8, 8	4	ST595					7	[51, 24, 27, [47, 80	175	3-5
27 Type 2	Vol.		6	MR18	M26			8, 8	23	ST595					7	24, 27, [35, [47, 80	175	3-6
	Tone		22	MR18														
28	Vol.		6	MR18				8, 8	4	ST595					8	[35, 27, [24, 47, 80	175	3-7,8
	Tone		22	MR18														
29	Vol.		‡	MR18	M26			8, 8	23	ST595					9	[24, [27, [35, [47, 80	175	3-9,10
	Tone		22	MR18														
33								4-4	1	2N518					3	24, 27, 80	840	2-1
50	Vol.		6	D12	6			8-8	4	2S567					5	[24, 45, 80		7-2
	Tone		22	MR18														
59	Vol.		6	C12				2-4	1	See Note	B1				7	[26, 27, [71, 80		7-3
60	Vol.		6	C				8, 8	1	ST595					7	24, [26, [71A, 80		7-3,5
62, 63, 64	Vol.		6	D7				8	41	RS213					6	[24, 45, 80		3-3
	Tone		22	MR18				2-4	41	See Note	B3							
62 Series 2 and 3	Vol.		6	D7	6	3		8, 8	4	RS213					6	[24, 45, 80		7-4,5
	Tone		22	MR18														
68	Vol.		6	D7	6			8, 8	25	RS213					8	[24, 27, [45, 80		7-5,6
	Tone		85	MR18														
69 DC	Vol.		12	MR21				8-8	1	See Note	B3				7	[32, [30, [31		
	Tone		22	MR18														
79	Vol.		‡	D	6			8, 8	4	RS213					8	[35, 24, [27, [45, 80	175	
	Tone		41	MR48				10	15	TC22								
84 "Peter Pan"	Vol.		6	MR18		EX300		4, 4	23	ST595					4	[24, 47, 80		6-1
86	Vol.		6	MR18	M26	EX200		4, 4	23	ST595					6	24, [27, 35, 47, 80	175	5-2
87	Vol.		6	D7	6	1		4	23	RS213					7	[27, [35, 47, 80, 24	175	6-2
	Tone		22	MR48				8	23	RS213								
88	Vol.		6	G7	6	1		8, 8	23	ST595					8	24, [27, [35, 47, 80	175	6-3
	Tone		22	MR18														
89	Vol.		‡	D7	6	2		4, 4, 4	3	ST595					8	[27, 24, [35, [47, 80	175	4-1
	Tone		41	MR18				10	15	TC22								
89A	Vol.		6	G7	6	1		4-4	1	2N518					9	24, [27, [35, [47, 80	175	6-4
	Tone		39	MR48														
96	Vol.		6	MR21		EX300		4, 4	1	ST595					6	[24, 27, [47, 80		5-2
								4	13	TC70								

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
JACKSON BELL—Continued																		
99	Vol.		6	D7	6	1		8-4	1	See Note	B3				9	[2]4,[3]27,[3]35,[3]47, 80	175	5-1
	Tone		39	MR48				4	13	TC70								
205 Auto	Vol.		118	MR44	M26			5	19	TC32					5	55, 57,[3]58, 47	465	3-1
645M	Vol.		6	C	6			4-2	1	See Note	B1				6	[2]27, 45, 80		
	Tone		21	MR44														
845S	Vol.		6	C	6			4-1	1	See Note	B1				8	[2]27,[3]45, 80		7-1
	Tone		39	MR48														
JACKSON RADIO & TELEVISION CO.																		
447, J104, 401A	Vol.		6	MR18	M26	EX250		4, 4	1	ST595					4	[3]24, 47, 80		§5-8
SF547, 504B, J105, LK447	Vol.		69	G7				4, 4	1	ST595					5	[3]57, 47, 80 or 82		§4-4
JACKSON RESEARCH																		
NJ8	Vol.		12	MR33				2-2	1	See Note	B1				8	[2]24, 27, 45, 80	175	§6-15
JEFFERSON																		
6L6SPAMP	Vol.		82	MRT460				16, 16	12	TC74					8	6J7, 6N7, [3]6F6, [3]6L6, [3]83		
								8, 8	2	TC71								
								2	13	TC70								
								10	15	TC32								
KADETTE—Also see International																		
L25	Vol.		18	MR44	M26			20-12	1	2N509					5	12SA7,12SK7,12SQ7, 35L6, 35Z5	‡	§11-4
L40	Vol.		18	MR44	M26			20-12	1	2N509					5	12SA7,12SK7,12SQ7, 35L6, 35Z5	‡	§11-4
L41	Vol.		18	MR48				20-12	1	2N509					5	12SA7,12SK7,12SQ7, 35L6, 35Z5	‡	§11-4
KARADIO CORP.																		
56	Vol.		17	UM147		See Note	A96								6	77, 78, 6F7, 75, [3]41	456	§5-9
57B	Vol.		18	UM147		See Note	A96	8-4	1	See Note	B3		296	C3	7	6F7,[3]41, 75, 77, 78, 84	456	
	Tone		44	UM147		See Note	A96	.01		Buffer	B14							
COLIN B. KENNEDY CORP.																		
5T AC-DC	Vol.		6	MR34	M26		A34	D324	11	UR182	B118				4	6E7, 6D7, 43, 25Z5		
F	Vol.	3120	15	MR48				3288	1	TCS71					12	[2]78, 6A7, 85, [2]76, [3]42, [3]80	465	6-4
	Tone		22	MR24				3004	1	RM262								
	Sen.	3121	7	MR20				1948	18	RS213								
								10	15	TC22								
Royal	Vol.		11	A10MP			A18	8-8-8	3	RM265					8	‡		1-5
10	Vol.	406	11	A10MP			A18	302	3	RM265					8	[2]27,[3]45, 80		1-4
20	Vol.	406	11	A10MP			A18	317	3	RM265					8	[3]24,[2]27,[3]45, 80		1-3,4
22	Vol.	123406	25	GG				6-6	24	See Note	B11				7	[3]22,[3]12A,[3]71A		2-1,2
26	Vol.	117406	25	GK				8-8-8	3	RM265					8	[3]24,[2]27,[3]45, 80		1-6
	Tone		22	MR33														
30, 32	Vol.		12	A10MP				8-8-8	3	RM265					8	[3]24,[2]27,[3]45, 80		1-7
	Tone		22	MR33														
34	Vol.		12	MR18											3	[3]24		1-8,9
36, 38, 40	Vol.	117406	25	GK				6-6	24	See Note	B11				7	[3]22,[3]12A,[3]71A		2-1,2
	Tone		22	MR33														
42 "Coronet"	Vol.	11F406	40	MR18	M26			6-16	1	See Note	B3				6	[2]24, 27, 45, 80		11-1
42B	Vol.		6	G7	6	1		8-8	1	See Note	B3				6	[3]51,[2]27, 47, 80		4-1
44	Vol.		40	MR18				8-16	1	See Note	B3				6	[2]24, 27, 45, 80		2-4
48	Vol.		12	MR18				8-8-8	3	See Note	B3				8	[3]24,[2]27,[3]45, 80		2-5
	Tone		22	MR33	M26													
50	Vol.	16406	6	G7		1		15302	1	RS213					5	[3]35, 24, 47, 80		2-6
								16302	1	RS213								
52	Vol.	16406	6	G7		1		16302	1	RS213					5	[3]35, 27, 47, 80	175	2-7
	Tone	15369	22	MR33	M26			17302	1	RS215								
55	Vol.		6	G7	6	1		1-10-302	1	TCS71					4	58, 57, 47, 80		4-2
56	Vol.	26406	6	G7	6	1		16302	1	RS213					8	[3]51, 24,[2]27,[3]47, 80	175	2-12
	Tone	25369	22	MR33				17302	1	RS215								
"Royal" 60	Vol.		35	MR48				1.5-4-4	3	See Note	B1				7	[2]26, 27, 71A, 80		1-5
62	Vol.	17406	‡	MR48	M26			16302	3	RS213					10	[2]35,[3]27,[3]47, 80	175	2-13,14
	Tone	16369	22	MR33				27302	3	RS213								
								48302	3	TC71								
62A	Vol.		14	MR48				16302	3	RS213					10	[2]27,[3]35,[3]47, 80	175	3-1,2
	Tone		22	MR33	M26			27302	3	RS213								
								48302	3	TC71								
62D (882)	Vol.		127	MR48	M26			8	3	RS213	B3				10	55, 57,[3]56,[3]58,[3]47, 80	175	3-3,4
	Tone		44	MR33				8	3	TC71	B3							
	Sil.		8	G														
63, 63A (563A)	Vol.		17	MR48	M26			110302	1	TCS71					5	55, 57, 58, 47, 80	175	3-5,6
64	Vol.		6	G7	6			10, 10	1	RS215					10	[3]24,[3]35,[2]27, 47,[3]80	175	2-15
	Tone		22	MR33														
64B (164B)	Vol.		6	G7	6	1		10, 10	1	RS215					10	[3]56,[3]57,[3]58, 47,[3]80	175	3-7,8
	Tone		22	MR33														
64C (882)	Vol.		127	MR48	M26			8, 8	3	ST595					10	55,[3]56,[3]57,[3]58,[3]47, 80	175	3-9,10
	Tone		44	MR33				8	3	TC71								
	Sil.		8	G														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
COLIN B. KENNEDY—Continued																		
66, 66A	Vol.		16	MR48	M26			16302	3	RS213					12	[3]24, [4]27, [3]35, [4]47, [3]80	175	3-11,12
	Tone		22	MR33				27302	3	RS213								
								48302	3	TC71								
66B (266B, 366B)	Vol.		16	MR48				16302	3	RS213					12	[4]56, [3]57, [3]58, [3]80, [4]47	175	3-13,14
	Tone		22	MR33	M26			27302	3	RS213								
								48302	3	TC71								
80	Vol.		35	MR48				1-1.5-4	3	See Note	B1				9	[3]26, 27, [3]71, 80		1-12
164B (Chassis 64B)	Vol.		6	G7	6	1		10, 10	1	RS215					10	[3]58, [3]57, [3]56, 47, [3]80	175	3-7
	Tone		22	MR33														
266B (Chassis 66B)	Vol.		16	MR48				8, 8	3	RS213					12	[3]58, [3]57, [4]56, [3]47, [3]80	175	3-13
	Tone		22	MR33	M26			8	3	TC71								
366B (Chassis 66B)	Vol.		16	MR48				8, 8	3	RS213					12	[3]58, [3]57, [4]56, [3]47, [3]80	175	3-13
	Tone		22	MR33	M26			8	3	TC71								
826B	Vol.		25	GK				8-8-8	3	RM265					11	[4]24, [3]27, [3]45, 80		1-12
	Tone		22	MR33														
	Reg.		12	MR18														
KING MFG. CORP.—See Sears Roebuck																		
KINGSTON PRODUCTS CORP.																		
"Gypsy"	Vol.		6	G7	6	3		8-8	1	2N516					5	[3]77, 78, 38, 1V	456	5-1
								5-5	15	TN111								
55	Vol.		6	MR18	M26			12-8-12-12	6/15	3N527/TC26					5	[3]78, 77, 38, 12Z3	456	5-1
								10	15	TC22								
500, 500A	Vol.	E17065	18	MR48	M26			6-6	1	2N518					5	6A7, 6D6, 75, 42, 80	456	5-2
								E-17080	15	TC22								
600A, 600B, 610B	Vol.	E17020	18	MR48				6-6	1	2N518					6	[3]78, 6A7, 75, 42, 80	Early 182.5	5-3
	Tone		21	MR48	M26			10	15	TC22							Late 172.5	
700, 700A, 700B	Vol.	E17020	18	MR48				E17125	1/15	TCS71					7	76, [3]6D6, 75, 42, 80	456	5-4
	Tone		34	MR39	M26			E17217	1	RS213								
								12	15	TC22								
KNIGHT—See "Allied"																		
KOLSTER RADIO, Inc.																		
6F, 6J, 6K, 6L, 6M, 6R	Vol.		29	‡		See Note	A48	2-2-2	30	See Note	B1				7	[4]26, 27, 71, 80		1-2
7 Tube (60~ & 25~)	Vol.		5	‡		See Note	A5	2-2-2	30	See Note	B1				8	[3]26, 27, 71A, 80		
K20	Vol.		10	MR21				2-2-2	30	See Note	B1				7	[4]26, 27, 71, 80		1-3
K21, K22, K23	Vol.		10	MR21				2-2-1	30	See Note	B1				8	[4]26, 27, 71A, 80		1-3,4
K24 (210 O.P., 250 O.P.)	Vol.		4	MR21				3-4-2	30	See Note	B2				9	[4]26, 27, 10 or 50, [3]81		1-5
K25, K27, K28	Vol.		40	MR24				2-2-1	30	See Note	B1				7	[4]26, 27, 71A, 80		1-3,4-1
K30, K32	Vol.		10	MR24											6	[3]01A, 71A		1-6
K38	Vol.		14	MR33				3-2-2	30	See Note	B2				9	[4]27, 50, [3]81, 886		4-2
K42	Vol.		40	MR24	M26			2-2-2	30	See Note	B1				8	[4]26, 27, [3]71, 80		1-7
K43, K43A	Vol.		25	Order from Mfr.				2-1-.5	30	See Note	B1				8	[3]24, [3]27, [3]45, 80		1-8
K44	Vol.		25	Order from Mfr.				2-2	1	See Note	B2				9	[3]24, [3]27, [3]45, [3]81		1-9
K45	Vol.		‡	‡		See Note	A3	2-2	1	See Note	B2				11	[3]24A, [4]27, [3]50, [3]81		1-10
K48	Vol.		40	MR24				2-2-1	41	See Note	B3				7	[3]24, [3]27, 45, 80		§6-17
	Equal		7	A1MP		See Note	A3											
K60, K62	Vol.		8	A5MP				8-8-8	26	See Note	B3				7	[3]24, [3]35, 47, 80, 27	175	1-11,2-4
K63	Vol.		40/42	Order from Mfr.				4	12	See Note	B11				7	[4]36, 37, [3]38	175	3-1
K70, K72	Vol.		59	MR21				8-8-8	26	See Note	B3				8	[3]24, 27, [3]35, 47, 80	175	1-12,2-5
K73	Vol.		40/42	Order from Mfr.				4	12	See Note	B11				7	[4]36, 37, [3]38	175	3-1
K80, K82	Vol.		59	MR21				8-8-8	26	See Note	B3				9	[3]24, [3]27, [3]35, [3]47, 80	175	1-13
K83	Vol.		40/42	Order from Mfr.				‡	12	See Note	B11				9	[3]36, [3]37, [3]38	175	3-2
K90, K92	Vol.		59	MR21				8-8-8	26	See Note	B3				10	[3]24, [3]27, [3]35, [3]47, 80	175	1-14
K93, K103	Vol.		40/42	Order from Mfr.				4	12	See Note	B11				9	[3]36, [3]37, [3]38	175	3-1,2
K110	Vol.		15	MR48				6-6-6	26	3S584					8	[3]56, [3]58, 47, 80	175	3-3,4
K113	Vol.		15	MR48				4	12	See Note	B11				8	[4]37, [3]38, [3]39	175	3-9
K114	Vol.		15	MR48				8	12	TC52					9	[4]30, [3]34	175	3-6
K120, K122	Vol.		15	MR48	M26			6-6-6	26	3S584					8	[3]56, [3]58, 47, 80	175	3-3,4
K123	Vol.		15	MR48				4	12	See Note	B11				8	[4]37, [3]38, [3]39	175	3-9
K130, K132	Vol.		15	MR48	M26			6-6-6	5	3S584					9	[3]56, [3]58, [4]47, 80	175	3-7,8
K133	Vol.		15	MR48				4	12	See Note	B11				10	[4]37, [4]38, [3]39	175	3-5
								4	15	TC22								
K140, K142	Vol.		15	MR48	M26			8-8-8	26	3S584					10	[3]56, [4]58, [3]47, 80	175	3-10,11
K143	Vol.		15	MR48				4	12	See Note	B11				10	[4]37, [4]38, [3]39	175	3-5
								4	15	TC22								
K165 "Intern't'l"	Vol.		15	MR33				6-6-6	40/23	3S584					8	[3]56, [3]58, 47, 80	535	
K175 "Intern't'l"	Vol.		15	MR48	M26			6-6-6	40/23	3S584					8	[3]56, [3]58, 47, 80	505	
S.W. "Converter"	Vol.		11	MR33											3	56, 57, 58		3-12
KYLECTRON—See United Reproducers																		
LAFAYETTE RADIO & TELEVISION CO.																		
Fireside No. 1	Vol.		7	F	6		A14	8, 8	34	ST595					7	[3]35, [3]24, 27, 47, 80	175	8-1
	Tone		22	MR33														

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
LAFAYETTE—Continued																		
Fireside No. 2 2Y2280	Vol.		8	G	6			8, 8	4	ST595					7	[3]58,[3]57, 56, 47, 80	175	8-1
Mighty Atom	Vol.		6	MR39	M26			2-2-1	‡	See Note	B1				5	[3]51, 24, 47, 80		9-2
Thriller	Vol.		6	MR18				4, 4	4	ST595					5	[3]57, 58, 47, 80	175	9-8
A7	Vol.	512	6	G	6	2		533	4	TCS71					7	[3]56, 57, 58, 47, 80	115	5-2
	Tone	534	21	MR44				721	4	TC71								
AM8	Vol.	1315	18	MR48	‡			1085/1295	8	UR182					8	6A7, 75, 76, [3]78, [3]43, 25Z5	175	5-1
	Tone	1317	21	MR44														
AM10	Vol.	1296	6	MR18	M26			1085/1295	8	UR182					7	76,[3]77, 78, 43, 25Z5	175	5-1
	Tone	1317	22	MR44				928	15	TC26								
A11	Vol.		6	MR18	M26			965	8	UR182					5	[3]77, 78, 43, 25Z5	175	§4-5
								928	15	TC26								
A12	Vol.	535	76	MR48	M26			496	4	TCS71					5	6A7, 78, 75, 42, 80	175	§4-5
	Tone	534	76	MR44				928	19	TC26								
A14	Vol.	535	18	MR48	M26			1085	8	UR182					5	[3]78, 6A7, 75, 43	175	§4-6
	Tone	534	21	MR44				928	15	TC26								
A15	Vol.	853	6	MR18	M26			1085	8	UR182					5	[3]77, 78, 43, 25Z5	175	5-2
								928	15	TC26								
A19	Vol.	512	6	MR18	M26	EX200		1085	8	UR182					6	[3]77, 78, 43, 25Z5	115	§4-6
	Tone	534	22	MR44				928	15	TC26								
A20	Vol.		18	MR48				8, 8, 8	4	RS213					7	56,[3]58, 2A6, 2A5, 80	175	6-7
	Tone		21	MR44														
A70	Vol.		17	MR48				4-4-4	4	3S584	B3				7	[3]78, 75, 76, 42, 80	456	12-6
	Tone		21	MR44														
A77	Vol.	19-1296	6	G7	6			18-1085	8	TN125					5	6A7, 78, 77, 43, 25Z5	175	10-10
A81, A81L	Vol.	19-1291	76	MR48	M26			18-1274	4	TCS71					5	6A7, 78, 75, 42, 80	456	10-10
	Tone	19-1317	76	MR44				18-928	19	TC26								
AM20	Vol.		18	UM154		See Note A96		6-6	2	See Note	B3		296	C3	6	75, 77,[3]78, 41, 84	175	6-8
								25	15	TC26								
								.015		Buffer	B14							
AM25	Vol.	1296	6	MR18	M26			1295	8	UR182					5	[3]77, 78, 43, 25Z5	115	5-3
								928	15	TC26								
AM26	Vol.	1291	17	MR48	M26			721	25	See Note	B3				5	6A7, 75, 78, 42, 80	175	5-3
								1379	25	See Note	B3							
								928	19	TC26								
AS-5	Vol.		6	MR18				14-8	6	2N509					4	6D6, 6C6, 43, 25Z5, L55-S1		9-3
								8-5	15	TN111								
AS-6	Vol.		17	MR48				10-20	6	2N509					5	6A7, 6D6, 75, 43, 25Z5, L55-S2	465	9-3
								10-10	15	TN111								
B13	Vol.	36X235	75	MR48	M26			44X31	23	RS215					8	6J7, 6C5, 6K7, 6H6, 6G5, 6F5, 6F6, 5Y3G	456	14-15,16
	Tone	40X223	34	MR42				45X35	23	RS223								
B15	Vol.	36X204	7/56	DRP314	6T			44X10	23	RS216					6	[3]6K7, 6B7, 6F6, 80	456	14-4-6
	Tone	40X203	34	MR42				44X11	23	RS216								
B30	Vol.		7/15	DRP315	6			30	25	RS223					12	[4]6K7,[3]76,[4]6F6,[3]80	456	10-3
	Tone		‡	MR57				18	25	RS216								
								125	19	Order from	Mfr.							
B32	Vol.		7/15	DRP315				30	25	RS223					12	[4]6K7,[3]76,[4]6F6,[3]80	456	10-3
	Tone		‡	MR57				16	25	RS216								
								125	19	Order from	Mfr.							
B33	Vol.	36X236	45	MRT428	M26			44X30	25	RS216					11	[4]6K7 or 6U7G, [4]6J7, [4]6C5, 6H6, 6G5, [4]6F6, 5Y3G	456	14-29-34
	Tone	40X224	34	MR53				44X11	25	RS216								
								45X223	13	TC52								
								45X222	19	TC26								
B35, B36	Vol.		7/15	DRP315	6T			14	4	RS216					10	[4]6K7,[3]76,[3]45, 80	456	10-5
	Tone		41	MR57				18	4	RS216								
								4	13	RS213								
B49, B50	Vol.	36X244	71	UM120-SS18	M26			45X237	1/15	3N527					4	[3]6J7, 25L6G, 25Z6G	456	14-43
								45X242	1/15	Order from	Mfr.							
B51, B52, B53, B54	Vol.	P96008	17	MR55	M26			P80984	2/13	3S584/2N509					12	55,[3]56,[3]58,[3]45, 82	175	5-4
	Tone	P97006	41	MR57					44									
B60	Vol.	P96009	15	MR53				P80968	12	TC52					9	[3]30,[3]34, 10AB	175	5-5,6
	Tone	P97005	44	MR42														
B61	Vol.	P96001	6	TRP602	14			P80968	12	TC70					5	32,[3]34, 30, 19	175	11-4
B62	Vol.	P96017	17	MR55	M26			P82002	2/15	3S584		P2229	286S	C3	5	6C6,[4]6D6, 75, 41	175	6-12
								.007		Buffer	B14							
B64	Vol.	P96014	56	MR48	M26			P81016	23	2S567					6	6F7, 6D6, 6B7, 12A5, [3]12Z3	175	11-5
	Tone	P97011	34	MR42				.015		Buffer	B14							
B65	Vol.	P96012	45	MR53				P81014	40	TCS55					7	[3]34,[3]30, 19	175	11-6
B68	Vol.		15	MR55				P82001	12/13	2N516					9	[3]34, [3]30, 19	456	14-45-47
	Tone		44	MR42														
BB75	Vol.	36X275	124	Order from	Mfr.			40-20-20	24/15	FP346		R19A33D	248	C3	6	[4]6SK7, 6SA7, 6B8G, 6K6G, 6N7G	456	12-7,8
	Tone	40X212F	22	MR55				.008		Buffer	B14							
B78	Vol.		7/15	Order from	Mfr.			30	3	RS223					16	[4]6K7, [3]76, 6F7, 6B7, [4]2A3, 45, [5]Z3	456	10-11,15
	Tone		34	MR53				60	13	RS224								
								4-4-16	13/‡	TCS71/TC55								
								12	13	TC62								
B87	Vol.	P36X219	62	MRT447	M26			44X10	25	RS216					11	[4]6K7, [4]6C5, 6G5, [4]6F6, 5Z4MG	456	14-57-59
	Tone	P40X213	65	Order from	Mfr.			44X11	25	RS216								
								44X213	13/15	TC42/TC22								
B90 (N) Late	Vol.		17	UM163-SS3	M26			8-5-4	4/15	3S579			294	C3	6	[4]6D6, 6C6, 75, 41, 84	175	10-18
	Tone		34	MR42				.0075		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
LAFAYETTE—Continued																		
B90 (R) Early	Vol.		17	UM163-SS3				8-5-4	4/15	3S579			294	C3	6	[2]6D6, 6C6, 75, 41, 84	175	10-17
	Tone		34	MR42				.0075		Buffer	B14							
B92 (K) Early	Vol.	36X217	56	Order from	Mfr.			12-8-12	1/15	TCD62/TC22			248	C3	6	[3]6K7, 6J7, 6B7, 41, 6A6	175	10-20
	Tone	40X212	22	MR53				.005		Buffer	B14							
B92 Late	Vol.	36X233	56	Order from	Mfr.			45X219	1/15	3S579		19A30	248	C3	6	[2]6K7, 6J7, 6B7, 41, 6A6	175	14-61,62
	Tone	40X212	22	MR53				.0055		Buffer	B14							
B97, B98	Vol.		20	‡			A19	30	2	RS223					13	[4]6K7, [3]6C5, 6H6, 6G5, [3]6L6, [3]5Z4MG	456	8-10,12
	Tone		65	MR55				12	2	RS215								
B100, B101, B102	Vol.	36X291	18	TM227-SS25	M26			45X289	24/15	FP346					9	[3]6SK7, 6SA7, [3]6SQ7, 6AD6G, [3]6V6GT, 5Y3G	456	14-63,64
	Tone	40X254	21	UM165-SS25														
B112	Vol.	36X303	140	TM233-SS25	M26			45X277	4	TC78/TC75					8	6SJ7, 6J5GT, [3]6SK7, 6U5, 6SQ7, 6V6GT, 5Y3G	456	14-67,68
	Tone	40X259	140	UM165-SS25														
B195	Vol.	36X320	18	MK401	M26			45X322	4	TC75/TC78					11	[3]6SK7, 6SJ7, 6J5GT, [3]6SQ7, 6U5, [3]6K6GT, 5Y3G	456	14-71,72
	Tone	40X270	22	Order from	Mfr.													
BB1-7	Vol.	36X272	17	TM248-SS25				44X39	23	RS219					8	[3]6SK7, 6SA7, 6SQ7, 6U5, 6V6G, 5Y3G	456	14-1,2,3
	Tone	40X241	34	UM165-SS25				44X40	23	RS224								
BB9	Vol.	36X248	15	MR55	M26			45X236	24/15	[2]TC65/TC22			952W	C3	5	6A8G, 6U7G, 6H6, 6F5G, 6K6G	456	14-11,12
								45X239	15	TC22								
								.018		Buffer	B14							
BB11	Vol.	36X298	18	TM227-SS3	M26			45X294	24/15	Order from	Mfr.	19A33	248	C3	6	[3]6SK7, 6SA7, 6SQ7, 6K6GT, 6N7	456	14-14,66
	Tone	40X257	22	MK403				.008		Buffer	B14							
BB22	Vol.	36X273	18	MK401	M26			45X265	1/15	3N527					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	14-22
								45X266	1/15	TC49/2N511	B12							
BB27	Vol.	36X268	18	MK401	M26			45X260	1/15	3N527					6	12SA7, 12SK7, 12SQ7, 35L6GT, 6AB5, 35Z5GT	456	14-27,28
	Tone	40X243	22	Order from	Mfr.			45X261	1/15	TC49/2N511	B12							
BB68	Vol.	36X261	15	Order from	Mfr.			45X252	24/15	TCD65		19A33	248	C3	6	[3]6SK7, 6SA7, 6H6, 6V6G	456	14-49,50
								45X253	24	TC78								
								.008		Buffer	B14							
BB69	Vol.	36X260	18	MK401	M26			45X251	24/15	FP330	B117	19A35	953W	C3	5	[2]6SK7, 6SA7, 6SQ7, 41	456	14-50,51
								.008		Buffer	B14							
BB73	Vol.	36X274	18	MK401	M27			45X268	76/13	FP357	B117				6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	14-53,54
								45X269	76/78	FP304	B70							
BB73A	Vol.	12525	18	Order from	Mfr.			12001	1	2N511					6	1P5GT, 1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6GT	455	14-55,56
								12179	78	TC29								
BB110	Vol.	36X296	18	UM154-SS3	M26			45X296	24/15	Order from	Mfr.	19A37	Order from	Mfr.	6	[2]6SK7, 6SA7, 6SQ7, 6K6GT, 6X5 or 6X5GT	456	14-65,66
								.0055		Buffer	B14							
BL1	Vol.	36X204	7/56	DRP314	6T			44X10	23	RS216					6	[3]6K7, 6B7, 6F6, 80	456	14-4-6
	Tone	40X203	34	MR42				44X11	23	RS216								
C10 (Late)	Vol.		15	MR48	M26			[1]80923	30	3S584					10	[3]58,[3]57,[3]56,[3]47, 80	175	11-1
	Tone		21	MR53				80873	30	TC71								
								80878C	13	TC40								
C17	Vol.		18	UM154	M27		A96	5-5	78	TN111					7	1C6, [3]34, 1B5, 30, 19	456	13-5,6
								8	12	TC42								
C20	Vol.		6	G7				8-8	1	2N518					5	6A7, 6D6, 6C6, 43, 12Z3	456	10-1
								4-4	15	TN111								
C22	Vol.		6	MR14				8-8	25	2S567					6	78, 6A7, 6B7, 77, 42, 80	175	13-9
	Tone		22	MR48														
C25	Vol.		18	MR48				8-8	23	2S567	B3				5	6A7, 6D6, 75, 42, 80	456	8-4
C37	Vol.		124	MRT440	M26			16, 16	25	RS216					11	6K8, 6AF6G, 6D6, 6Q7, [4]76, [3]6V6, 80	456	14-41
	Tone		22	MR53				8	13	TC71								
C38	Vol.		124	MRT440	M26			16, 16	25	RS216					11	6K8, 6D6, 6Q7, [4]76, 6U5, [3]6V6, 80	456	14-81,82
	Tone		22	MR53				8	13	TC71								
C40	Vol.		18	MR48				8-4	23	2S567					6	6C6, 6D6, 75, 42, 80, 76		8-8
C60	Vol.		17	UM154		See Note	A96	8-8	1	2N518			294	C3	6	6A7, [3]6D6, 75, 41, 84	175	6-11
								5	15	TC32								
								.0015		Buffer	B14							
C78, C78L	Vol.		18	MR48				20-12-8	8	TN125					6	6A7, 6D6, 75, 43, 76, 25Z5	456	9-8
	Tone		22	MR39				5	15	TC22								
C79, C80	Vol.		75	MR48				20-12	6	2N509					6	6A7, 6K7, 6H6, 6F5, 43, 25Z5	456	7-5,6
	Tone		22	MR39														
C216	Vol.		18	MR53	M26			80-40-25-16	24	See Note	B3				11	[3]6SK7, 6A8, [3]12SQ7, 6U5, [3]25L6, [3]25Z6	455	14-73,74
	Tone		22	MR53														
CC48	Vol.		140			See Note	A19	40-25-80	6/12	See Note	B3				12	[3]6SK7, 6K8, [3]6SQ7, 6U5, [4]25L6, [3]25Z5	455	14-39,40
	Tone		140			See Note	A5	16	13	TC45								
								10	15	TC22								
D3	Vol.	24-126	18	MR53	M27			18-233	24	2N518		34-103	246A	C3	6	6D8G, 1D5PG, 6T7G, [2]1H4G, 1J6G	455	14-7,8
	Tone	26-118	22	MR48				.002		Buffer	B14							
D4	Vol.	24-123	18	MR53	M26			18-226	1	TCD72					7	6A7, 6D6, 6G5, 75, 76, 6AC5G, 80	455	14-13
	Tone	26-118	22	MR48														
D5	Vol.	24-123	146	MR53	M26			18-237	1	2N511					6	6K8G, 6D6, 75, [3]25L6G, 25Z5	455	14-7,8
	Tone	26-118	22	MR48				18-238	15	TC22								
D6	Vol.	24-119	18	MR48	M26			4-4	23	TCS61		34-101	859	C3	5	6A7, 6D6, 6Q7G, 41, 84	456	14-9,10
								.0038		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
LAFAYETTE—Continued																		
D8	Vol.		18	MR48	M26			8, 8	1	ST595					6	‡6D6, 75, 6B5, 76, 80	456	13-1
	Tone		22	MR33														
D9	Vol.	24-144	18	MR48	M26			18-236	1	2N514					6	6SA7GT, 6P5GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	12-2
D10	Vol.		6	MR48		EX300		12	4	RS215					4	6A7, 6C6, 42, 80	456	8-3
								16	4	RS216								
D11	Vol.		18	MR48				8-8	23	2S567	B3				5	6A7, 6D6, 75, 42, 80	456	8-3
D14	Vol.	2442	18	MR48	M26			1845	1	2N516		3407	246	C3	4	6A7, 34, 1B5, 41	456	13-4,5
								.0075		Buffer	B14							
D15	Vol.	2442	124	MR48	M26			1845	1	2N516		3407	246	C3	6	1C6, ‡34, ‡30, 19	456	14-18,19
								.01		Buffer	B14							
D16	Vol.		45	MR48	M27			1845	1	2N516			246	C3	7	1C6, ‡34, 1A4, ‡30, 19	456	14-17,18
	Tone		22	MR33				.0075		Buffer	B14							
D17	Vol.		45	MR48	M27			1845	1	2N516			246	C3	7	1C6, ‡34, 1A4, ‡30, 19	456	14-17,18
	Tone		22	MR33				.0075		Buffer	B14							
D18	Vol.	24-103	18	UM157-SS17				18-221	23	TCS61		34-101	859	C3	7	6K7, 6A8, 6K7G, 6R7, 6R7G, 6V6G, 6X5G	262	14-20
	Tone	26-114	22	Order from	Mfr.			.005		Buffer	B14							
D19	Vol.	24-101	18	MR48				18-102	1/15	2N516/TC22					6	6A7, 6G5, 6D6, 75, 41, 80	456	14-21
	Tone	26-101	21	MR48	M26													
D20	Vol.		17	MR48				8, 8	4	RS213					6	‡6D6, 75, 42, 76, 80	456	13-7
	Tone		22	MR39				10	15	TC22								
D20A	Vol.		124	MR48				16-8	23	3S584	B8				6	6A7, 76, 6D6, 75, 41, 80	465	12-3
D20P	Vol.		18	MR48				8-4	23	2S567					5	6A7, 6K7 or 6D6, 75, 6F6 or 42, 80	465	13-8
	Tone		22			See Note A5												
D22	Vol.	24-106	18	MR53	M26			1845	1	2N516		3407	246	C3	5	6D8G, 6N5, 6S7G, 6T7G, 1F5G	456	14-23,24
								.008		Buffer	B14							
D23	Vol.	24-106	15	MR53	M26			18-211	1	2N513					5	6A7, 6D6, 6Q7G, 25B5, 25Z5	456	14-23,24
D26	Vol.	24-144	45	MR48	M26			18-254	1	TCD65					6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	14-25
								18-243	19	TC26								
D26 (Late)	Vol.		18	MR53	M26			10, 10	15	TC22					6	6A8, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	14-26
D27	Vol.		18	MR48	M27										4	1C6, 34, 1B5, 33, 5E1	456	13-10
D28	Vol.		18	MR48	M27										6	1C6, ‡34, 1B5, 30, 19, 6E1	456	13-11
	Tone		22	MR33														
D29	Vol.		18	MR48	M27										4	1C6, 34, 1B5, 33, 5E1	456	13-10
D30, D31	Vol.		17	MR48				8, 8	4	RS213	B3				7	‡6D6, 76, 75, 42, 80, 6G5	456	8-6
	Tone		22	MR39				10	15	TC22								
D31A	Vol.		124	MR48				16-8	23	3S584	B8				7	6A7, 76, 6D6, 75, 41, 80, 6G5	465	12-3
D33	Vol.	24-144	18	MR48	M26			18-255	1	TCD47					7	6SA7GT, 6P5GT, 6SK7GT, 6U5, 6SQ7GT, 25L6GT, 25Z6GT	455	14-60
D33G	Vol.		18	MR53	M26			5.365A	46/15	FP357/TC22					7	12A8GT, 12SK7, 6N5, 12J5GT, 12SQ7, 35L6GT, 35Z5GT	455	14-35
D34	Vol.	24-101	18	MR48				18-200	23	TCS71					7	76, 6A7, 6G5, 6D6, 75, 41, 80	456	14-36
	Tone	26-101	21	MR48	M26													
D37	Vol.	24-103	18	UM157-SS17				18-204	24/15	3S584		30-100	294	C3	7	6K7, 6A8, 6K7G, 6Q7G, 6J5G, 6N7G, 0Z4	262	14-37
	Tone		22	Order from	Mfr.			.008		Buffer	B14							
D41	Vol.	24-105	18	MR48				1845	1	2N516		3407	246	C3	6	30, 1A6, 1A4, 6T7G, 6L5G, 19	456	14-38
	Tone	26-107	21	MR48	M26			16-100	15	TC22								
D42	Vol.	24-144	18	MR48	M26			.01-.01		Buffer	B14				7	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 6P5GT, 6U5, 5W4GT	455	12-5
								18-254	1	TCD65								
								18-243	19	TC26								
D43, D44	Vol.	24-127	6	MR22	M26			18-234	1/15	3N533					4	6D6, 6F5G, 25L6G, 25Z5	455	14-42
D52	Vol.		18	UM154			A96	4-8	4	2S567			859	C3	5	6A7, 6D6, 75, 41, 6Z4	456	13-12
D58, D59	Vol.	24-124	18	MR48	M26			.0075		Buffer	B14							
D64	Vol.	24-123	18	MR53	M26			18-232	1	‡TC48					5	6A7, 6D6, 75, 25L6G, 25Z5	455	14-44
	Tone	26-118	22	MR48				18-226	1	TCD72					7	6A7, 6D6, 6G5, 75, 76, 6AC5G, 80	455	14-13
D66	Vol.	24-146	18	MR48	M26			18-255	1	TCD47					6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 25L6GT, 25Z6GT	455	14-42,48
D69	Vol.	24-144	45	MR48	M26			18-256	1	FP234	B117				8	6SA7GT, 6SK7GT, ‡6P5GT, 6U5, 6SQ7GT, 6K6GT, 5W4GT	455	12-4
								18-243	19	TC26								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
LAFAYETTE—Continued																		
D71	Vol.	24-144	45	MR48	M26			18-256 18-243	1 19	FP234 TC26	B117				8	6SA7GT, 6SK7GT, [3]6P5GT, 6U5, 6SQ7GT, 6K6GT, 5W4GT	455	12-4
D72, D73	Vol.	24-146	18	MR48	M26			18-255	1	TCD47					6	6SA7GT, 6P5GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	14-42,52
D90	Vol.	24-146	45	MR48	M26			18-254 18-243	1 19	TCD65 TC26					6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	12-5
D93	Vol.	24-150	18	MK402				18-263 18-262	76 76/78	2N509 FP211					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-2
D131, D132, D133	Vol.	24-152	18	MK402	M26			18-265	1/15	3N533					4	12SA7, 12SQ7, 50L6GT, 35Z5GT	455	14-69
D247	Vol.	24-153	18	MK401	M26			18-266	1	TCD47					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-75,76
D251	Vol.	24-160	18	TM230-SS25	M26			18-266	1	TCD47					7	6SA7, 6SK7, [2]6SQ7, [2]25L6GT, 25Z6GT	455	14-76,77
D294	Vol.	24-157	18	MK402	M26			18-266	1	TCD47					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-76,80
D314, D315	Vol.	24-157	18	MK402	M26			18-266	1	TCD47					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-76,80
DA13	Vol.	24-102	18	MR48	M26			18-102	1/15	2N516/TC22					5	6A7, 6D6, 75, 41, 80	456	13-3
E20	Vol.	9296	124	MR48	M26			9193	3	3S584					10	[3]58, [3]57, 55, [3]59, 80	115	7-3,4
	Tone	9295	22	MR33				9197	14	TC62								
	NSC	9297	‡	‡		See Note A5		9196	15	TC26								
								8876	15	TC32								
E186	Vol.	12033	18	MK401	M26			12001	1	2N511					6	[2]12SK7, 12SA7, 12SQ7, 50L6GT, 35Z5GT	455	13-15,16
E189	Vol.	12132	18	MK401				12400	1	TC72/TC77					9	6SA7, 6SK7, 6SQ7, 6SF5, 6SJ7, [2]6K6G, 5Y3G, 6U5	455	13-17,18
	Tone	12350	22	MK401	M26													
E204	Vol.	9296	‡	MR48	M26			9193	3	3S584					10	[3]58, [3]57, 55, [3]59, 80	115	7-3,4
	Tone	9295	22	MR33				9197	14	TC62								
	NSC	9297	‡	‡		See Note A5		9196	15	TC26								
								8876	15	TC32								
EB8	Vol.	4106A	18	MR48	M26			20-12	27	TCS45					4	6A7, 6D6, 75, 25A7	456	8-2
EB9	Vol.	4108A	6	MR21	M26			4806A	27	TC44/TC42					4	6D6, 6C6, 43, 25Z5		8-2
F20	Vol.	9611	70	MR21		EX250									5	[3]32, 30, 34, 33	465	8-5
FE5	Vol.	101-127	18	UM161-SS18	M26			119-53E	1/15	3N533					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	465	12-1
FE141	Vol.	101218	18	MK402	M26			11994	46	FP357					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	14-70
J11	Vol.		7	MR28	M26			16-16-8 5	46 15	FP354 TC22	B117				4	6D6, 6C6, 43, 25Z5		13-2
J50	Vol.		45	‡		See Note A5		8-4-10 .01-.01	1/15	3S579 Buffer	B14		Order from Mfr.		6	1C6, 34, [3]30, 32, 33	465	10-1
J60	Vol.		45	MR48				8-4	1	See Note	B3		Order from Mfr.		6	1C6, 34, [3]30, 19	465	
	Tone		22	‡		See Note A5		.01-.01		Buffer	B14							
JB3	Vol.		6	MR44	M26			30-8	4	TCS47					6	6A7, 6D6, 76, [3]43, 25Z5, 6H[3]30	456	9-2
JS130	Vol.	50-67	149	MR48	M27			20-103B 20-120	76 78	TCD47 [2]TC2501					6	[3]1N5GT, 1A7GT, 1H5GT, 3Q5GT, 35Z5	456	13-13
JS177, JS178	Vol.	50.51A	18	MR48	M26			20.103A	1	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	12-10
JS179, JS180	Vol.	50.47A	18	MR48	M26			20.122	1	2N513					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	456	12-10
	Tone	55.20	22	MR48														
JS181	Vol.		18	MR48	M26			20.121	63	2N513					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6G, [2]25Z6	456	12-9
	Tone		22	MR48				20.105 16 16	24 63 63	[2]TC47 TC45 TC45	B12 B12							
L1, L2, L3, L4	Vol.		45	MR36				8	58	RS213					12	[3]56, [3]57, [4]58, [3]46, 82	175	5-9
	Tone		41	MR42				4	58	TC70								
	Sen.		8	E				4	19	TC70								
L11, L12	Vol.		45	MR48											9	[3]30, [3]34	175	5-10
	Tone		22	MR42														
	Fil.		29	R	7													
L16, L17, L18, L19	Vol.	P91041	59	X				P80894B	23	TCS71					7	[3]57, [3]58, 47, 80	175	5-11,12
	Tone	P90993	34	MR42				P80891B	23	TC70								
L20 (Nomad)	Vol.	P91019C	6	MR18	M26	EX300		P80944 80878C 80936C	11 19 15	UR193 TC22 TC22					5	[3]77, 78, 43, 25Z5	262	11-2
L22, L23	Vol.	P91066	17	UM154	M26		A96	P80956 P80937 .02	25/19 14/15	RM262/TC26 2N516 Buffer	B126 B127 B14	P1804	292	C12	6	[3]78, 77, 75, 41, 84	262	11-3
L30	Vol.		18	MR44	M26			8-8 10-10 .01	1 15	2N518 TN111 Buffer	 B14	2080 2110	253 253	C3 C3	6	75, 77, [3]78, 84, 41	262.5	5-13,14

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
LAFAYETTE—Continued																		
LW10	Vol.	8401	17	MR48	M26			2210	1	2N518			294	C3	6	§6D6, 6A7, 75, 41, 84	175	5-7,8
								2212	15	§TC32								
								2211	15	TC22								
								.025-.025		Buffer	B14							
M14-20	Vol.		12	MR33				‡	1	See Note	B4				5	§78, 37, §48		6-6
								5	15	TC22								
M15	Vol.		12	MR33											4	§34, 32, 33		7-7
M31 (1936)	Vol.		18	MR48											6	6A7, 6D6, 75, 76, §48	465	9-5
M31-71	Vol.		6	MR18	M26			4-8	1	2N518					5	§57, 58, 47, 80	175	9-6
M35, 37	Vol.		124	MR48				4-8-4	4	See Note	B3				7	55, 56, §58, 47, 80	175	6-9,8-7
	Tone		22	MR44														
M41	Vol.		15	MR48				4-4	60	2S567					8	§58, 55, §47, 56, 80	520	10-8
	Tone		21	MR44				8	60	ST595								
M43	Vol.		15	MR48				4-4	60	2S567					8	§58, 55, §47, 56, 80	520	10-8
	Tone		21	MR44				8	60	ST595								
M44	Vol.		75	MR48				4-4	1	2N518	B3		Order from Mfr.		6	1C6, 34, §30, 19	456	8-7
	Tone		22	MR33				.01-.01		Buffer	B14							
M47	Vol.		124	MR48	M26			4-4-8	26	See Note	B3				10	55, §56, §58, §47, 80	520	6-10
	Sen.		8	MR18														
M65	Vol.		124	MR48				4-4-4	26	TCS71/TC70					10	§58, §56, 55, §47, 80	175	10-9
	Tone		21	MR44														
M69, 70	Vol.	512	6	G	6	2		533	4	TCS71	B3				7	§56, 57, 58, 47, 80	115	5-2
	Tone	534	21	MR44				721	4	TC71								
M99 (Pigmy)	Vol.		6			See Note A5		‡	8	TN125	B3				5	§77, 78, 43, 25Z5	175	9-7
PA	Vol.		6	MR18		See Note A14									4	39, 36, 01A, 71A		9-5
P15754								8, 8	1	ST595					6	77, 37, §48		7-16
R71	Vol.		6	G		5		4-4	4	See Note	B3				4	58, 57, 47, 80		8-9
S43	Vol.	24-144	45	MR48	M26			18-254	1	TCD65					6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	14-25
								18-243	19	TC26								
S43G (Late)	Vol.	24-144	64	MR48	M26			18-254	1	TCD65					6	6A8, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	
S61, S62	Vol.		76	MR48				20-12	11	TCS45					9	6A8, 6K7, 6116, 6C5, §43, 6G5, §25Z5, 2600, 2601	456	9-7
	Tone		76	MR53				8	11	TC42								
S17762	Vol.		56	MR48				8-16	1	3S584	B8		Order from Mfr.		6	77, §78, 85, §41	262	5-15,16
								4	15	TC22								
								.01		Buffer	B14							
SL45	Vol.		7	D7	6	2		10	1	ST597					5	58, 2A7, 57, 2A5, 80	175	8-8
								6	1	ST595								
								10	15	TC22								
SL71	Vol.		7	MR44	M26			12-8-10-10	6/15	4S715					4	78, 6F7, 43, 12Z3		8-9
T21 (Early and Late)	Vol.		6	MR33				16-8	11	TC44/TC42					4	6B7, 6D7, 43, 25Z5 or 6D6, 6C6, 43, 25Z5		9-4
	Vol.		6	MR24		EX300	A4											
U145	Vol.		45	MR48	M26			6-4-4	3	3S584					8	§58, 56, §57, 47, 80	507	9-9
	Tone		22	MR33														
U155	Vol.		20	TRP616				8-4-4	3	3S584					10	§58, §57, §47, 80	507	9-9
	QAVC		12	E				5	13	TC62								
								8	19	TC32								
XP15949								12, 12, 12	3	ST597					3	§6C6, 80		7-16
								25	15	TC26								
2A5 (1st Minstrel)	Vol.		6	MR18				8, 8	4	ST595					5	§24, 51, 47, 80	175	9-1
10, 12	Vol.		12	MR33				8, 8, 8	3	ST595					6	§58, 56, §59, 80		7-2
								5	15	TC22								
								25	15	TC26								
10C10	Vol.	P90980	78	MR48				P80900	30	RS213					10	§27, §35, §47, 80	175	6-2,5
	Tone	P90986B	41	MR55	M26			P80901	30	RS213								
12A52	Vol.	101229	15	MK401				119-112	46	FP429	B192				12	§6SK7, 6SA7, §6SQ7, 6J5GT, §6V6GT, 6U5, 5Y3G	455	
								11969	13	TC65								
40A	Vol.	90983	8	A5MP			A27	80873B	30	TC70					8	§24, 27, §35, 47, 80	175	6-13,14
	Vol.	90988	14	MR48			A4	80874	30	TC70								
	Tone	90984	34	MR42				80875	30	TC70								
								80878	30	TC70								
53	Vol.		127	MR48	‡			4-8-4	4	See Note	B3				7	55, 56, §58, 47, 80	175	6-9
	Tone		22	MR44														
80M (2 Types)	Vol.	90983	8	A5MP		See Note A27		80873B	30	TC70					8	§24, 27, §35, 47, 80	175	6-13,14
	Vol.	90988	14	MR48		See Note A4		80874	30	TC70								
	Tone	90984	34	MR42				80875	30	TC70								
								80878	30	TC70								
100A	Vol.		‡	NN				8	2	ST595	B3				5	57, §59, 83		6-16
102A	Vol.		15	MR48				8, 8	2	ST595	B3				9	§57, §53, §2A3, 83		6-16
	Tone		21	MR48				5-5	4	§TC42								
								5-5	15	TN111								
106A	Vol.		15	MR48				8-8	2	See Note	B3				6	53, §56, §6B5, 83		6-17
	Tone		21	MR48				25	15	TC26								
115A	Vol.		15	MR48				8-8	2	See Note	B3				9	§53, 2A3, §45, 83		6-18
								10-10-10	26	See Note	B3							
120A	Vol.		15	MR53				8-4-16	2/12	See Note	B3				4	6C6, 6A6, §6B5		6-17
	Tone		21	MR48				25	15	TC26								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
LAFAYETTE—Continued																		
132A, 133A	Vol.		15	MR48				8-8	2	See Note	B3				6	‡75, 6A6, ‡6B5, 5Z3		7-8
								25	15	TC26								
137X	Vol.		18	MR48				8-4	23	See Note	B3				6	6A7, 6D6, 75, ‡42, 80	456	7-10
143, 144	Vol.		18	MR48				8-4	23	See Note	B3				6	6A7, 6D6, 75, ‡42, 80	456	7-11
149	Vol.		18	MR48				8-4	23	See Note	B3				6	6A7, 6D6, 75, ‡42, 80	456	7-11
150X	Vol.		18	MR48				8-4	23	See Note	B3				6	6A7, 6D6, 75, ‡42, 80	456	7-10
151, 154	Vol.	3120	15	MRT427	M26			3288	1	2N518					12	‡78, 6A7, 85, ‡76, ‡42, ‡80	465	7-12,14
	Tone		22	MR24				3004	25	RM262								
	Sen.	3121	7	MR20				1948	25	RS213								
158P	Vol.		6	MR18		See Note	A28	8	2	See Note	B3				13	‡53, 55, ‡57, ‡58, ‡2A5, 59, 83		6-18
	Vol.		15	MR48		See Note	A29	32	2	See Note	B3							
								25	15	TC26								
								5	15	TC22								
171X	Vol.		18	MR48				8-4	23	See Note	B3				6	6A7, 6D6, 75, ‡42, 80	456	7-10
186, 188	Vol.	3120	15	MRT427	M26			3288	1	2N518					12	‡78, 6A7, 85, ‡76, ‡42, ‡80	465	7-12,14
	Tone		22	MR24				3004	25	RM262								
	Sen.	3121	7	MR20				1948	25	RS213								
324	Vol.		114	MR48				8-8-8	26	See Note	B3				8	‡58, 2A7, 2A6, 2A5, ‡45, 80	456	7-15
	Tone		114	MR55				4	15	TC22								
"Orthotone"	Vol.		15	‡		See Note	A19	6-4-4	3	See Note	B3				10	56, ‡57, ‡58, ‡47, 80		6-1
	Supp.		12	MR28	M26			8	17	TC32								
399-C31	Vol.		15			See Note	A19	16-16	40	2S569					9	6D6, 6K8, 6Q7, 6F6, 6AF6G, 6A8G, 80	456	13-14
	Tone		‡	MR53														
480	Vol.		18	MR48				8-4	1	2N518			See Note	C8	4	6A7, 34, 1B5, 41	456	9-10
								10	15	TC22								
								.01		Buffer	B14							
1102	Vol.	101-234	15	MK401	M26			119-112	1/13	FP444					11	‡6SK7, 6SA7, ‡6SQ7, 6J5GT, ‡6V6GT, 6U5, 5Y3G	455	
								119-69	13	TC65								
2001 (Minstrel 1932)	Vol.		6	MR18				5-5	4	2S567					5	‡24, 51, 47, 80	175	9-1
3120	Vol.		18	MR53	M26			80-40-25-16	24	See Note	B3				11	‡6SK7, 6A8, ‡12SQ7, 6U5, ‡25L6, ‡25Z6	455	14-73,74
	Tone		22	MR53														
4124	Vol.		140			See Note	A19	40-25-80	6/12	See Note	B3				12	‡6SK7, 6K8, ‡6SQ7, 6U5, ‡25L6, ‡25Z5	455	14-39,40
	Tone		140			See Note	A5	16	13	TC45								
								10	15	TC22								
4990	Vol.		15			See Note	A19	16-16	40	2S569					9	‡6D6, 6K8, 6Q7, 6F6, 6AF6G, 6A8G, 80	456	13-14
	Tone		‡	MR53														
LANG RADIO CO.																		
BA5	Vol.		40	D12				8	4	ST595					5	‡24A, 45, 80		1-1
								4	4	ST595								
BA5P	Vol.		40	D12				8, 8	4	ST595					5	‡24A, 47, 80		2-2
	Tone		22	MR33														
BD5P	Vol.		40	D12											5	‡36, 37, ‡33		1-1
	Tone		22	MR33														
BD6	Vol.		40	D12											6	30, ‡31, ‡32		1-1
BD6P	Vol.		40	D12											6	‡36, ‡37, ‡33		1-2
	Tone		22	MR33														
DC6	Vol.		6	MR18											6	‡39, ‡37, ‡48		
	Tone		44	MR33														
F7 110V DC	Vol.		10	D12											7	‡12A, ‡71A		2-1
F9	Tone		34	MR39											9	‡12A, ‡71A		1-2
J7	Tone		34	MR39											7	‡22, ‡12A, ‡71A		1-2
M7	Vol.		12	A5MP				2-4	1	See Note	B1				7	‡24, ‡45, 80, 27		1-3
	Tone		34	MR39														
MA7	Vol.		6	G7	6	2		8, 8	4	ST595					7	‡24, 27, ‡35, 47, 80	175	2-3
	Tone		22	MR33														
MA8	Vol.		62	MR48	M26			8-8	4	See Note	B3				8	‡24, ‡27, ‡35, 47, 80	175	3-1
	Tone		22	MR33				5	15	TC22								
MD7	Vol.		6	G7	6	3									7	‡36, 37, ‡33	175	2-3
	Tone		22	MR33														
MD8	Vol.		15	MR48	M28										8	‡33, 36, ‡37, ‡39	175	3-1
	Tone		22	MR33														
SA7	Vol.		6	MR18				16-8	4	3S584	B8				7	‡24, ‡35, 47, 80	175	2-4
	Tone		22	MR33														
SA8	Vol.		6	MR18				4-8-4	26	See Note	B3				8	‡24, 27, ‡35, ‡47, 80	175	2-4
	Tone		22	MR33														
UG5B	Vol.		6	MR18	M26	EX200		12-8-10-10	6/15	3S582/TN111					5	‡6C6, 6D6, 43, 12Z3	456	5-1
UG5H	Vol.		7	E		2		12-8-10-10	6/15	3S582/TN111					5	6A7, 6D6, 6C6, 43, 12Z3	456	
40UL	Vol.		6	MR18	M26	EX120		E1153A	6/15	3S582/TN111					4	6A7, 6C6, 43, 25Z5	470	6-1
50AS	Vol.		6	MR18		EX120		4-8-12	4/12	See Note	B3				5	6A7, 6D6, 76, 38, 80	470	6-2
50UP	Vol.		6	MR18	‡			12-8-10-10	6/15	3S582/TN111					5	6A7, 6D6, 76, 43, 25Z5	470	6-2
50US	Vol.		6	MR18	M26	EX120		E1153A	6/15	3S582/TN111					5	6A7, 6D6, 76, 43, 25Z5	470	6-1
60AA	Vol.		18	MR48				8-8	4	See Note	B3				6	‡6D6, 6A7, 75, 41, 80	470	6-3
								4-4	13	2N516								
								5	15	TC22								
60UP	Vol.		6	MR18	‡			12-8-10-10	6/15	3S582/TN111					5	6A7, 6D6, 76, 43, 25Z5	470	6-2

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
LANG—Continued																		
80UA	Vol.		17	MR48				16, 16, 16	8	TC45					8	[26]D6, 6A7, [75], [43], 25Z5	470	6-4
502UA	Vol.		7	E		2		12-8-10-10	6/15	3S582/TN111					5	6A7, 6D6, 6C6, 43, 12Z3	456	
502US	Vol.		14	E	6	2		E1153A	6/15	3S582/TN111					5	6A7, 6D6, 6C6, 43, 12Z3	456	5-2
503AS	Vol.		17	MR48				12-8-5	4/15	See Note	B3				5	2A7, 58, 2A6, 2A5, 80	175	5-3
503US	Vol.		7	E	6	2		8-12-10-10	6/15	3S582/TN111					5	6A7, 6D6, 6C6, 43, 25Z5	470	5-1
503UT, 523UT	Vol.		17	MR53				8-16-8	6	TN125	B3				5	6A7, 6D6, 75, 43, 25Z5	470	6-5
703US	Vol.		17	MR45				10	15	TC22								
								16-8-8	11	3S582	B3				7	6A7, 6D6, 85, [43], [2]12Z3	175	5-4
								6	12	TC42								
								5	15	TC22								
LARKIN CO.																		
84	Vol.		6	F7				3-2-2	30	See Note	B1				6	‡	175	§6-20
	Tone		21	MR48														
88	Vol.		42	G				8-8	4	See Note	B3				7	24, [2]27, [2]35, 47, 80	175	5-1
	Tone		21	MR53				5	15	TC22								
90	Vol.		17	MR48				5	15	TC22					6	77, [2]78, 85, [2]41	175	5-1
91	Vol.		17	MR48				6-10	1	See Note	B3		292	C3	7	6A7, [2]78, 85, [2]41, 84	175	5-2
								5	15	TC22								
								.015		Buffer	B14							
LAUREHK MFG. CO.																		
K(D-C)	Vol.		6	E12											5	[3]36, [3]38		§10-7
L4B	Vol.		18	MR48	M27			8	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G		§10-7
L44T	Vol.		6	G7				8-8	4	2S567					4	6K7, 6J7, 6F6, 80		§7-8
								10	15	TC22								
L55T	Vol.		6	G7				8-8	4	2S567					5	[2]6K7, 6J7, 6F6, 80		§7-8
								10	15	TC22								
L65	Vol.	N2886	18	MK401	M26			N1366	24	TCD48					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	§13-2
L67	Vol.		17	MR48				15-15	1	2S569					6	[2]6K7, 6A8, 6Q7, 6V6, 5Y4	456	11-2
	Tone		22	MR24				10	15	TC22								
L69 (Musique)	Vol.		6	G7				5-14	12/18	2N509					4	6D6, 6C6, 43, 25Z5, L55B		§8-5
L600 (Musique)	Vol.		18	MR53				15-20	1	2N509					5	6A8, 6K7, 6B7, 25L6, 25Z6, L49B	465	§8-5
LA35	Vol.		18	MR48				40-16	22	2N514					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	11-1
								10	15	TC22								
LEWOL MFG. CO.																		
LW4, LW4DW	Vol.		6	SRP263		EX300		110	27	UR182	B115				4	6D6, 6C6, 43, 25Z5		5-1
60MS	Vol.		20	‡		See Note A19		8-16-4	11	UR182	B31				6	[2]78, 6A7, 85, 43, 25Z5	456	5-2
63	Vol.		20	‡		See Note A19		8-16	4	See Note	B3				6	[2]78, 6A7, 85, 42, 80	262.5	5-3,4
64	Vol.		20	‡		See Note A19		12-16-6	11	UR182	B31				6	[2]78, 6A7, 85, 43, 25Z5	262.5	5-2
9682	Vol.		64	MR48	M27			8-4	1	See Note	B3		Order from Mfr.		6	1C6, 34, [3]30, 19	465	
	Tone		22	‡		See Note A5		.01-.01		Buffer	B14							
LINCOLN RADIO CORP.																		
"Hollister" AC8	Vol.		12	D12											8	[4]24, [3]27, 50	‡	4-4
DCSW8	Vol.		12	MR33											8	[3]30, 31, [3]32	‡	4-1
R9	Vol.		16	MR48				8	1	RS213					11	[4]56, [4]58, [3]45, 80	480	4-1
	Sen.		12	MR34														
"DeLuxe" 10	Vol.		58	F				2-2-2	3	See Note	B1				11	[3]24, [3]27, [3]45, 80	‡	3-1
31	Vol.		7	MR34				2-4	1	See Note	B1				11	[3]24, [3]27, [3]45, 80	‡	1-1
SW32	Vol.		7	MR34	M26			4	1	RS213					11	[3]27, [3]24, [3]45, 80	‡	3-1
SW33	Vol.		23	NN				8	4	RS213					11	[3]35, [3]56, [3]45, 80	‡	4-2,3
	Sen.		98	MR34														
LONG RADIO CORP.																		
70	Vol.		6	MR18				8-8	1	See Note	B3				6	[3]24, 27, 45, 80		
R. H. MACY & CO.																		
MB5	Vol.		6	MR19				8	1	See Note	B3				5	24, [3]51, 47, 80		3-1
56, 58	Vol.		6	‡		See Note A5		8-8	4	See Note	B3				5	55, 57, 58, 47, 80		3-1
	Tone		22	‡		See Note A5												
MB92	Vol.		6	MR18				2	3	See Note	B2				9	55, [3]56, [3]58, [3]46, 80		3-3
	Tone		22	MR44				8-8	3	See Note	B3							
								4	15/17	TC22								
MB710	Vol.		6	MR18				8-4	1	See Note	B3				7	55, [3]58, 56, 47, 80	175	3-2
	Tone		22	MR39				4	17	TC32								
410 AC-DC	Vol.		17	MR48				30-12	6	2N513					7	6A7, 6D6, 6R7, [43], [2]25Z5	456	7-1
	Tone		41	MR48				20-5	24	2N509								
								10	15	TC22								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. H. MACY & CO.	—Continued																	
706-70623	Vol.		18	MR48				30-16	1	2N514					10	6A7, 6K7, 85 or 6R7, [4]3, [3]25Z5	456	7-2
	Tone		41	MR48				16	18	TC45								
								20	12	TC47								
MAGNAVOX																		
A101P (Amplifier)	Vol.	224354	50	MR39	M26			274212	29	RS216					3	6D6, 43, 25Z5		
								274201	29	See Note	B3							
A106P (Amplifier)	Vol.	224354	50	MR39	M26			274212	27	RS216					3	6D6, 43, 25Z5		
								274236	15	TC26								
A201 (Amplifier)	Vol.	220016	50	MR53				273611	19	TC26					1	1Q5G		14-1
A205 (Record Player)	Vol.	220014	50	MR53	M26			270008	24/15	Order from	Mfr.				1	70L7GT		14-2
A206A (Record Player)	Vol.	222518	50	MR53				270013	24	FP214					2	[2]70L7GT		14-3
	Tone	220021	44	MR24	M26													
A307P2 (Amplifier)	Vol.	222383	‡	Order from	Mfr.			274212	11	RS216					5	6C5, [2]25L6, [2]25Z5		
	Treble	222556	‡	MR24	M26			270001	13	TC44								
								274165	15	TC26								
A307P4 (Amplifier)	Vol.	223555	15	MR53	M26			279992	8	TC47					5	6J5G, [2]25L6G, [2]25Z5		
								279993	15	TC26								
A307P5 (Amplifier)	Vol.	223086	50	MR48				270014	24	FP214					5	6SC7, [2]25L6G, [2]25Z5		14-4,8
	Tone	220024	‡	MR36	M26			270017	18	TC47								
A401 (Amplifier)	Vol.	223495	50	MR48				279911	1	FP231	B117				3	6J5G, 6F6G, 80		14-7,8
								279912	15	[2]TC26								
A501 (Amplifier)	Vol.	222383	‡	Order from	Mfr.			274238	1	HD684					3	57, 2A3, 80		
	Treble	222556	‡	MR24				274250	1	HD684								
								274334	15/17	[2]TC36								
A501B (Amplifier)	Vol.	222383	‡	Order from	Mfr.			273610	1	FP390	B8				3	57, 2A3, 80		
	Treble	222556	‡	MR24				270003	17	TC39								
								273611	15	TC26								
A1101 (Amplifier)	Vol.	222444	50	MR53				273611	15	[2]TC26					4	6J5G, [3]6Y6G, 5Y3G		14-5, 6,14
	Bass	222446	‡	MR53	M26T			273610	1	FP390	B8							
	Treble	222445	‡	MR44				270012	13	TC62								
A3001A (Amplifier)	Vol.	222444	15	MR53				274194	1	HD684					4	6C5, [3]6L6, 5Z3		14-9, 10,13
	Treble	222445	‡	MR44				274224	15	[2]TC36								
	Bass	222444	‡	MR53														
A3001B (Amplifier)								273610	1	FP390	B8				4	6C5, [3]6L6G, 5Z3		
								270007	13/15	WP520/TC70								
A3001C (Amplifier)	Vol.	222444	50	MR53				270007	13/15	FP339					4	6C5, [3]6L6G, 5Z3		14-11, 12,14
	Bass	222446	‡	MR53	M26T			273610	1	FP390	B8							
	Treble	222445	‡	MR44														
CR101, CR101M	Vol.	223258	127	MR44				12-12	1	2S569					8	[3]6D6, 6A7, 6H6, 6G5, 6F5, 6C5, 80	465	10-1
	Tone	223257	‡	MR53	M26			10, 10	15	TC22								
CR102, 103, 104, 105	Vol.	223327	18	MR48				‡	23	See Note	B3				6	6A7, 6D6, 6Q7G, 6G5, 6N6, 80	456	10-5
	Tone	223358	21	MR48	M26													
CR106	Vol.	223327	75	MR48				14-8-4	1/13	See Note	B3				7	6A7, 6D6, 6H6, 6K5G, 6N6G, 6G5, 80	455	10-7
	Tone	223358	57	MR48	M26													
CR107	Vol.	223327	18	MR48				50-32-16	8	See Note	B3				8	6A8G, 6K7G, 6R7G, 6N5, [2]25L6G, [2]25Z6G	455	10-9
	Tone	223358	22	MR48	M26													
CR108M	Vol.	223258	45	MR44				12, 12	1	HD684					9	[3]6D6, 6A7, 6H6, 6F5, 6C5, 6N5, 80	455	10-11, 12
	Tone	223257	‡	MR53	M26													
CR109	Vol.	223327	75	MR48				14-8-4	1/13	See Note	B3				7	6A7, 6D6, 6H6, 6K5G, 6N6G, 6G5, 80	455	10-7
	Tone	223358	57	MR48	M26													
CR110	Vol.	223327	18	MR48				32-50-16	8	See Note	B3				8	6A8G, 6K7G, 6R7G, 6N5, [2]25L6G, [2]25Z6G	455	10-9
	Tone	223358	22	MR48	M26													
CR111	Vol.	223327	75	MR48				14-8-4	1/13	See Note	B3				7	6A7, 6D6, 6H6, 6K5G, 6N6G, 6G5, 80	455	10-7
	Tone	223358	57	MR48	M26													
CR112	Vol.	223327	18	MR48				50-32-16	8	See Note	B3				8	6A8G, 6K7G, 6R7G, 6N5, [2]25L6G, [2]25Z6G	455	10-9
	Tone	223358	22	MR48	M26													
CR113, 114, 115	Vol.	223327	75	MR48				14-8-4	1/13	See Note	B3				7	6A7, 6D6, 6H6, 6J5G, 6L6G, 6G5, 80	455	10-17
	Tone	223358	21	MR48	M26			50	15	TC29								
CR117	Vol.	220003	17	MR48	M26			10-10	1	FP231					5	6A7, 6D6, 75, 6B6G, 80	455	10-19
	Tone	220002	22	MR33														
CR118	Vol.	223327	75	MR48				14-8-4	1/13	See Note	B3				7	6A7, 6D6, 6H6, 6J5G, 6L6G, 6G5, 80	455	10-17
	Tone	223358	57	MR48	M26			50	15	TC29								
CR119, 120	Vol.	223327	18	MR48				50-32-16	8	See Note	B3				8	6A8G, 6K7G, 6R7G, 6N5, [2]25L6G, [2]25Z6G	455	10-9
	Tone	223358	22	MR48	M26													
CR121	Vol.	223605	127	MR48				30-10	1	FP390	B8				8	6A8G, 6K7, 6H6, 6J5G, 6U5, [3]6V6G, 5U4G	455	10-21, 22
	Treble	223603	21	MR53	M26			20	15	TC26								
	Bass	223604	‡	MR33														
CR122	Vol.	223258	45	MR48				12, 12	1	HD684	B8				9	[3]6D6, 6A7, 6H6, 6F5, 6C5, 6N5, 80	455	10-11, 13
	Tone	223257	‡	MR53	M26													
CR123	Vol.	223703	127	MR53	M26			30-10	1	FP390	B8				6	6K8, 6K7, 6H6, 6J5G, 6L6G, 80	455	10-25
	Tone	223704	21	MR48				40	15	TC29								

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MAGNAVOX—Continued																		
CR124	Vol.	223605	127	MR48				30-10	1	FP390	B8				8	6A8G, 6K7, 6H6, 6U5, 6J5G, [6]L6G, 5U4G	455	10-27, 28
	Treble	223603	21	MR53	M26			20	15	TC26								
	Bass	223604	‡			See Note A3												
CR125	Vol.	223327	75	MR48				14-8-4	1/13	See Note	B3				7	6A7, 6D6, 6H6, 6J5G, 6L6G, 6G5, 80	455	10-17
	Tone	223358	21	MR48	M26			50	15	TC29								
CR126, 127	Vol.	223327	18	MR48				50-32-16	8	See Note	B3				8	6A8G, 6K7G, 6R7G, 6N5, [2]25L6G, [2]25Z6G	455	10-9
	Tone	223358	22	MR48	M26													
CR128	Vol.	223703	127	MR53	M26			30-10	1	FP390	B8				6	6K8, 6K7, 6H6, 6J5G, 6L6G, 80	455	10-25
	Tone	223704	21	MR48				40	15	TC29								
CR133	Vol.	220009	18	MR48	M27			270006	19	TC22					4	1A7G, 1N5G, 1I15G, 1C5G	455	11-3
CR134	Vol.	220008	127	MR53				273610	1	FP390	B8				6	6SA7, 6SK7, 6H6, 6J5G, 6L6G, 80	455	11-1-4
	Tone	220007	22	MR48	M26			273705	15	TC29								
CR136	Vol.	223605	127	MR48				273610	1	FP390	B8				8	6SA7, 6SK7, 6I16, 6J5G, [6]L6G, 6U5, 5U4G	455	11-5,6
	Treble	220011	39	Order from	Mfr.			273611	15	TC26								
	Bass	220012	‡	MR33	M26													
CR137	Vol.		127	MR53				273610	1	FP390	B8				7	6SA7, 6SK7, 6I16, 6J5G, 6L6G, 80, 6U5	455	11-1,2
	Tone		22	MR48	M26			273705	15	TC29								
CR140	Vol.	220008	15	MR53				273610	1	FP390	B8				8	6SA7, 6SK7, 6I16, 6J5G, [6]V6G, 6U5, 5U4G	455	11-7,8
	Treble	220017	39	MR53	M26			273611	15	TC26								
CR141	Vol.	220008	15	MR53				273610	1	FP390	B8				6	6SA7, 6SK7, 6I16, 6J5G, 6L6G, 80	455	11-13,14
	Treble	220007	57	MR48	M26			273611	15	TC26								
								273705	15	TC29								
CR142	Vol.	220008	15	MR53				273610	1	FP390	B8				7	6SA7, 6SK7, 6I16, 6J5G, 6L6G, 6U5, 80	455	11-13,14
	Treble	220007	57	MR48	M26			273611	15	TC26								
								273705	15	TC29								
CR143	Vol.	220008	15	MR53				270004	1	FP214					9	12SA7, 12SK7, [2]12J5GT, [2]50L6GT, [2]35Z4GT, 6N5	455	11-15,16
	Treble	220015	39	MR53	M26			270010	12	TC48								
								273611	15	TC26								
CR144	Vol.	220008	127	MR53				273610	1	FP390	B8				7	6SA7, 6SK7, 6I16, 6J5G, 6L6G, 6U5, 80	455	11-1-4
	Tone	220007	22	MR48	M26			273705	15	TC29								
CR145	Vol.	220008	15	MR53				270004	1	FP214					8	12SA7, 12SK7, [2]12J5GT, [2]50L6GT, [2]35Z4GT	455	11-15,16
	Treble	220015	39	MR53	M26			270010	12	TC48								
								273611	15	TC26								
CR146	Vol.	223605	15	MR48				273610	1	FP390	B8				9	6SA7, 6SK7, 6I16, [2]6J5, [2]6V6G, 6U5, 5U4G	455	11-17,18
	Treble	220011	39	Order from	Mfr.			273611	15	TC26								
	Bass	220012	‡	MR34	M26													
CR147	Vol.	223605	15	MR48				273610	1	FP390	B8				9	6SA7, 6SK7, 6I16, [2]6J5, [2]6L6G, 6U5, 5U4G	455	11-19,20
	Treble	220011	39	Order from	Mfr.			273611	15	TC26								
	Bass	220012	‡	MR34	M26			270012	14	TC62								
CR148	Vol.	223605	127	MR48				273610	1	FP390	B8				9	6SA7, 6SK7, 6I16, [2]6J5, [2]6L6G, 6U5, 5U4G	455	11-21,22
	Treble	220011	39	Order from	Mfr.			273611	15	TC26								
	Bass	220012	‡	MR34	M26													
CR149	Vol.	223605	15	MR48				273610	1	FP390	B8				12	[2]6SK7, 6SA7, 6I16, 6SJ7, [2]6J5, [2]6L6G, 6N5, [2]5Y3G	455	12-1,2,5
	Treble	220011	‡	Order from	Mfr.			270012	14	TC71								
	Bass	220012	‡	MR34	M26			273611	15	TC26								
CR150, CR151	Vol.	220008	15	MR53				273610	1	FP390	B8				8	6SA7, 6SK7, 6H6, 6J5G, [2]6V6G, 6U5, 5U4G	455	.....
	Treble	220017	39	MR53	M26			273611	15	TC26								
CR152	Vol.	223605	15	MR48				273610	1	FP390	B8				12	[2]6SK7, 6SA7, 6I16, 6AB7, [2]6J5, [2]6L6G, [2]5Y3G, 6E5	455	12-3,4,6
	Tone	220011	‡	Order from	Mfr.			273611	15	TC26								
	Bass	220012	‡	MR34	M26			270012	14	TC62								
CR153	Vol.		15	MR48				273610	1	FP390	B8				9	6SA7, 6SK7, 6I16, [2]6J5, [2]6V6G, 5U4G, 6U5	455	11-9,10
	Tone		39	Order from	Mfr.			20	15	TC26								
	Phono.		‡	MR34	M26			8	14	TC62								
CR154	Vol.	223605	15	MR48				273610	1	FP390	B8				12	[2]6SK7, 6SA7, 6I16, 6AB7, [2]6J5, [2]6L6G, 6E5, [2]5Y3G	455	12-7, 8,11
	Tone	220011	‡	Order from	Mfr.			273611	15	TC26								
	Bass	220012	57	MR34	M26			270012	13	TC62								
CR155	Vol.	223605	15	MR48				273610	1	FP390	B8				11	[2]6SK7, 6AS7, 6I16, 6AB7, [2]6J5, [2]6V6G, 6E5, 5Y3G	455	12-9,12
	Tone	220011	‡	Order from	Mfr.			270012	14	TC62								
	Phono.	220012	57	MR34	M26			270015	14	TC70								
								273611	15	TC26								
CR156	Vol.	223605	15	MR48				273610	1	FP390	B8				9	6SA7, S6K7, 6I16, [2]6J5GT, [2]6V6G, 5Y3G, 6U5	455	12-15, 16,19
	Tone	220011	39	Order from	Mfr.			273611	15	TC26								
	Bass	223603	57	MR53	M26													
CR157	Vol.	220008	15	MR53				273610	1	FP390	B8				8	6SA7, 6SK7, 6I16, 6J5G, [2]6V6G, 5U4G, 6U5	455	.....
	Tone	220017	39	MR53	M26			273611	15	TC26								
CR158 (FM Tuner)								273610	1	FP390	B8				11	6SA7, [2]6SK7, [2]6AC7, VR150, 6AF6G, 6H6, 6J5, 6SC7, 5Y3G	4300	12-13,14
								273611	15	TC26								
CR159	Vol.	220008	15	MR53				273610	1	FP390	B8				6	6SA7, 6SK7, 6H6, 6J5G, 6L6G, 80	455	11-13,14
	Tone	220007	57	MR48	M26			273611	15	TC26								
								273705	15	TC29								
CR160	Vol.	223605	15	MR48				273610	1	FP390	B8				9	6SA7, 6SK7, 6H6, [2]6J5, [2]6V6G, 6U5, 5U4G	455	.....
	Tone	220011	39	Order from	Mfr.			270012	14	TC62								
	Bass	220012	‡	MR34	M26			273611	15	TC26								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MAGNAVOX—Continued																		
CR161	Vol.	223605	15	MR48				273610	1	FP390	B8				12	[2]6SK7, 6SA7, 6H6, 6AB7, [2]6J5, [2]6L6G, [2]5Y3G, 6E5	455	12-3,4,6
	Tone	220011	‡	Order from	Mfr.			270012	14	TC62								
	Bass	220012	‡	MR34	M26			273611	15	TC26								
CR165	Vol.		15	MR48				50-40	63	FP214					10	12SA7, 12SK7, [3]12J5GT, [3]50L6GT, 6N5, [3]35Z4GT	455	12-17, 18,20
	Tone		39	Order from	Mfr.			40	63	TC48								
	Phono.		‡	MR34	M26			20	15	TC26								
CR-169 (Tuner)									46	FP390	B8				8	6SA7, [2]6SK7, 6AC7, 6H6, 6U5, 6X5GT	4.3	13-1-4
									46	TC71								
CR-170 (Tuner)									46	FP390	B8				8	6SA7, [2]6SK7, 6AC7, 6H6, 6U5, 6X5GT	4.3	13-1-4
									46	TC71								
CR-171	Vol.		15	MR53				30-10	1	FP390	B8				8	6SA7, 6SK7, [2]6J5, [2]6V6G, 6U5, 5U4G	455	13-5-8
	Tone		21	MR53	M26			20, 20	15	[2]TC26								
CR-172	Vol.	220008	17	MR53				273610	1	FP390	B8				7	6SA7, 6SK7, [2]6J5, [2]6V6GT, 5Y3G	455	13-8-11
	Treble	220015	‡	MR53	M26			273611	15	TC26								
CR-174, 174C	Vol.	223605		MR48				273610	1	FP390	B8				12	[2]6SK7, 6SA7, 6AB7, 6H6, [2]6J5, [2]6L6G, 6E5, [2]5Y3G	455	13-12-16
	Bass	223603		MR53	M26			273611	15	TC26								
	Treble	220011		Order from	Mfr.			270012	13	TC62								
								270015	13	TC70								
CR-177	Vol.	223605	17	MR48				273610	1	FP390	B8				9	6SA7, 6SK7, [2]6J5, [2]6L6G, 6U5, 5U4G	455	13-12, 19,20,21
	Bass	223603	‡	MR53	M26			273611	15	TC26								
	Treble	220011	21	Order from	Mfr.													
CR-178	Vol.	220008	17	MR53				273610	1	FP390	B8				7	6SA7, 6SK7, [2]6J5, [2]6V6GT, 5Y3G	455	13-8-11
	Treble	220015	‡	MR53	M26			273611	15	TC26								
	Bass	220033	‡	MR33														
MAJESTIC†																		
7BP3, 7BP6								3-4-3-3	47	See Note	B121				1	80		1-6,7
								2-3-3-2	47	See Note	B121							
7P3, 7P6								2-6-2-2-1	47	See Note	B121				1	80		1-2,4
8P3, 8P6								2-2-3-1-1	47	See Note	B121				2	[2]81		1-9
9P3, 9P6								4-4-1-2	47	See Note	B121					80		1-24
10 (11)								6433	1	2N518					3	[2]24, 80	1000	3-14,15
15 Below 65149	Vol.	8394	6	G7	6	3		5414	4	TC71					5	[2]24, 47, 51, 80	175	2-4,5
	Tone	5214	22	MR35				8385	4	TCS71								
15, 15B (151, 153, 154, 155, 156) Above 65150	Vol.	4682	6	G7	6	EX300		5414	4	TC71					5	[2]24, 51, 47, 80	175	2-6,7
	Tone	5214	22	MR35				8385	4	TCS71								
20 (21, 22, 23)	Vol.	3899	8	MR19	M26			2-2	1	See Note	B1				8	[2]27, [3]51, [2]45, 80	175	1-14,15
								.07		See Note	B9							
25 (251, 253, 254)	Vol.	5316	8	F	6	2		4713	3	TC71					9	[2]27, [3]51, [2]47, 80	175	2-8,9
	Tone	5635	44	MR36				5414	3	TC71								
25B (251B, 253B, 254B)	Vol.	5587	15	MR15	M26			5608	3	TC71					9	[2]27, [3]51, [2]47, 80	175	2-10,15
	Tone	5634	44	MR39				4713	3	TC71								
								.15 mf		See Note	B9							
								.35 mf		See Note	B12							
30 (31)	Vol.	3638	24	DRP122	6	See Note A24		2-3	1	See Note	B1				6	[2]24, [2]45, 80		1-16
								.1		See Note	B9							
35 (351, 353)	Vol.	5723	15	MR15	M26			4713	1	TC71					10	[2]27, [3]51, [2]45, 80	175	2-12,15
	Tone	5743	22	MR18				5806	1	TC71	B1							
								.15		See Note	B9							
								.35		See Note	B12							
44, 49 (Chassis 440)	Vol.		6	F7	6	3		10536	1/15	2N518/TC22					4	6A7, 6F7, 41, 6Z5	456	4-12
50 (51, 52)	Vol.	3169	24	DRP122				3-2	1	See Note	B1				8	[2]27, [2]24, [2]45, 80	175	1-18,19
								.09		See Note	B9							
F50	Vol.		15	MR44	M26			16-16-10-20	2/15	2S569/TN111	B3				10	[2]56, [2]58, [2]47, 82	175	5-1
	Tone		22	MR44														
55 (56, 57, 58)	Vol.	4682	6	G7	6	2		6501	4	TCS71					6	24, 27, [2]35, 47, 80	175	3-1,2
	Tone	5214	22	MR35														
55, 59 (Chassis 500)	Vol.		17	MR44	M26			10827	1/15	2N518/TC22					5	6A7, 6F7, 6B7, 42, 80	456	4-24
58 (Chassis 10)								6433	1	2N518					3	[2]24, 80	1000	3-14
60 (61, 62)	Vol.	4098	7	Order from	Mfr.			2-2-2-1	3	See Note	B1				9	27, [2]51, [2]24, [2]45, 80	175	1-20,22
								4-3-3-1	3	See Note	B1							
								.07		See Note	B9							
								.25		See Note	B12							
66	Vol.	10003	17	MR44	M26			9979	4	TCS71		10073	Order from Mfr.		6	[2]6E7, 6A7, 6C7, 89, 6Y5	175	4-1,6
	Tone	10004	22	MR33				10067	15	TC22								
								.008-.008		Buffer	B14							
67 (68, 69)	Vol.		18	MR44				16	1	RS216					6	[2]58, 2A7, 55, 2A5, 80	175	
	Tone		22	MR44				8	1	RS213	B3							
								10	15	TC22								
70, 70B (71, 72)	Vol.	105	40	MR18											8	[2]26, 27, [2]71, 80		1-1,2
75 (Chassis 500)	Vol.		17	MR44	M26			10827	1/15	2N518/TC22					5	6A7, 6F7, 6B7, 42, 80	456	4-24
77 (Chassis 330)	Vol.	7236	15	MR44				8721	1	RS216					7	[2]58, 56, 55, 59, 80	175	3-29
	Tone	7316	22	MR44	M26			8722	1	RS213								
								8118	15	TC26								
85, 86 (Chassis 800)	Vol.	11016	127	MR44				11017	25	RS216					8	[2]58, 2A7, [2]4S, 56, 53, 80	175	4-30,31
	Tone	11015	22	MR44	M26			11200	25/13	RM262								
								11099	15	TC26								
90, 90B (91, 92, 93)	Vol.	559	7	MR37				2-2-2-1	2	See Note	B1				8	[2]27, [2]45, 80		1-11,12
	Equal	393	7	Order from	Mfr.			4-4-2-1	2	See Note	B1							2-3

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

† Note: Rider's references will be found under Grigsby-Grunow.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MAJESTIC—Continued																		
95 (Chassis 520)	Vol.	11378	18	MR44	M27										5	‡34, 1A6, 25, 33	175	4-27
100 (101)	Vol.	771	7/63	DRP222		See Note A49		See power supply		9P3, 9P6					7	‡27, ‡45		1-11,
	Equal	393	7	Order from	Mfr.													2-3
100B (102, 103)	Vol.	1714	7/16	Order from	Mfr.			2-2-2-1	2	See Note	B1				8	‡27, ‡45, 80		1-12
	Equal	393	7	Order from	Mfr.			4-4-2-1	2	See Note	B1							
105 (Chassis 520)	Vol.	11378	18	MR44	M27										5	‡34, 1A6, 25, 33	175	4-27
110	Vol.	5072	15	MR41											7	‡36, ‡37, ‡38		2-17,4-7
114	Vol.	8695	8	MR44				8	1	TC71					6	‡39, ‡38, 85	175	3-48,4-8
								8286	15	TC22								
								7784-2	15	TC26								
116 (Type 1)	Vol.	9825	33	MR44				9337	4	TCS71			Order from	Mfr.	6	57, ‡58, 75, 89, 6Z5	175	3-44,45
116 (Type 2, 3)	Vol.	9825	33	MR44				9337	4	TCS71			Order from	Mfr.	6	57, ‡58, 85, 89, 6Y5	175	3-46
116 (Type 4)	Vol.	9825	33	MR44				9979	4	TCS71			Order from	Mfr.	6	57, ‡58, 75, 89, 6Z5	175	3-47
118, 118P	Vol.	10391	17	SRP251				10369	4	TCS71			Order from	Mfr.	6	‡6E7, 6A7, 6C7, 42,		
								10488	15	TC22						6Y5	175	5-2
120 (121)	Vol.	4762	24	GG	7										6	30, ‡32, 33	175	2-18,19
120B (123)	Vol.	4760	24	GG											6	30, ‡32, 33	175	§6-10
130A (131, 132, 133)	Vol.	890	8	A1MP				2-2-2	3	See Note	B1				7	‡24, ‡45, 80		1-13
								4-4-2	3	See Note	B1							
150	Vol.	8394	6	G7	6	3		5414	4	TC71					5	‡24, 51, 47, 80	175	2-21
	Tone	5214	22	MR35				8385	4	TCS71								
	Phono.	5464	63	W														
151, 153, 154, 155, 156 (Chassis 15)	Vol.		6	G7	6	3		5414	4	TC71					5	‡24, 51, 47, 80	175	2-4,6
	Tone		22	MR33				8385	4	TCS71								
160 (163)	Vol.	4098	8	Order from	Mfr.			2-2-2-1	3	See Note	B1				9	27, ‡51, ‡24, ‡45, 80	175	1-23
								4-3-3-1	3	See Note	B1							
								.07		See Note	B9							
								.25		See Note	B12							
174 (Chassis 570)	Vol.		81	MR44				12038-1	25	RS216					6	‡58, 2A7, 55, 2A5, 80	175	5-3
	Tone		22	MR44	M26			12039-1	25	RS213								
								12026-2	15	TC26/TC22								
180 (181)	Vol.	164	7	DRP222		See Note A49									9	‡27, ‡50, ‡81		1-8,10
194 (Chassis 440)	Vol.		6	F7	6	3		10536	1/15	2N518/TC22					4	6A7, 6F7, 41, 6Z5	456	4-12
195 (Chassis 500)	Vol.	10868	15	MR44	M26			10827	1/15	2N518/TC22					5	6A7, 6F7, 6B7, 42, 80	456	4-24
200 (201, 203, 204)	Vol.	6284	15	MR18				6277	28	3S584					8	‡35, 27, G2S, 47, 80	175	3-3,6
	Tone	6286	22	MR33	M26													
204 Chassis 10, (Chassis 200)	Vol.	6284	15	MR18				6277	28	3S584					11	‡35, 27, G2S, 47, ‡24,		
	Tone	6286	22	MR33	M26			6433	1	2N518						‡80	175	3-3
210 (211, 214, 215)	Vol.	6115	15	MR44				4713	3	TC71					10	‡35, ‡27, ‡47, 80, G2S	175	3-7,9
	Tone	6157	44	MR39	M26			6324	3	TC71								
220 (221, 223)	Vol.	6585	15	MR44				4713	3	TC71					12	‡27, ‡35, ‡50, ‡81, G2S	175	3-10,13
	Tone	6586	22	MR34	M26													
230A (233 Comet)	Vol.	1316	8	Order from	Mfr.			2-2-2	3	See Note	B1				7	‡24, ‡45, 80		1-13
								4-4-2	3	See Note	B1							
251, 253, 254 (Chassis 25)	Vol.	5316	8	F	6	2		4713	3	TC71					9	‡27, ‡51, ‡47, 80	175	2-8
	Tone	5635	44	MR36				5414	3	TC71								
251B, 253B, 254B (Chassis 25B)	Vol.	5587	15	MR15	M26			5608	3	TC71					9	‡27, ‡51, ‡47, 80	175	2-10
	Tone	5634	44	MR39				4713	3	TC71								
								.15		See Note	B9							
								.35		See Note	B12							
290 (291, 293, 294)	Vol.	7236	15	MR44				7173	2	TC71					9	‡53, 56, 57, 47, 82, 4S	175	3-16,17
	Tone	7235	22	MR33	M26			7278	14	TCS52								
	Supp.	7369	12	E12				7402	15	TC22								
294 (Chassis 10, Chassis 290)	Vol.	7236	15	MR44				7173	2	TC71					12	‡58, 56, 4S, 57, 47, ‡24,		
	Tone	7235	22	MR33	M26			7278	14	TCS52						‡80	175	3-14,16
	Supp.	7369	12	E12				7402	15	TC22								
								6433	1	2N518								
300, 300A (303, 304, 307)	Vol.	7236	15	MR44				7489	2	TC74					11	‡58, 56, ‡57, ‡47, 82, G4S	175	3-18,20
	Tone	7316	22	MR44	M26			7278	14	TCS52								
	Supp.	7427	12	MR24				7402	15	TC22								
								7784	15	TC26								
310A (311)	Vol.	7236	15	MR44				7824	1	3S584	B8				7	‡58, 55, 56, 47, 80	175	3-21,24
	Tone	7235	22	MR33	M26			8118	16	TC26								
310B (314, 315)	Vol.	7236	15	MR44				7824	1	3S584	B8				7	‡58, 56, 55, 47, 80	175	3-22,25
	Tone	7235	22	MR33	M26			8118	16	TC26								
								7402	15	TC22								
320 (324)	Vol.	7236	15	MR44				7489	2	TC74					12	‡58, 56, ‡57, ‡47, 82, ‡4S	175	3-26,28
	Tone	7316	22	MR44	M26			7988	14	TC71								
	Supp.	7427	12	MR24				7784	15	TC26								
								7402	19	TC22								
330 (331, 336, 77)	Vol.	7236	15	MR44				8721	1	RS216					7	‡58, 56, 55, 59, 80	175	3-29,30
	Tone	7316	22	MR44	M26			8722	1	RS213								
								8118	15	TC26								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MAJESTIC—Continued																		
340, 340B (344)	Vol.	9006	15	MR44				8722	3	RS213					11	56,‡58,‡57,‡59, 82, 55	175	3-31,32
	Tone	9005	22	MR44	M26			8721	3	RS216								
	Supp.	9079	12	MR24				7988	14	TC71								
								9019	19	TC22								
								8118	15	TC26								
351, 353 (Chassis 35)	Vol.	5723	15	MR15	M26			4713	1	TC71					10	‡27,‡51,‡45, 80	175	2-12
	Tone	5743	22	MR18				5806	1	TC71	B1							
								.15		See Note	B9							
								.35		See Note	B12							
360 (363)	Vol.	9006	45	MR44				8721	2	RS216					11	‡58,‡56,‡57,‡59, 82	175	3-33,35
	Tone	9005	22	MR44	M26			7988	14	TC71								
	Supp.	9079	12	MR24				8118	18	TC26								
								9019	19	TC22								
370 (371, 373)	Vol.	9231	6	MR24	M26	EX250		9219	1	2N518					5	‡57, 58, 59, 80	456	3-36,38
								9019	15	TC22								
380 (381)	Vol.	8759	6	MR35	M26	EX250		8755	1	2N518					4	57, 58, 89, 84		3-39
								8774	15	TC22								
390 (393)	Vol.	9006	17	MR44				8722	1	RS213					8	‡56,‡58, 55, 53, 80	175	3-40,41
	Tone	9005	22	MR44	M26			8721	1	RS216								
								8118	15	TC26								
400 (411, 413)	Vol.	9663	6	MR24	M26	EX250		9661	6/15	2N509/TC22					5	‡57, 58, 43, 25Z5	456	3-42
400A (411A, 413A)	Vol.	9663	6	MR24	M26	EX250		9661	6/15	2N509/TC22					5	‡6D7, 6E7, 43, 25Z5	456	4-10
440 (44, 49, 194)	Vol.		6	F7	6	3		10536	1/15	2N518/TC22					4	6A7, 6F7, 41, 6Z5	456	4-11,12
460 (461, 463)	Vol.	10183	18	MR44				10207	1	RS216					6	‡58, 2A7, 55, 2A5, 80	175	4-13,14
	Tone	10242	22	MR44	M26			10193	1	RS213								
								10208	15	TN111								
490 (491, 493)	Vol.	10664	18	MR44				10630	4/15	TCS71/TC22			Order from Mfr.		6	‡6E7, 6A7, 85, 42, 6Y5	175	4-15,21
	Tone	11597	22	MR44	M26			10946	18	TN111			F294	C11				
								.008-.008		Buffer	B14							
500 (55, 59, 75, 195, 560, 566)	Vol.	10868	15	MR44	M26			10827	1/15	2N518/TC22					5	6A7, 6F7, 6B7, 42, 80	456	4-23,24
520 (95, 105)	Vol.	11378	18	MR44	M27										5	‡34, 1A6, 25, 33	175	4-25,29
570	Vol.	12041	18	MR44				12038-1	25	RS216					6	‡58, 2A7, 55, 2A5, 80	175	5-3
	Tone	12040	22	MR44	M26			12039-1	25	RS213								
								12026-2	15	TC26/TC22								
600 AC-DC	Vol.	11535	17	MR44	M26			16-8	6	2N509					6	6A7, ‡6E7, 6C7, 43, 25Z5	456	5-4
								10	15	TC22								
800 (85, 86, 998)	Vol.	11016	127	MR44				11017	25	RS216					8	‡58, 2A7, 56, 53, 80,‡4S	175	4-30,31
	Tone	11015	22	MR44	M26			11200	13	RM262								
								11099	15	TC26								
998	Vol.	11016	127	MR44				11017	25	RS216					8	‡58, 2A7,‡4S, 56, 53, 80	175	4-30,31
	Tone	11015	22	MR44	M26			11200	25/13	RM262								
								11099	15	TC26								
MAJESTIC RADIO AND TELEVISION																		
P1A50, P1A50B	Vol.	Y-VC-30	18	MR48	M26			Y-CE-43	1/19	3S584/TC26					5	6A7, 6D6, 75, 41, 80	455	11-1
T081A, T081B	Vol.		18	UM154	M27		A96	CE-35	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	13-1
T081C, T081D	Vol.		18	UM154			A96	CE-35	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	13-1
T101L-A	Vol.		18	MR48	M26			Y-CE-66-1	24	Order from Mfr.					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z4 or 35Z5	455	13-2
T101L-X	Vol.		18	MR48	M26			Y-CE-66-1	24	Order from Mfr.					5	12SA7, 12SK7, 12SQ7 50L6, 35Z4 or 35Z5	455	13-2
T102L-A	Vol.		18	MR48	M26			CE-66-1	24	Order from Mfr.					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z4 or 35Z5	455	13-2
T102L-X	Vol.		18	MR48	M26			CE-66-1	24	Order from Mfr.					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z4 or 35Z5	455	13-2
T121A, T121X	Vol.	Y-VC-21	18	MR48	M26			Y-CE-43	1/19	TCD74/TC26					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3	455	13-3
T122-A	Vol.	Y-VC-21	18	MR48	M26			CE-43-A	1/19	TCD74/TC26					5	6K8, 6SK7, 6SQ7, 6K6, 5Y3	455	13-3
T122-X	Vol.	Y-VC-21	18	MR48	M26			CE-43-A	1/19	TCD74/TC26					5	6K8, 6SK7, 6SQ7, 6K6, 5Y3	455	13-3
T131-A	Vol.	Y-VC-21	18	MR48	M26			Y-CE-43	1/19	TCD74/TC26					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3	455	13-3
T131-X	Vol.	Y-VC-21	18	MR48	M26			Y-CE-43	1/19	TCD74/TC26					5	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 5Y3G	455	13-3
T132-A	Vol.	Y-VC-21	18	MR48	M26			CE-43-A	1/19	TCD74/TC26					5	6K8, 6SK7, 6SQ7, 6K6, 5Y3	455	13-3
T132-X	Vol.	Y-VC-21	18	MR48	M26			CE-43-A	1/19	TCD74/TC26					5	6K8, 6SK7, 6SQ7, 6K6, 5Y3	455	13-3
T201-A	Vol.		18	MR48	M26			CE-66	1	Order from Mfr.					6	6SA7, 6SK7, 6SQ7, ‡25L6, 25Z6	455	13-4
T202-A	Vol.		18	MR48	M26			CE-66	1	Order from Mfr.					6	6K8, 6SK7, 6SQ7, ‡25L6, 25Z6	455	13-4
TP221-A	Vol.		18	MR48	M26			CE-66	1	Order from Mfr.					6	6SA7, 6SK7, 6SQ7, ‡25L6, 25Z6	455	13-4
TP231-A	Vol.		18	MR48	M26			CE-66	1	Order from Mfr.					6	6SA7, 6SK7, 6SQ7, ‡25L6, 25Z6	455	13-4
	Tone		57	MR44														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MAJESTIC RADIO AND TELEVISION—Continued																		
TR321-A	Vol.		18	MR48	M26			CE-66-2	1	2N511/TC50					7	6SA7, 6SK7, ‡6SQ7, ‡25L6, 25Z6	455	13-8
	Tone		21			See Note A5												
TR331-A	Vol.		18	MR48	M26			CE-66-2	1	2N511/TC50					7	6SA7, 6SK7, ‡6SQ7, ‡25L6, 25Z6	455	13-8
	Tone		21			See Note A5												
Charlie McCarthy 1-2	Vol.	Y-VC-15	18	MR48	M26			40	25	TC48					5	6A8GT, 6K7GT, 25L6GT, 25Z6GT, L49B, 6Q7GT	455	9-1
								16	25	TC45								
1A50A, F, H, AB, FB, HB	Vol.	Y-VC-30	18	MR48	M26			Y-CE-43	1/19	TCD74/TC26					5	6A7, 6D6, 75, 41, 80.	455	11-1
1A59, 1A59B	Vol.	Y-VC-30	18	MR48	M26			Y-CE-51	1	2N518					5	6A7, 6D6, 75, 41, 80.	455	10-1
1B59	Vol.	Y-VC-30	18	MR48	M26			Y-CE-51	1	2N518					5	6A7, 6D6, 75, 41, 80.	455	10-1
1BR50, 1BR50-P	Vol.	Y-VC-41	149			See Note A5		Y-CE-47	24	2N509					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 25Z6GT	455	14-1
								Y-CE-57	78	TC48/TC2501								
1D50-H	Vol.	Y-VC-30	18	MR48	M26			Y-CE-50	1	TC47					5	6A7, 6D6, 75, 25L6G, 25Z5	455	14-2
1D50MB	Vol.	Y-CV-25	17	‡			A5	Y-CE-46	1/‡	3N533					5	6A8G, 6U7G, 6Q7G, 25L6G, 25Z6G	455	11-1
1D59L	Vol.	Y-VC-30	18	MR48	M26			Y-CE-50	1	TC47					5	6A7, 6D6, 75, 25L6G, 25Z5	455	12-1
1M40I, R, W	Vol.	Y-VC-40	18	UM154-SS3	M26			Y-CE-50	1	TC47					4	12SA7GT, 12K7GT, 12Q7GT, 70A7GT	455	11-3
1S49	Vol.	Y-VC-37	18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	14-2
2A50F, FB, FM, FMB	Vol. & Tone	Y-VC-33	18/57	Order from Mfr.				Y-CE-43	1/19	3S584/TC26					5	6A7, 6D6, 75, 41, 80.	455	11-5
2C60	Vol. & Tone	Y-VC-33	18/‡	Order from Mfr.				Y-CE-43	1	3S584					6	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G	455	12-3
2C60AP	Vol. & Tone	Y-VC-33	18/‡	Order from Mfr.				Y-CE-43	1	TCD74/TC26					6	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G	455	12-2
2C60P	Vol. & Tone	Y-VC-42	18/‡	Order from Mfr.				Y-CE-60	1	TCD74					6	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G	455	12-3
2D60	Vol.	Y-VC-21	18	MR48	M26			CE-46	1/15	3N533					5	6K8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6G	455	12-1
2D69	Vol. & Tone	Y-VC-33	18/‡	Order from Mfr.				Y-CE-46	1/19	TN129					6	6K8G, 6U7G, 6Q7G, 6AE5G, 25AC5G, 25Z6G	455	14-3
3C69, 369	Vol. & Tone	Y-VC-35	18/‡	Order from Mfr.				CE-52	1	2S569					6	6SA7, 6SK7, 6Q7G, 76, 6AC5G, 5Y3G	455	14-4
3C70	Vol. & Tone	Y-VC-35	18/‡	Order from Mfr.				Y-CE-52	1	TCD74					7	6SA7, 6SK7, 6Q7G, 76, 6AC5G, 5Y3G, 6U5	455	11-6
3C80, 3C80P	Vol. & Tone	Y-VC-39	18/‡	Order from Mfr.				Y-CE-52	1	TCD74					8	6K8G, ‡6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5	455	11-7
3SC80, 3SC80B	Vol. & Tone	Y-VC-39	18/57	Order from Mfr.				Y-CE-52	1	TCD74					8	6K8G, ‡6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5	455	11-8
3C90	Vol. & Tone	Y-VC-39	18/57	Order from Mfr.				Y-CE-52	1	TCD74					9	6K8G, ‡6U7G, ‡6Q7G, ‡6K6G, 5Y3G, 6U5.	455	11-9
3SC90	Vol. & Tone	Y-VC-39	18/57	Order from Mfr.				Y-CE-52	1	TCD74					9	6K8G, ‡6U7G, ‡6Q7G, ‡6K6G, 5Y3G, 6U5.	455	11-9
4B22	Vol.		18	MR48	M27			CE-35	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	13-1
4C10	Vol.	Y-VC-43	18	MR48	M27			CE-35	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	12-1
4PWO	Vol.	Y-VC-36	151	‡			A5	Y-CE-54	1/15	See Note	B3				4	12Q7GT, 50L6GT, 12SA7GT, 35Z5GT		11-10
5BD, 5BDR	Vol.	Y-VC-38A	18	‡			A5	CE-62	24/13/78	FP407					5	1A7GT, 1N5GT, 1H5GT, 1D8GT, 70L7GT	455	12-5
5ADA	Vol.	Y-VC-30	18	MR48	M26			Y-CE-43	1/15	TCD74/TC26					5	6A7, 6D6, 75, 41, 80.	455	12-4
5BDA, 5BEA	Vol. & Tone	Y-VC-33	18/57	Order from Mfr.				Y-CE-43	1/19	TCD74/TC26					5	6A7, 6D6, 75, 41, 80.	455	11-11

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MAJESTIC RADIO AND TELEVISION—Continued																		
5CAA	Vol.	Y-VC-21	18	MR48	M26			CE-46	1/15	3N533					5	6K8GT, 6K7GT, 6Q7GT, 25L6G, 25Z6G	455	12-1
5CDC, 5CEC	Vol.		18	MR48	M26			Y-CE-43	1/15	TCD74/TC26					5	6SA7GT, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	14-5
5C36	Vol.		18	MR48	M26			20-20	1	TCD45					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	14-6
5CU36	Vol.		18	MR48	M26			20-20	1	TCD45					6	[2]12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-5
5T, 5TO	Vol.	Y-VC-21	18	MR48	M26			Y-CE-55	1	2N514					5	12SA7GT, 12K7GT, 12Q7GT, 50L6GT, 35Z4GT	455	11-12
5T10, 5T10W	Vol.		18	MR48	M26			20-40	1	2N514					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-1
5TUIO, 5TUIOW	Vol.		18	MR48	M26			20-40	1	2N514					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	14-6
5ULBD	Vol.	Y-VC-38A	18	‡			A5	CE-62	24/13/78	FP407					5	1A7GT, 1N5GT, 1H5GT, 1D8GT, 70L7GT	455	12-5
6C35	Vol.		18	MR48	M26			20-20	1	TCD45					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-6
6UL51	Vol.	Y-VC-21	18	MR48	M26			Y-CE-40 Y-CE-39	1 1	TC45 TC48					5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-10
7C40, 7CU40	Vol. & Tone	M1377	18/22	Order from	Mfr.			20-40	1	2N514					8	6SK7, 6SA7, 7E7, [3]7F7, [3]25L6, 25Z6	455	13-7
42	Vol.	Y-VC-16	6	MR33		EX300		16, 16	1	TC45					4	6K7, 6J7, [3]25L6		9-1
50 (1937)	Vol.	B16970	6	MR33	M26			B16973 B17042	4 4	RS207 RS207					4	6D6, 6C6, 43, 25Z5		8-1
51B, 51P, 51W (Ch. 151)	Vol.	Y-VC-2	6	MR33				Y-CE-2	4	TC47					4	6D6, 6C6, 25L6G, 25Z5, BK55B		10-3
52	Vol.	Y-VC-15	18	MR48	M26			16 40	25 25	TC45 TC48					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	9-1
55B, P, W (Ch. 155)	Vol.	Y-VC-2	6	MR33				Y-CE-4	1/15	3N533					4	6A7, 6C6, 25L6G, 25Z5, BK55B	455	10-4
56 (Ch. 156)	Vol.		18	MR48				16-8-10	1/19	TCD74/TC26					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3G	455	10-5
60 (1937)	Vol.	B17010	17	MR53				B17041-3	4	RS224					5	6A8G, 6K7G, 6Q7G, 25B6G, 25Z6G	456	8-2
	Tone	B17047	‡	MR44	M26			B17197	4	RS224								
62A	Vol.	Y-VC-18	18	MR53				CE43	1/19	TCD74/TC26					6	6A7, 6D6, 75, 41, 80, 76	455	9-2
65, 66 (1937)	Vol.	B16542-2	18	MR53	M26			B16466	4	RS216					6	6A8G, 6K7G, 6Q7G, 6G5, 6K6G, 5Y3	456	7-1
	Tone	B16540-2	22	MR42				B16467-2	4	RS213								
67, 68 (Ch. 167, 1673)	Vol.		15	‡		See Note A19		‡	1	See Note	B3				6	6A8G, 6U7G, 6J5G, 6F5G, 6K6G, 5Y3G	455	10-6
69 (Chassis 169)	Vol.	Y-VC-3	17	Order from	Mfr.			Y-CE-24	4	TC55		Y-V-1	859	C3	6	6D8G, 6S7G, 6T7G, 6N5, 6K6G, 6ZY5G	455	14-7,8,9
	Tone	Y-TC-2	57			See Note A3		.007		Buffer	B14							
75, 76 (1937)	Vol.	B16542-2	18	MR53	M26			B16466	4	RS216					7	6L7G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3, 6C5G	456	7-2,8-5
	Tone	B16540-2	34	MR42				B16467	4	RS213								
85, 86	Vol.	B16542-2	18	MR53	M26			A-15236-3	25	RS223					5	6C5G, [3]6F6G, 6G5, 5Y3	456	7-3
	Tone	B16539-2	44	Order from	Mfr.			A-15237-2	25	RS215								
130, 130U	Vol.		18	MR48				CE-58	12	TC40					3	1A7GT, 1N5GT, 1D8GT	455	
140	Vol.	Y-VC-15	18	MR48	M26			Y-CE-56	1	See Note	B3				4	12SA7GT, 12K7GT, 12Q7GT, 70A7GT	455	11-12
148	Vol.	Y-VC-15	18	MR48	M26			Y-CE-56	1	See Note	B3				4	12SA7GT, 12K7GT, 12Q7GT, 70A7GT	455	11-12
149I, 149N, 149W	Vol.	Y-VC-29	18	MR48	M26			Y-CE-50	1	TC47					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	10-1
150L	Vol.	Y-VC-29	18	MR48	M26			Y-CE-46	1/15	3N533					5	12SA7GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-13
167	Vol.		20	‡			A19	16-16	1	2S569					6	6A8G, 6U7G, 6J5G, 6F5G, 6K6G, 5Y3G	455	
	Tone		‡	MR44				12	15	TC22								
250, 250M	Vol.	Y-VC-21	18	MR48	M26			Y-CE-55	1	2N514					5	12SA7GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	12-1

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MAJESTIC RADIO AND TELEVISION—Continued																		
260	Vol. & Tone	Y-VC-33	18/‡	Order from Mfr.				Y-CE-43	1	TCD74/TC26					6	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G	455	12-2
310UL	Vol.		18	MR48				CE-58	12	TC40					3	1A7GT, 1N5GT, 1D8GT	455	11-14
360	Vol. & Tone	Y-VC-35	18/‡	Order from	Mfr.			Y-CE-52	1	TCD74					7	6SA7, 6SK7, 6Q7G, 76, 6AC5G, 5Y3G, 6U5	455	11-6
380	Vol. & Tone	Y-VC-39	18/‡	Order from	Mfr.			Y-CE-52	1	TCD74					8	6K8G, ²6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5	455	11-7
390	Vol. & Tone	Y-VC-39	18/57	Order from	Mfr.			Y-CE-52	1	TCD74					9	6K8G, ²6U7G, ²6Q7G, ²6K6G, 5Y3G, 6U5	455	11-9
410	Vol.	Y-VC-43	18	MR48	M27			CE-35	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	12-1
410-A	Vol.	Y-VC-26	18	MR48	M27			CE-35	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	14-10
410C, 410D, 410E	Vol.		18	UM154	M27		A96	CE-35	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	13-1
419B	Vol.	Y-VC-26	18	MR48	M27			CE-35	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-14
420, 420PL	Vol.	Y-VC-26	18	MR48	M27			CE-35	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-14
421, 421PL	Vol.	Y-VC-26	18	MR48	M26			CE-35	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-14
431X	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	14-6
511, 511A, 519P, 519PA	Vol.	Y-VC-17	18	MR48				CE-34	1	TC62					5	6A7, 6D6, 75, 41, 80	455	9-3
								Y-CE-43	1/19	TCD74/TC26	B10							
551	Vol.	Y-VC-11	18	MR53				CE-38	1	TC62					5	6A7, 6D6, 75, 41, 80	455	9-3
620	Vol.	B17010	15	MR53				B16466	25	RS216					5	6A8G, 6K7G, 6H6G, 6K6G, 5Y3G	456	8-4
	Tone	B17047	‡	MR44				B16467-2	25	RS213								
639, 639B	Vol.	Y-VC-19	18	MR48				CE43	1/19	TCD74/TC26					6	6A7, 6D6, 75, 41, 80, 6J5	455	9-4
650 (1937)	Vol.	B16542-2	18	MR53	M26			B16466	4	RS216					6	6A8G, 6K7G, 6Q7G, 6K6G, 6G5, 5Y3	456	7-1,8-5
	Tone	B16540-2	34	MR42				B16467-2	4	RS213								
651EB	Vol.	Y-VC-21	18	MR48	M26			Y-CE-46	1/19	3N533					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	455	10-7
670, 671, 672, 673 (Ch. 167, 1673)	Vol.		18	‡		See Note	A19	‡	1	See Note	B3				6	6A8G, 6U7G, 6J5G, 6F5G, 6K6G, 5Y3G	455	10-6
690 (Chassis 169)	Vol.	Y-VC-3	17	Order from	Mfr.			Y-CE-24	4	TC55		Y-V-1	859	C3	6	6D8G, 6S7G, 6T7G, 6N5, 6K6G, 6ZY5G	455	14-7,8,9
	Tone	Y-TC-2	57			See Note	A3	.007		Buffer	B14							
699P	Vol.	Y-VC-22	18	‡			A19	Y-CE-7	1/19	TCD74/TC26					6	6A7, 6D6, 75, 41, 6J5, 80	455	11-15
739	Vol.	Y-VC-6	20	‡		See Note	A19	CE7	1/15	3S579					7	6K8, 6K7, 6J5G, 6Q7, 6K6G, 6U5, 5Y3G	455	9-5
	Tone	Y-TC-1	21	‡		See Note	A3											
750 (1937)	Vol.	B16542-2	18	MR53	M26			B16466	4	RS216					7	6C5G, 6L7G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3	456	7-2,8-5
	Tone	B16540-2	34	MR42				B16467	4	RS213								
800	Vol.	B17411	17	MR53				B17041-3	28	RS224					7	6A8G, 6K7G, 6Q7G, 25L6, ²25Z6G, 6G5	456	8-7
	Tone	A17408	22	MR21	M26			B17197	28	RS224								
								B17042	28	RS207								
850 (1937)	Vol.	B16542-2	18	MR53	M26			A15236-3	25	RS223					8	6A8G, 6K7G, 6Q7G, 6C5G, 6G5, ²6F6G, 5Y3	456	7-3,8-5
	Tone	B16540-2	44	MR12				A15237-2	25	RS215								
939	Vol.		17	‡		See Note	A19	‡	1	See Note	B3				9	²6K7, 6K8, 6U5, 6Q7, 6J5G, ²6K6G, 80	455	9-7
1050	Vol.	B16553-2	17	MRT448	M26			B16554-2	1	RS223					10	²6K7G, 6L7G, 6Q7G, 6C5G, 6G5, ²6F6G, 5Z3	456	7-4
	Tone	B16540-2	22	MR42				B15427	1	RS216								
								B16551-3	15	TN111								
1056X	Vol.	Y-VC-5	18	‡		See Note	A19	Y-CE-10	1/15	TCD74/TC26					10	6J7G, 6A8G, 6J5G, ²6U7G, ²6Q7G, 6V6G, 6U5, 5Y3G	455	10-9
								CE-25	1	TC22								
1058X	Vol.	Y-VC-5	18	‡		See Note	A19	Y-CE-10	1/15	TCD74/TC26					10	6J7G, 6A8G, 6J5G, ²6U7G, ²6Q7G, 6V6G, 6U5, 5Y3G	455	10-5
								CE-25	1	TC22								
1250	Vol.	B16565-2	15	TM234-SS1	M26			B16613-2	1	2S569					12	²6K7G, 6L7G, 6H6G, ²6C5G, 6G5, 6F5G, ²6L6G, 5Z3	456	8-9
	Tone	B16566-2	22	MR55				B16614-3	14/15	TCS71								
1356X (Ch. 11356X)	Vol.		15	MR53	M26			Y-CE-15	1	RS223					13	²6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, ²6F5G, ²6V6G, 6U5, 5X4G	455	10-11
								Y-CE-13	1	RS224								
								Y-CE-23	13/15	TC55/TN111								
								CE-26	13	TC70								
1656-S	Vol.	Y-VC-9	45	MR53	M26			Y-CE-13	1	RS224					15	²6U7G, 6A8G, 6U5, ²6J5G, ²6Q7G, ²6AC5G, 5X4G	455	14-9, 11, 12
								Y-CE-15	1	RS223								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MAJESTIC RADIO AND TELEVISION—Continued																		
1656X (Ch. 11656X)	Vol.	Y-VC-9	15	MR53	M26			CE-15	‡	RS223					16	[3]6U7G, 6L7G, 6J5G, 6B8G, 6J7G, 6H6G, 6A8G, 6Q7G, [2]6F5G, [2]6L6G, 5X4G, 6U5	455	10-12
	A.F.C.	Y-PA-12	8	UC500				CE13	‡	RS221								
								B17012	13	RS207								
								CE-22	‡	ST599								
								CE-27	13	TC70								
								CE-25	15	TC22								
1673	Vol.		20	‡			A19	16-16	1	28569					6	6A8G, 6U7G, 6J5G, 6F5G, 6K6G, 5Y3G	455	
	Tone		‡	MR41				12	15	TC22								
Chassis 1870	Vol.		15	‡		See Note A19		16-12	1	28569					8	[3]6U7G, 6A8G, 6G5, 6J5G, 6F5G, 6K6G, 5Y3G	455	10-8
	Tone		21	MR41														
11056, 11058	Vol.	Y-CV-5	18	MR18				16-16-10	1/15	TCD74/TC22					10	[3]6U7G, 6A8G, 6J5G, [2]6Q7G, 6V6G, 6G5, 5Y3G	455	9-9
								[illegible]	15	TC22								
11356	Vol.	Y-VC-9	127	MR53	M26			Y-CE-13	1	RS224					12	[3]6U7G, 6L7G, 6J5G, 6H6G, 6G5, 6Q7G, [2]6F5G, [2]6V6G, 5X4G	455	9-11
								Y-CE-15	1	RS223								
								Y-CE-23	14/15	TC55/TN111								
								CE-26	13	TC70								
11656	Vol.	Y-VC-9	45	MR53	M26			CE15	22	RS223					16	[3]6U7G, 6L7G, 6J5G, 6B8G, [2]6F5G, [2]6L6G, 6J7G, 6A8G, 6H6G, 6G5, 6Q7G, 5X4G	455	9-13
	Sen.	Y-PA-12	7	UC500				CE13	22	RS221								
								B17042	14	RS207								
								CE25	15	TC22								
								CE27	13	TC70								
P. R. MALLORY & CO.																		
VF223								101523	1/13	FP390								
"Vibrapacks"																		
VP540								101650	1	See Note	B125		725C					
								A40980-3		Buffer	B125							
VP551								A40980-1		Buffer	B125		725C					
VP552								A40980-1		Buffer	B125		725C					
VP553								A40980-1		Buffer	B125		825C			6X5		
VP554								A40980-1		Buffer	B125		825C			0Z4 or 6X5		
VP555								A40980-6		Buffer	B125		825C		2	[3]0Z4 or [3]6W5G		
								101411	‡	On Order	B125							
VP-G556								A40980-1		Buffer	B125		G725C					
VP557								A12086-1		Buffer	B125		825C		2	[3]6X5		
								X-26080	‡	On Order	B125							
VP-F558													F826C			0Z4		
MARCONIPHONE																		
"Vanity" (1937)	Vol.		18	MR18				25-16-8	6/13	See Note	B3				6	6A7, 78, 75, 6G5, 43, 25Z5, L42E		
	Tone		22	MR33				5-5	15	TN111							456	10-1
"Vanity" (1938)	Vol.		75	MR48				25, 25	1	TC47					8	6A7, 6D6, 76, 6G5, [2]43, 6G5, 25Z5, D9085	456	10-1
								5	15	TC22								
D, DE (1937)	Vol.		18	MR18				16, 16, 10	6	TN129					7	[3]6D6, 6A7, 6R7, [2]43, 25Z5, L17D	175	10-2
	Phono.		63	MR33				25	12	TC17								
D8 (1938)	Vol.		18/7	DRP311	6			40	1	TC18					7	[3]6D6, 6A7, 6R7, [2]43, 25Z5, E658A	175	10-3
	Tone		41	MR48				25	1	TC17								
	Phono.		63	MR33				30	15	TC29								
D10 (1938)	Vol.		18 7	DRP311	6			40	1	TC18					9	[3]6D6, 6A7, 6H6, 6G5, 6R7, [2]43, 25Z5, E658B	175	10-4
	Tone		41	MR48				25	1	TC47								
	Phono.		63	MR39				30	15	TC29								
D11	Vol.		18	MR18	M26			32-32	63	See Note	B3				7	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 6F5, [2]25Z6G	456	§11-5
	Tone		22	MR33				12	63	See Note	B3							
MEISSNER																		
8	Vol.		15	MR18	M26			8, 8, 8	3	RS213					8	[2]6K7, 6A8, 6C5, 6H6, 6F5, 6F6, 5Z4	‡	
	Tone		22	MR19				10	15	TC22								
	Sen.		7	MR28														
9-1047A								60, 60	24	TC50					8	[2]6SK7, 6SA7, 6SJ7, 6H6, 6U5G, 6X5GT	1.3 mc	11-1.2
9-1067	Vol.	19867	15	MR18	M26			24131	46	FP371					11	[3]7G7, 6SA7, [2]6SJ7GT, [2]6H6GT, 7N7, 6U5, 6X5GT	456 AM 4.3 FM	14-3-6
	Treble	19866	‡	MR55				15192	15	TC22								
	Bass	19885	‡	MR18														
METEOR—See Airking																		
MID-WEST RADIO CORP.—"Miraco"																		
AC6 '33 Model	Vol.		83	MR18	M26			4-4	25	TC871					6	55, 56, [2]58, 59, 80	450	
AC6 Midget	Vol.		6	G7	6	2		8-8	1	See Note	B3				6	[2]24, 27, 45, 80		
	Tone		22	MR18														
AC8 ('32)	Vol.		83	MR48	M26			8, 8	1	RS213					8	55, 56, 57, [2]58, [2]A5, 80	450	
	Tone		22	MR33														
AC8-33 (4 Bands)	Vol.		83	MR48	M26			8-8	1	2N518					8	57, 56, [2]58, 55, [2]A5, 80	450	8-27
	Tone		‡	MR18														
AC8 ('33) 5 Bands	Vol.		83	MR18	M26			8-8	1	2N518					8	55, 56, 57, [2]58, [2]59, 80	456	8-27
	Tone		‡	MR18														
AC9 (ISG, 227 Type)	Vol.		7/12	‡		See Note A5		2-2-2	3	See Note	B3				9	24, [2]27, [2]45, 80		
								1		See Note	B9							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MID-WEST—Continued																		
AC9-4SG	Vol.		6	MR21				8, 8, 8	28	RS213					9	[4]24,[4]27,[4]45, 80		3-2
	Tone		22	MR18														
AC9 Pentode Super (2 Types)	Vol.		62	MR18				8-8	4	See Note	B3				9	24,[4]27,[4]35,[4]47, 80	175	3-4
	Tone		22	MR48		See Note A27												
	Tone		22	MR39		See Note A4												
AC9 T.R.F.	Vol.		14	‡		See Note A5		4-2-2-1	3	See Note	B1				9	[5]26, 27,[4]71A, 80		3-4
AC10	Vol.		6	MR18				8-8	1	See Note	B3				10	[5]24,[4]27,[4]45, 80	175	
	Tone		41	MR18														
AC11 '31	Vol.		‡	UC513				8-8	4	See Note	B3				11	[3]35,[3]24,[4]27,[4]47, 80	175	3-4
	Tone		119	MR41														
AC12	Vol.		45	MR18				8	3	RS213					12	55,[6]58,[3]42, 80, 57	450	
	Sen.		7	UC500				8-8	3	See Note	B3							
								25	15	TC26								
Battery 6 Super	Vol.		15	MR18											6	[3]30,[3]34, 19	456	8-5
Battery 7 (2 Volt Model)	Vol.		10	MR41											7	[3]30,[3]31,[3]32		
Battery 8 (Super-2 Volt)	Vol.		76	MR41				24	12	See Note	B3				8	[6]30,[3]34	‡	
	Tone		76	MR41														
C4-1932 Converter								8-8	1	2N518					4	57, 56, 58, 80		9-1
"Imperial"	Vol.		‡	NN				16	3	RS216					18	[6]6D6, [3]6C6, [3]76, 6B7, [3]2A5, 5Z3	456	8-61,63
	Tone		‡	Order from	Mfr.			8	3	RS213								
	Supp.		12	MR33				10	15	TC52								
	Att.		‡	Order from	Mfr.			25	15	TC26								
Miraco 1SG-226	Vol.		25	DRP240				4-2-2-1-1	3	See Note	B1				9	24,[4]26, 27,[4]71, 80		4-1
Miraco 16 Tube ('32)	Vol.		45	MR18	M26			1	1	HS693	B3				16	55,[3]56, 57,[3]58, 42,[3]46, 80, 82	450	3-3
	Tone		22	MR33				8	1	TC82	B3							
	Supp.		7	UC500				4-4-8	3	See Note	B3							
								8	13	RS213								
"Portable" (1940)	Vol.		17	MR33	M27			40-20-10-70	76,78	See Note	B3				5	1A7, 1N5, 1T5, 25Z6, 1H5	456	12-1
P-5	Vol.		119	MR33	M27			10-20-10-70	76/13	Order from	Mfr.				5	1A7, 1N5, 1H5, 1T5, 25Z6	156	14-1
Regal (1936)	Vol.		18	MR18				25	3	RS223					22	[3]6K7, [3]6H6, 6L7, [3]6C5, 6J7, [4]6N6, [5]W1, [3]80, [3]2M2	456	8-65,68
	Tone		‡	MR18				24	3	RS223								
								40	3	RS224								
								20	13	RS216								
								60	15	TC29								
Regal (1937)	Vol.		75	MR48				25	3	RS223					22	[3]6K7, [3]6C5, 6J7, [3]6H6, 6L7, [4]6N6, [3]80, [3]2M2, [5]W1	456	9-18,20
	Tone		‡	MR18				40	3	RS224								
								24	3	RS223								
								60	15	TC29								
								20	13	RS219								
"Royale"	Vol.		75	MR18				16, 16	1	RS216					24	[3]6K7, [3]6C5, [3]6H6, 6J7, [3]6F6, [5]Y3 or [5]Z4	456	7-1,4
	Tone		133	MR39				16, 16	37	RS216								
	Att.		‡	Order from	Mfr.			10	15	TC41								
SW5-36 (AC-DC)	Vol.		6	‡	6	See Note A5		20-12-5	27/15	UR182	B221				5	6A8, 6K7, 75, 43, 25Z5	456	8-1
Z4 Short Wave Converter								8-8	1	See Note	B3				4	24,[4]27, 80	‡	
61DC (110 Volt)	Vol.		56	MR18											6	37,[3]78, 85,[3]43	175	
6-Tube Battery	Vol.		15	MR18											6	[3]34,[3]30, 19	‡	8-5
5-36	Vol.		17	UM154	M26	See Note A96		8-8	1	2N518			294	C3	5	6A7, 6D6, 75, 41, 0Z4	456	9-3
	Tone		22	UM137		See Note A96		.01-.01		Buffer	B14							
6-33	Vol.		83	MR18	M26			4-4	1	TCS71					6	[3]58, 56, 55, 59, 80	450	8-2
6-34	Vol.		83	MR18				8, 8	25	RS213					6	[3]58, 2A7, 2B7, 2A5, 80	450	8-3,4
	Tone		22	MR33														
6-37	Vol.		18	MR18	M26			20-12	27	TCS45					5	6A7, 6D6, 75, 43, 25Z5	456	8-7,8
	Tone		147	MR18														
6-37 (Auto)	Vol.		17	UM154-S817	M26			8-8	1	2N518			294	C3	6	[3]6D6, 6A7, 75, 41, 84	175	8-6
	Tone		22	MR39				5-5	15	TN111								
								.025-.025		Buffer	B14							
6-38 (AC-DC) (Export)	Vol.		18	MR18	M26			20-12	4	TCS45					5	6A8, 6K7, 6Q7, 25B6, 25Z5, L19B	456	8-18
	Tone		147	MR18														
7-36	Vol.		56	MR18				8, 8	25	RS213					7	[3]58, 56, 55, 2A5, 80	456	7-2,4
	Tone		22	MR18														
7-36 (AC-DC)	Vol.		75	MR18	M26			20	63	RS207					7	6A7, 6K7, 6H6, 6F5, 43,[3]25Z5	450	8-9,10
	Tone		22	MR39				12-25-5-5	63/15	2N513, TN111								
7-36 (Batt.)	Vol.		45	MR48				8-20	1	See Note	B3		245	C3	7	1C6,[3]34,[3]30, 19	465	8-11,12
	Tone		22	MR33	M26			.02		Buffer	B14							
7-36 (Metal Tube)	Vol.		56	MR18				8, 8	25	RS213					7	[3]6K7, 6C5, 85, 42, 80	456	
	Tone		22	MR18														
7-37	Vol.		18	MR18	M26			8, 8	25	RS213					7	[3]6K7, 6C5, 6Q7, 6F6, 5Y3	456	8-13,14
	Tone		22	MR33														
7-37 (AC-DC)	Vol.		75	MR18	M26			20	6	RS207					7	6A8, 6K7, 6H6, 6F5, 25A6,[3]25Z6	456	8-15,17
	Tone		22	MR18				10	15	TC22								
7-37 (Batt.)	Vol.		75	MR18				8	1	TC52			245	C3	7	6A7,[3]15,[3]76, 19, 6G5,	465	8-19,20
	Tone		22	MR33	M26			10	15	TC22								
								.02		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MID-WEST—Continued																		
7-38 (AC-DC)	Vol.		18	MR18	M26			12-20	4	TCS45					5	6A8, 6K7, 6Q7, 25B6, 25Z5	456	8-21
	Tone		147	MR48														
7-38 (AC-DC) (Export)	Vol.		18	MR48	M26			20-12	4	TCS45					6	6A8, 6K7, 6Q7, 25B6, 25Z5, 6G5, L49B	456	8-22
	Tone		147	MR48														
7-38 Battery (Export)	Vol.		75	MR48	M26			8-8	1	2N518			245	C3	7	6D8, 6S7, ‡6L5, 6Z7, or 1J6, 6N5	456	8-23
	Tone		22	MR48				10-10	15	TN111								
								.015		Buffer	B14							
7-39	Vol.	C363	45	MRT431	M26			‡	1	See Note	B3	V13	245	C3	7	6A8, 6S7, ‡6L5, 6Z7, 6N5	456	11-1
								.015		Buffer	B14							
8-'31 (Batt.)	Vol.		129	MR44				24	19	TC26					8	‡32, ‡30	‡	8-24
	Tone		129	MR44														
8-38 (AC-DC)	Vol.		18	MR18	M26			12-20	4	TCS45					6	6A8, 6K7, 6Q7, 6G5, 25B6, 25Z5	456	8-29
	Tone		147	MR18														
8-38 (AC-DC) (Export)	Vol.		18	MR18	M26			20-12	4	TCS45					7	6A8, 6K7, 6Q7, 6G5, ‡25B6, 25Z5, K17R	456	8-30
	Tone		21	MR48														
8-38 (Batt.)	Vol.		45	MR18	M26			8-8	1	2N518		45	245	C3	7	6D8, 6S7, ‡6L5, 6N5, 1J6	456	8-31
	Tone		22	MR18				10	15	TC22								
								.015		Buffer	B14							
8-39 (AC-DC)	Vol.	C363	62	MRT431	M26			C240	1	2N509					7	6A8, 6K7, ‡6P5, 6G5, 25L6, 25Z5, L49B	456	10-1
8-39	Vol.	C363	62	MRT431	M26			C243	1	FP231					8	6A8, 6K7, 6H6, ‡6P5, 6AC5G, 6G5, 80	456	9-8
9-31 (3SG)	Vol.		7	MR31				6-2-4	3	See Note	B3				9	‡24, ‡27, ‡45, 80		8-24
	Tone		41	MR48														
9-31 (4SG)	Vol.		6	MR24				8, 8, 8	28	ST595					9	‡24, ‡47, ‡45, 80		8-32
	Tone		22	MR18														
9-32	Vol.		107	MR18				8-8	4	TCS71	B3				9	‡35, 24, ‡27, ‡47, 80	175	8-33
	Tone		39	MR18														
9-34	Vol.		83	MR18				8, 8	1	RS213					9	55, 56, 57, ‡58, ‡2A5, 80	456	6-1
	Tone		149	MR33														
	Sen.		7	UC500														
9-34 (RT9, G9, F9, H9)	Vol.		83	MR18				8, 8	1	RS213					9	‡58, 57, 56, 55, ‡2A5, 80	456	4-2
	Tone		149	MR33				1	12	TC70	B3							
	Sen.		7	UC500														
9-38 (AC-DC)	Vol.		18	MR18	M26			20-12	4	TCS45					7	6A8, 6K7, 6Q7, 6C5, ‡25B6, 25Z5	456	8-34,36
	Tone		39	MR18														
9-38 (AC-DC) (Export)	Vol.		18	MR18	M26			20-12	4	TCS45					7	6A8, 6K7, 6Q7, 6C5, 25B6, 6G5, 25Z5, K17R	456	8-35
	Tone		39	MR48														
10A-33-34	Vol.		62	MR48				8, 8	1	RS213					10	‡56, ‡58, ‡2A5, 80	456	6-5
	Tone		22	MR33				1	12	TC70	B3							
	Sen.		7	UC500														
10-34	Vol.		62	MR48				8, 8	1	RS213					10	‡56, 57, ‡58, ‡2A5, 80	456	6-3,4
	Tone		22	MR33				2	13	TC70	B3							
	Sen.		7	UC500				1	13	TC70	R3							
10-35	Vol.		62	MR48	M26			8	1	RS213					10	‡56, ‡58, ‡2A5, 80	456	6-12,13
	Tone		22	MR33				16	1	RS216								
	Sen.		7	UC500				1	12	TC70								
10-37	Vol.		18	MR48	M27			20	12	RS207					10	‡6K7, 6A7, 85, ‡43, ‡25Z5	456	8-37,38
	Tone		44	MR39	M26			25-12	6	UR182	B18							
	Sen.		7	D														
10-38 (AC-DC)	Vol.		18	MR48	M26			20-12	4	TCS45					8	6A8, 6K7, 6Q7, 6G5, 6C5, ‡25B6, 25Z5	456	8-39
	Tone		39	MR48														
11-31	Vol.		107	MR48	M26			8, 8	4	RS213					11	‡35, ‡24, ‡27, ‡47, 80	175	8-40
	Tone		149	MR44														
11-36	Vol.		75	MR18	M26			16	1	RS216					11	‡6K7, ‡6C5, 6H6, ‡6F6, 5Z4	456	7-3,4
	Tone		21	MR33				8	1	RS213								
								2	14	TC70								
								12	15	TC22								
11-37	Vol.		75	MR18	M26			24	1	RS223					11	‡6K7, ‡6C5, 6H6, ‡6F6, 5Z3	456	8-41,44
	Tone		21	MR18				40	1	RS224								
11-37 (AC-DC)	Vol.		75	MR48	M26			25	1	RS207					11	‡6K7, ‡6C5, 6H6, ‡25B6G, 25Z6	456	8-42,44
	Tone		21	MR18				40	1	RS224								
12-33	Vol.		83	MR48				8	3	RS213					12	‡58, 55, 57, ‡42, 80	450	8-45,46
	QAVC		7	UC500				8-8	3	2N518								
								5	15	TC32								
12-38 (AC)	Vol.		‡	MR18	M26			24	1	RS223					12	‡6K7, 6L7, ‡6C5, 6H6, 6J7, 6C8, ‡6V6, 80	456	8-47,49
								40	1	RS224								
12-38 (Batt.)	Vol.		‡	MRT430				10	15	TC22								
								24	1	RS223			245	C3	12	‡6S7, 6L7, ‡6L5, 6J7, 6H6, 6N5, ‡6K6	456	8-48,49
								25	15	TC26								
12-39	Vol.	C363	‡	MRT431	M26			.005		Buffer	B14							
								24	1	RS223					12	‡6K7G, 6L7G, 6H6G, ‡6P5G, 6J5G, 6J7G, ‡6V6G, 80	456	9-10
								40	1	RS224								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MID-WEST—Continued																		
12-40	Vol.	C363	‡	MRT431	M26			C248	1/15	FP339					12	6A8G, [3]6K7G, 6J5G, 6J7G, 6H6G, [3]6P5G, [3]6V6G, 80	456	11-2
14-37	Vol.		75	MR48	M26			16	25	RS216					14	[4]6K7, 6H6, [3]6C5, [3]6F6, 5Z3	456	8-50,54
	Tone		21	MR48				20	25	RS219								
								8	13	RS213								
								25	15	TC26								
14-37A	Vol.		75	MR48	M26			24	1	RS223					14	[4]6K7, [4]6C5, 6H6, [4]6F6, 5Z3	456	8-52,54
	Tone		21	MR48				40	1	RS224								
14-40	Vol.		45	MR48	M26			C248	1	FP339	B192				14	6A8GT, 6K7GT, [3]6P5G, [3]6AC5G, [3]80, 6AF6G	456	11-3
	Tone		21	MR48														
14Z9	Vol.	C363	75	MRT431	M26			C268	1	RS223					14	6L7G, 6J5, [3]6K7G, 6H6G, [3]6P5G, [3]6J5G, [3]6AC5G, [3]80	456	10-3
								C269	1	RS224								
15-40	Vol.	C363	45	MRT431	M26			C248	1	FP339	B192				15	6A8GT, [3]6K7GT, [3]6P5GT, [3]6AC5G, [3]80, 6AF6G	456	11-4
16-33	Vol.		83	MR48				4	3	HS693					16	[5]8, [3]6, 5, 5, 42, [3]6, 80, 83	456	3-3.6-2
	Tone		22	MR33				4	3	RS213	B3							
	Sen.		7	UC500				8	3	RS213	B3							
								25	15	TC26								
16-34 (RT16, A16, B16, D16, PR16, RM16)	Vol.		15/22	MN				8, 8, 8	26	RS213					16	6D6, 6C6, [3]78, [3]6B7, [3]7, [4]5, 5Z3, 56	450	6-7,8
	Tone		22	MR33				25	19	TC36								
	Supp.		‡	MR33				10	19	TC32								
								12	15	TC22								
								25	15	TC26								
16-35 1935 Deluxe (J-16, L-16, M-16, S16), (EP16)	Vol.		‡	MN				8, 8	3	RS213					16	[4]6D6, [3]6, 6B7, 2A5, [4]5, 6C6, 5Z3	456	6-9,14
	Tone		‡	Order from	Mfr.			16	3	RS216								
								10	17	TC32								
								25	15	TC26								
								10	15	TC22								
16-37	Vol.		75	MR48				25	1	RS223					16	[4]6K7, [4]6C5, 6H6, 6J7, [4]6N6, [3]80	456	8-55,56
	Tone		21	MR48				40	1	RS224								
16-37 AFC	Vol.		83	MR48				24	1	RS223					16	[4]6K7, 6L7, 6H6, [4]6C5, 6J7, [4]6N6, [3]80	456	9-11
	Tone		21	MR48				40, 40	1/13	RS224								
16-38	Vol.		75	MRT430				24	1	RS223					16	[4]6K7, 6L7, [4]6C5, [3]6H6, 6J7, [3]6V6, [3]80	456	8-57, 9-11,12
								40	1	RS224								
								10	15	TC22								
17-39	Vol.	C363	‡	MRT431	M26			C268	1	RS223					17	[4]6K7G, 6L7G, [3]6J5G, 6J7G, 6H6G, [4]6P5G, [3]6AC5G, [3]80	456	10-2
								C269	1	RS224								
18-36	Vol.		64	MR48				8	3	RS213					18	[4]6K7, [4]6C5, [3]6H6, [3]6F6, [3]5Z4, or [3]5Y3	456	7-4,5
	Tone		132	MR48				16	3	RS216								
								2	13	TC40								
								8-25-25	15	TC52/*TC26								
										TC52/*TC26								
18-36A	Vol.		75	MR48				20	1	RS219					18	[4]6K7, [3]6C5, [3]6H6, 6J7, 6L7, [4]6N6, [3]80	456	8-59,60
	Tone		‡	MR48				40	1	RS224								
								8-25-25	13/15	TC52/*TC26								
										TC52/*TC26								
18-37	Vol.		75	MR48				25	1	RS223					18	[3]6K7, [3]6C5, [3]6H6, 6J7, 6L7, [4]6N6, [3]80	456	7-6, 9-14,15
	Tone		‡	Order from	Mfr.			40	1	RS224								
								20	14	RS207								
								60	15	TC39								
18-37 AFC	Vol.		75	MR48				24	1	RS223					18	[4]6K7, 6L7, [3]6H6, [4]6C5, 6J7, [4]6N6, [3]80	456	9-16
	Tone		21	MR48				40, 40	1/13	RS224								
18-38AC	Vol.		75			See Note A19		24	1	RS223					18	[4]6K7, 6L7, [3]6H6, [4]6C5, 6J7, [4]6V6, [3]80	456	8-64
								40	1	RS224								
								10	15	TC22								
20-38	Vol.		75	500M No. 1		See Note A19		24	1	RS223					20	[4]6K7, 6L7, [3]6H6, [4]6C5, 6J7, 6R7, [4]6V6, [3]80	456	8-69,70
								40	1	RS224								
								10	15	TC22								
35-5-SW AC DC Super	Vol.		7	G	‡			12-20	6	2N509					5	6A7, 6D6, 6C6, 12Z3, 43	465	6-6, 9-2
	Tone		22	MR39				5-5	15	TN111								
51BT	Vol.	C363	18	MRT431	M26			10	19	TC32					5	1B7G, 1N5GT, 1H5GT, [3]1Q5GT	456	12-3
	Tone	C374	21	MR48														
51	Vol.	C363	18	MRT431	M26			C248	1/15	FP339					5	6A8GT, 6K7GT, 6SQ7GT, 5Y3, 6K6G	456	12-2
	Tone	C374	21	MR48														
TD51	Vol.	C363	18	MRT431	M26			C248	1/15	FP339					5	7A8, 7B7, 7C6, 35Z3, 35A5	456	12-4
	Tone	C374	57	MR48														
62	Vol.		18	MK401				20-20-20	1/15	FP339					6	6SA7GT, 6K7GT, 6SQ7GT, 6J5GT, 6V6G, 5Y3G	456	13-1
	Tone		57	MK401	M26													

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement*	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MID-WEST—Continued																		
62B	Vol.		18	MK101				20-20-20	24/15	FP339			859		6	6SA7GT, 6K7GT, 6SQ7GT, 6J5GT, 6V6G, 6X5	456	13-2
	Tone		57	MK401	M26													
62D	Vol.		18	MK101				20-20-20	1/15	FP339					6	12SA7GT, 12K7GT, 12SQ7GT, 12J5GT, 35L6G, 35Z4	456	13-3
	Tone		57	MK101	M26													
82	Vol.		18	MK101				20-20-20	1/15	FP339					8	6SA7GT, 6K7GT, 6J5GT, 6SF5GT, 6U5, 6V6G, 5Y3G	456	13-4
	Tone		‡	MK101	M26													
82R	Vol.		18	MK101				20-20-20	1/15	FP339					8	6SA7GT, 6K7GT, 6SQ7GT, 6SF5GT, 6U5, 6J5GT, 6V6G, 5Y3G	456	13-5
	Tone		‡	MK101	M26													
90	Vol.		45	MR48	M26			C248	1/15	FP339					9	6A8GT, 36K7GT, 36P5GT, 6AF6G, 6V6G, 80	456	11-5
91	Vol.		18	MR48	M26			C-248	1/15	FP339					9	6A8GT, 36K7GT, 36P5G, 6AF6G, 6V6G, 80	456	14-4
112	Vol.		17			See Note A5		25-25-25	46	FP444	B69				11	6SA7GT, 36SK7GT, 36J5GT, 36V6G, 6SJ7GT, 5Y3G	455	13-6,7
	Tone		22	MR48	M26													
162	Vol.		17			See Note A19		25-25-25	16	FP444	B69				16	6SA7GT, 36SK7GT, 36J5GT, 36S17GT, 6U5, 36V6G, 35Y3G,	455	13-7,8
	Tone		22	MR48	M26													
162R	Vol.		17			See Note A19		25-25-25	16	FP444	B69				16	6SA7GT, 36SK7GT, 36J5GT, 36S17GT, 6U5, 36V6G, 35Y3G	455	13-9
	Tone		22	MR48	M26													
170	Vol.	C363	‡	MRT131	M26			C248	1	FP339	B192				17	6A8G, 36K7G, 6J5, 6J7, 6H6, 36P5, 6AF6G, 36AC5G, 280	456	11-6
181	Vol.		15	MR48				30-25-25	46	FP444	B69				18	36K7GT, 6SA7GT, 36J5GT, 7A7, 37C7, 6U5, 36V6GT, 35Y3	456	14-6
	Tone		22	MR48	M26			20-20-20-20	13/15	FP426								
746M & 747M ('31-'32)	Vol.		6	E12		‡		8-8	4	See Note	B3				8	§24, 27, 35, 47, 80	175	
MISSION BELL RADIO CO																		
4A	Vol.		96	UM133		See Note A96		10	15	TC32					4	§39, 38		3-1
6A	Vol.		61	UM147		See Note A96									6	§39, 37, 24, 47		3-2
10A	Vol.		15	UM151		See Note A96		4-4	1	See Note	B3		292	C3	6	36, §39, 84, 85, 41	252	4-1
								25	15	TC26								
								.02		Buffer	B14							
11, 12	Vol.		18	UM147		See Note A96		4-4	1	See Note	B3		292	C3	6	75, 77, §78, 42, 84	252	5-1
								25, 25	15	TC26								
								.05		Buffer	B14							
14	Vol.		18	UM154		See Note A96		4-8	1	See Note	B3		292	C3	5	77, 78, 75, 42, 84	456	5-2
								25	15	TC26								
								.05		Buffer	B14							
16	Vol.		18	UM154	M26	See Note A96		4-4	23	See Note	B3		292	C3	5	6A7, 6D6, 75, 41, 84	465	6-1
								.02-.02		Buffer	B14							
16 Auto	Vol.		18	UM154		See Note A96		6-6	23	2S567			292	C3	5	6A7, 78, 75, 41, 84	456	7-1
	Tone		22	UM147		See Note A96		.006		Buffer	B14							
17, 18	Vol.		15	MR18				6-6	23	2S567			294	C3	7	36K7, 6A8, 6R7, or 6H6 and 6C5, 6F6, 84	262	7-2
	Tone		22	MR44				10	15	TC22								
								.006		Buffer	R14							
19, 19A	Vol.		15	UM154		See Note A96		4-8	1	See Note	B3		Order from Mfr.		5	57, 58, Wunderlich, 41, 1V	252	4-2
25A	Vol.		15	UM151		See Note A96		4-8	1	See Note	B3		292	C3	6	77, §78, 75, 42, 84	252	5-3
	Tone		22	MR39				25	15	TC26								
								.05		Buffer	B14							
35	Vol.		6	MR18	M26	EX300		4-4	23	See Note	B3				4	6D6, 76, 42, 80		6-1
40	Vol.		18	MR48	M26			4-4	23	See Note	B3				5	2A7, 58, 2A6, 2A5, 80	456	5-3
40 All-Wave	Vol.		18	MR48	M26			4-4	4	See Note	B3				5	2A7, 58, 2A6, 2A5, 80	465	5-4
41AW, 41 Skip Band	Vol.		18	MR48	M26			4-4	4	See Note	B3				5	6A7, 6D6, 75, 42, 80	465	6-2
383	Vol.		18	MR48				4-4	23	See Note	B3				5	6A7, 6D6, 6Q7G, 41, 80	465	
384 (Revised)	Vol.		106	MR48				8, 8	23	RS213					5	6A7, 6D6, 75, 41, 80	465	
	Tone		106	MR44														
384, 384 (Special)	Vol.		18	MR48				8-8	23	2S567					5	6A7, 6D6, 75, 41, 80	465	10-1
386 (Above 40461)	Vol.		106	MR48				8-8	23	2S567					6	6A7, 6D6, 6H6, 6F5, 6V6G, 80	465	10-1
	Tone		106	MR44														
386AW	Vol.		106	MR48				8, 8	23	RS213					5	6K8, 6D6, 75, 41, 80	465	
	Tone		106	MR44														
387	Vol.		6	MR15				16-16	23	TCS55					4	6A7, 6F7, 25L6, 25Z5, L55B	465	
388	Vol.		106	MR48				8, 8	23	RS213					6	6A7, 6D6, 75, 76, 41, 80	465	
	Tone		106	MR44														
389AW	Vol.		106	MR48				12	25	RS215					8	6K8, 6K7G, 76, 6F5, 41, 80, 6T5	465	
	Tone		106	MR44				30	25	RS223								
390, 391	Vol.		56	MR48				8, 8	23	RS213					5	6A7, 6D6, 6Q7G, 41, 80	465	
392	Vol.		6	MR15				20-20	4	2S556					4	78, 76, 25L6G, 25Z5, L55B		

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MISSION BELL—Continued																		
395	Vol.		18	500M		See Note	A19	8-8	23	2S567					5	6A7, 6D6, 6Q7, 41, 80	465	10-2
400	Vol.		18	MR48	M27			4	12	TC10					4	1A7G, 1N5G, 1H5G, 1C5G	465	10-4
401, 402	Vol.		18	MR48				40, 40	40	TC48					5	6A7, 78, 75, 25L6G, 25Z5, L49B	465	10-3
404	Vol.		15	MR48	M26			8-8	24	2N518					5	‡6K7, 6B8, 6N7, 5W4		11-1
								10	15	TC22								
407, 408	Vol.		18	MR48	M26			40	4	TC48					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	465	11-1
								20	4	TC47								
407 (Late)	Vol.	113244079	18	UM154-SS3	M26			1132040754	4	TC48					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	465	11-2
								1132040753	4	TC47								
410	Vol.		18	MR48	M26			40	4	TC48					6	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT, 6AF6	465	11-3
								16	4	TC44								
411	Vol.	113244119	127	MR48	M26			1132041153	23	2S567					5	6A7, 6D6, 75, 41, 80	465	11-2
412	Vol.		18	MR48	M26			10	4	TC18					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	465	11-1
								20	4	TC47								
415	Vol.		18	MR18				10-10	1	2S569					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G	465	§12-3
								20	15	TC26								
416	Vol.		18	‡			A19	10-10	1	2S569					7	6A8GT, 6K7, 6SQ7, ‡6P5GT, 6F6G, 5Y3G	456	11-4
	Tone		22	MR44				20	15	TC26								
417	Vol.		18	‡			A19	10-10	1	2S569					7	6A8GT, 6K7, ‡6P5GT, 6SQ7, 6F6G, 5Y3G	465	11-5
	Tone		21	MR44				20	15	TC26								
418	Vol.		18	MR18	M26			10-10-20	1/15	FP339					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5W4	465	13-3
423	Vol.		82	MRT460				10-10	1	FP231	B117				6	6SA7, 6SK7, 6SQ7, 6SJ7, 6V6GT, 5W4	465	14-5
	Mike		‡	MR18				8	13	TC71								Misc
								20	15	TC26								
498 (Record Player)	Vol.		63	MR48	M26			40, 40	24	TC48					2	6L5G, 70L7G, K90G		11-3
500, 501	Vol.		18	MR48	M27			4	12	TC10					4	1A7G, 1N5G, 1H5G, 1Q5G	465	10-5
								6	12	TC12								
503	Vol.		18	MR18	M27			6	12	TC12					1	1A7G, 1N5G, 1H5G, 1Q5G	465	13-4
504	Vol.		18	MR48				40-20	24	2N511					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z6GT	465	11-6
								100	78	TC2501								
638A	Vol.		75	UM154		See Note	A96	8-8	40	See Note	B3		294	C3	6	6A7, 6K7, 6H6, 75, 41, 84	267.5	
								.006		Buffer	B14							
972	Vol.		18	MR18	M26			8-8	4	2S567					5	6A7, 6D6, 6Q7G, 41, 80	465	13-1,2
3710	Vol.		75	MR48				12	23	HD684					8	6A7, 76, 6K7, 6H6, 6F5, ‡42, 80	465	10-7
	Tone		22	MR44				30	23	RS223								
								4	‡	TC70								
3716	Vol.		18	UM154		See Note	A96	6-6	23	2S567			See Note	C6	5	6A7, 6K7, 75, 41, 84	267.5	10-8
								.006		Buffer	B14							
3749	Vol.		106	MR18				8-8	23	2S567					5	6A7, 6D6, 75, 41, 80	465	10-1
	Tone		106	MR44														
3817A	Vol.		75	UM154		See Note	A96	8-8	40	See Note	B3		294	C3	6	6A7, 6K7, 6H6, 75, 41, 84	267.5	
								.006		Buffer	B14							
3849	Vol.		106	MR48				8-8	23	2S567					6	6A7, 6D6, 76, 75, 41, 80	465	10-10
	Tone		106	MR44														
3859	Vol.		106	MR18				8-8	23	2S567					6	6A7, 6D6, 75, 41, 80	465	10-10
	Tone		106	MR44														
3869	Vol.		106	MR18				8, 8	23	TC71					5	6A7, 6K7G, 75, 25L6G, 25Z5	465	10-7
	Tone		106	MR44														
3871	Vol.		18	MR18				40	23	TC18					4	6K8, 75, 25L6G, 25Z5, L55B	465	10-9
								16	23	TC44								
3882	Vol.		6	MR15				20-20	4	2S556					4	78, 76, 25L6G, 25Z5, L55B		
3891	Vol.		106	MR48				8, 8	23	TC71					5	6A7, 6K7G, 75, 25L6G, 25Z5	465	10-7
	Tone		106	MR44														
MITCHELL																		
Lumitone	Vol.	N-3307	18	MK401	M26			N-3866	24	2N514					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	11-1,2
MONARCH																		
L5	Vol.	P660	18	MR48	M26			P474	32	HD684					7	5Z4, 6F5, 6F6, 6H6, 6K7, 6L7, 6C5	456	
	Tone	P661	34	MR39				P160	32	2N518								
								P304	15	TC22								
L6	Vol.	P660	18	MR48	M26			P474	32	HD684					8	5Z4, 6C5, ‡6F6, 6K7, 6L7, ‡6Q7	456	
	Tone	P661	44	MR39				P160	32	2N518								
								P304	15	TC22								
L7	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, 19, ‡30, ‡34	456	
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
Z4	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 19, ‡30, 32, 34	456	
	Tone	P682	44	MR39				.01-.01		Buffer	B14							

‡.Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONARCH—Continued																		
Z5	Vol.	P691	45	Order from	Mfr.			P958	1	2N516		P402	245C	C3	6	1C6, 19,§30, 32, 34	456	
	Tone	P962	44	MR39				.01 .01		Buffer	B14							
A31	Vol.		18	MR18				8-4	23	28567	B3				5	6A7, 6D6, 75, 42, 80	456	§5-13
54	Vol.		18	UM154		See Note	A96	6-10	4	See Note	B3		294	C3	5	6A7, 6D6, 75, 42, 84	456	
								.02		Buffer	B14							
64	Vol.		18	UM154		See Note	A96	6-10	4	See Note	B3		294	C3	6	§6D6, 6A7, 75, 42, 84	456	
								.02		Buffer	B14							
161	Vol.		7	MR22	M26			3229	27	TC44/TC42					4	6D6, 6C6, 43, 25Z5		
MONTGOMERY WARD & CO. (Airline) Note: The prelix "62-" or for m of "62-" indicates				Radio Division in		Montgomery-		Ward Catalog										
Auto Radio	Vol.		45	MR18				4	15	TC22			Order from Mfr.		6	36, 37,§39, 38	262	3-11,12
Troubadour (32W)	Vol.		6	G7		3		8, 8, 8	31	RS213					7	§24, 27,§45, 80		2-1
AE10 (Two Types)	Vol.	P911	60	E12		(Early)		1-1-2	3	See Note	B1				9	24,§26,§45, 80		2-18,19
	Vol.	P917	60/15	DRP243		(Late)												
AE11	Vol.		8	A400P				1-1.5-1-1	3/13	See Note	B1				8	§27,§71, 80		
AE51, 52, 53, 54	Vol.		8	A400P				1-1,5-1-1	3/13	See Note	B1				8	§27,§71, 80		
062	Vol.		45	MR18				4	15	TC22			Order from Mfr.		6	36, 37, 38,§39	262	
7GM	Vol.		7/56	DRP314	6			44X10	23	RS216					6	§5K7, 6B7, 76, 6F6, 80	456	
	Tone		34	MR42				44X11	23	RS216								
13, 15, 16, 16X, 17, 18, 18X	Vol.		6	MR18				972	1	2N518					5	§24, 35, 47, 80	262	4-1
17 ('31) "Turret Cond."	Vol.	6649	59	Order from	Mfr.			927	4	See Note	B1				9	§24,§35,§47, 27, 80	175	3-13
								928	4	See Note	B1							
								972	14	2N518								
20W	Vol.		6	G7				8-8	25	See Note	B3				4	§24, 71A, 80		
22	Vol.		6	G7				8	3	RS213					8	§24,§27,§45, 80	‡	2-11
	Tone		22	‡		See Note	A5	8-6	3	2N518								
26P, 26PX	Vol.		6	G7		3		2678	1	RS213					5	§24, 45, 80		
	Tone		22	MR42														
26W	Vol.		6	G7		3		8, 8	1	RS213					5	§24, 45, 80		2-7
27W, 27WX (1500, 15000, Collegian)	Vol.		6	G7		3		8, 8	1	RS213					5	§24, 27, 45, 80		2-17
	Tone		22	MR33														
49	Vol.		6	G7											5	§24, 26, 01A, 71A		1-1,2-3
62	Vol.		45	MR48				4	15	TC22			Order from Mfr		6	36, 37, 38,§39	262	
77	Vol.	96001	97	TRP602				4	12	TC52					5	30, 32,§34, 19	175	4-18
87	Vol.		17	MR48				P80956	25/19	RM262/TC26	B126	P1804	292	C12	6	75, 77,§78, 41, 84	262	4-19,25
								P80937	14/15	2N516	B127							
95	Vol.	96001	97	TRP602				4	12	TC52					5	30, 32,§34, 19	175	4-18
102	Vol.	P101-9	17	MR18	M26			P103-2	4	RM262			299	C3	6	6D6, 6C6, 78, 75, 42,		
								20	15	TC26						84	175	
								.02		Buffer	B14							
123 (Series 7D)	Vol.		56	MR48	M26			P80916	23	RS213					7	§6D6, 6B7, 76, 42, 80	456	
	Tone		34	MR42				P81043	23	RS216	B10							
								P81032	23	RS213								
								P81042	23	RS216	B10							
131 (7D), 133 (7D), 142 (7D), 144 (7D)	Vol.		56	MR48	M26			P80916	23	RS213					7	§6D6, 6B7, 76, 42, 80	456	
	Tone		34	MR42				P81043	23	RS216	B10							
								P81032	23	RS213								
								P81042	23	RS216	B10							
181	Vol.		7	D				1-1-1	3	See Note	B1				8	§24A,§27,§45, 80		
	Tone		41	MR53														
187	Vol.		7	D	(1st	Type)		1-2-3	26	See Note	B1				8	§24A,§27,§45, 80		
	Vol.		6	D7	(2nd	Type)	A4	.53		See Note	B9							
500 Dictator	Vol.		8	A400P				1-1.5-1-2	3	See Note	B1				7	§24,§27,§45, 80		2-8,9
								.1		See Note	B9							
811 Solo (62-1711)	Vol.	P90977	7	F		2		8, 8	23	RS213					7	§24, 27,§35, 47, 80	175	2-12,13
	Tone	P90976	95	MR53	M26													
839, 921, 923, 924	Vol.		12	MR33	M23										5	§22,§12A, 71A		2-10,11
1111 Fantasy (62-1611)	Vol.	P90977	7	F		2		8, 8	23	RS213					7	§24, 27,§35, 47, 80	175	2-12,13
	Tone	P90976	95	MR53	M26													
1238, 1238X	Vol.		15	MR53				2803	1	2N518					7	§27,§35, 47, 80	262	2-14
	Tone		34	MR42				2852	19	TC52								
1355 Minstrel (62-1955)	Vol.		15	MR53				2803	1	2N518					9	§27,§35,§47, 80	262	2-15,16
	Tone		41	MR42				2719	13	TC71								
								2852	15	TC52								
2655	Vol.	P917	1/15	DRP243				‡	‡	See Note	B4				9	24,§26,§45, 80		2-18,19
2822, 2827 (Balboa), 2895, 2897 (DeSoto)	Vol.		8	A400P				1-1.5-1-2	3	See Note	B1				7	§24,§27,§45, 80		2-20
	Tone		41	MR18				.1		See Note	B9							
2955, 2955X, 2957, 2957X	Vol.		24	GG				2.5-4-2	28	See Note	B1				8	§24,§27,§45, 80		3-16
	Tone		41	MR53														
3035, 3037, 3065, 3067	Vol.		6	G7				8, 8, 8	28	RS213					8	§24§27,§45, 80		
	Tone		41	MR18														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued Note: The prefix "62-" or form of "62-" indicates				Radio Division in Montgomery-Ward Catalog.														
10,000 Serenader	Vol.		8	A400P				1-1.5-1-2	3	See Note	B1				7	24,27,245, 80		2-8,9
								.1		See Note	B9							
11,000 Challenger (2 Types)	Vol.		6	G7		3		1-1	1	See Note	B1				7	24, 27,245, 80		2-21
	Tone		41	MR53														
14,000 Commander, 62,000 Cavalier	Vol.		6	F7		3		8, 8, 8	28	RS213					8	24,27,245, 80		2-22
	Tone		41	MR48														
62-010	Vol.		8	MR29				1.5-1.5-.5	3	See Note	B1				6	24,245, 80		3-8
								.6		See Note	B9							
62-020 (51)	Vol.		8	MR29				1.5-1.5-1.5	3	See Note	B3				8	24,27,245, 80		3-7
62-030	Vol.		6	G7		3		8, 8, 8	28	RS213	B3				7	24, 27,245, 80		2-1
62-040 Commodore	Vol.		7	D				1-1-1	26	See Note	B7				8	24,27,245, 80		2-2
62-060 Challenger, Jr., 62-070 Princess (1800)	Vol.		6	G7	6	3		8, 8	1	RS213					5	24, 45, 80		2-7
62-078	Vol.		6	H7	6	3		8-8	4	See Note	B3				5	257, 35, 47, 80		
62-080	Vol.		6	G7				8	3	RS213					7	24,345, 27, 80	‡	
	Tone		22	‡		See Note	A5	8-6	3	2N518								
62-090	Vol.		6	G7				8	3	RS213					7	24, 27,245, 80	‡	
	Tone		22	‡		See Note	A5	8-6	3	2N518								
62-1, 62-2	Vol.		15	MR39	M26			8, 8	25	RS213					10	27,235,247, 80	175	3-14
	Tone		44	MR39														
62-7, 62-8	Vol.		7	H	6			8, 8	4	RS213	B3				7	24,27, 47, 80,235	175	3-15
	Tone		22	MR21														
62-9	Vol.		7	H	6			8, 8	4	RS213	B3				8	24,27,235,247, 80	175	3-15
	Tone		22	MR39														
62-11, 62-12, 62-14 (1st Type)	Vol.		8	A5MP				4-2-6	30	See Note	B3				8	24, 27,235, 47, 80	175	2-4,5
	Tone		34	MR42				4	19	TC40								
62-11, 62-14 (2nd Type)	Vol.		14	MR48				4-2-4	30	See Note	B3				8	24, 27,235, 47, 80	175	2-6
	Tone		34	MR42				4	19	TC40								
62-16	Vol.	62A10	13	MR53	M26			62-A12	4	RS213	B3				10	24,27,235,247, 80	175	6-8
	Tone	62A11	22	MR39														
62-19 (1st Type)	Vol.		8	Y5MP				4-2-6	30	See Note	B3				8	24, 27,235, 47, 80	175	2-4,5
	Tone		34	MR42				4	19	TC40								
62-19 (2nd Type)	Vol.		14	MR48				4-2-6	30	See Note	B3				8	24, 27,235, 47, 80	175	2-6
	Tone		34	MR42				4	19	TC40								
62-20, 62-20X	Vol.		59	A400P				8, 8	43	RS213					7	24,235, 47, 80	175	2-23,24
	Tone		34	MR42				4	13	TC40								
62-21, 62-22	Vol.		15	MR48				4-2-4	28	See Note	B3				7	24, 27,235, 47, 80	262	3-1,2
	Tone		22	MR42														
	Sen.		42	Y200MP														
62-23	Vol.		2-10	Order from Mfr.				4	12	TC52					5	32, 33	175	
62-25	Vol.		59	A400P				8, 8	43	RS213					7	24,235, 47, 80	175	2-23,24
	Tone		34	MR42				4	13	TC52								
62-26	Vol.		15	MR53				8-8	1	2N518					8	27,235, 47, 80	262	
	Tone		34	MR42				8	19	TC52								
62-27 (1st Type)	Vol.		8	A5MP				4-2-4	30	See Note	B3				8	24, 27,235, 47, 80	175	2-4,5
	Tone		34	MR42				4	19	TC40								
62-27 (2nd Type)	Vol.		14	MR48				4-2-6	30	See Note	B3				8	24, 27,235, 47, 80	175	2-6
	Tone		34	MR42				4	19	TC40								
62-29 (1st Type) (Models 11, 12, 16 and 33)	Vol.	6647	7	Order from Mfr.				928	1	RS213	B3				7	24,235, 47, 80	175	3-4,5
								929	1	RS213	B3							
62-29 (11, 12 2nd Type)	Vol.	6653	15	MR48				928	1	RS213	B3				7	24, 27,235, 47, 80	175	3-6
	Tone	6652	22	MR44				929	1	RS213	B3							
62-30	Vol.		15	MR48				4-2-4	28	See Note	B3				8	24, 27,235, 47, 80	262	3-1,2
	Tone		22	MR42														
	Sen.		7	Y200MP														
62-34 (Washington)	Vol.		15	MR53				8-8	1	2N518					8	35,327, 47, 80	262	9-1
	Tone		22	MR42				8	19	TC42								
62-35	Vol.		15	MR48				928	1	RS213	B3				7	24, 27,235, 47, 80	175	3-6
	Tone		22	Y200MP				929	1	RS213	B3							
62-36	Vol.		15	MR53				8-8	1	2N518					7	35,327, 47, 80	262	3-9
	Tone		22	MR42				8	19	TC42								
62-38, 62-40, 62-38X, 62-40X	Vol.		15	MR53				8-8	1	See Note	B3				10	27,235,247, 80	262	3-9,10
	Tone		41	MR44				8	19	TC42								
								8	14	TC52								
62-41	Vol.		15	MR48				4	12	TC52					9	30,234	175	
	Tone		22	MR42														
62-42	Vol.		15	MR48				4-2-4	28	See Note	B3				7	24, 27,235, 47, 80	262	3-1
	Tone		22	MR42														
	Sen.—		42	Y200MP														
62-43, 62-43X	Vol.		6	H7	6	3		8-8	4	See Note	B3				5	35,257, 47, 80	262	
62-PC43	Vol.		6	E12	6	EX200		SW4319	4	TCS71					5	56, 57, 58, 47, 80	‡	6-18

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued Note: The prefix "62-" or form of "62-" indicates Radio Division in Montgomery-								Ward Catalog										
62-44	Vol.		15	MR53				8-8	1	See Note	B3				6	‡27,‡35, 47, 80	262	3-9,10
	Tone		41	MR41				8	19	TC42								
								8	14	TC52								
62-45	Vol.		6	G7				8-8	1	See Note	B3				7	‡56, 57,‡58, 47, 80	455	
	Tone		34	Y200MP				8	19	TC32								
62-46	Vol.		15	MR53				8-8	1	2N518					8	‡35,‡27, 47, 80	262	
	Tone		34	MR42				8	19	TC42								
62-47	Vol.		6	G7				8-8	1	See Note	B3				7	‡56, 57,‡58, 47, 80	455	
	Tone		34	Y200MP				8	19	TC32								
62-49	Vol.		15	MR41				8-8-8	28	RS213	B3				9	56,‡57,‡58,‡46, 80	262	
	Tone		22	MR39				4	19	TC32								
	Supp.		7	F														
62-50, 62-50X	Vol.		15	MR53				8-8	1	2N518					9	‡27,‡35,‡47, 80	262	3-9,10
	Tone		41	Y200MP				8	13	TC52								
								8	14	TC52								
62-51	Vol.		45	MR36				8	30	TC82					12	‡56,‡57,‡58,‡46, 82	175	
	Tone		41	MR42				8	30	RS213								
	Supp.		8	E				4	30	RS213								
								4	19	TC52								
62-52	Vol.		15	MR48				4-2-6	30	See Note	B3				10	‡24,‡27,‡35,‡47, 80	175	
	Tone		21	MR53				4	14	TC52								
62-53	Vol.		59	X				8-8	23	TCS71					7	‡57,‡58, 47, 80	175	
	Tone		34	MR42				4	14	TC52								
62-PC55	Vol.		56	MR53	M26			8-4	4	TCS71					6	55, 56,‡58, 47, 80	465	6-22
	Tone		22	MR39														
62-57	Vol.		6	H7	6	3		8-8	4	See Note	B3				5	‡57, 35, 47, 80	262	
62-58	Vol.		15	MR53				8-8	1	See Note	B3				9	‡27,‡35,‡47, 80	262	3-9,10
	Tone		41	MR41				8	19	TC42								
								8	14	TC52								
62-61, 62-64X	Vol.		45	MR36				8	30	TC82					12	‡56,‡57,‡58,‡46, 82	175	
	Tone		41	MR42				8	30	RS213								
	Supp.		8	E				4	30	RS213								
								4	19	TC10								
62-PC64	Vol.		45	MR48				PC642	7	2S567					12	‡56,‡58,‡57,‡46, 82	175	6-38
	Tone		22	MR39				PC643	7	2S567								
	Supp.		8	MR41				PC6442	15	TC26								
62-67	Vol.		17	MR48				8-8	1	2N518					7	55, 56, 57,‡58, 47, 80	175	
	Tone		22	MR33														
62-68, 62-68X	Vol.		15	MR41				8-8	28	2N518					9	56,‡57,‡58,‡46, 80	262	
	Tone		22	MR39				8	28	ST595								
	Supp.		7	F				4	19	TC32								
62-PC68	Vol.		15	MR39	M26			8, 8, 8	3	RS213					9	55, 56, 57,‡58,‡46, 82	175	6-30
	Tone		22	MR39														
	Sen.		7	H														
62-69	Vol.		15	MR41				8-8	28	2N518					10	‡56,‡46,‡58, 80	262	
	Tone		22	MR33				8	28	ST595								
								8-8	13/19	TCD62								
62-70, 62-70X	Vol.	U4489	6	G7				U4116	1	2N518					7	‡56, 57,‡58, 47, 80	455	7-1
	Tone	U4488	34	MR44	M26			U4119	19	TC32								
62-71	Vol.		59	X				8-8	23	TCS71					7	‡57,‡58, 47, 80	175	
	Tone		34	MR42				4	14	TC52								
62-72, 62-72X	Vol.	U4489	6	G7				U4116	1	2N518					7	‡56, 57,‡58, 47, 80	455	7-1
	Tone	U4488	34	MR44	M26			U4119	19	TC32								
62-74, 62-74X	Vol.		59	X				8-8	23	TCS71					7	‡57,‡58, 47, 80	175	
	Tone		34	MR42				4	14	TC52								
62-75	Vol.		45	MR48				4	12	TC52					9	‡30,‡34	175	
	Tone		22	MR42														
62-76	Vol.		15	MR48				12-4-4	30	See Note	B3				10	‡56,‡57,‡58,‡47, 80	175	
	Tone		21	MR53				4	13	TC52								
62-79	Vol.		15	MR44				8-8	28	2N518					10	‡56,‡58,‡46, 80	262	
	Tone		22	MR33				8	28	ST595								
								8	13/19	TCD62								
62-80	Vol.		17	MR48				8-8	1	2N518					7	55, 56, 57,‡58, 47, 80	175	
	Tone		22	MR33														
62-81	Vol.		40	MR24	M26			8-8	1	2N518					4	‡57, 47, 80	455	
								4	19	TC32								
62-82	Vol.		17	MR48				8-8	1	2N518					5	55, 57, 58, 47, 80	175	
62-83	Vol.		15	MR48				4	13	TC52					7	‡36,‡39,‡41	175	
	Tone		22	MR33														
62-84, 62-84X	Vol.		15	MR44				8-8	28	2N518					10	‡56,‡58,‡46, 80	262	
	Tone		22	MR33				8	28	ST595								
								8-8	13/19	TCD62								
62-86, 62-86X	Vol.		15	MRT427				4-8-8	3	See Note	B3				12	‡58,‡56,‡57,‡46, 82	262	
	Tone		22	MR48				8	18	TC32								
	Supp.		4	Order from	Mfr.													
62-88	Vol.		15	MR44				8-8-8	28	See Note	B3				9	‡57,‡58, 56,‡46, 80	262	
	Tone		22	MR39				4	19	TC32								
	Supp.		7	F														
62-89	Vol.	P96005	17	MR55	M26			P80984	2/13/44	3S584/2N516	B164				12	55,‡56,‡58,‡45, 82	175	4-2,3
	Tone	P97003	41	MR57														
62-90	Vol.		6	G7				8-8	1	See Note	B3				7	‡56, 57,‡58, 47, 80	455	
	Tone		34	MR44				8	19	TC32								

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued																		
Note: The prefix "62-" or form of "62-" indicates Radio Division in Montgomery-Ward Catalog																		
62-91	Vol.	P96003	15	MR53				P80968	12	TC52					9	6,30,34	175	4-4
	Tone	P97001	44	MR42														
62-92	Vol.		6	H7	6	3		8-8	4	See Note	B3				5	3,57, 35, 47, 80	262	
62-93	Vol.	P96004	15	MR53				P80989	12	TC52					7	3,6D6, 6C6, 37,41	175	4-5,6
	Tone	P97002	34	MR33														
62-94, 62-94X	Vol.		15	MR44				8-8	28	2N518					10	3,56,3,58,3,46, 80	262	
	Tone		22	MR33				8	28	ST595								
								8	13/19	TCD62								
62-96	Vol.	P91019C	6	G7	6	3		P80944	11	UR182	B31				5	3,77, 78, 43, 25Z5	262	4-7
								P80878C	20	TC40								
								P80936C	15	TC32								
62-97, 62-97X	Vol.		17	MR48				8-8	1	2N518					7	55, 56,3,58, 2A5, 80	262	4-10,11
	Tone		22	MR33				8	15	TC22								
62-98	Vol.	P91049C	6	G7	6	3		P80944	11	UR182	B31				5	3,77, 78, 43, 25Z5	262	4-8,9
								P80878C	12	TC40								
								P80936C	15	TC32								
62-99, 62-99X	Vol.		17	MR48				8-8	1	2N518					7	55, 56,3,58, 2A5, 80	262	4-10,11
	Tone		22	MR33				8	15	TC22								
62-100	Vol.		6	G7				8	3	RS213					7	3,24, 27,45, 80	‡	
	Tone		22	‡		See Note A5		8-6	3	TCS7I								
62-101, 62-101X	Vol.		15	MR48	M26			8-8-4	28	3S584	B3				10	3,58,456,3,45, 80	262	4-12,13
	Tone		41	MR48														
62-103	Vol.	P96001	15	MR53	M26			P80916	25	RS213					7	3,6D6, 6C6,37, 42, 80	175	4-14
	Tone	P97007	22	MR42				P80990	25	RS216								
								8	15	TC22	B10							
62-104	Vol.		6	H7	6	3		P80944E	11	2N509/TC44					5	6C6,3,6D6, 43, 25Z5	262	4-16
62-105	Vol.	P96004	15	MR53	M26			P80916	25	RS213					7	3,6D6, 6C6,37, 42, 80	175	4-14
	Tone	P97007	22	MR42				P80990	25	RS216								
								8	15	TC22	B10							
62-106, 62-107	Vol.		15	MR55	M26			16	2	TC74					10	3,56,458,3,45, 80	175	4-17
	Tone		41	MR55				8	2	TC71								
62-114, 62-116	Vol.	P96012	64	MR53				P81014	40	TCS35					7	3,34,3,30, 19	175	6-1,2
62-118	Vol.	P96015	18	UM147-SS3	M26			81028	1	TCD62		P2080	253	C3	6	75, 77,3,78, 41, 84	262.5	5-1,2
	Tone	P97012	22	MR42				81021	15	TN111								
								.01		Buffer	B14							
62-120	Vol.	P96001	97	TRP602				P80968	12	TC52					5	30, 32,3,34, 19	175	5-3,4
62-121	Vol.		15	MR55	M26			16	2	TC74					10	3,56,458,3,45, 80	175	4-17
	Tone		41	MR55				8	2	TC71								
62-122	Vol.	P96001	97	TRP602				80968	12	TC52					5	30, 32,3,34, 19	175	5-3,4
62-123	Vol.	P96014	56	MR48	M26			P80916	23	RS213					7	3,6D6, 76, 6B7, 42, 80	456	10-1
	Tone	P97011	34	MR42				P81032	23	RS213								
								P81043	23	RS216								
								P81042	23	RS216								
62-124	Vol.	P96016	15	MR55				P82001	12/13	2N516					9	6,30,34, 19	456	5-5,6-7
	Tone	P97013	44	MR33														
62-126, 62-128	Vol.	P96001	97	TRP602				80968	12	TC52					5	30, 32,3,34, 19	175	5-3,4
62-129	Vol.	P96016	15	MR55				P82001	12 13	2N516					9	6,30,34, 19	456	5-5,6-7
	Tone	P97013	44	MR33														
62-130	Vol.	V603	17	MR48	M26			C550	4	TCS7I		V660	Order from Mfr.		6	3,6D6, 6A7, 75, 89, 6Z4	175	8-14
62-131	Vol.	P96014	56	MR48	M26			P80916	23	RS213					7	3,6D6, 76, 6B7, 42, 80	456	10-1
	Tone	P97011	34	MR42				P81032	23	RS213								
								P81043	23	RS216								
								P81042	23	RS216								
62-132	Vol.	P96005	15	MR55	M26			P81039	2	RS216					10	3,6D6,3,76,3,45, 80	456	5-8
	Tone	P97003	41	MR57				81018	2/13	3S584								
62-133	Vol.	P96014	56	MR48	M26			P80916	23	RS213					7	3,6D6, 76, 6B7, 42, 80	456	10-1
	Tone	P97011	34	MR42				P81032	23	RS213								
								P81043	23	RS216								
								P81042	23	RS216								
62-134, 62-134X	Vol.	P96005	15	MR55	M26			P81058	48	RS216					12	3,6D6,3,76,3,42,3,80	456	6-5,6
	Tone	P97011	21	MR42				P81039	48	RS216								
								P81056	48	2N516								
								P82000	48	TC39								
62-135, 62-135X	Vol.	P101-11	18	MR48	M26			P103-4	4	RS216					6	57, 27, 58, 2A6, 2A5, 80	370	6-9,16
								P103-3	4	RS216								
62-136	Vol.	P96014	56	MR48				P81016	23	TCS7I		P2153	F294	C3	6	6F7, 6D6, 6B7, 12A5, 3,12Z3	175	6-11
	Tone	P97011	34	MR42				.015		Buffer	B14							
62-137	Vol.	P96005	15	MR55	M26			P81039	2	RS216					10	3,6D6,3,76,3,45, 80	456	5-8,10
	Tone	P97003	41	MR57				81018	2/13	3S584								
62-138	Vol.	P96014	56	MR48	M26			P81016	23	TCS7I		P2153	F294	C3	6	6F7, 6D6, 6B7, 12A5, 3,12Z3	175	6-11,12
	Tone	P97011	34	MR42				.015		Buffer	B14							
62-139, 62-139X	Vol.	P96005	15	MR55	M26			P81058	48	RS216					12	3,6D6,3,76,3,42,3,80	456	6-5,7
	Tone	P97011	21	MR42				P81039	48	RS216								
								P81056	48	2N516								
								P82000	48	TC39								
62-140, 62-140X	Vol.	P101-10	6	MR36	M26	EX100		BE119-6	4	2S567					5	3,57, 58, 2A5, 80	175	5-11,12
62-142	Vol.	P96014	56	MR48	M26			P80916	23	RS213					7	3,6D6, 76, 6B7, 42, 80	456	10-1
	Tone	P97011	34	MR42				P81032	23	RS213								
								P81043	23	RS216								
								P81042	23	RS216								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued																		
Note: The prelix "62-" or form of "62-" indicates Radio Division in Montgomery-Ward Catalog.																		
62-144	Vol.	P96014	56	MR48	M26			P80916	23	RS213					7	6D6, 76, 6B7, 42, 80	456	10-1
	Tone	P97011	34	MR42				P81032	23	RS213								
								P81043	23	RS216								
								P81042	23	RS216								
62-147 Series "A"	Vol.	P101-18	18	MR48	M26			P119-11	1/15	3S584					5	6F7, 6D6, 75, 42, 80	370	6-13,14
62-147, 62-147X Series "B" & "C"	Vol.	P101-18	18	MR48	M26			P103-6	4	RS213					5	6F7, 6D6, 75, 42, 80	370/465	6-15,16
								P103-7	4	RS213								
62-148, 62-148X	Vol.	P101-10	6	MR36	M26	EX100		BE119-6	1	2S567					5	57, 58, 2A5, 80	175	5-11,12
62-150, 62-154, 62-150X, 62-154X	Vol.	P101-11	18	MR48	M26			P103-4	4	RS216					6	27, 57, 58, 2A6, 2A5, 80	370	6-9,10
								P103-3	4	RS216								
62-152	Vol.	P96014	56	MR48	M26			P80916	23	RS213					7	6D6, 76, 6B7, 42, 80	456	10-1
	Tone	P97011	34	MR42				P81032	23	RS213								
								P81043	23	RS216								
								P81042	23	RS216								
62-156, 62-164, 62-156X, 62-164X Series "A"	Vol.	P101-18	18	MR48	M26			P119-11	1/15	3S584					5	6F7, 6D6, 75, 42, 80	370	6-13,14
62-156, 62-156X, 62-164, 62-164X Series "B" & "C"	Vol.	P101-18	18	MR48	M26			P103-6	4	RS213					5	6F7, 6D6, 75, 42, 80	465	6-15,16
								P103-7	4	RS213								
62-158	Vol.	P96014	56	MR48	M26			P80916	23	RS213					7	6D6, 76, 6B7, 42, 80	456	10-1
	Tone	P97011	34	MR42				P81032	23	RS213								
								P81043	23	RS216								
								P81042	23	RS216								
62-166	Vol.	P36X200	17	UM117-SS3	M26			P15X204	1	2N518		P19A14	253	C3	6	6D6, 6C6, 75, 41, 84	175	6-19,20
	Tone	P40X201	22	MR44				P15X203	15	TN111								
								.01		Buffer	B14							
62-167	Vol.	P96005	15	MR55	M26			P81058	48	RS216					12	6D6, 76, 42, 80	456	6-5,7
	Tone	P97011	21	MR42				P81039	48	RS216								
								P81056	48	2N516								
								P82000	48	TC39								
62-169	Vol.	P101-26	97	Order from	Mfr.										4	1A6, 32, 33	465	7-12
	Batt.	P101-25	29	M4R														
62-171	Vol.	P101-26	97	Order from	Mfr.										4	1A6, 32, 33	465	7-12
	Batt.	P101-25	29	M4R														
62-173, 62-175, 62-176, 62-177	Vol.	36X205	56	MR48	M26			44X10	23	RS216					7	6D6, 6B7, 76, 42, 80	456	6-24,26
	Tone	40X204	34	MR42				44X11	23	RS216								
62-178	Vol.	36X201	97	TRP617	14			P45X28	12	TC52					5	30, 32, 34, 19	175	6-27,29
62-179	Vol.	P36X206	7 15	DRP315	6T			44X10	4	RS216					10	76, 6K7, 45, 80	456	6-31,34
	Tone	P40X205	65	MR57				44X11	4	RS216								
								44X18	13	RS213								
62-181 (Battery Super)	Vol.	P36X201	6	TRP617	14			P45X28	12	TC52					5	30, 32, 34, 19	175	6-27,29
62-181 "Sovereign"	Vol.		7	D				1-1-1	26	See Note	B1				8	24, 27, 45, 80		2-2
	Tone		41	MR53														
62-185, 62-187	Vol.	36X204	7/56	DRP314	6T			44X10	23	RS216					7	76, 6K7, 6B7, 6F6, 80	456	6-35,37
	Tone	40X204	34	MR42				44X11	23	RS216								
62-188	Vol.	36X205	56	MR48	M26			44X10	23	RS216					7	6D6, 6B7, 76, 42, 80	456	6-23,26
	Tone	40X204	34	MR42				44X11	23	RS216								
62-189	Vol.	36X201	97	TRP617	14			P45X28	12	TC52					6	30, 32, 34, 19	175	6-27,29
62-190	Vol.	36X204	7/56	DRP314	6T			44X10	23	RS216					7	76, 6K7, 6B7, 6F6, 80	456	6-35,37
	Tone	40X204	34	MR42				44X11	23	RS216								
62-192	Vol.	36X210	7/15	DRP315	6			44X21	25	RS216					12	6K7, 76, 6F6, 80	456	7-3,6
	Tone	40X206	21	MR57				44X11	25	RS216								
								44X20	19	Order from	Mfr.							
62-193	Vol.	36X205	56	MR48	M26			44X10	23	RS216					7	6D6, 76, 6B7, 42, 80	456	6-23,26
	Tone	40X204	34	MR42				44X11	23	RS216								
62-194	Vol.	36X206	7/15	DRP315	6T			44X10	4	RS216					10	76, 6K7, 45, 80	456	6-31,34
	Tone	40X205	65	MR57				44X11	4	RS216								
								44X18	13	RS213								
62-195	Vol.	36X210	7/15	DRP315	6T			44X21	25	RS216					12	6K7, 76, 6F6, 80	456	7-3,6
	Tone	40X206	21	MR57				44X11	25	RS216								
								44X20	19	TC39	B8							
62-196	Vol.	36X204	7/56	DRP314	6T			44X10	23	RS216					7	76, 6K7, 6B7, 6F6, 80	456	6-35,37
	Tone	40X204	34	MR42				44X11	23	RS216								
62-197	Vol.	36X212	‡	Order from	Mfr.			30	3	RS223					16	6K7, 76, 6F7, 6B7, 45, 2A3, 5Z3	456	7-7,11
	Tone	40X208	21	MR53				60	19	RS224								
								4-16-4	13/19	UR182								
62-199	Vol.	P96017	17	MR55	M26			P82002	1/15	3S584		P2229	286S	C3	5	6D6, 6C6, 75, 41	175	6-39,40
								.007		Buffer	B14							
62-202	Vol.	36X202	17	UM163	M26		A96	4-5-8	25	3S579			294	C3	6	6D6, 6C6, 75, 41, 84	175	7-13,14
	Tone	40X207	34	MR42				.0075		Buffer	B14							
62-203, 62-205	Vol.	36X207	45	MR53	M24			44X17	12	RS207					7	1C6, 34, 30, 19	456	6-41,44
	Tone	40X203	44	MR42														
62-206	Vol.	36X206	7/15	DRP315	6T			44X10	4	RS216					10	76, 6K7, 45, 80	456	6-31,34
	Tone	40X205	65	MR57				44X11	4	RS216								
								44X18	13	RS213								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued																		
Note: The prefix "62-" or form of "62-" indicates				Radio Division in Montgomery-Ward Catalog														
62-207	Vol.	36X208	15	MR55	M24			45X46	12	2N516					9	§34, §30, 19	456	7-15,18
	Tone	40X203	44	MR42														
62-208	Vol.	36X207	45	MR53	M24			44X17	12	RS207					7	1C6, §34, §30, 19	456	6-41,44
	Tone	40X203	44	MR42														
62-209	Vol.	36X208	15	MR55	M24			45X46	12	2N516					9	§34, §30, 19	456	7-15,18
	Tone	40X203	44	MR42														
62-211	Vol.	36X201	97	TRP617	11			P45X28	12	TC52					5	30, 32, §34, 19	175	6-27,29
62-212	Vol.	36X207	45	MR53	M24			44X17	12	RS207					7	1C6, §30, §34, 19	456	6-41,44
	Tone	40X203	44	MR42														
62-215	Vol.	36X209	15	MR53	M27			44X17	13	RS207					7	§34, 1C6, §30, 19	456	7-19,22
	Tone	40X203	44	MR42														
62-216	Vol.	36X206	7/15	DRP315	6T			44X10	4	RS216					10	§76, §6K7, §45, 80	456	6-31,34
	Tone	40X205	65	MR57				44X11	4	RS216								
								44X18	13	RS213								
62-217	Vol.	36X207	45	MR53	M24			44X17	12	RS207					7	1C6, §34, §30, 19	456	6-41,44
	Tone	40X203	44	MR42														
62-218	Vol.	36X206	7/15	DRP315	6T			44X10	4	RS216					10	§76, §6K7, §45, 80	456	6-31,34
	Tone	40X205	65	MR57				44X11	4	RS216								
								44X18	13	RS213								
62-219	Vol.	36X207	45	MR53	M24			44X17	12	RS207					7	1C6, §34, §30, 19	456	6-41,44
	Tone	40X203	44	MR42														
62-221	Vol.	36X208	15	MR55	M24			45X46	12	2N516					9	§34, §30, 19	456	7-15,18
	Tone	40X203	44	MR42														
62-226, 62-228	Vol.	36X215	17	MRT446	M26T			44X10	23	RS216					8	§6K7, 6C5, 6Q7, 6F6, 5Z4MG, 6G5	456	8-5,7
	Tone	40X211	34	Order from	Mfr.			44X11	23	RS216								
								44X209	15	TC22								
62-229 (32 Volt DC)	Vol.	36X213	18	MR48	M26			P44X25	1	RS223					6	§6D6, 6A7, 85, 43, 6A6	175	7-23,25
	Tone	40X209	44	MR36				P45X207	15	TC22								
62-230 (2 Volt Wet Battery)	Vol.	101-43	62	MR53	M26			BE119-22	19	TC22					5	1A6, 34, 30, 32, 950	465	9-2
62-231	Vol.	P-96014	56	MR48	M26			P-81016	43	TCS71					6	6F7, 6D6, 6B7, 12A5, §12Z3	175	14-41,42
	Tone	P-97011	34	MR42														
62-232	Vol.		6	G7		3		8, 8, 8	28	RS213					7	§24, 27, §45, 80		2-1
62-233	Vol.	P101-35	56	MR53				103-6	4	RS213					5	6A7, 6D6, 6B7, 42, 80	465	7-26
								103-7	4	RS213								
62-235	Vol.	101-18	18	MR48	M26			P103-6	4	RS213					5	6F7, 6K7, 75, 6F6, 80	465	7-27,28
								P103-7	4	RS213								
62-236	Vol.	36X234	18	UM154-SS3	M26			5-8	4	TCS71			294	C3	6	§6D6, 6C6, 75, 41, 84	175	8-8,10
	Tone	40X207	22	MR42				.0075		Buffer	B14							
62-237	Vol.	P-36X213	18	MR48	M26			P-44X25	12	TC39					6	§6D6, 6A7, 85, 43, 6A6	175	14-43,44
	Tone		44	MR36				P-45X207	15	TC22								
62-239	Vol.	P-36X213	18	MR48	M26			P-44X25	12	TC39					6	§6D6, 6A7, 85, 43, 6A6	175	14-43,44
	Tone		44	MR36				P-45X207	15	TC22								
62-240 (2 Volt Dry Battery)	Vol.	101-43	62	MR53	M26			BE119-22	19	TC22					5	1A6, 34, 30, 32, 19	465	9-2
62-240 (Late)	Vol.	101-43	62	MR53	M26			119-22	19	TC22					5	1A6, 34, 30, 32, 950	465	14-38
	Batt.	101-44	‡	C6R														
62-241	Vol.	36X209	45	MR53	M27			44X17	13	RS219					7	§34, 1C6, §30, 19	456	14-45-47
	Tone	40X203	44	MR42														
62-242	Vol.		17	UM163	M26		A96	5-8-4	4/15	3S579			294	C3	6	§6D6, 6C6, 75, 41, 84	175	8-11,13
	Tone		22	MR42				.0075		Buffer	B14							
62-243	Vol.	P-96014	56	MR48	M26			PE-81016	43	TCS71					6	6F7, 6D6, 6B7, 12A5, §12Z3	175	14-41,42
	Tone	P-97011	34	MR42														
62-244, 62-245	Vol.	36X209	45	MR48	M26			44X17	13	RS219					7	§34, 1C6, §30, 19	456	14-45-47
	Tone	40X203	44	MR42														
62-246	Vol. & Sen.	36X204	7/56	DRP314	6T			44X10	23	RS216					7	§6K7, 76, 6B7, 6F6, 80	456	14-48-50
								44X11	23	RS216								
	Tone	40X203	34	MR42														
62-248	Vol.	101-18	18	MR48	M26			P103-6	4	RS213					5	6F7, 6K7, 75, 6F6, 80	465	7-27,28
								P103-7	4	RS213								
62-249	Vol.	101-46	18	MR53	M26			BE103-6	23	RS213					7	6L7, 6C5, 6K7, 6Q7, 6F6, 5W4, 6G5	465	
62-251	Vol.	101-50	62	MR44	M27			BE103-7	23	RS213					8	1A6, 1A4, §30, §34, 19	465	9-3
	Tone	101-51	21	MR44				BE103-11	12	RS213								
62-252	Vol.	36X209	45	MR53	M27			44X17	13	RS219					7	§34, 1C6, §30, 19	456	14-45-47
	Tone	40X203	44	MR42														
62-254	Vol.	36X229	18	MR53				45X212	12	TC52					4	1A6, 34, 1B5, 1F4	456	8-15,16
62-255	Vol.	101-50	62	MR44	M27			BE103-11	12	RS213					7	1A6, 1A4, §30, §34, 19	465	9-3
	Tone	101-51	21	MR44														
62-256	Vol.	BE-101-49	18	MR53	M26			BE-103-6	23	RS213					6	6A7, 78, 75, 6G5, 41, 80	465	14-55,56
								BE-103-7	23	RS213								
62-258	Vol.	36X233	18	Order from	Mfr.			45X219	1/15	3S579		19A30	248	C3	6	§6K7, 6J7, 6B7, 41, 6A6	175	
	Tone	40X212	22	MR53				.0055		Buffer	B14							
62-259	Vol.	36X215	17	MRT446	M26T			44X10	23	RS216					8	§6K7, 6C5, 6Q7, 6F6, 6G5, 5Z4MG	456	8-5,7
	Tone	40X211	34	Order from	Mfr.			44X11	23	RS216								
								44X209	15	TC22								
62-260	Vol.	101-54	18	MR53	M26			119-25	11	UR182					5	6A7, 78, 75, 43, 25Z5	465	14-59
								119-29	4	2S556								
62-261	Vol.	36X219	62	MRT447	M26			44X10	25	RS216					11	§6K7, §6C5, 6G5, §6F6, 5Z4MG	456	9-5,8
	Tone	40X213	65	Order from	Mfr.			44X11	25	RS216								
								44X213	13/15	2N509								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS: Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	CONDENSERS: Original Part	Circuit	Correct Replacement	*Note	VIBRATORS: Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
MONTGOMERY WARD & CO.—Continued																		
Note: The prefix "62-" or form of "62-" indicates Radio Division in Montgomery-Ward Catalog																		
62-262	Vol.	36X215	17	MRT446	M26T			44X10	23	RS216					8	6K7, 6C5, 6Q7, 6F6, 6G5, 5Z4MG	456	14-60-62
	Tone	40X211	34	Order from	Mfr.			44X11	23	RS216								
								45X209	15	TC22								
62-263	Vol.	36X234	18	UM117-SS3	M26			45X210	4	TC871		19A25	294	C3	6	6D6, 6C6, 75, 41, 84	175	
	Tone	40X207	22	MR42				.0075		Buffer	B14							
62-264	Vol.	101-64	56	MR53	M27			119-31	1	2N516		126-4	246	C3	5	1A6, 1A4, 1F6, 1F4, 6N5	465	9-4
								.005		Buffer	B14							
62-266	Vol.	101-74	18	MR53	M26			103-14	4	RS216					8	6A8G, 6K7, 6Q7G, 6G5, 6C5, 6F6G, 5Y3	165	14-64-66
	Tone	101-75	22	MR44				103-6	4	RS213								
62-267	Vol.		18	MR48	M26			12	23	RS215					7	6J7, 6K7, 6Q7, 6C5, 6F6, 5W4, 6G5	456	8-17,21
	Tone		34	Order from	Mfr.			16	23	RS216								
62-269	Vol.	101-16	18	MR53	M26			103-6	23	RS213					7	6L7, 6C5, 6K7, 6G5, 6Q7, 6F6, 5Y3	465	14-66-68
	Tone	101-53	22	MR33				103-7	23	RS213								
62-270, 62-270E	Vol.	36X236	75	MRT428	M26			44X10	23	RS216					9	6K7, 6J7, 6C5, 6H6, 6G5, 6F5, 6F6, 5Y3G	156	14-69,70
	Tone	40X223	34	MR42				44X11	23	RS216								
62-271	Vol.	P36X219	20	MRT447	M26			44X30	1	RS216					11	6K7, 6C5, 6G5, 6F6, 5Z4MG	456	14-82-88
	Tone	P40X222	‡	UM163-SS16				44X11	1	RS216								
								45X213	13/15	TCD45								
62-274	Vol.	101-101	18	MK402	M26			119-47B	23	TC871					6	6A8G, 6K7, 6Q7G, 6U5, 6K6G, 5Y3G	465	9-9
62-276	Vol.	101-71	18	MR53	M26			119-38	4	2S567					6	6A8, 6K7, 6Q7, 6K6, 6G5, 5Y3	465	9-13
62-277	Vol.		18	MR48	M26			12	23	RS215					7	6J7, 6K7, 6Q7, 6C5, 6G5, 6F6, 5W4	456	8-17,21
	Tone		34	Order from	Mfr.			16	23	RS216								
62-278	Vol.	36X240	62	MR48	M26			15X229	1/15	3N527			248	C3	7	6S7G, 6L5G, 6N5, 6K6G	156	14-73,74
	Tone	40X223	34	MR42				.01		Buffer	B14							
62-280	Vol.	101-99	18	MR53	M27			119-46	24	2N516		126-4	216	C3	5	6D8G, 6S7G, 6T7G, 6K6G, 6AB5	465	9-12
								.005		Buffer	B14							
62-280, 62-282, 62-284 (Series B)	Vol.	101-101	18	MK402	M26			119-59B	24	TC52/TC47		126-8	246	C3	5	6D8, 6S7G, 6T7G, 6K6G, 6N5	465	
								119-76	20	TC22								
								.003		Buffer	B14							
62-281	Vol.	101-46	18	MR53	M26			119-30	23	2S556					8	6L7, 6C5, 6K7, 6G5, 6Q7, 25A6, 25Z6	165	14-75,76
	Tone	101-51	44	MR44														
62-286	Vol.	P-36X218	18	MR53	M24			P-45X212	12	TC12					6	1C6, 34, 1B5, 330	156	14-77,78
62-288, 62-290	Vol.	101-101	18	MK402	M26			119-47B	23	TC871					6	6A8G, 6K7, 6Q7G, 6U5, 6K6G, 5Y3G	465	9-9,11
62-291	Vol.	101-16	18	MR53	M26			119-30	4	2S556					8	6L7, 6C5, 6K7, 6G5, 6Q7, 25L6, 25Z6	165	14-79,80
	Tone	101-51	22	MR44														
62-292	Vol.	36X239	45	MR53				45X225	13	2N516		19A28	246	C3	7	1C7G, 1D5G, 1H4G, 1E5G	456	
	Tone	40X226	44	MR42				45X234	1	2N514								
								45X233	‡	Order from	Mfr.							
								.02		Buffer	B14							
62-293	Vol.	P36X221	20	MRT450	M26			44X21	30	RS223					13	6K7, 6C5, 6H6, 6G5, 6L6, 5Z4MG	156	11-81, 83-88
	Tone	P40X214	65	Order from	Mfr.			44X11	30	RS216								
								44X216	13	TC52								
								44X209	19	TC22								
62-294	Vol.	36X239	45	MR53				45X225	13	2N516		19A28	246	C3	7	1C7G, 1D5G, 1H4G, 1E5G	456	
	Tone	40X226	44	MR39				45X234	1	2N514								
								45X233	‡	Order from	Mfr.							
								.02		Buffer	B14							
62-296	Vol.	101-93	18	MR53	M26			119-45	23	2S567					6	6L7, 6C5, 6K7, 6Q7, 6F6, 5Y3	465	14-89,90
	Tone	101-92	22	MR33														
62-297	Vol.	36X235	18	MR48	M26			12	23	RS215					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-15
	Tone	40X223	34	MR39				30	23	RS223								
62-300	Vol.	101-74	18	MR53	M26			103-6	4	RS213					7	6A8, 6K7, 6Q7, 6C5, 6F6, 5Y3	165	14-91,92
	Tone	101-75	22	MR44				103-14	4	RS216								
62-301, 62-301X	Vol.		20			See Note A19		30	25	RS223					11	6K7, 6J7, 6H6, 6F5, 6G5, 6C5, 6F6, 5Z3	465	9-21
	Tone		22			See Note A5		14	25	RS216								
62-302	Vol.	36X213	18	MR18	M26			45X227	12/15	TC39/TC22					7	6A8G, 6U7G, 6V7G, 6C5G, 25A6G, 6N7G	456	9-23
	Tone	40X209	44	MR36														
62-303	Vol.	36X238	20	MRT450	M26			44X21	25	RS223					13	6K7, 6J7, 6H6, 6C5, 6G5, 6L6, 5Y3G	456	11-3-10
	Tone	40X225	41	MR55				44X36	25	RS224								
								45X224	19	TC26								
62-304	Vol.	36X237	18	MR53	M27			45X212	12	TC52					4	1D7G, 1D5G, 1H6G, 1F5G	456	9-25
	Fil.	43X70	27	C6R														
62-305	Vol.	101-78	56	MR44	M26			119-22	19	TC22					5	1D7G, 1D5G, 1F7G, 1G5G	465	9-26
	Fil.	101-79	29	C6R														
62-306	Vol.	101-83	18	MR53	M26			119-38	23	2S567					6	6A8G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3G	465	
62-307	Vol.	101-46	18	MR53	M26			P103-6	23	RS213					7	6L7, 6C5, 6K7, 6Q7, 6F6, 5W4, 6G5	465	9-27,28
	Tone	101-53	22	MR33				P103-7	23	RS213								
62-308	Vol.	36X215	17	MRT446	M26T			44X10	23	RS216					8	6K7, 6C5, 6Q7, 6F6, 5Z4MG, 6G5	456	8-5,7
	Tone	40X211	34	Order from	Mfr.			44X11	23	RS216								
								44X209	15	TC22								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued																		
Note: The prefix "62-" or form of "62-" indicates Radio Division in Montgomery-								Ward Catalog										
62-309	Vol.	36X236	45	MRT428	M26			44X10	23	RS216					9	6K7, 6J7, 6C5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456	11-11-13
	Tone	40X223	34	MR42				44X11	23	RS216								
62-310	Vol.	36X220	64	MRT447	M24			4	12	TC52					10	30, 32, 31	456	8-23,25
	Tone	40X211	44	Order from	Mfr.													
62-311	Vol.	36X219	62	MRT447	M26			44X10	25	RS216					11	6K7, 6C5, 6G5, 6F6, 5Z4MG	456	9-5,8
	Tone	40X213	65	Order from	Mfr.			44X11	25	RS216								
								44X213	13/15	2N509								
62-312	Vol.	36X213	18	MR18	M26			30-12	12/15	2N513					7	6A8G, 6U7G, 6V7G, 6C5G, 25A6G, 6N7G	456	9-23
	Tone	40X209	44	MR36														
62-313	Vol.	36X221	17	MRT450	M26			P44X21	30	RS223					13	6K7, 6C5, 6G5, 6H6, 6L6, 5Z4	456	8-26,28
	Tone	40X214	65	Order from	Mfr.			P44X11	30	RS216								
								P45X216	13	TC52								
								P45X209	19	TC22								
62-315	Vol.	101-49	18	MR53	M26			BE103-6	23	RS213					5	6A7, 78, 75, 41, 80	465	9-29
								BE103-7	23	RS213								
62-316	Vol.	101-46	18	MR53	M26			BE103-6	23	RS213					6	6L7, 6C5, 6K7G, 6Q7G, 6F6G, 5Y3	465	9-30,31
								BE103-7	23	RS213								
62-317	Vol.	101-46	18	MR53	M26			BE103-6	23	RS213					7	6L7, 6C5, 6K7, 6Q7, 6F6, 5W4, 6G5	465	
	Tone	101-53	22	MR33				BE103-7	23	RS213								
62-318	Vol.	36X215	17	MRT446	6T			44X10	23	RS216					8	6K7, 6C5, 6Q7, 6F6, 5Z4, 6G5	456	8-5,7
	Tone	40X211	34	Order from	Mfr.			44X11	23	RS216								
								44X209	15	TC22								
62-319	Vol.	101-60	124	MRT436	M26			103-12	25	RS213					9	6K7, 6J7, 6H6, 6F5, 6C5, 6F6, 5Y3G, 6G5	465	
	Tone	101-61	21	Order from	Mfr.			103-13	25	ST595								
62-320	Vol.	36X244	71	UM120-SS18	M26			45X237	1/15	3N527					4	6J7, 25L6G, 25Z6G, L55B	456	9-32
								45X242	1/15	Order from	Mfr.							
62-321	Vol.	36X236	75	MRT428	M26			44X11	25	RS216					11	6K7, 6J7, 6H6, 6C5, 6G5, 6F6, 5Y3G	456	11-15,16
	Tone	40X224	34	MR53				41X30	25	RS216								
								45X222	19	TC26								
								45X223	13	TC52								
62-322	Vol.	36X252	17	UM165-SS25	M26			45X241	12/15	2N514					7	6A8G, 6U7G, 6V7G, 25A6G, 6J5G, 6N7G	456	9-33
	Tone	40X229	41	MK100														
62-323	Vol.	101-126	18	MK102	M26			119-63B	4	2S569					7	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5	465	10-7,8
62-324	Vol.	101-104	18	MR53				103-6	4	RS213					7	6A8, 6K7, 6Q7, 6J5, 6F6, 5Y3	465	10-10
	Tone	101-105	21	MR44	M26			103-14	4	RS216								
62-325	Vol.	36X244	71	UM120-SS18	M26			45X237	1/15	3N527					4	6J7, 25L6G, 25Z6G, L55B	456	9-32
								45X242	1/15	Order from	Mfr.							
62-326	Vol.	36X218	18	MR53	M24			P45X212	12	TC52					6	1B5, 1C6, 30, 34	456	8-31,35
62-327	Vol.	36X222	45	MR53	M27			4-18-18	1/13	FP354	.B117	P19A27	Order from Mfr.		7	31, 1C6, 30, 19	456	8-36,38
	Tone	40X215	44	MR42				20	1	RS207								
								.01		Buffer	.B14							
62-328	Vol.	101-50	62	MR44	M27			BE103-11	12	RS213					7	1A6, 1A4, 30, 34, 19	465	9-3
	Tone	101-51	21	MR44														
62-329	Vol.	101-60	124	MRT436	M26			103-13	25	RS213					9	6K7, 6J7, 6H6, 6F5, 6C5, 6F6, 6G5, 5Y3G	465	
	Tone	101-61	21	Order from	Mfr.			103-12	25	RS213								
62-331	Vol.	36X220	15	MRT447	M24			45X214	13	3S582			Order from Mfr.		11	34, 32, 6N5, 30	456	9-36
	Tone	40X211	44	Order from	Mfr.			45X226	23	TCS45								
								45X228	‡	Order from	Mfr.							
								.01		Buffer	.B14							
62-332 (32 volt DC)	Vol.	36X213	18	MR18	M26			12	15	TC22					7	6K7, 6A8, 85, 43, 6A6	456	
	Tone	40X209	44	MR36				50	13	TC29								
62-334	Vol.	36X248	15	MR53	M26			45X236	24/15	TCS61/TC26		19A32	952W	C3	5	6A8G, 6U7G, 6H6, 6K6G, 6F5G	456	9-37
								45X239	15	TC22								
								.018		Buffer	.B14							
62-336	Vol.	36X218	18	MR53	M24			P45X212	12	TC52					6	1B5, 1C6, 30, 34	456	8-31,35
62-337	Vol.	36X222	45	MR53	M27			4-18-18	1/13	FP354	.B117		Order from Mfr.		6	34, 1C6, 30, 19	456	8-36,38
	Tone	40X215	44	MR42				20	1	RS207								
								.01		Buffer	.B14							
62-338	Vol.	101-50	62	MR44	M27			BE103-11	12	RS213					7	1A6, 1A4, 30, 34, 19	465	9-3
	Tone	101-51	21	MR44														
62-341	Vol.	101-36	124	DTM287-SS1	M26			103-8	1	RS216					11	6K7, 6J7, 6C5, 6H6, 6F5, 6G5, 6F6, 5Z3	465	14-95,96
	Tone	101-40	22	SRP287	8			103-10	1	RS223								
62-345	Vol.	101-80	18	MR53	M27			119-40	1	2N316		126-4	246	C3	5	6D8G, 6S7G, 6T7G, 1F5G, 6N5	465	9-39
								.005		Buffer	.B14							
62-346	Vol.	101-77	18	MR53	M26			119-38	23	2S567					5	6A8G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3G	465	9-39
62-347	Vol.	36X235	18	MR48	M26			44X31	23	RS215					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	11-17,18
	Tone	40X223	34	MR42				44X35	23	RS224								
62-349	Vol.	36X236	124	MRT428	M26			44X10	23	RS216					9	6K7, 6J7, 6C5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456	14-97,98
	Tone	40X223	34	MR42				44X11	23	RS216								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS: Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	CONDENSERS: Original Part	Circuit	Correct Replacement	*Note	VIBRATORS: Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
MONTGOMERY WARD & CO.—Continued Note: The prefix "62-" or form of "62-" indicates				Radio Division		Montgomery-		Ward Catalog										
62-350, 62-351, 62-352	Vol.	101-106	18	UM161-SS18	M26			119-47C	23	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5W4 or 5Y3G	465	9-41
62-353	Vol.	101-126	18	MK402	M26			119-63B	4	2S569					7	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5	465	
62-354	Vol.	101-111	56	MK400	M27			119-52	20	TC26					5	1C7G, 1D5G, 1F7G, 1G5G	465	14-72
	Fil.	101-112	‡	M4R														
62-355	Vol.	9550VR	18	MR53	M26			9567CE	43	2S567					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	165	14-99
62-356	Vol.	101-81	18	MR48	M27			119-41	1	2N516		126-4	246	C3	6	6D8G or 6A8G, 6S7G, 6T7G, 6L5G, 1J6G, 6N5	465	
	Tone	101-82	22	MR39				.005		Buffer	B14							
62-357	Vol.	36X235	18	MR48	M26			12	23	RS215					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-15
	Tone	40X223	34	MR39				30	23	RS223								
62-358	Vol.	36X235	18	MR48	M26			44X37	23	RS219					8	6J7, 6K7, 6J5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456	
	Tone	40X223	34	MR42				44X38	23	RS224								
62-359	Vol.	36X240	62	MR48	M26			45X229	1/15	3N527			248	C3	7	6S7G, 6L5G, 6N5, 6K6G	456	14-107, 108
	Tone	40X223	34	MR42				.01		Buffer	B14							
62-360	Vol.	P90942	97	Order from	Mfr.			6, 8	25	RS213					6	24, 15, 80		
62-361 Issue A and Issue B	Vol.	101-118	18	MK402	M26			119-48	4	2S567					6	6A8G, 6K7, 6Q7G, 6K6G, 6U5, 5Y3G	465	9-42
	Tone	101-119	‡	MK402														
62-362	Vol.	101-118	18	MK402	M26			119-48	4	2S567					6	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G, 6U5	465	9-45
	Tone	101-119	21	MK402														
62-363	Vol.	36X249	17	UM165-SS25	M26			45X243	1/15	TCS64/TC26			246	C3	6	6D8G, 6S7G, 6T7G, 6AB5, 6G6G	456	9-48
	Tone	40X231	22	UM144-SS25				45X239	15	TC22								
								.015		Buffer	B14							
62-364	Vol.	36X246	17	UM163	M26		A96	45X235	1	2N518			952W	C3	6	6U7G, 6J7G, 6B8G, 6K6G, 6N7G	175	10-11
								45X240	13	TC70								
								45X239	15	TC22								
								.008		Buffer	B14							
62-365	Vol.	9550VR	18	MR53	M26			9567CE	43	2S567					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	165	14-99
62-367	Vol.	36X235	18	MR48	M26			44X31	23	RS215					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-15
	Tone	40X223	22	MR42				44X35	23	RS224								
62-368	Vol.	36X235	18	MR48	M26			44X37	23	RS219					8	6J7, 6K7, 6J5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456	
	Tone	40X223	34	MR42				44X38	23	RS224								
62-369	Vol.	36X232	56	Order from	Mfr.			45X219	1/15	3S579		19A30	248	C3	6	6K7, 6J7, 6B8G, 6K6G, 6N7G	175	10-12
	Tone	20A49	22	Order from	Mfr.			.0055		Buffer	B14							
62-370	Vol.	36X249	127	UM165-SS25				44X37	23	RS219					7	6A8G, 6U7G, 6J5G, 6U5, 6Q7G, 6K6G, 5Y3G	456	10-13,14
	Tone	40X229	34	MK400				44X38	23	RS224								
62-371	Vol.	101-46	18	MR53	M26			119-30	4	2S556					8	6L7, 6C5, 6K7, 6G5, 6Q7, 25L6, 25Z6	465	14-79,80
	Tone	101-51	22	MR41														
62-372	Vol.	36X235	18	MR48	M26			44X31	23	RS215					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-49
	Tone	40X223	34	MR42				44X35	23	RS224								
62-373, 62-374	Vol.	36X239	45	MR53				45X225	13	2N516			246	C3	7	1C7G, 1D5G, 1H4G, 1E3G	456	
	Tone	40X226	44	MR39				45X234	1	2N514								
								45X233	‡	Order from	Mfr.							
								.02		Buffer	B14							
62-375	Vol.	9550VR	18	MR53	M26			9567CE	43	2S567					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	465	14-99
62-376	Vol.	101-81	18	MR48	M27			119-41	1	2N516		126-4	246	C3	6	6A8G, 6D8G, 6S7G, 6T7G, 6L5G, 1J6G, 6N5	465	11-14
	Tone	101-82	22	MR39				.005		Buffer	B14							
62-377	Vol.	36X239	45	MR53	M24			45X225	13	2N516					7	1C7G, 1D5G, 1H4G, 1E5G	456	9-51
	Tone	40X226	44	MR39														
62-380	Vol.	101-71	18	MR53	M26			119-38	4	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-16
62-383	Vol.	101-71	18	MR53	M26			119-38	4	2S567					5	6A8, 6K7, 6Q7, 6K6, 5Y3	465	14-100
62-385	Vol.	101-78	56	MR41	M26			119-22	19	TC22					5	1D7G, 1H5G, 1F7G, 1G5G	465	9-26
	Fil.	101-79	29	C6R														
62-386	Vol.		18	MR53	M26			5-5	23	2S567					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G, 6G5	465	10-17
62-387	Vol.	36X239	45	MR53	M24			45X225	13	2N516					7	1C7G, 1D5G, 1H4G, 1E5G	456	9-51
	Tone	40X223	44	MR39														
62-390	Vol.	101-122	45	MK401	M26			119-60	1/19	3S581/TC29	B8				9	6K7, 6K8, 6J5G, 6U5, 6Q7G, 6K6G, 5Y3G	465	9-53
	Tone	101-123	22	MK400				119-61	13	TC62								
62-401	Vol.	36X245	20	TM247-SS25				44X30	25	BS216					11	6U7G, 6J7G, 6H6, 6J5G, 6F6G, 5Y3G, 6U5	456	9-55
	Tone	40X228	34	MK402				44X36	25	RS224								
								45X238	19	TC29								
62-402	Vol.	36X251	45	UM163-SS22	M26			44X39	4	RS219					11	6D6, 6C6, 6U5, 41, 80	465	9-56
	Tone	40X230	95	UM161-SS22			A100	44X40	4	RS224								
								45X239	15	TC22								

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS: Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	CONDENSERS: Original Part	Circuit	Correct Replacement	*Note	VIBRATORS: Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
MONTGOMERY WARD & CO.—Continued Note: The prefix "62-" or form of "62-" indicates																		
62-403	Vol.	36X253	20	Radio Division in TM250-SS25		Montgomery-		Ward Catalog										
	Tone	40X232	21	Order from Mfr.				44X21	25	RS223					13	[5]6U7G, 6J7G, 6H6, 6J5G, 6F8G, 6U5, [4]6F6G, 5U4G	456	9-59,60
								44X36	25	RS224								
								44X244	19	TC39								
								45X239	15	TC22								
62-404	Vol.	36X237	18	MR53	M27			4	12	TC40					4	1D7G, 1D5G, 1H6G, 1F5G	456	9-25
	Fil.	43X70	27	C6R														
62-405	Vol.	101-78	56	MR44	M26			119-22	19	TC22					5	1D7G, [2]1D5G, 1F7G, 1G5G	465	9-26
	Fil.	101-79	29	C6R														
62-406	Vol.	101-83	18	MR53	M26			119-38	23	2S567					6	6A8G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3G	465	
62-407	Vol.	101-46	18	MR53	M26			P103-6	23	RS213					7	6L7, 6C5, 6K7, 6Q7, 6F6, 5W4, 6G5	465	9-27,28
	Tone	101-53	22	MR33				P103-7	23	RS213								
62-408	Vol.	36X215	17	MRT446	M26T			44X10	23	RS216					8	[3]6K7, 6C5, 6Q7, 6F6, 5Z4, 6G5	456	8-6,7
	Tone	40X211	34	Order from	Mfr.			44X11	23	RS216								
								44X209	15	TC22								
62-409	Vol.	101-60	45	MRT436	M26			103-12	25	RS213					8	[3]6K7, 6J7, 6H6, 6F5, 6C5, 6F6, 5Y3G	465	
	Tone	101-61	21	Order from	Mfr.			103-13	25	ST595								
62-410	Vol.	36X220	64	MRT447	M24			4	12	TC52					10	[6]30, 32, [3]34	456	8-22,25
	Tone	40X211	44	Order from	Mfr.													
62-411	Vol.	36X219	62	MRT447	M26			44X10	25	RS216					11	[4]6K7, [3]6C5, 6G5, [3]6F6, 5Z4MG	456	9-5,8
	Tone	40X213	65	Order from	Mfr.			44X11	25	RS216								
								44X213	13/15	2N509								
62-412	Vol.	P-36X220	64	MRT447	M24			P-45X214	12/34	3S582					10	[3]34, 32, [6]30	456	14-109, 110,111
	Tone	P-40X211	44	Order from	Mfr.													
62-413	Vol.	36X221	20	MRT450	M26			P44X21	30	RS223					13	[4]6K7, [3]6C5, 6G5, 6H6, [3]6L6, [5]5Z4	456	8-27
	Tone	40X214	65	Order from	Mfr.			P44X11	30	RS216								
								P45X216	13	TC62								
								P45X209	19	TC22								
62-414	Vol.	101-78	56	MR44	M26			119-22	19	TC22					5	1D7G, [2]1D5G, 1F7G, 1G5G	465	9-26
	Fil.	101-79	29	C6R														
62-415	Vol.	101-49	18	MR53	M26			BE103-6	23	RS213					5	6A7, 78, 75, 41, 80	465	9-29
								BE103-7	23	RS213								
62-416	Vol.	101-46	18	MR53	M26			BE103-6	23	RS213					6	6L7, 6C5, 6K7G, 6Q7G, 6F6G, 5Y3	465	9-30,31
								BE103-7	23	RS213								
62-417	Vol.	36X235	18	MR48	M26			44X31	23	RS215					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	
	Tone	40X223	34	MR42				44X35	23	RS224								
62-418	Vol.	36X215	17	MRT446	M26T			44X10	23	RS216					8	[3]6K7, 6C5, 6Q7, 6F6, 5Z4, 6G5	456	8-5,7
	Tone	40X211	34	Order from	Mfr.			44X11	23	RS216								
								44X209	15	TC22								
62-419	Vol.	101-60	124	MRT436	M26			103-13	25	RS213					9	[3]6K7, 6J7, 6H6, 6F5, 6C5, 6F6, 6G5, 5Y3G	465	
	Tone	101-61	21	Order from	Mfr.			103-12	25	RS213								
62-422	Vol.	36X252	17	MR57	M26			30-20	12/15	2N514					7	6A8G, [3]6U7G, 6V7G, 25A6G, 6J5G, 6N7G	456	9-33
	Tone	40X229	41	UM147-SS25			A100											
62-425	Vol.	101-54	18	MR53	M26			119-24	23	2S567					5	6A7, 78, 75, 41, 5Z4	465	9-57
62-426	Vol.	36X218	18	MR53	M24			4	12	TC52					6	1B5, [2]1C6, 30, 34	456	8-31,35
62-427	Vol.	36X222	45	MR53	M27			4-18-18	1/13	FP354	B117		Order from Mfr.		7	[3]34, 1C6, [3]30, 19	456	8-37,38
	Tone	40X215	44	MR42				20	1	RS207								
								.01		Buffer	B14							
62-428	Vol.	101-50	62	MR44	M27			BE103-11	12	RS213					7	1A6, 1A4, [3]30, [3]34, 19	465	9-3
	Tone	101-51	21	MR44														
62-429	Vol.	P-36X218	18	MR53	M24			P-45X212	12	TC42					6	1C6, 34, 1B5, [3]30	456	14-77,78
62-430	Vol.	101-50	62	MR44	M27			103-11	12	RS213					8	1A6, [3]30, 1A4, [3]34, 19	465	14-115, 116
	Tone	101-51	21	MR44														
62-432 (32 volt DC)	Vol.	36X213	18	MR48	M26			12	15	TC22					7	[3]6K7, 6A8, 85, 43, 6A6	456	
	Tone	40X209	44	MR36				50	13	TC29								
62-433	Vol.	36X238	20	MRT450	M26			44X21	25	RS223					13	[3]6K7, 6J7, 6H6, [3]6C5, 6G5, [3]6L6, [5]5Y3G	456	
	Tone	40X225	41	MR55				44X36	25	RS224								
								45X224	19	TC26								
62-434, 62-435	Vol.	101-111	56	MK400	M27			119-52	19	TC26					5	1C7G, [2]1D5G, 1F7G, 1G5G	465	9-58
	Fil.	101-112	29	M4R														
62-436	Vol.	36X218	18	MR53	M24			P45X212	12	TC52					6	1B5, 1C6, [3]30, 34	456	8-31,35
62-437	Vol.	36X222	45	MR53	M27			4-18-18	1/13	FP354	B117		Order from Mfr.		7	[3]34, 1C6, [3]30, 19	456	8-37,38
	Tone	40X215	44	MR42				20	1	RS207								
								.01		Buffer	B14							
62-439	Vol.	P-36X218	18	MR53	M24			P-45X212	12	TC42					6	1C6, 34, 1B5, [3]30	456	14-77,78
62-441	Vol.	36X220	15	MRT447	M24			45X214	13	3S582			Order from Mfr.		11	[3]34, 32, 6N5, [6]30	456	9-36
	Tone	40X211	44	Order from	Mfr.			45X226	23	TCS45								
								45X228	‡	Order from	Mfr.							
								.01		Buffer	B14							
62-442	Vol.	36X213	18	MR48	M26			30-12	12/15	2N513					7	6A8G, [2]6U7G, 6V7G, 6C5G, 25A6G, 6N7G	456	9-23
	Tone	40X209	44	MR36														
62-445	Vol.	101-77	18	MR53	M26			119-38	22	2S567					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-63
62-446	Vol.	101-81	18	MR48	M27			119-41	1	2N516		246		C3	6	6D8G or 6A8G, [3]6S7G, 6T7G, 6L5G, 1J6G, 6N5	465	
	Tone	101-82	22	MR39				.005		Buffer	B14							

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued Note: The prefix "62-" or from "62-" indicates Montgomery-Ward Catalog.																		
62-447	Vol.	36X235	18	MR48	M26			44X31	23	RS215					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	
	Tone	40X223	34	MR42				44X35	23	RS224								
62-448	Vol.	36X235	18	MR48	M26			44X37	23	RS219					8	6J7, 6K7, 6J5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456	
	Tone	40X223	34	MR42				44X38	23	RS224								
62-449	Vol.	36X236	75	MRT428	M26			44X10	23	RS216					9	‡6K7, 6J7, 6C5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456	
	Tone	40X223	34	MR42				44X11	23	RS216								
62-451	Vol.	36X236	18	MRT428	M26			44X11	25	RS216					11	‡6K7, ‡6J7, 6H6, ‡6C5, 6G5, ‡6F6, 5Y3G	456	
	Tone	40X224	34	MR53				44X30	25	RS216								
								45X222	19	TC26								
								45X223	13	TC52								
62-452	Vol.	36X213	18	MR48	M26			30-12	12/15	2N513					7	6A8G, ‡6U7G, 6V7G, 6C5G, 25A6G, 6N7G	456	9-23
	Tone	40X209	44	MR36														
62-453	Vol.	101-155	18	MK402	M27			119-52	19	TC26					4	1D7G, 1D5G-P, 1F7G, 1G5G	465	
	Fil.	101-156	29	M4R														
62-454	Vol.	101-163	18	MK402	M27			119-35	19	TC26					4	1A7G, 1N5G, 1H5G, 1C5G	465	
62-455	Vol.	101-77	18	MR53	M26			119-38	23	2S567					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-63
62-457	Vol.	36X235	18	MR48	M26			44X31	23	RS215					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-15
	Tone	40X223	34	MR39				44X35	23	RS224								
62-458	Vol.	36X235	18	MR48	M26			44X37	23	RS219					8	6J7, 6K7, 6J5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456	
	Tone	40X223	34	MR42				44X38	23	RS224								
62-459 Ser. A	Vol.	101-107	18	UM154-SS18	M26			119-58	24	TC47		126-8	246	C3	4	6D8, 6S7, 6T7, 6K6	465	10-21
								119-57	24/15	2N509								
								.003		Buffer	B14							
62-463	Vol.	36X249	17	UM165-SS25	M26			45X243	1/15	TCS64/TC26		19A28	246	C3	6	6D8G, ‡6S7G, 6T7G, 6AB5, 6G6G	456	9-48
	Tone	40X231	34	MR42				45X239	15	TC22								
								.015		Buffer	B14							
62-465	Vol.	101-80	18	MR53	M27			119-40	1	2N516		126-4	246	C3	5	6D8G, 6S7G, 6T7G, 1F5G, 6N5	465	9-64
								.005		Buffer	B14							
62-466	Vol.	101-81	18	MR48	M27			119-41	1	2N516			246	C3	6	6D8G or 6A8G, ‡6S7G, 6T7G, 6L5G, 1J6G, 6N5	465	
	Tone	101-82	22	MR39				.005		Buffer	B14							
62-467	Vol.	36X235	18	MR48	M26			44X31	23	RS215					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-15
	Tone	40X223	34	MR39				44X35	23	RS224								
62-470	Vol.	36X249	17	UM165-SS25	M26			44X37	23	RS219					7	6A8G, 6U7G, 6J5G, 6U5, 6Q7G, 6K6G, 5Y3G	456	
	Tone	40X229	34	MK400				44X38	23	RS224								
62-471, 62-472	Vol.	36X243	18	MR48	M26			44X37	23	RS219					7	6A8G, 6U7G, 6Q7G, 6K6G, 6J5G, 6U5, 5Y3G	456	
	Tone	40X227	34	MR39				44X38	23	RS224								
62-473	Vol.	101-137	18	MK402				119-69	23	2S369					7	6K8G, 6K7, 6Q7G, 6P5G, 6U5, 6AC5G, 5Y3G	465	9-65,66
	Tone	101-136	22	MK400	M26		A39											
62-475	Vol.	101-77	18	MR53	M26			119-38	23	2S567					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-63
62-476	Vol.	101-77	18	MR53	M26			119-38	23	2S567					6	6A8G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3G	465	9-68
62-477	Vol.	36X239	45	MR53	M24			45X225	13	2N516					7	1C7G, 1D5G, ‡1H4G, 1E5G	456	9-51
	Tone	40X226	44	MR39														
62-479	Vol.	36X249	17	UM165-SS25	M26			44X37	23	RS219					7	6A8G, 6U7G, 6Q7G, 6J5G, 6K6G, 6U5, 5Y3G	456	9-69
	Tone	40X229	34	MK400				44X38	23	RS224								
62-487	Vol.	36X239	45	MR53	M26			45X225	13	2N516					7	1C7G, 1D5G, ‡1H4G, 1E5G	456	9-51
	Tone	40X226	44	MR39														
62-490	Vol.	101-122	45	MK401	M26			119-60	1/19	3S584/TC29	B8				9	‡6K7, 6K8, ‡6J5G, 6U5, 6Q7G, 6K6G, 5Y3G	465	9-53
	Tone	101-123	22	MK400				119-61	13	TC62								
62-495	Vol.	101-78	56	MR44	M26			119-22	19	TC22					5	1D7G, ‡1D5G, 1F7G, 1G5G	465	9-26
	Fil.	101-79	29	C6R														
62-497	Vol.	36X235	18	MR48	M26			44X31	23	RS215					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-15
	Tone	40X223	34	MR39				44X35	23	RS224								
62-500	Vol.	101-95	18	MR53	M26			119-38	4	2S567					7	6L7G, 6K7, 6Q7G, 6K6G, 6J5G, 6G5, 5Y3G	465	9-71
	Tone	101-96	21	MR53														
62-501, 502 (Ser. A Above 286700 up)	Vol.	101-138	8	UM129-SS25	M26			B11970	1/15	FP306					4	6A8, 6J7, 25L6G, 25Z6G, 62A	465	10-22, 14-90
62-503	Vol.	101-100	18	MR53	M26			119-48	4	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	121
62-504A	Vol.	101-164	18	MK402	M26			119-82	24	2N513					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	465	10-23
62-505A	Vol.	101-164	18	MK402	M26			119-82	24	2N513					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	465	
62-506	Vol.	101-88	18	MR53	M24			119-44	12	TC52					6	1C7G, 1D5G, 1H6G, ‡1H4G	465	9-62
	Fil.	101-89	29	M4R														

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued Note: The prefix "62-" or from "62-" indicates Radio Division in Montgomery-Ward Catalog.																		
62-516	Vol.	101-88	18	MR53	M24			119-44	12	TC52					6	1C7G, 1D5G, 1H6G, [1]1H4G	465	9-62
	Fil.	101-89	29	M4R														
62-520	Vol.		6	G7		3		8, 8	25	RS213	B3				4	[2]24, 71A, 80		
62-524	Vol.	101-111	56	MK400	M27			119-52	20	TC26					5	1C7G, [2]1D5G, 1F7G, 1G5G	465	14-72
	Fil.	101-112	‡	M4R														
62-536	Vol.	101-77	18	MR53	M26			119-42	4	2S556					5	6A8, 6K7, 6R7, 25L6, 25Z6	470	14-122
62-546	Vol.	101-77	18	MR53	M26			119-42	4	2S556					5	6A8, 6K7, 6R7, 25L6, 25Z6	470	14-122
62-550	Vol.	101-140	45	MK402	M27			119-35	19	TC26					5	1D7G, [2]1D5G, 1H4G, 1G5G	465	
	Fil.	101-79	29	C6R														
62-551	Vol.	101-140	18	MK402	M27			119-35	19	TC26					5	1A7G, 1N5G, 1H5G, [2]1A5G	465	
62-552	Vol.	101-126	45	MK402	M26			119-59C	24	2N513		126-8	246	C3	5	6D8G, 6S7G, 6L5G, 6T7G, 6G6G	465	10-27
								.003		Buffer	B14							
62-553	Vol.	101-150	18	MK402	M26			119-79	22/15	TCS64/TC26			294	C3	5	6D8G, 6K7, 6T7G, 6G6G, 6ZY5G	465	10-28
								.008		Buffer	B14							
62-554	Vol.		18	UM154	M26		A96	30-20-20	24/15	See Note	B3		953W	C3	5	[3]6SK7, 6SQ7, 6SA7, 41	456	10-29
								.008		Buffer	B14							
62-555	Vol.	36X258	18	MR48	M27			45X250	12	TC52					5	1A7G, [2]1N5G, 1H5G, 1C5G	456	10-31
62-556	Vol.	101-77	18	MR53	M26			119-42	4	2S556					5	6A8, 6K7, 6R7, 25L6, 25Z6	470	14-122
62-557	Vol.	36X258	18	MR48	M27			45X250	12	TC52					5	1A7G, [2]1N5G, 1H5G, 1C5G	456	10-31
62-558	Vol.	101-160	18	MK400	M27			119-52	19	TC26					5	1A7G, [2]1N5G, 1H5G, 1C5G	465	10-32
62-587	Vol.	101-49	18	MR53	M26			103-6	23	RS213					5	6A8, 6K7, 6Q7, 6F6, 5Y3	465	14-123, 124
								103-7	23	RS213								
62-601 (Early)	Vol.	101-54	18	MR53	M26			119-25	11	UR182					5	6A7, 78, 75, 43, 25Z5	465	14-120,
	Tone	101-55	22	MR53				119-29	4	2S556								
62-601	Vol.	101-158	18	MK402	M26			119-47	23	2S567					6	6A8G, 6K7, 6Q7G, 6K6G, 5W4, 6U5	465	10-33
62-606	Vol.	101-77	18	MR53	M26			119-38	23	2S567					6	6A8G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3G	465	9-68
62-607	Vol.	36X239	45	MR53	M26			8-4	13	2N516					7	1C7G, 1D5G, [4]1H4G, 1E5G	456	9-51
	Tone	40X226	44	MR39														
62-616	Vol.	101-77	18	MR53	M26			119-38	23	2S567					6	6A8G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3G	465	9-68
62-617	Vol.	36X239	45	MR53	M24			8-4	13	2N516					7	1C7G, 1D5G, [4]1H4G, 1E5G	456	9-51
	Tone	40X223	44	MR42														
62-627	Vol.	101-74	18	MR53	M26			103-6	4	RS213					7	6A8, 6K7, 6Q7, 6C5, [5]6F6, 5Y3	465	14-91,92
	Tone	101-75	22	MR41				103-14	4	RS216								
62-636, 646	Vol.		18	MR53	M26			5-5	23	2S567					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	465	10-17
62-650	Vol.	36X249	17	MR57	M26			45X243	1/15	TCS64/TC26			246	C3	6	6D8G, [3]6S7G, 6T7G, 6AB5, 6G6G	456	9-48
	Tone	40X231	22	MR42				45X239	15	TC22								
								.015		Buffer	B14							
62-651, 62-652	Vol.	101-153	18	MK402	M27			119-59C	24	2N513		126-8	246	C3	6	6K8G, 6K7, 6T7G, 6G6G, 6AE6G, 6AF6G	465	10-35
	Tone	101-154	22	Order from	Mfr.			.003		Buffer	B14							
62-653	Vol.		15	UM154		See Note	A96	40-20-20	24/15	See Note	B3		248	C3	6	[3]6SK7, 6H6, 6V6G, 6SA7	456	10-37
								.008		Buffer	B14							
62-654, 62-655	Vol.	101-152	45	MK400	M27			119-52	19	TC26					6	1C7G, [4]1D5G-P, 1H4G, 1G5G	465	10-38
	Fil.	101-112	29	M4R														
	Tone	101-151	22	Order from	Mfr.													
62-656	Vol.	101-152	45	MK400	M27			119-52	19	TC26					6	1A7G, [2]1N5G, 1G4G, 1G5G, 1H5G	465	10-39
	Tone	101-151	22	Order from	Mfr.													
62-700	Vol.	36X249	127	UM165-SS25	M26			44X37	23	RS219					7	6A8G, 6U7G, 6J5G, 6U5, 6Q7G, 6K6G, 5Y3G	456	
	Tone	40X229	34	MK400				44X38	23	RS224								
62-701	Vol.	101-137	18	MK402				119-69	23	2S569					7	6K8G, 6K7, 6Q7G, 6P5G, 6U5, 6AC5G, 5Y3G	465	9-65,66
	Tone	101-136	22	MK400	M26													
62-702, 62-703	Vol.	101-137	18	MK402				119-69	23	2S569					7	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 6U5, 5Y3G	465	10-41,42
	Tone	101-136	22	MK400	M26													
62-704, 62-705, 62-706, 62-707, 62-708, 62-709, 62-710, 62-711, 62-712	Vol.	36X256	76	MR48	M26			44X42	23	RS224					7	6A7, 6D6, 75, 76, 6U5, 41, 80	456	10-43
	Tone	40X238	76	MR57				44X41	23	RS219								
62-713	Vol.	101-166	18	MK402				119-84	1/13	FP380					7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 5Y3G, 6AD6G	465	
	Tone	101-167	22	MK402														
62-722	Vol.	101-184	18	MK402				119-84	1/13	FP380					7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 6AD6G, 5Y3G	465	
	Tone	101-176	22	MK402														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued																		
Note: The prefix "62" or form of "62-" indicates Radio Division in Montgomery-Ward Catalog.																		
62-750, 62-751	Vol.	101-153	18	MK402	M27			119-79B	22/15	TCS64/TC26			859	C3	7	6K8G, 6K7, 6T7G, 6G6G, 6AE6G, 6AF6G, 6ZY5G	465	
	Tone	101-154	22	Order from	Mfr.			.008		Buffer	B14							
62-752, 62-753	Vol.	36X252	17	UM165-SS25	M26			45X241	12/15	2N514					7	6A8G, [2]6U7G, 6V7G, 6J5G, 25A6G, 6N7G	456	10-45
	Tone	40X229	41	MK400														
62-900	Vol.	101-122	45	MK401	M26			119-60	1/19	3S584/TC26	B8				9	[3]6K7, 6K8, [3]6J5G, 6U5, 6Q7G, 6K6G, 5Y3G	465	9-53
	Tone	101-123	22	MK400				119-61	13	TC62								
62-901	Vol.	36X255	17	TM247-SS25	M26			44X41	23	RS219					9	6A7, 6D6, [2]76, 75, 6U5, [2]41, 80	456	10-47
	Tone	40X235	22	UM165-SS25				44X42	23	RS224								
								45X247	13	TC70								
								45X239	15	TC22								
62-905	Vol.	36X255	17	TM247-SS25	M26			44X41	23	RS219					9	6A7, 6D6, 75, [2]76, 6U5, [2]41, 80	456	10-50
	Tone	40X235	22	UM165-SS25				44X42	23	RS224								
								45X247	13	TC70								
								45X239	15	TC22								
62-910	Vol.	36X255	17	TM247-SS25	M26			45X247	13	TC52					9	6A7, [2]76, 6D6, 6U5, 75, [2]41, 80	456	14-127-130
	Tone	40X235	22	UM165-SS25				45X239	15	TC22								
								44X41	23	RS219								
								44X42	23	RS224								
62-929	Vol.	101-114	124	MK402				119-55	1	2S569					9	[2]6K7, 6A8, 6U5, 6Q7, 6J5, [2]6F6, 5Y3	465	14-131, 132
	Tone	101-115	22	MK400	M26			119-56	13	2S569								
62-1040	Vol.		8	G				4-4-4	3	3S584					8	[2]24A, [2]27, [2]45, 80	‡	
	Tone		41	MR48														
62-1100	Vol.	36X245	20	TM247-SS25				44X30	25	RS216					11	[2]6U7G, [2]6J7G, 6H6, [2]6J5G, [2]6F6G, 5Y3G, 6U5	456	9-55
	Tone	40X228	34	MK402				44X36	25	RS224								
								45X238	19	TC29								
62-1101	Vol.	36X251	45	UM163-SS22	M26			44X39	4	RS219					11	[3]6D6, 6C6, [4]76, 6U5, [2]41, 80	465	9-56
	Tone	40X230	95	UM161-SS22			A100	44X40	4	RS224								
								45X239	15	TC22								
62-1455	Vol.	101-163	18	MK402	M27			119-35	19	TC26					4	1A7G, 1N5G, 1H5G, 1C5G	465	
62-1550	Vol.	101-140	18	MK402	M27			119-35	19	TC26					5	1D7G, [2]1D5G, 1H4G, 1G5G	465	
62-1551	Fil.	101-79	29	C6R														
	Vol.	101-140	18	MK402	M27			119-35	19	TC26					5	1A7G, 1N5G, 1H5G, [2]1A5G	465	
62-1558	Vol.	101-160	18	MK400	M27			119-52	19	TC26					5	1A7G, [2]1N5G, 1H5G, 1C5G	465	
62-1654, 62-1655	Vol.	101-152	45	MK400	M27			119-52	19	TC26					6	1C7G, [2]1D5G-P, 1H4G, 1G5G	465	
	Tone	101-151	22	Order from	Mfr.													
	Fil.	101-112	29	M4R														
62-1656	Vol.	101-152	45	MK400	M27			119-52	19	TC26					6	1A7G, [2]1N5G, 1G4G, 1G5G, 1H5G	465	
	Tone	101-151	22	Order from	Mfr.													
62-1838	Vol.		15	MR53				8-8	1	2N518					8	[2]27, [2]35, 47, 80	262	2-14
	Tone		34	MR42				8	14	TC52								
62-2550	Vol.	101-140	18	MK402	M27			119-35	19	TC26					5	1D7G, [2]1D5G, 1H4G, 1G5G	465	
	Fil.	101-79	29	C6R														
62-2551	Vol.	101-140	18	MK402	M27			119-35	19	TC26					5	1A7G, 1N5G, 1H5G, [2]1A5G	465	
62-2555	Vol.	36X258	18	MR48	M27			45X250	12	TC52					5	1A7G, [2]1N5G, 1H5G, 1C5G	456	
62-2557	Vol.	36X258	18	MR48	M27			45X250	12	TC52					5	1A7G, [2]1N5G, 1H5G, 1C5G	456	
62-2558	Vol.	101-160	18	MK400	M27			119-52	19	TC26					5	1A7G, [2]1N5G, 1H5G, 1C5G	465	
62-2654, 62-2655	Vol.	101-152	45	MK400	M27			119-52	19	TC26					6	1C7G, [2]1D5G-P, 1H4G, 1G5G	465	
	Tone	101-151	22	Order from	Mfr.													
	Fil.	101-112	29	M4R														
62-2656	Vol.	101-152	45	MK400	M27			119-52	19	TC26					6	1A7G, [2]1N5G, 1G4G, 1G5G, 1H5G	465	
	Tone	101-151	22	Order from	Mfr.													
62-2663	Vol.		18	UM154	M27		A96	20-40-10	46	FP357	B117				6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	14-133, 134
								40-200	78	FP304	B70							
62-2668	Vol.		18	UM154	M27		A96	20-40-10	46	FP357	B117				6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	14-133, 134
								40-200	78	FP304	B70							
04BR-389T	Vol.	101-208	18	MK402	M26			119-103	1/15	See Note	B3				5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	465	12-1,2
	Tone	101-237	22	UM144-SS25														
04BR-397A	Vol.	101-208	18	MK402	M26			119-101	46	FP357					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
	Tone	101-194	34	MK400														
04BR-511A, 04BR-512A	Vol.	101-220	18	MK401	M26			BE119-92	24	FP354	B8				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	12-5,6
04BR-513A, 04BR-514A	Vol.	101-198	18	UM161-SS22	M26			BE119-92	24	FP354	B8				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	12-7,8
04BR-515A	Vol.	101-217	18	MK401	M26			BE119-94	46	FP357					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465	12-9,10

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued																		
Note: The prefix "62-" or form of "62-" indicates Radio Division in Montgomery-Ward Catalog.																		
04BR-515B	Vol.	101-217	18	MK401	M26			BE119-94	46	FP357					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	465	
04BR-566A	Vol.	101-210	18	UM161-SS22	M27			BE119-104	24/78	FP304					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	465	
04BR-567A	Vol.	101-110	18	MK402	M26			BE119-105	24/15	FP339		1267	294	C24	5	6SA7, 6SK7, 6SQ7, 6K6G, 6X5G	465	12-11,12
04BR-570A	Vol.	101-225	18	MK402	M26			.005		Buffer	B14							
								BE119-111	46/15	FP416		12626	859	C3	5	6D8G, 6S7G, 6T7G, 6G6G, 6ZY5G	455	
04BR-609A	Vol.	101-195	18	MK402	M26			.008		Buffer	B14							
	Tone	101-194	34	MK400				BE119-94	46	FP357					6	‡12SK7,12SA7,12SQ7, 35L6GT, 35Z5GT	465	10-19,20
04BR-615A	Vol.	101-142	18	MK402	M26			119-114	1/13/15	FP424					6	6SA7, 6SK7, 6SJ7, 6SQ7, 6V6GT, 5Y3G	455	12-25,26
	Tone	101-143	22	MK400				119-67	13	TC71								
04BR-620A	Vol.	101-232	18	MK402	M26			119-115	1	2S569					6	6SA7, ‡6SK7, 6SQ7, 6V6GT, 5Y3G	455	
	Tone	101-231	22	MK402														
04BR-675A, 04BR-676A	Vol.	101-227	18	MK402				BE119-111	46/15	FP416		12626	859	C3	6	6SA7, ‡6S7G, 6T7G, 6G6G, 6ZY5G	455	12-36
	Tone	101-228	22	MK403	M26			.008		Buffer	B14							
04BR-678C	Vol.	101-161	76	Order from Mfr.				BE119-88	24/15	FP426	B168	1269	248	C3	6	6K7GT, 6A8GT, 6SK7, 6SQ7, 6J5GT, 6N7G	465	12-37,38
	Tone	101-162	76	UM163-SS18				.0055		Buffer	B14							
04BR-679A	Vol.	101-41	18	UM154-SS17	M26			BE119-65C	74	2S569			294	C24	6	‡6K7, 6A8G/6A8GT, 6SQ7, 6V6GT, 6X5G/6X5GT	455	12-40
								.008		Buffer	B14							
04BR-729A, 04BR-730A	Vol.	101-224	18	TM233-SS25				BE119-108	1	2S569					7	6SA7, 6SK7, 6SQ7, 6J5GT, ‡6K6GT, 5Y3G	455	12-41,42
	Tone	101-223	22	MK402														
04BR-903A	Vol.	101-221	18	500M			A19	BE119-109	1/13	FP339					9	‡6SK7, 6SA7, 6SQ7, 6J5GT, ‡6F6G, 6U5, 5Y3G	455	12-47,48
	Tone	101-226	22	MK402														
04BR-904A	Vol.	101-221	18	500M			A19	119-109	1/13	FP339					9	‡6SK7, 6SA7, 6SQ7, 6J5GT, ‡6F6G, 6U5, 5Y3G	455	
	Tone	101-226	22	MK402														
04BR-906A	Vol.	101-221	18	500M			A19	119-109	1/13	FP339					9	‡6SK7, 6SA7, 6SQ7, 6J5GT, ‡6F6G, 6U5, 5Y3G	455	
	Tone	101-226	22	MK402														
04BR-907A	Vol.	101-221	18	500M			A19	119-109	1/13	FP339					9	‡6SK7, 6SA7, 6SQ7, 6J5GT, ‡6F6G, 6U5, 5Y3G	455	
	Tone	101-226	22	MK402														
04BR-1105A	Vol.	101-229	124	MK401				BE119-112	1/13	FP444	B69				11	‡6SK7, 6SA7, ‡6SQ7, 6J5GT,‡6V6GT, 6U5, 5Y3G	455	
								BE119-69	13	TC74								
04BR-1106A	Vol.	101-229	124	MK401				BE119-112	46	FP444	B69				11	‡6SK7, 6SA7, ‡6SQ7, 6J6GT,‡6V6GT, 6U5, 5Y3G	455	12-51
								BE119-69	13	TC65								
04JP-399D	Vol.	36X292	15	MK403	M26			45X287	13/15	TC72/TC26					2	‡6SJ7	455	
04WG-464	Vol.		18	MK401	M27			4	12	TC40					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	456	13-5,6
04WG-468	Vol.		18	MK401	M27			4	12	TC40					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	456	12-3
04WG-568	Vol.		18	UM154	M26		A96	30-20	24	2N514					5	1A7GT, ‡1N5GT, 1H5GT, 3Q5GT	456	12-4
	Tone		21	UM165			A96											
04WG-569	Vol.		18	UM154			A96	40-40	24	2N511					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	456	12-14,15
								200	78	‡TC2501	B8							
04WG-610, 04WG-611	Vol.		18	UM154			A96	20-20-20	22/15	3N533					6	‡12SK7,12SA7,12SQ7, 35L6GT, 35Z5GT	456	12-15,16
	Tone		22	UM163			A96	20	13	TC47								
04WG-612	Vol.		18	UM154			A96	20-20-20-20	22/13/15	‡2N509					6	12SA7,‡12SK7,12SQ7, 35L6GT, 35Z5GT	456	12-17,18
	Tone		21	UM163			A96											
04WG-619	Vol.		18	UM154			A96	20-40 ?	4	See Note	B3				6	6SA7, ‡6SK7, 6SQ7, 6K6GT, 5Y3G	456	12-18,22
	Tone		21	UM165			A96											
04WG-621, 04WG-621N1	Vol.		18	UM154			A96	20-40	4	See Note	B3				6	6SA7, ‡6SK7, 6SQ7, 6K6GT, 5Y3G	456	12-27
	Tone		21	UM165			A96											
04WG-622A, 04WG-623A	Vol.	36X280	18	MK401	M26			45X277	4	TC78/TC75					6	6SA7, ‡6SK7, 6SQ7, 6V6GT, 5Y3G	456	12-29,30
	Tone	40X248	21	UM165-SS25				45X293	13	TC42								
04WG-663	Vol.		18	UM154			A96	40-20-10	46	TN129					6	1A7GT, 1H5GT, ‡1N5GT, 3Q5GT, 35Z5GT	456	11-1
								40-200	78	FP304	B117							
04WG-668	Vol.		18	UM154			A96	40-20-10	46	TN129					6	1A7GT, ‡1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	11-1
								40-200	78	FP304	B117							
04WG-672	Vol.		18	UM154			A96	40-20-10	46	TN129					6	1A7GT, ‡1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	11-1
								40-200	78	FP304	B117							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued Note: The prefix "62"- or from "62-" indicates Montgomery-Ward Catalog.																		
04WG-673, 04WG-674	Vol. Tone		18 22	MK401 UM165-SS25			A96	40-20-10 40-200	46 78	TN129 FP304	B117				6	1A7GT, §1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	12-33,34
04WG-725	Vol. Tone		18 21	UM154 UM165	M26		A96	40-20-20	24/15	FP346	B117				7	6SA7, 6SK7, §6SQ7, §6K6G, 5Y3G	456	11-2
04WG-727	Vol. Tone	36X277 40X246	18 57	MK401 UM165-SS25	M26			45X272	24/15	FP331	B117				7	6SA7, 6SK7, §6SQ7, §6K6G, 5Y3G	456	14-7,8
04WG-728	Vol. Tone		18 21	500M UM165	M26		A19 A96	40-20-20	24/15	FP346	B117				7	6SA7, 6SK7, §6SQ7, §6K6GT, 5Y3G	456	12-43,44
04WG-731	Vol. Tone		45 22	UM154 UM163			A96 A96	80-40-20-20	46/15	Order from Mfr.					7	12SA7,§12SK7, 6L5G, 12SQ7, 35L6GT, 35Z5GT	456	12-30,49
04WG-732	Vol. Tone		18 21	500M UM165	M26		A19 A96	40-20-20	24/15	FP346	B117				7	6SA7, 6SK7, §6SQ7, §6K6GT, 5Y3G	456	12-43,44
04WG-803, 04WG-803B	Vol. Tone		18 21	500M UM165			A19 A96	40-20-20	24/15	FP346	B117				8	6SA7, 6SK7, §6SQ7, §6K6GT, 6AD6G, 5Y3G	456	12-45,46
04WG-804	Vol. & Tone	36X241	124	Order from Mfr.				20 40	23 23	RS219 RS224					8	§6SK7, 6SA7, 6SQ7, 6U5, 6V6G, 5Y3G	456	14-9, 10,11
04WG-1108A	Vol. Tone	36X251 40X258	17 22	UM163-SS22 MK402	M26			44X39 44X40	23 23	RS219 RS224					11	§6D6, 6C6, §76, 6U5, 6J5GT, §41, 80	456	13-7, 8,9
04WG-2672	Vol.	36X286	149	MK401	M27			45X239 45X283 45X284	15 46 78	TC22 TN129 FP304	B70				6	1A7GT, §1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	14-13,14
14BR-440A	Vol. Tone	101208 101237	18 22	MK402 UM144-SS23	M26			119103	1/15	Order from Mfr.					5	6SA7, 6SQ7, 6SK7, 6K6G, 5Y3G	455	13-11,12
14BR-474	Vol.	101250	149	MK402	M27			119117B	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	14-15,16
14BR-521A, 14BR-522A	Vol.	101255	18	MK401	M26			11992 11993	24 24	FP354 FP214	B69 B12				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-13,44
14BR-523A	Vol.	101266	18	MK401	M26			11994 11995	1 1	FP357 Order from Mfr.	B12				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-14
14BR-525A, 14BR-526A	Vol.	101265	18	MK401	M26			11992 11993	24 24	FP354 FP214	B69 B12				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-15
14BR-530A	Vol.	101265	18	MK402	M26			11992 11993	24 24	FP354 FP214	B69 B12				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-17,18
14BR-531A	Vol.	101265	18	MK402	M26			11992 11993	24 24	FP354 FP214	B69 B12				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-17,18
14BR-573A	Vol.	101258	149	MK402	M27			119126	76/78	Order from Mfr.					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	455	13-16
14BR-574A	Vol.	101257	18	MK400	M26			119130	12	TC42					5	1A7GT, §1N5GT, 1H5GT, 3Q5GT	455	13-17,18
14BR-613A	Vol.	101247	‡	UM135-SS25	M26			119121 119122	24 13	FP214 TC42					7	6SA7, §6SK7, 6B8, §25L6GT, 25Z6GT	4.3 mc.	14-19,20
14BR-629A	Vol.	101273	18	MK402	M26			11994 119117B	46 13	FP357 TC42					6	12SA7,12SK7,§12SQ7, 35L6GT, 35Z5GT	455	13-14,19
14BR-681A	Vol.	101-246	18	UM154-SS17	M26			119-120 119-75 .008	46 15 —	FP380 TC22 Buffer	B14	1267	294	C24	6	§6SK7, 6SA7, 6SQ7, 6K6GT, 6X5GT	455	
14BR-682A 14BR-684A	Vol. Tone Vol.	101-242 101-245 101258	18 21 149	UM154-SS17 Order from Mfr. MK402	M26 M27			119-118 .005 119126	24/15 — 76/78	FP339 Buffer Order from Mfr.	B14	12627	748	C3	6 6	§6SK7, 6SA7, 6SQ7, 6J5GT, 6N7 1A7GT, §1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455 455	13-20
14BR-685A	Vol.		149	MK401				BE-119131 BE-119132	76/78 78	Order from Mfr. TC26					6	1A7GT, §1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	13-29
14BR-687A	Vol.		149	MK401				BE119131 BE119132	76/78 78	Order from Mfr. TC26					6	1A7GT, §1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	13-29
14BR-688A 14BR-689A	Vol. Tone	101-268 101-269	18 22	MK402 MK403	M27			119111 .008	46/15 —	FP429 Buffer	B14	12626	859	C3	6	6SA7,§6S7G,6T7G, 6G6G, 6ZY5G	455	13-25,26
14BR-695	Vol. Tone	101215 101216	18 22	MK402 MK402	M26			11994	46	FP357					6	12SA7,§12SK7,12SQ7, 35L6GT, 35Z5GT	455	14-12,16
14BR-734A 14BR-735A	Vol. Tone	BE101262 BE101263	18 57	MK402 MK401	M26			BE119128 BE119129	46 46	TN129 TCD48	B12				7	12SJ7, 12SK7, 6T7G, 12SQ7, 12J5GT, 35L6GT, 35Z5GT	455	13-27,28
14BR-734B 14BR-735B	Vol. Tone	101-262 101-263	75 21	MK402 MK401	M26			119128 119129	46 46	TN129 TCD48	B12				7	12SJ7, 12J5GT, 12SK7, 12SQ7, 6S7G, 35L6GT, 35Z5GT	455	13-27,28

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued Note: The prefix "62" or form of "62-" indicates				Radio Division		Montgomery-		WardCatalog										
14BR-736A	Vol. Tone	BE101262 BE101263	18 57	MK402 MK401	M26			BE119128 BE119129	46 46	TN129 TCD48	 B12				7	12SJ7, 12SK7, 6T7G, 12SQ7, 12J5GT, 35L6GT, 35Z5GT	455	13-30
14BR-736B	Vol. Tone	101-262 101-263	75 21	MK402 MK401	M26			119128 119129	46 46	TN129 TCD48	 B12				7	12SJ7,12SK7,12SQ7, 6S7G, 12J5GT, 35L6GT, 35Z5GT	455	13-41
14BR-742A	Vol. Tone	BE101259 BE101260	18 57	MK402 MK402	 M26			BE119127 .008	46/15 —	FP416 Buffer	 B14	BE1266	859	C3	7	[2]6S7G, 6SA7, 6T7G, 6L5G, 6SC7, 0Z4	455	13-31,32
14BR-911A	Vol.	BE101267	‡	DTM296-SS25				BE119109	1/13	FP390					9	[2]6SK7, 6SA7, 6SQ7, 6J5GT, 6U5,[2]6F6G, 5Y3G	455	13-33,34
14BR-912A	Vol.	BE101267	‡	DTM296-SS25				BE119109 BE119109B	1/13 1/13	FP390 FP390					9	[2]6SK7, 6SA7, 6SQ7, 6J5GT, 6U5, [2]6F6G, 5Y3G	455	13-35,36
14BR-913A	Vol.	101-267	18	DTM296-SS25				119109	1/13	FP390					9	[2]6SK7, 6SA7, 6U5, 6SQ7, 6J5GT, [2]6F6G, 5Y3G	455	13-37,38
14BR-1109A	Vol. Tone	101-270 101-271	75 22	MK401 MK402	M26			119124	1/13	FP429	B192				11	[2]6SK7, 6SA7, [2]6SQ7, 6U5, 6J5GT, [2]6F6G, 5Y3G	455	13-39,40
14BR-1112A	Vol. Tone	101-270 101-271	75 22	MK401 MK402	M26			119124	1/13	FP429					11	[2]6SK7, 6SA7, 6U5, [2]6SQ7, 6J5GT, [2]6F6G, 5Y3G	455	14-21,22
14BR-1113	Vol.	101-229	18	MK401				119112 11969	46 13	FP429 TC75	B192				11	[2]6SK7, 6SA7, [2]6SQ7, 6U5, 6J5GT, [2]6V6GT, 5Y3G	455	14-23,24
14BR-1400A	Vol. Tunlgt.	BE-101249 BE-101248	127 7	MK402 MR29				BE-11969 BE-11973B BE-119112	13 13 1/13	TC75 TC75 FP429	 B192				13	6AB7, 6SA7, [2]6SK7, 6SJ7, 6H6, 6U5, [2]6SQ7, 6J5GT, [2]6V6GT, 5U4	FM 4.3 mc. AM 465 kc.	14-25-30
14BR-1474	Vol.	101250	149	MK402	M27			119117B	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	14-15,16
14JP-399D	Vol.	36X292	15	MK403	M26			45X287	13/15	TC72 /TC26					2	[2]6SJ7		13-10
14WG-438	Vol.	36X305	18	MK402				45X304	12	TC42					4	1R5, 1T4, 1S5, 3S4	456	13-42
14WG-469	Vol.	36X302	18	MK401	M27			45X250	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	456	13-43,44
14WG-499	Vol.	36X292	15	MK403	M26			45X287 45X316	12/15 ‡	TC72 /TC26 TC22					2	[2]6SJ7		14-31,32
14WG-518, 14WG-519	Vol.	36X301	18	MK401	M26			45X300 45X291 45X282	24 24 24	2N514 TC48 TC45	 B12 B12				5	12SA7,12SK7,12SQ7, 35LGT, 35Z5GT	456	13-45,46
14WG-538	Vol.	36X305	18	MK402				45X303	24/78	Order from	Mfr.				5	1R5, 1T4, 1S5, 3S4, 35Z5GT	456	13-47,48
14WG-572	Vol.	36X302	18	MK401	M27			45X250	12	TC42					5	1A7GT, [1]1N5GT, 1H5GT, 1A5GT	456	13-49,50
14WG-624A, 14WG-625A, 14WG-628A	Vol.	36X279	18	MK401	M26			45X299	1/15	3N527					6	[1]12SK7, 12SA7, 12SQ7,		
14WG-672C	Vol.	36X299	18	MK401				45X282 45X297 45X283 45X284	13 46 46 78	TC45 TN129 TN129 Order from	 B12 Mfr.				 6 	35L6GT, 35Z5GT 1A7GT, [1]1N5GT, 1H5GT, 3Q5GT, 35Z5GT	465 456	13-53,54 13-56,55
14WG-680	Vol.	36X299	18	MK401				45X297 45X283 45X284	46 46 78	TN129 TN129 Order from	 B12 Mfr.				6 	1A7GT, [1]1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	13-57,58
14WG-683A	Vol.	36X308	149	MK401				45X307 45X244 45X293	76 78 13	Order from TC39 TC52	Mfr. 				6 	[1]1N5GT, 1A7GT, 1H5GT, 3Q5GT, 35Z5GT	456	14-33, 34,35
14WG-683B	Vol.	36X308	149	MK401				45X307 45X244 45X293	76 78 13	Order from TC39 TC52	Mfr. B12 				6 	[1]1N5GT, 1A7GT, 1H5GT, 3Q5GT, 35Z5GT	456	13-59,60
14WG-737	Vol. Tone	36X311 40X259	18 21	MK401 UM165-SS25	M26			45X277	4	TC78 /TC75					7	6SJ7, [2]6SK7, 6SQ7, 6J5GT, 6V6GT, 5Y3G	456	13-63,64
14WG-739	Vol. Tone	36X280 40X259	18 21	MK401 UM165-SS25	M26			45X277	4	TC78 /TC75					7	6SJ7, [2]6SK7, 6SQ7, 6J5GT, 6V6GT, 6X5GT	456	13-65,66
14WG-740 (Series A, B)	Vol. Tone	36X311 40X259	18 21	MK401 UM165-SS25	M26			45X277	4	TC78 /TC75					7	6SJ7, [2]6SK7, 6SQ7, 6J5GT, 6V6GT, 5Y3G	456	13-67,68
14WG-741	Vol. Tone	36X311 40X259	18 21	MK401 UM165-SS25	M26			45X277	4	TC78 /TC75					7	6SJ7, [2]6SK7, 6SQ7, 6J5GT, 5Y3G, 6V6GT	456	13-69,70
14WG-756 14WG-757	Vol. Tone	36X314 40X263	17 41	UM165-SS25 UM144-SS25	M26			45X262 45X250	12/15 13	2N513 TC40					7	6SA7, [2]6SK7, 6V7G, 25A6G, 6J5G, 6N7G	456	13-71,72
14WG-807A	Vol. Tone	36X313 40X261	140 140	TM227-SS25 UM165-SS25				45X305	23	Order from	Mfr.				8	6SA7, 6SK7, [2]6SQ7, 6U5, [2]6K6GT, 5Y3G	456	13-75,76

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued Note: The prefix "62-" or form of "62-" indicates Radio Division								Ward Catalog.										
14WG-808MA 14WG-808WA...	Vol. Tone	36X313.... 40X261....	140 140	TM227-SS25 UM165-SS25	.....	.....	.....	45X305....	23	Order from	Mfr...	.....	.....	.....	8	6SA7, 6SK7, [2]6SQ7, 6U5, [2]6K6GT, 5Y3G.....	456	13-34, 52,76
14WG-1202B.....	Vol. Treble Bass	36X315.... 40X265....‡.. 40X264....‡..	18 ‡..	TM227-SS25 UM165-SS25 UM165-SS25	..... M27 M26	....	....	45X313.... 45X314....	23 13	Order from 2N518.....	Mfr...	.....	.....	.....	12	[3]6SK7, 6SA7, [4]6SQ7, 6U5, [2]6V6GT, 5Y3G.....	456	13-77,78
14WG-1203B.....	Vol. Treble Bass	36X315.... 40X265....‡.. 40X264....‡..	18 ‡..	TM227-SS25 UM165-SS25 UM165-SS25	..... M27 M26	....	....	45X313.... 45X314....	23 13	Order from 2N518.....	Mfr...	.....	.....	.....	12	[3]6SK7, 6SA7, [4]6SQ7, 6U5, [2]6V6GT, 5Y3G.....	456	13-77,78
14WG-1203M.....	Vol. Treble Bass	36X315.... 40X265....‡.. 40X264....‡..	18 ‡..	TM227-SS25 UM165-SS25 UM165-SS25	..... M27 M26	....	....	45X313.... 45X314....	23 13	Order from 2N518.....	Mfr...	.....	.....	.....	12	[3]6SK7, 6SA7, [4]6SQ7, 6U5, [2]6V6GT, 5Y3G.....	456	13-77,78
14WG-1203W.....	Vol. Treble Bass	36X315.... 40X265....‡.. 40X264....‡..	18 ‡..	TM227-SS25 UM165-SS25 UM165-SS25	..... M27 M26	....	....	45X313.... 45X314....	23 13	Order from 2N518.....	Mfr...	.....	.....	.....	12	[3]6SK7, 6SA7, [4]6SQ7, 6U5, [2]6V6GT, 5Y3G.....	456	13-77,78
14WG-2672C.....	Vol.	36X299....	149	MK401....	.....	.....	.....	45X297.... 45X301.... 45X283.... 45X284....	46 78 46 78	TN129..... FP304..... TN129..... FP304.....	..... B70 B12 B70	.....	.....	.....	6	1A7GT, [1]1N5GT, 1H5GT, 3Q5GT, 35Z5GT.....	456	14-14,37
24BR-521B 24BR-522B.....	Vol.	101255.....	18	MK401....	M26	.....	.....	11992..... 11993.....	24 24	FP354..... FP214.....	B69 B12	.....	.....	.....	5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT..	455	.....
24BR-914A.....	Vol.	101267.....‡..		DTM296/SS25	.....	.....	.....	119109.....	1/13	FP390.....	.....	.....	.....	.....	9	[2]12SK7, 6SA7, 6J5GT, [2]6F6GT, 6SQ7, 5Y3G, 6U5.....	455	14-39,40
24BR-1401B.....	Vol. Tunlgt.	BE-101249.. BE-101248..	127 7	MK402.... MR29.....	....	....	....	BE-11969... BE-11973B. BE-119112..	13 24 1/13	TC75..... TC75..... FP429.....	.... B192	.....	.....	.....	13	6AB7, 6SA7, [2]6SK7, 6SJ7, 6H6, 6U5, [2]6SQ7, 6J5GT, [2]6V6GT, 5U4.....	FM 4.3 mc. AM 465 kc.	14-25-30
93BR-335A.....	Vol.	101-208....	18	MK402....	M26	.....	.....	BE119-103..	1/15	FP346.....	.....	.....	.....	.....	5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G.....	465	11-20
93BR-391A.....	Vol. Tone	101-184.... 101-206....	18 57	MK402..... UM144-SS25	....	....	....	BE119-100.. BE119-91... BE119-81...	1/15 19 13	FP444..... TC29..... TC74.....	B69	.....	.....	.....	7	6SK7, 6K8, 6K7, 6SQ7, 6V6G, 6U5, 5Y3G.....	465	11-21,39
93BR-392A.....	Vol. Tone	101-184.... 101-207....	18 57	MK402.... MK402....	.....	.....	.....	BE119-98... BE119-64...	1/19 13	FP426..... 2S569.....	B168	.....	.....	.....	7	6SK7, 6K8, 6K7, 6SQ7, 25N6G, 6U5, 25Z6G.....	465	11-22
93BR-393A.....	Vol. Tone	101-184.... 101-207....	18 57	MK402.... MK402....	.....	.....	.....	BE119-98...	1/15	FP444.....	B69	.....	.....	.....	8	(AC) [2]6S7G, 6K8, 6T7G, 6SC7, 6L5G, 6AB5, 5Y3G.....	465	11-23,24
93BR-393A (Batt.).	Vol. Tone	101-184.... 101-207....	18 57	MK402.... MK402....	.....	.....	.....	BE119-98... .006.....	1/15	FP444..... Buffer.....	B69 B14	12616.....	246	C3	7	(Batt.) [2]6S7G, 6K8, 6T7G, 6SC7, 6L5G, 6AB5.....	465	11-23,24
93BR420A, B, 93BR421A, B, 93BR-423B, 93BR-424B, 93BR-431B.....	Vol.	101-188....	18	MK401....	M26	.....	.....	BE11992... BE11993...	24 24	FP354..... FP214.....	B8 B12	.....	.....	.....	4	12SA7,12SK7,12SQ7, 70L7GT.....	465	11-25,26
93BR-454A.....	Vol.	101-163....	18	MK402....	M27	.....	.....	119-35.....	19	TC26.....	.....	.....	.....	.....	4	1A7G, 1N5G, 1H5G, 1C5G.....	465	.....
93BR-459.....	Vol.	101107.....	18	UM154-SS18	M26	.....	.....	11957..... 11958..... .003.....	15/24 24	TCD45..... TC47..... Buffer.....	.... B14	126-8.....	246	C3	4	6D8, 6S7, 6T7, 6K6..	465	14-119 ....
93BR-460A.....	Vol.	101-175....	18	MR53.....	M27	.....	.....	119-75.....	19	TC22.....	.....	.....	.....	.....	4	1A7G, 1P5G, 1H5G, 1C5G.....	465	.....
93BR-461A.....	Vol.	101-173....	18	MK402....	M27	.....	.....	BE119-75...	19	TC22.....	.....	.....	.....	.....	4	1A7G, 1N5G, 1H5G, 1A5G.....	465	11-27,28
93BR-462A.....	Vol.	101-204....	18	MR53.....	.....	.....	.....	BE119-75...	19	TC22.....	.....	.....	.....	.....	4	1A7GT, 1N5GT, 1H5GT, 1A5GT...	465	.....
93BR-508A, 93BR-509A.....	Vol.	101-170....	18	MK402....	M26	.....	.....	119-87.....	24	2N513.....	.....	.....	.....	.....	5	12SA7, 12SK7, 12Q7GT, 35L6GT, 35Z5GT.....	465	10-53,54
93BR-560A.....	Vol. Tone	101-166.... 101-169....	18 22	MK402.... MK402....	..... M27	....	....	119-86.....	12	TC52.....	.....	.....	.....	.....	5	1A7G, [1]1N5G, 1H5G, 1Q5G.....	465	10-55,56
93BR-561A.....	Vol. Tone	101-184.... 101-179....	18 22	MK402.... MK400....	..... M27	....	....	BE119-86...	12	TC42.....	.....	.....	.....	.....	5	1A7G, [1]1N5G, 1H5G, 1Q5G.....	465	.....
93BR-563A.....	Vol. Tone	101-184.... 101-179....	18 22	MK402.... MK400....	..... M27	....	....	BE119-86...	12	TC42.....	.....	.....	.....	.....	5	1A7G, [1]1N5G, 1H5G, 1Q5G.....	455	.....
93BR-564A.....	Vol.	101-150....	18	MK402....	M26	.....	.....	119-79..... .008.....	22/15	TCS64/TC26 Buffer.....	..... B14	126-6.....	859	C3	5	6D8G, 6K7, 6T7G, 6G6G, 6ZY5G.....	465	10-58
93BR-571.....	Vol.	101209.....	18	MK401....	M26	.....	.....	11992.....	24	FP354.....	B69	.....	.....	.....	5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z4GT..	465	14-118, 144
93BR-601.....	Vol. Tone	10154..... 10155.....	18 22	MR53..... MR53.....	M26	.....	.....	11925..... 11929.....	11 4	UR182..... 2S556.....	.....	.....	.....	.....	5	6A7, 78, 75, 43, 25Z5.	465	14-120 .....
93BR-657A.....	Vol. Tone	101-166.... 101-171....	18 57	MK402.... MK401....	..... M26T	.....	.....	119-85..... .003.....	24/15	FP331..... Buffer.....	..... B14	12616.....	246A	C3	5	6D8G, 6SK7, 6T7G, 6G6G, 5Y3G.....	465	.....
93BR-658A.....	Vol. Tone	101-184.... 101-177....	18 21	MK402.... MK401....	..... M26T	.....	.....	BE119-85... .003.....	24/15	FP331..... Buffer.....	..... B14	12616.....	246	C3	7	6D8G, 6SK7, 6T7G, 6G6G, 6AE6G, 6AD6G, 5Y3G....	465	11-30

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS: Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	CONDENSERS: Original Part	Circuit	Correct Replacement	*Note	VIBRATORS: Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
MONTGOMERY WARD & CO.—Continued Note: The prefix "62" or from "62-" indicates Radio Division in Montgomery-Ward Catalog.																		
93BR-659A	Vol.	101-180	18	TM238-SS18				BE119-86	12	TC42					6	1P5, 1A7, ‡1N5, 1H5, 1Q5	465	11-31
	Tone	101-179	22	MK400	M27													
93BR-660A	Vol.	101-180	18	TM238-SS18				BE119-86	12	TC42					6	1P5, 1A7, ‡1N5, 1H5, 1Q5	465	
	Tone	101-179	22	MK400	M27													
93BR-666A	Vol.	101-184	18	MK402				BE119-85	24/15	FP331		12616	246	C3	7	6D8G, 6SK7, 6T7G, 6G6G, 6AE6G, 6AD6G, 5Y3G	465	
	Tone	101-177	21	MK400	M26T			.003		Buffer	B14							
93BR-677	Vol.	101-109	18	TM238-SS18	M26			11951	4	2S569		126-1	294		6	‡6K7, 6A8, 6Q7, 6V6, 0Z5 or 6X5	465	14-139, 140
								.01		Buffer	B14							
93BR-713A	Vol.	101-166	18	MK402				119-84	1/13	FP390					7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 5Y3G, 6AD6G	456	10-60
	Tone	101-167	22	MK402														
93BR-714A	Vol.	101-185	18	MK402				BE119-84	1/13	FP390					7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 6AD6G, 5Y3G	465	
	Tone	101-183	22	MK402														
93BR-714B	Vol.	101-185	18	MK402				BE119-84	1/13	FP390					7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 6AD6G, 5Y3G	465	11-19
	Tone	101-183	22	MK402														
93BR-715	Vol.	101-184	18	MK402				BE119-84	1/13	FP390					7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 6AD6G, 5Y3G	465	11-33
	Tone	101-176	22	MK402														
93BR-716A	Vol.	101-185	18	MK402				BE119-84	1/13	FP390					7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 6AD6G, 5Y3G	465	
	Tone	101-183	22	MK402														
93BR-717A	Vol.	101-184	127	MK402				BE119-84	1/13	FP390					7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 6AD6G, 5Y3G	465	
	Tone	101-176	22	MK402														
93BR-719A	Vol.	101-202	18	UM161	M26		A96	BE119-101	46	FP357					7	12A8GT, 12SK7, ‡12Q7GT, ‡35L6GT, 35Z4GT	465	11-35
93BR-720A	Vol.	101-195	18	MK402	M26			BE119-101	46	FP357					7	6A8G, 6SK7, ‡6SQ7, ‡35L6GT, 35Z4GT	465	11-36
93BR-1075 (Series A, B)	Vol.	101128	124	TM236-SS25				11961	13	TC65					10	‡6K7, 6K8, 6U5, 6Q7G, ‡6J5G, ‡6K6G, 5Y3G	465	14-141-143
	Tone	101129	22	MK400				11964	1	2S569								
93BR-1201A	Vol.	101-181	18	Order from	Mfr.			BE103-10	25	RS223					12	‡6SK7, 6K8, 6SQ7, 6J5G, ‡6F6G, 5U4G, 6AD6G	465	
	Tone	101-182	‡	Order from	Mfr.			BE119-89	14/15	TC72/TC26								
								BE119-91	19	TC29								
93BR-1455A	Vol.	101-163	18	MK402	M27			119-35	19	TC26					4	1A7G, 1N5G, 1H5G, 1C5G	465	
93BR-1460A	Vol.	101-175	18	MR53	M27			119-75	19	TC22					4	1A7G, 1P5G, 1H5G, 1C5G	465	
93BR-1461	Vol.	101173	18	MK402	M27			11975	44	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	465	14-152
93WG-382	Vol.		124	2 Meg.			A19	20	23	RS219					8	‡6SK7, 6SA7, 6SQ7, 6V6G, 5Y3G, 6AD6G	456	11-41
	Tone		95	UM165			A96	40	23	RS224								
93WG-510	Vol.		18	UM154			A96	20-20-20	22/15	3N533					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	11-43
	Tone		21	UM163			A96											
93WG-562	Vol.	36X262	18	Order from	Mfr.			45X254	24	FP217	B3	19A36	246	C3	5	6D8G, 6AB5, 6S7G, 6T7G, 6G6G	456	10-37
								.003		Buffer	B14							
93WG-565A	Vol.		18	UM154			A96	4	12	TC40					5	1A7GT, ‡1N5GT, 1H5GT, 1Q5GT	456	11-44
93WG-602, 93WG-603	Vol.		18	UM154			A96	20-20-20	1/15	3N533					6	12SA7, 12SK7, 12SQ7, 6AB5, 35L6GT, 35Z5GT	456	10-59
93WG-604, 93WG-605	Vol.		18	UM154			A96	20-20-20	22/15	3N533					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT, 6AB7	456	12-53,54
93WG-663	Vol.	36X274	149	MK401	M27			45X268	46	FP357	B117				6	1A7GT, ‡1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	13-79,80
								45X269	78	FP304	B70							
93WG-668	Vol.	36X274	149	MK401	M27			45X268	46	FP357	B117				6	1A7GT, ‡1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	13-79,80
								45X269	78	FP304	B70							
93WG-754, 93WG-755	Vol.		17	UM165			A96	30-20	1/15	2N514					7	6SA7, ‡6SK7, 6V7G, 25A6G, 6J5G, 6N7G	456	11-45
	Tone		94	UM144			A96											
93WG-800, 93WG-801, 93WG-802 (with and without loop)	Vol.		124	2 Meg.			A19	20	23	RS219					8	‡6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G, 6AD6G	456	11-46
	Tone		95	UM165			A96	40	23	RS224								
93WG-805	Vol.		124	2 Meg.			A19	20	23	RS219					8	‡6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G, 6AD6G	456	11-49
	Tone		95	UM165			A96	40	23	RS224								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS: Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	CONDENSERS: Original Part	Circuit	Correct Replacement	*Note	VIBRATORS: Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
MONTGOMERY WARD & CO.—Continued Note: The prefix "62-" or for m of "62-" indicates				Radio Divis	ion in	Montg	omery-	Ward Catalog.										
93WG-1000, 93WE-1001	Vol.		20	2 Meg.			A19	14.	23	RS216					10	[2]6SK7, 6SA7, 6SQ7, 6P5G, [2]6V6G, 5Y3G, 6AD6G	456	11-51
	Tone		95	UM165			A96	40.	23	RS224								
93WG-1102	Vol.	36X245	20	TM247-SS25				44X30	25	RS216					11	[2]6U7G, [2]6J7G, [2]6J5G, 6H6, 6U5, [2]6F6G, 5Y3G	456	14-126, 149-151
	Tone	40X228	34	MK402			A27	44X36	25	RS224								
	Tone		21	UM165-SS25			A4	45X238	19	TC29								
93WG-1103, 93WG-1104	Vol.		15	MR55				20.	23	RS219					11	[2]6D6, 6C6, [4]76, [2]41, 6U5, 80	456	11-53
	Tone		22	MR53				40.	23	RS224								
								10.	15	TC22								
93WG-2208	Vol.		18	UM154			A96	4.	12	TC40					5	[2]1N5GT, 1A7GT, 1H5GT, 1Q5GT	456	11-54
93WG-2663	Vol.		18	UM154	M27		A96	20-40-10	46	FP357	B117				6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	14-133, 134
								40-200	78	FP304	B70							
93WG-2668	Vol.		18	UM154	M27		A96	20-40-10	46	FP357	B117				6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	14-133, 134
								40-200	78	FP304	B70							
MOTOROLA—See Galvin.																		
NASH																		
AC4289	Vol.	63-1040	20	Order from	Mfr.			22-917	24/15	FP339			246	C3	6	[2]6K7GT, 6SA7GT, 6Q7GT, [2]6V6GT	‡	
								.007		Buffer	B14							
AC4389	Vol.	63-1040	18	Order from	Mfr.			22-904	24/19	FP332			859	C3	6	[2]6K7GT, 6SA7GT, 6Q7GT, 6K6GT, 6X5GT	‡	
								.006		Buffer	B14							
AC6001	Vol. & Tone	63-1129	140					22-917	24/15	FP339		190-15	859	C3	7	[2]7A7, 7B8, 7B6, [2]7C5, 6X5GT/0Z4	455	
								.007		Buffer	B14							
AC6011	Vol.	63-1128	18	250M			A19	22-904	24/15	FP332		190-15	859	C3	6	[2]7A7, 7B8, 7B6, 7B5, 0Z4/6X5GT	455	
								.006		Buffer	B14							
NATIONAL CARBON CO (Eveready)																		
1, 2, 3	Vol.		13	SRP179				2-4	1	See Note	B1				8	[4]26, 27, [2]71A, 80		1-1
31, 32, 33, 34	Vol.	2364	8	A550P				4-2-1-1	3/14	See Note	B1				8	[5]27, [2]71A, 80		1-2
42, 43, 44	Vol.	2364	8	A550P				4-2-1-1	3/14	See Note	B1				8	[5]27, [2]45, 80		1-3
52, 53, 54 (Three Types)	Vol.	2917	13/12	DRP117	Type	1, 2	A50	‡	3/15	See Note	B1				8	[3]24, [2]27, [2]45, 80		1-4
	Vol.		13/7	DRP242	Type	3	A50											
THE NATIONAL CO.																		
AC-SW 3	Vol.		7	D											3	[2]58, 27		
	Regen.		12	MR33														
AC-SW 58	Vol.		40	D12											5	[2]58, 56, [2]45		8-2
	Regen.		12	MR33														
AC "Thrill Box"	Vol.		‡	E12											5	[2]24A, [2]27		1-2
AGS with GRDPU (Power Supply)	Vol.		7	A550P				8-8-8	3	See Note	B3				11	[7]36, 37, 89, [2]80		3-1
AGSX	Vol.		7	A550P				8-8-8	3	See Note	B3				11	[2]77, [2]78, 37, [2]36, 89, [2]80		
Auto-Box	Vol.		12	MR33											5	[2]24, [2]12A		1-1,2
DC-SW-3	Vol.		7	D											3	[2]36, 37		
	Regen.		12	MR33	M27													
DC-SW-34 (Batt.)	Vol.		40	D12											5	[2]34, 30, [2]31		8-2
	Regen.		12	MR33														
FBX & FBXA	Vol.		7	G				5	13	TC71					7	[2]24, 57, 56, [2]58, 59	500	8-2
								10	15	TC22								
HRO	Vol.		17	MR48				10	15	TC22					9	[6]6D6, [2]6C6, 6B7, 42, or [6]58, [2]57, 2B7, 2A5	456	8-1
	Sen.		7	G														
MB-29	Vol.		12	MR18				8-8-8	3	3S584					9	[4]24, [2]27, [2]45, 80		1-2
MB-30	Vol.		12	MR33											5	[4]24A, 27		1-2
NC44, NC44A	Vol.		17	MR48	M26			40-40	1	2N511					7	6K8, [2]6L7, 6SQ7, 25L6G, 6J7, 25Z5	456	
	RF Gain		7	MR20	M26			25, 25	15	TC26								
NC44B	Vol.		17	MR48				25, 25	15	TC26					6	6K8, [2]6L7, 6SQ7, 6V6G, 6J7	456	
	RF Gain		7	MR20														
NC100	Vol.		‡	MR35				8, 8, 8	3	RS213					12	[6]6K7, [2]6J7, 6C5, 6E5, [2]6F6, 80	456	8-3,4
	Tone		‡	MR50				10	15	TC22								
	Sen.		7	G														
Screen Grid SW (71)	Vol.		12	MR33											4	[4]24A, 27, 71A		1-1
NATIONAL TRANSFORMER CO.																		
Midget 6	Vol.		6	MR21				8-8	1	See Note	B3				6	[4]27, 45, 80		3-1
	Tone		22	MR15														
Screen Grid 8	Vol.		6	MR21				8-8-8	3	See Note	B3				8	[3]24, [2]27, [2]45, 80		3-1
	Tone		22	MR15														
NOBLITT-SPARKS (Arvin) 5	Vol.	17-13392	18	UM162		See No	te A96	17-13419	23	2S567		17-14747	859	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	455	9-1,2
								.01		Buffer	B14							

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
NOBLITT-SPARKS—Continued																		
6	Vol.	17-13420	18	MR53	M26			17-13419	23	2S567		17-14747	859	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	455	9-4
								.005		Buffer	B14							
7	Vol.	17-4152-3	15	UM154-SS3	M26			17-4787	1	RM262		17-4732	294	C3	5	6F7, 6A7, 6B7, 41, 84	170	6-1,3
								17-4786	15	TC22								
								.02-.02		Buffer	B14							
7A (Ch. RE44)	Vol.	17-14536	18	UM157-SS12				17-14297	24/15	FP332		17-14747	294	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	455	10-1
								.005		Buffer	B14							
8A (Ch. RE45)	Vol.	17-16225	18	MR48	M26			17-15286	24	2S569	B3	17-14747	294	C3	6	6A8, 6K7, 6Q7G, 6P5G, 6AC5G, 6X5G	455	10-4
								.005		Buffer	B14							
9A	Vol.	17-14536	17	UM157-SS12				17-14132	23	RM265		17-14747	859	C3	6	[2]78, 6A7, 75, 41, 84	170	8-9,9-9
								.01		Buffer	B14							
10A (Two Types)	Vol.		15	SRP251	6			8-16	1	3S584	B8		292	C3	5	6A7, 6B7, 78, 41, 84	175	4-1,5-1
								12-12-1	[‡]	TN111/TP422								
								.02-.02		Buffer	B14							
15	Vol.	17-4152	15	SRP251	6			17-4184	1	RM265			296	C13	5	78, 6A7, 6B7, 41, 84	175	5-3,6
								17-2082	15	TC22			292	C14				
								.02-.02		Buffer	B14							
16	Vol.	17-4152-1	17	SRP251	6			17-4201	1	3S584	B8	29-2169C	292	C3	6	[2]6D6, 6A7, 75, 41, 84	175	5-19
								17-2082	15	TC22								
								.02-.02		Buffer	B14							
17	Vol.	17-4152-3	17	UM154-SS3	M26			17-4703	1	RM265		17-4732	294	C3	6	[2]78, 6A7, 75, 41, 84	175	6-7,8
								17-4707	15	TN111								
								.02-.02		Buffer	B14							
18	Vol.	17-14536	17	UM157-SS12				17-14614	1	RM265		17-14552	294	C3	6	75, [2]78, 6A7, 41, 84	170	7-1,2
								17-14606	15	TN111								
								.01		Buffer	B14							
19	Vol.	17-14536	17	UM157-SS12				17-14614	1	RM265		17-14747	859	C3	6	[2]78, 6A7, 75, 41, 84	170	8-1,2
								17-14606	15	TN111								
								.005		Buffer	B14							
20A (Two Types)	Vol.		15	SRP251			See Note A4	8-8	1	2N518			292	C3	6	75, 77, [2]78 41, 84	181.5	4-4,5
	Vol.		17	SRP251			See Note A27	5	15	TC22								
								.02-.02		Buffer	B14							
20B	Vol.		17	SRP251		[‡]		16-8	1	3S584	B8		292	C3	6	75, 77, 78, 6A7, 41, 84	175	4-16,5-5
								17	15	TC26								
								12-12-12	[‡]	See Note	B3							
								.02-.02		Buffer	B14							
22A	Vol.	17-14536	18	UM157-SS12				17-14132	23	RM265		17-14747	859	C3	6	[2]6K7, 6A8, 6Q7G, 6K6G, 6X5G	170	9-5
								.01		Buffer	B14							
25	Vol.	17-4152	17	SRP251	6			17-4201	1	3S584			296	C13	6	[2]78, 6A7, 6B7, 41, 84	175	5-6,8
								17-2082	15	TC22			292	C14				
								17-2253	[‡]	TN111/TP422								
								.02-.02		Buffer	B14							
27	Vol.	17-4152-3	17	UM154-SS3	M26			17-4703	1	RM265		17-4732	294	C3	7	75, [2]78, 6A7, [2]41, 84	175	6-11,12
								17-4707	15	TN111								
								.02-.02		Buffer	B14							
28	Vol.	17-14536	17	UM157-SS12				17-14611	1	RM265		17-14552	294	C3	6	6A7, [2]78, 75, 42, 84	170	7-2,3
	Tone	17-14505	34	UM143-SS12				17-4707	15	TN111								
								.005		Buffer	B14							
29	Vol.	17-14536	17	UM157-SS12				17-14092	1	RM265		17-14747	859	C3	6	[2]6K7G, 6A8G, 6Q7G, 6V6G, 6X5G	170	8-3,4
	Tone	17-14505	34	UM143-SS12				17-4707	15	TN111								
								.004		Buffer	B14							
30A (Three Types)	Vol.		114	SRP251	6		See Note A27	16-8-5	1/15	3S584/TC22			292	C3	6	[2]77, 78, 79, 41, 84	181.5	4-6,9
	Vol.		17	SRP251	6		See Note A4	.02-.02		Buffer	B14						175	5-9,14
	Tone		114/22	MR39														
32	Vol.	17-14536	17	UM157-SS12				17-14090	1	2S569		17-14747	859	C3	6	[2]6K7, 6A8, 6Q7G, 6V6G, 6X5G	170	9-7
	Tone	17-14505	34	UM154-SS12				17-4709	15	TN111								
								17-14221	1/15	4S718	B10							
								.004		Buffer	B14							
33	Vol.	17-14536	15	UM157-SS12				17-14611	1	RM265		17-14552	294	C3	6	[2]6K7, 6A8, 6Q7, 6F6, 6X5	170	7-2,6
	Tone	17-14505	34	UM154-SS12				17-4707	1	TN111								
								.005		Buffer	B14							
35 (Two Types)	Vol.	17-4152	15	SRP251	6			17-4184	1	RM265		29-4186	296	C13	8	77, 78, 79, 6B7, [2]41, 84, 37	175	5-11, 6-10
								.02-.02		Buffer	B14		292	C14				
37	Vol.	17-4152-3	15	UM154-SS3	M26			17-4716	1	RM265		17-4732	294	C3	8	[2]76, 78, 6A7, 6B7, [2]41, 84	175	6-13,15
								17-4710	13	RS213								
								17-4707	15	TN111								
								.02-.02		Buffer	B14							
38	Vol.	17-14536	17	UM157-SS12				17-14090	1	2S569		17-14552	294	C3	7	[2]78, 6A7, 75, 76, 6A6, 0Z4 or 6X5	170	
	Tone	17-14505	34	UM143-SS12				17-4710	13	RS213								
								17-4707	15	TN111								
								.005		Buffer	B14							
39	Vol.	17-14536	15	UM157-SS12				17-14090	1	2S569		17-14552	294	C3	7	[2]6K7G, 6A8G, 6Q7G, 6C5G, 6N7G, 0Z4 or 6X5	170	8-5,6
	Tone	17-14505	44	UM143-SS12				17-4710	13	RS213								
								17-4707	15	TN111								
								.004		Buffer	B14							
40, 40A (RE49)	Vol.	17-14320	8	MR20	M26	EX2M		17-14319	1/15	FP354					2	25B8GT, 70L7GT		11-3
41	Vol.	17-13906	6	MR19	M26			17-14001	1	RS213					4	6A7, 6F7, 41, 80	456	6-16, 7-7
								17-14002	1	RS216								
								17-14005	15	TC22								

[‡]Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
NOBLITT-SPARKS—Continued																		
42	Vol.	17-14536	17	UM157-SS12				17-14222	1/15	2S569/TN111		17-14552	294	C3	7	[2]6K7, 6A8, 6Q7G, 6C5G, 6N7G, 6X5G or 0Z4	170	9-9
	Tone	17-14505	44	UM143-SS12				.004		Buffer	B14							
44C (Ch. RE46)	Vol.	17-14536	18	UM157-SS12				10-10-20	24/15	FP332			294	C3	6	[2]6SK7, 6A8, 6Q7G, 6V6G, 6X5G	170	10-1
	Tone	17-14505	34	UM143-SS12				.005		Buffer	B14							
45 (Two Types)	Vol.	17-4152	17	SRP251	6			17-4184	1	RM265		29-4186	296	C13	9	37,[3]75, 77,[3]78,[2]41, 84.	175	5-15, 6-17
								.02-.02		Buffer	B14		292	C14				
51	Vol.	17-13308	17	MR48	M26		A58	17-14000	1	RS215					5	6A7, 6D6, 75, 41, 80	456	6-18, 7-7
								17-14002	1	RS216								
								17-14707	15	TN111								
51B	Vol.	17-13308	17	MR48	M26		A58	17-14053	‡	[2]TC22					4	1C6, 34, 1B5, 33, 1A1	456	7-8
								17-14004	‡	TC22								
58, 58A	Vol.	17-15926A	18	MR48	M26			17-14239	1	FP211					5	6A8, 6K7, 6Q7G, 25Z6G, 25L6G	455	9-11
61, 62	Vol.	17-13030	17	MR48				17-14002	1	RS216					6	6A7,[2]6D6, 75, 42, 80	456	6-19, 7-9
	Tone	17-13101	34	MR39	M26			17-14003	1	RS223								
								17-14004	15	TC22								
61B, 62B	Vol.	17-13030	17	MR48				17-4703	1	RM265		17-13187	245	C3	5	[3]78, 6A7, 6B7, 41	175	7-11,12
								17-4707	15	TN111								
								.005		Buffer	B14							
61M, 62M	Vol.	17-13030	17	MR48				17-14002	1	RS216					7	[2]6K7, 6A8, 6H6, 6F5, 6F6, 5Z4	456	6-20, 7-9
	Tone	17-13101	34	MR39	M26			17-14003	1	RS223								
								17-14004	15	TC22								
68	Vol.	17-15926A	18	MR48	M26			17-14233	1/19	FP332					5	6A8, 6K7, 6Q7G, 5Y3G, 6K6G	455	9-13
71 (Ch. RE43)	Vol.	17-15926A	18	MR48	M26			17-14271	4	2S569					5	6A8, 6K7, 6Q7G, 6K6G, 5Y3G	455	11-1
	Vol.	17-16166	18	MR48	M26		A2											
78	Vol.	17-16097	18	MR48				17-14233	1/19	FP332					5	6K8, 6K7, 6Q7G, 6K6G, 5Y3G	455	9-15
	Tone	17-16098	22	MR39	M26	See Note	A3											
81	Vol.	17-13030	15	MR48				17-14002	3	RS216					8	[2]6D6, 6A7, 6B7, 76, [2]6B5, 80	456	6-21, 7-9
	Tone	17-13101	44	MR39	M26			17-14003	3	RS223								
								17-14000	3	RS215								
								17-14004	15	TC22								
81M	Vol.	17-13030	15	MR48				17-14002	3	RS216					9	[2]6K7, 6A8, 6C5, 6H6, [2]6B5, 5Z4	456	6-22, 7-9
	Tone	17-13101	44	MR39	M26			17-14003	3	RS223								
								17-14000	3	RS215								
								17-14004	15	TC22								
88	Vol.	17-15926A	18	MR48	M26			17-14239	1	FP211					5	6A8, 6K7, 6Q7G, 25L6G, 25Z6G, M49B	455	9-11
89, 91 (Ch. RE27)	Vol.	17-16008	18	MR48				17-14249	1, 19	3S579					6	6A8, 6K7, 6Q7G, 6V6G, 6U5, 5Y3G	455	10-7
	Tone	17-16009	34	MR39	M26													
Chassis RE91	Vol.	17-17117	18	MR55	M26			17-14390	1/15	3N533					4	12SA7, 12SQ7, 50L6GT, 35Z4GT/35Z5GT	‡	12-1
92 (Ch. RE31)	Vol.	17-13795	17	MRT427				17-14001	1	RS213					8	6K8, [2]6K7, 6Q7G, [2]6V6G, 6U5, 5Y3G	455	10-8
	Tone	17-13796	44	MR39				17-14126	1	RS216								
								17-14124	14	RS213								
								17-13260	15	TC32/TC29								
302, 302A, (Ch-RE64)	Vol.	17-16650	18	Order from	Mfr.			17-16637	1/15	TN129					4	12SK7, 12SQ7, 50L6GT, 35Z5GT		13-2
402, 402A (Ch. RE55)	Vol.	17-14320	8	MR20	M26	EX2M		17-14319	1/15	FP354					3	25B8GT, 50L6GT, 35Z5GT		11-3
417, 467	Vol.	17-15759	6	MR18	M26			17-14069	1/15	3S579					4	6A7, 6F7, 41, 80	456	7-17,18
422, 422A, (Ch-RE91)	Vol.	17-17117	18	MR55	M26			17-14398	24/15	3N533					4	12SA7, 12SQ7, 50L6GT, 35Z4GT or 35Z5GT		13-3
502, 502A (Ch. RE48)	Vol.	17-14315	18	UM154	M26		A96	17-14326	1/15	3N533					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	455	11-4
508	Vol.	17-14158	7	II	6			17-14160	23	TC44/TC42					4	6D6, 6C6, 25B6G, 25Z5, BK55B		8-7,8
510 (Ch. RE54)	Vol.	17-16422	18	MR53	M26			17-14297	24/15	FP332		17-14747	859	C3	5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455	11-5
								.005		Buffer	B14							
517, 527	Vol.	17-15758	17	MR48	M26			17-14002	1	RS216					5	6A7, 78, 75, 42, 80	456	7-19,20
								17-14000	1	RS215								
								17-4707	15	TN111								
517B, 527B	Vol.	17-15758	17	MR48	M26			17-14082	1	3S584	B8	17-15831	245	C3	5	6A7, 15, 75, 76, 19	456	7-21,22
								17-14005	15	TC22								
								.01		Buffer	B14							
518, 518A, 518DW	Vol.	17-13654	6	MR20	M26			17-14001	25	RS213					5	6A7, 78, 76, 41, 80	455	8-10,13
								17-14111	25	HD684								
518B	Vol.	17-15599	18	UM161		See Note	A96	17-14203	25	RS213		17-15589	245	C3	5	6D8G, 6S7G, 6T7G, [2]1F5G	456	8-11
	Tone	17-15600	22	UM137	M26		A96	17-14202	25	RS207								
520 (Ch-RE84)	Vol.	17-17006	18	MR53				17-14297	24/15	FP332			859	C3	5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	13-4
								.005		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
NOBLITT-SPARKS—Continued																		
522, 522A	Vol.	17-16857	18	MR53	M26			17-14375	1	2N509					5	12SA7, 12SK7, 12SQ7 50L6GT, 35Z5GT	455	13-5
524, 524A, (Ch-RE99)	Vol.	17-16857	18	MR53	M26			17-14415	1/15	TN129					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-6
527	Vol.	17-15758	17	MR48	M26			17-14002	1	RS216					5	6A7, 78, 75, 42, 80	456	7-19
								17-14000	1	HD684								
								17-4707	15	TN111								
527B	Vol.	17-15758	17	MR48	M28			17-14082	1	3S584	B8	17-15831	245	C3	5	6A7, 15, 75, 76, 19	456	7-21
								17-14005	15	TC22								
								.01		Buffer	B14							
532, 532A, (Ch-RE92)	Vol.	17-17193	18	MK402	M26			17-17140	1/15	3N527					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	13-4
568, 568A, 568DW	Vol.	17-13654	6	MR20	M26			17-14001	1	RS213					5	6A7, 78, 76, 41, 80	455	8-10,13
								17-14111	1	HD684								
578B	Vol.	17-13869	56	MR48	M27			17-14005B	19	TC22					4	1C7G, 1D5G, 1H6G, 1G5G	456	8-10
602, 602A (Ch. RE53)	Vol.	17-14333	18	MR53	M26			17-14319	1/15	FP354					6	12A8GT, [2]12K7GT, 12SQ7, 35L6GT, 35Z5GT	455	11-7
	Tone	17-14334	39	MR39														
608	Vol.	17-13817	18	MR48	M26			17-14153	23	RS216					5	6A7, 6D6, 6Q7G, 25B6G, 25Z5, BK49D	456	8-14, 9-17
								17-14154	23	RS207								
610 (Ch. RE58)	Vol.	17-16422	18	MR53	M26			17-14297	24/15	FP332		17-14747	859	C3	5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455	11-5
								.005		Buffer	B14							
616, 616A, (Ch-RE98)	Vol.	17-17291	18	MK402	M26			17-14417	1/15	TN129					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-6
617	Vol.	17-15601	17	MR48				17-14003	1	RS223					6	[2]6K7G, 6A8G, 6Q7G, 6F6G, 5Y3	456	7-23,24
	Tone	17-15604	34	MR39				17-14002	1	RS216								
								17-14001	13	RS213								
								17-14075	15	TC22								
617B	Vol.	17-15601	17	MR48				17-14082	1	3S584	B8	17-15831	245	C3	6	[2]15, 6A7, 75, 76, 19	456	7-25,26
	Tone	17-15604	44	MR39				17-14084	13	RS213								
								17-14075	15	TC22								
								.01		Buffer	B14							
618, 618A	Vol.	17-13655	17	MR53				17-14001	23	RS213					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G, 6E5	455	8-10,16
	Tone	17-13687	22	MR39	M26			17-14111	23	HD684								
								17-14130	23	RM262	B10							
618B	Vol.	17-13754	62	MR48	M27			17-14005	19	TC22					6	1C6,[2]1A4, 30,[2]950	456	8-17,18
620 (Ch-RE85)	Vol.	17-16488	18	MR53	M26			17-14297	24/15	FP332			859	C3	5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	13-7
								.005		Buffer	B14							
622, 622A (Ch. RE78)	Vol.	17-16876	18	1 Meg.			A3	17-14376	1	2N509					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-1
627	Vol.	17-15601	17	MR48				17-14003	1	RS223					6	[2]6K7G, 6A8G, 6Q7G, 6F6G, 5Y3	456	7-23
	Tone	17-15604	34	MR39				17-14002	1	RS216								
								17-14001	13	RS213								
								17-14075	15	TC26								
627B	Vol.	17-15601	17	MR48				17-14082	1	3S584	B8	17-15831	245	C3	6	[2]15, 6A7, 75, 76, 19	456	7-26
	Tone	17-15604	44	MR39				17-14084	13	RS213								
								17-14075	15	TC26								
								.01		Buffer	B14							
628, 628CS	Vol.	17-13655	17	MR53				17-14001	23	RS213					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G, 6E5	455	8-10,16
	Tone	17-13687	22	MR39	M26			17-14111	23	HD684								
								17-14130	23	RM262	B10							
628B	Vol.	17-13754	‡	MR48	M27			17-14005	19	TC22					6	1C6,[2]1A4, 30,[2]950	456	8-17,18
632 (Ch. RE79)	Vol.	17-16899	18	1 Meg.			A3	17-14376	1	2N509					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-1
638, 638CS	Vol.	17-13655	17	MR53				17-14001	23	RS213					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G, 6E5	455	8-10
	Tone	17-13887	22	MR53	M26			17-14111	23	HD684								
								17-14130	23	RM262	B10							
702	Vol.	17-16521	18	UM161	M26		A96	17-14344	1/15	FP306					6	[2]12K7GT, 12A8GT, 12SQ7, 35L6GT, 35Z5GT	455	11-8
	Tone	17-16520	34	UM140			A96											
710 (Ch. RE59)	Vol.	17-14536	18	UM157-SS12				17-14297	24/19	FP332		17-14747	859	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	455	11-9
								.005		Buffer	B14							
720 (Ch. RE86)	Vol.	17-14536	18	UM157-SS12				17-14297	24/15	FP332		17-14747	859	C3	6	[2]6SK7, 6SA7, 6SQ7, 6K6GT, 6X5GT	455	
								.005		Buffer	B14							
722, 722A (Ch. RE80)	Vol.	17-16950	18	MR44	M26			17-6918	1	TN129					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-3
	Tone	17-16951	22	MR39														
732	Vol.	17-16950	18	MR44	M26			17-6918	1	TN129					6	[2]12SK7, 12SA7, 35L6GT, 12SQ7, 35Z5GT	455	12-3
	Tone	17-16951	22	MR39														
802 (Ch. RE57)	Vol.	17-14350	18	MR53	M26			17-14353	24/13	FP304					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	11-11

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
NOBLITT-SPARKS—Continued																		
803 (Ch. RE63)	Vol.	17-14350	18	MR53	M26			17-14353	24/13	FP304					5	1A7GT, 1N5GT, 1I15GT, 3Q5GT, 35Z5GT	455	11-12
810 (Ch. RE60)	Vol.	17-14536	18	UM157-SS12				17-14299	24/15	FP332		17-14747	859	C3	6	§6SK7, 6A8, 6Q7G, 6V6G, 6X5G	170	11-9
	Tone	17-14505	34	UM143-SS12				.005		Buffer	B14							
	Sen.	17-14302	7	C2MP			A68											
818	Vol.	17-13712	20	MRT427				17-14001	1	RS213					8	6A8G, §6K7G, 6H6G, 6F5G, 6V6G, 5Y3G, 6E5	455	8-19,20
	Tone	17-13713	22	MR39	M26			17-14126	1	RS216								
								17-14124	14	RS213								
								17-14123	15	TC29								
820, 821	Vol.	17-17056	18	250M			A3	17-14396	24/15	FP328		17-14747	859	C3	6	§6SK7, 6SA7, 6SQ7, 6U6GT, 6X5GT/6X5	455	12-4,6
								.01		Buffer	B14							
822 (Ch. RE82)	Vol.	17-14350	18	MR53	M26			17-14353	24/13	FP304					5	1A7GT, 1N5GT, 1I15GT, 3Q5GT, 35Z5GT	455	12-5
828	Vol.	17-13712	20	MRT427				17-14001	1	RS213					8	6A8G, §6K7G, 6H6G, 6E5, 6F5G, 6V6G, 5Y3G	455	8-19,20
	Tone	17-13713	22	MR39	M26			17-14126	1	RS216								
								17-14124	14	RS213								
								17-14123	15	TC29								
828A, 828CS	Vol.	17-13712	20	MRT427				17-14001	1	RS213					8	6A8G, §6K7G, 6H6G, 6F5G, 6V6G, 6E5, 5Y3G	455	8-19
	Tone	17-13713	22	MR39	M26			17-14126	1	RS216								
								17-14124	14	RS213								
								17-14123	15	TC29								
828AT, 838AT	Vol.	17-13712	17	MRT427				17-14001	1	RS213					8	6A8G, §6K7G, 6H6G, 6F5G, 6V6G, 6E5, 5Y3G	455	10-9
	Tone	17-13713	22	MR39	M26			17-14124	14	RS213								
								17-14126	1	RS216								
								17-14123	15	TC29								
848CS	Vol.	17-13712	45	MRT427				17-14195	1/14	3S584/TC72					8	6A8G, §6K7G, 6H6G, 6F5G, 6V6G, 6E5, 5Y3G	455	8-21
	Tone	17-14984	22	MR39				17-14123	15	TC29								
927	Vol.	17-15688	17	MRT427				17-14003	3	RS223					9	§6K7G, 6A8G, 6R7G, 6C5G, §6N6G, 5Y3, 6G5	456	7-27,28
	Tone	17-15604	44	MR39				17-14002	3	RS216								
								17-14000	3	RS215								
								17-14075	15	TC22								
1127	Vol.	17-15688	17	MRT427				17-14003	3	RS223					11	§6K7G, 6A8G, 6C5G, §6N6G, 5Z3, 6E5, 6R7G	456	7-29,32
	Tone	17-15707	21	MR48				17-14001	3	RS213								
	Supp.	17-15706	7	E	6			17-14000	3	RS215								
								17-14086	14	RS207								
								17-14087	14	RS207								
								17-14075	15	TC22								
1237, 1247, 1247A	Vol.	17-13795	17	MRT427				17-14002	25	RS216					12	§6K7G, §6A8G, 6Q7G, 6J7G, 6H6G, 6E5, §6V6G, 5U4G	455/100	8-21-24
	Tone	17-13796	44	MR39				17-14138	25	RS216								
								17-14005B	20	TC22								
1237D	Vol.	17-13795	18	MRT427				17-14002	54	RS216					12	§6K7G, §6A8G, 6Q7G, 6J7G, 6H6G, 6AB5, §6V6G, 5U4G	455/100	9-21,24
	Tone	17-13796	44	MR39				17-14005	‡	TC22								
								17-14138	54	RS216								
1427, 1427D	Vol.	17-13795	18	MRT427				17-14002	54	RS216					14	§6K7G, §6A8G, 6J7G, §6H6G, 6AB5, §6C5G, §6L6G, 5U4G	455/100	10-11-14
	Tone	17-13796	44	MR39				17-14005	‡	TC22								
								17-14138	54	RS216								
OLDSMOBILE																		
4036	Vol.	1207607	17	UM154-SS3	M27			1207830	1	TC71		1207758	292	C3	7	§36, 39, 85, §89, 84	262	
	Tone	1207798	44	MR48				.015		Buffer	B14							
393884	Vol.	1209078	15	UM154-SS3				1209047	1/15	3S579		5037400	273C		4	6F7, 6A7, 6B7, 42	262	
393885	Vol.	1209078	45	UM154-SS3				1209144	1/15	4S718		5037400	273C		6	78, 6A7, 6F7, 85, §41	262	
	Tone	1207798	44	MR48														
405045	Vol.	1209364	127	Order from	Mfr.			1209144	1/15	4S718		5037400	273C		6	78, 6A7, 6F7, 85, §41	262	
	Tone	1207798	44	MR48														
405046	Vol.	1209368	15	UM157-SS3				1209047	1/15	3S579		5037400	273C		4	6F7, 6A7, 6B7, 42	262	
405057, 405062 (Early and Late)	Vol.	1209540	15	UM162-SS12				1209588	1	TCD71		5039661	273C		5	6F7, 6A7, 6B7, §41	172	
	Tone	1209539	128	MR48														
405063	Vol.	1209540	15	UM162-SS12				1209531	1/15	TCD71/TC26		5039661	273C		4	6F7, 6A7, 6B7, 42	‡	
980393	Vol.	1207607	17	UM154-SS3	M27			1207830	1	TC71		1207758	292	C3	7	§36, 39, 85, §89, 84	262	8-31
	Tone	1207798	44	MR48				.015		Buffer	B14							
980455	Vol.	1208157	17	UM154-SS3	M26			1207995	1/15	TCD71/TN111		5035120	222		5	§78, 6F7, 75, 41	262	
980459	Vol.	1208157	18	UM154-SS3	M26			1208241	1	TCD71			222		6	§78, 6F7, 85, §41	262	
	Tone	1207798	44	MR48														
982006	Vol.	1210519	17	UM157-SS12				1210514	1/15	3S579		5040700	273C		6	§6D6, 75, 76, 42	262	
	Tone	1562084	22	MR45														
982007, 982008	Vol.	1210518	17	UM162-SS12				1210515	1/15	TCD71/TN111		5040700	273C		7	§6D6, 85, §76, 6E6	262	
	Tone		22	MR48														
982043	Vol.	7230117	20	TM239-SS3				7230264	1	SR638		5050673	852	C3	6	§6K7G, 6A8G, 6Q7G, 6N6G, 6X5G	262	9-1
								.005		Buffer	B14							
982044	Vol.	1210545	20	TM224-SS12				1211580	1/15	3S579		5050673	852	C3	6	§6U7G, 6A8G, 6Q7G, 6F6G, 6X5G	262	9-5,6
								.005		Buffer	B14							
982045	Vol.	1210545	17	TM224-SS12				8-8	1	2N518		5050673	852	C3	8	§6U7G, §6J5G, 6V7G, 6N7G, 6X5G	262	9-7,8
								5-5	15	TN111								
								.005		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
OLDSMOBILE—Continued																		
982083	Vol.	1212440	17	TM232-SS3				8-8	1	2N518		5050673	852	C3	6	[26]U7G, 6A8G, 6B8G, 6V6G, 0Z4G	262	10-1-4
								10	15	TC22								
								.005		Buffer	B14							
982084	Vol.	1212440	20	TM232-SS3				8-8-2-5-5	1/13/15	4S718/TC70		5050673	852	C3	8	[26]U7G, 6A8G, [26]J5G, 6Q7G, 6N7G, 0Z4G	262	10-5-8
								.005		Buffer	B14							
982085	Vol.	7233559	20	TM224-SS12				8-8	1	2N518		5050673	852	C3	6	[26]K7G, 6A8G, 6B8G, 6V6G, 0Z4G	262	9-9,12
								12	15	TC22								
								.005		Buffer	B14							
982126	Vol. & Tone	7236753	124/22	SMD506				7236854	24/15	FP328	B117	5050673	852	C3	7	[26]K7, 6A8G, 6Q7G, 6J5G, 6N7G, 0Z4G	260	10-9-12
								7236486	14	TC52								
								7237190	24	2N518								
								7237189	14/15	2N516								
								.005		Buffer	B14							
982127	Vol.	1213501	18	Order from	Mfr.			7237238	24/15	3S579		1211594	870	C3	5	6A8G, 6K7G, 6Q7G, 6V6G, 6X5G	455	10-13,14
								7236846	14	TC52								
								.0075		Buffer	B14							
982153	Vol.	1212440	17	TM232-SS3				1212441	24/14	3S584		5050673	852	C3	6	[26]U7G, 6A8G, 6B8G, 6V6G, 6X5G	262	10-15,16
								1212487	15	TC22								
								.005		Buffer	B14							
982160	Vol. & Tone	1213696	17/22	SMD508				1213694	24/15	FP426		1213671	870	C3	7	[27]A7, 7Q7, 7E6, [27]C5, 0Z4G	260	11-1,2
								.004		Buffer	B14							
982161	Vol. & Tone	7238806	106	SMD507				7238829	24/15	FP332		7238829	870	C3	6	[27]A7, 7B8, 7B6, 7C5, 0Z4	260	11-3,4
								.01-.01		Buffer	B14							
982215	Vol.	1214418	17/22	Order from	Mfr.			1214417	24/15	FP444		1213671	870	C3	7	[27]A7, 7A8, 7E6, [27]C5, 0Z4G	260	12-1-4
								.004		Buffer	B14							
982216	Vol. & Tone	7241048	106	Order from	Mfr.			7240724	24/15	FP339		7238829	870	C3	6	[27]A7, 7B8, 7B6, 7C5, 0Z4	260	12-4-6
								.006		Buffer	B14							
982259	Vol.		18	UM154	M26		A96	15-10-20	24/15	FP328			859	C3	5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 0Z4G	455	12-7,8
								.004		Buffer	B14							
982282	Vol. & Tone	1215914	18/22	Order from	Mfr.			1214417	24/15	FP444		1213732	870	C3	7	[27]A7, 7Q7, 7E6, [27]C5, 0Z4G	260	13-1,2,3
								.004		Buffer	B14							
982283	Vol. & Tone	7241958	106	Order from	Mfr.			7240724	24/15	FP339		7238829	870	C3	6	[27]A7, 7B8, 7B6, 7C5, 0Z4	262	13-4,5,6
								.006		Buffer	B14							
OPERADIO MFG. CO.																		
478A, 478AH, 2478A	Vol.		15	MR48				8	2/25	HD684					5	56, 53, [32]A3, 5Z3		6-1
								8-8	2/25	2N518								
								10	15	TC22								
								20	19	TC47								
								75	14	See Note	B3							
484, 484A, 484B	Vol.		15	MR48											3	[38]64		6-3
677A	Vol.		15	MR48				30	1	RS223					6	[37], [36]B5, 83		7-2
	Phono.		50	MR48				8-8	1/13	2N518								
								10	15	TC22								
								25	15	TC26								
678A	Vol.		15	MR48				30	1	RS223					6	[37], [36]B5, 83		7-3
	Phono.		50	MR48				8-8	1/13	2N518								
								10	15	TC22								
								25	15	TC26								
683A								16	1	RS216					5	[46]B5, 83		7-1
								8	1	RS213								
								25	15	TC26								
823A								16	1	RS216					5	[46]B5, 83		7-4
								8	1	RS213								
								25	15	TC26								
2667A	Vol.		15	MR48				30	1	RS223					6	[37], [36]B5, 83		7-2
	Phono.		50	MR48				8-8	1/13	2N518								
								10	15	TC22								
								25	15	TC26								
ORGATRON (Everett Piano)																		
LS-2	Quality			Order from	Mfr.			Main and Pre-Amp.								‡		
	Pedal			MR48				8, 8, 8		3	RS213							
	S. Flute			NN				10		15	TC22							
	U. Flute			NN				Echo Field		Supply								
	String			NN				8, 8		1	RS213							
	Horn			MR48														
	Bril.			Order from	Mfr.													

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ORGATRON (Everett Piano)—Continued																		
MD-1								Pre-Amplifier								‡		
								8-8	13	2N518								
								25	15	TC26								
								10	15	TC22								
								Main Amplifier										
								30	13	RS223								
								25	15	TC26								
								Power Supply										
								30	2	RS223								
								50	19	TC48								
								Echo Field Supply										
								8, 8	1	RS213								
PACIFIC RADIO (Aetna, Knight, Manchester, etc.)																		
Midget Super	Vol.	221	18	MR48	M26			20	6	TC47					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	9-4
								12	6/13	TC44								
TRF Midget	Vol.	220	6	‡		See Note A5		20-12-12	46	See Note	B3				4	6K7, 6J7, 25L6, 25Z6		10-10
A60B	Vol.		18	MR48				16-12	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5	465	10-5
	Tone		22	‡		See Note A5												
1, 2	Vol.	217	6	‡		See Note A5		16-12	4	TCS44					4	6D6, 6C6, 25L6, 25Z5, L49C		
3-(38)	Vol.	215	18	MR48				16-12	4	TCS44					6	6A7, 6D6, 75, 25L6, 25Z5, 6G5, L49C	465	9-1
4-(38)	Vol.	215	18	MR48				16-12	4	TCS44					7	6A8, 6D6, 76, 6K5, 6G5, 25L6, 25Z5, L49C	‡	
	Tone	304A	22	‡		See Note A5		10	15	TC22								
5SW	Vol.		18	MR48				16-12	4	TCS44					5	6A7, 6D6, 6B7, 43, 25Z5	456	9-2
H6-37	Vol.		17	MR55				8-6	4	2S567			294	C3	6	[2]6D6, 6A7, 6Q7, 41, 0Z4	262	8-1
	Tone		22	‡		See Note A5		10	15	TC22								
6V	Vol.		18	MR48				.008		Buffer	B14							
								12-6	1	2S569			294	C3	5	6A7, 6D6, 75, 41, 84	465	7-1
								10	15	TC22								
								.02		Buffer	B14							
H7-1937	Vol.		17	UM163		See Note A96		8-6	4	2S567			294	C3	7	[2]6K7, 6L7, 6Q7, 6F6, 6C5, 0Z4	262	8-1
	Tone		34	UM133		See Note A96		.008		Buffer	B14							
M7-(38)	Vol.	223	18	UM154	M26		A96	6-6	4	2S567		1505	294	C24	5	6A7, 6K7, 6Q7, 41, 84	456	9-3
								.006		Buffer	B14							
8AC	Vol.	221	18	MR48	M26			1736	1	FP371	B3				8	6A7, 6D6, 6Q7, 76, 6U5, [2]43, 25Z5	465	
	Tone	305	44	‡		See Note A5												
8T-6V	Vol.		18	MR48				15-15-40	1/15	FP316	B3		See Note	C8	8	6D8, 6S7, 6J7, 6AB5, 6L5, [2]33, 1H4	465	9-3
	Tone		44	‡		See Note A5		10	15	TC22								
								.02		Buffer	B14							
11	Vol.	215	18	MR48				8-4	23	2S567					5	6A7, 6D6, 75, 41, 80	456	9-1
12-(38)	Vol.	215	18	MR48				1703	23	2S567					6	6A8, 6D6, 6G5, 6Q7, 41, 80	465	10-1
	Tone	304A	34	‡		See Note A5												
14-(38)	Vol.	215	45	MR48				8-4	23	2S567					7	6A8, 6D6, 76, 6K5, 6G5, 42, 80	465	
	Tone		34	‡		See Note A5		10	15	TC22								
15, 16-37 Series	Vol.		6	MR18				16-12	23	TCS44					4	6D6, 6C6, 43, 25Z5, L49C		10-2
15-(38)	Vol.	218	17	‡		See Note A19		12	1	RS215					9	[2]6K7, 6A8, 6Q7, 6G5, 6C5, [2]6F6, 5Y3	465	
	Tone		44	‡		See Note A5		18	1	RS216								
								10	15	TC22								
20-37 Series	Vol.		6	MR21				16-12	23	TCS71					4	6D6, 6C6, 25L6, 25Z5, L49C		
21, 22	Vol.	216	18	MR48	M27			8-8	1	2N518		480	245	C3	4	1C7, 1D5, 1H6, 1G5	456	9-5
								.01-.01		Buffer	B14							
23	Vol.	215	45	MR18	M26			1720	1	2N516		480	245	C3	6	6D8, 6S7, [2]6L5, 1J6	465	9-5
	Tone		34	‡		See Note A5		.01		Buffer	B14							
25	Vol.	221	45	MR48	M26			1720	1/15	3S579		480	245	C3	6	6A8, 6S7, [2]6L5, 41	465	10-3
	Tone	305	34	‡		See Note A5		.01-.01		Buffer	B14							
25 (4T, TRF)	Vol.		6	MR21	M26	EX300		16-12	23	TCS44					4	6D6, 6C6, 43, 25Z5		
30-37 Series	Vol.		18	MR48				16-12	27	TCS44					6	6A7, 6D6, 75, 25L6, 6G5, 25Z5, L49C	456	
35-(38)	Vol.	221	18	MR48	M26			16-12	27	TCS44					6	6A7, 6D6, 6Q7, 25A6, 25Z5, 6U5, L49B	465	9-6
37-61	Vol.		18	MR48				16-12	27	TCS14					6	6A7, 6D6, 75, 43, 6G5, 25Z5	456	7-2
37-321	Vol.		18	MR48				8-4	23	2S567					5	6A7, 6D6, 75, 42, 80, or 6A7, 6K7, 75, 6F6, 80	465	8-10
	Tone		22	‡		See Note A5												
37-6320	Vol.		45	MR48				8-4	23	2S567					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	465	7-6
	Tone		34	‡		See Note A5												
37-6322	Vol.		45	MR48		See Note A5		16-12	27	TCS44					7	6A7, 6D6, 76, 6F5, 43, 6G5, 25Z5	465	7-7
	Tone		34	‡		See Note A5												
37-7370	Vol.		20	‡		See Note A19		12-14	23	2S569					8	[2]6K7, 6A8, 6H6, 6F5, 6F6, 6G5, 5Y3	465	7-9
	Tone		34	‡		See Note A5		10	15	TC22								
37-14370	Vol.		75	2 Meg. No. 1		See Note A19		12	25	RS215					14	[3]6K7, 6A8, [2]6H6, [3]6C5, 6G5, [2]6F6, [3]5Z4	465	7-10
	Tone		34	‡		See Note A5		18	25	RS216								
								8, 8	13	TC71								
								10	19	TC32								
40	Vol.		6	G7	6			16-12	23	TCS44					4	6D6, 6C6, 43, 25Z5		10-5

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PACIFIC RADIO—Continued																		
41	Vol.	221	45	MR48	M26			8-4	23	2S567					7	6A7, 6D6, 76, 6K5, 6U5, 41, 80	465	10-6
	Tone	305	34	‡		See Note A5												
42	Vol.	221	18	MR48	M26			1727	1	2S569					8	6A7, 6D6, 6Q7, 76, 6U5, 43, 25Z5	465	10-7
	Tone	305	34	‡		See Note A5												
43-(38)	Vol.	221	45	MR48				1729	1	2N509					11	6A7, 6D6, 76, 6U5, 43, 25Z5	465	9-7
	Tone	305	44	‡		See Note A5		10	15	TC22								
50-37 Series	Vol.		18	MR48				8-4	23	2S567					6	6A7, 6D6, 75, 6G5, 42, 80	465	8-3
	Tone		34	‡		See Note A5												
60	Vol.		18	MR48				8-4	23	2S567					7	6K7, 6A8, 6Q7, 6G5, 6F6, 5Y3	465	8-4
	Tone		34	‡		See Note A5												
80-37 Series	Vol.		45	MR48				8-8	1	2N516			245	C3	6	6D6, 6S7, 6L5, 19	465	8-5
	Tone		34	‡		See Note A5		.01		Buffer	B14							
81A	Vol.		18	MR48											5	1C6, 34, 1B5, 30, 19	465	7-3
101	Vol.		18	UM154	M26	See Note A96		6-12	1	3S584	B3		292	C3	5	6A7, 6D6, 6B7, 41, 84	456	8-6
								10	15	TC22								
								.02-.02		Buffer	B14							
101B, 101C	Vol.		18	MR48	M26	EC240		8-8	4	TCS71	B3		294	C3	5	6A7, 6D6, 75, 41, 0Z4	456	
								.01-.01		Buffer	B14							
102 (Knight 6 tube)	Vol.		18	MR48	M26	EC240		6-12	1	3S584	B3		292	C3	6	6D6, 6A7, 75, 41, 84	175	8-6
								10	15	TC22								
								.02-.02		Buffer	B14							
102B	Vol.		18	MR48	M26	EC240		8-8	4	TCS71	B3		294	C3	6	6K7, 6A8, 6Q7, 6F6, 0Z4	262	8-6
	Tone		22	‡		See Note A5		.01		Buffer	B14							
110-37 Series	Vol.		20	2 Meg. No. 1		See Note A19		12	1	RS215					12	6K7, 6A8, 6H6, 6G5, 6C5, 6F6, 5Y3	465	8-7
								18	1	RS216								
150-37 Series	Vol.		20	2 Meg. No. 1		See Note A19		12	1	RS215					15	6K7, 6A8, 6H6, 6C5, 6G5, 6F6, 5Y3	465	8-8
	Chan.		‡	MR55				18	1	RS216								
301	Vol.	221	18	MR48	M26			1732	1/15	FP316		1505	294	C3	5	6A8, 6S7, 6T7, 41, 6ZY5	465	11-2
	Tone	305	34	MR33				.01		Buffer	B14							
302	Vol.	221	45	MR48	M26			1732	1/15	FP316		1506	See Note	C8	7	6A8, 6S7, 6L5, 6AB5, 1J6	465	9-8
	Tone	305	34	‡		See Note A5		.02		Buffer	B14							
321-36	Vol.		18	MR48				8-4	23	2S567					5	6A7, 6D6, 75, 42, 80	465	8-9
501	Vol.	220	6	‡		See Note A5		1733	46/15	FP409					4	6D6, 6C6, 43, 25Z5		
601	Vol.	221	18	MR48	M26			1732	1/15	FP316					5	6A7, 6D6, 6Q7, 41, 80	465	9-8
602	Vol.	221	18	MR48	M26			1733	46/15	FP409					6	6A7, 6D6, 6Q7, 25A6, 6U5, 25Z5	465	
603	Vol.	221	127	MR48	M26			1733	46/15	FP409					7	6A7, 6D6, 75, 6K5, 25A6, 25Z5, 6U5	465	
	Tone	305	34	‡		See Note A5												
682	Vol.		45	MR48				8-4	1	2N516			Order from Mfr.		6	1C6, 34, 30, 19	465	7-4
	Tone		22	MR33				.01-.01		Buffer	B14							
702	Vol.	221	45	MR48	M26			1729	1	2S569					11	6A7, 6D6, 76, 43, 6U5, 25Z5	465	10-9
	Tone	305	44	‡		See Note A5		10	15	TC22								
915	Vol.	218	17	‡		See Note A19		12	1	HD684					9	6K7, 6A7, 6Q7, 6C5, 6G5, 6F6, 5Y3	465	10-10
	Tone		44	‡		See Note A5		18	1	RS219								
								25	1	RS223								
3280	Vol.		18	MR48				8-4	23	2S567					6	6A7, 6D6, 76, 75, 48	465	7-5
6370	Vol.		45	MR48				8-4	23	2S567					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Y3	465	7-8
	Tone		22	‡		See Note A5												
PACIFIC RADIO EXCHANGE																		
27	Vol.		6	MR18				16-8	4	TC44/TC42					4	78, 6C6, 43, 25Z5, 55A		
37-37A	Vol.		18	MR48				4-4	23	2S567					5	6A7, 78, 75, 41, 80	456	
57	Vol.		18	500M No. 1		See Note A19		16	25	ST597					6	6A7, 6D6, 6G5, 75, 41, 80	456	
								12	25	ST597								
556	Vol.		18	MR48				8-8	25	2S567					5	6A8, 6K7, 6Q7, 6F6, 5W4	456	
5 Tube TRF	Vol.		7	MR28	M26			8, 8	1	RS213					5	58, 57, 2A5, 83		
	Tone		22	SRP263				5	15	TC22								
"Round the World Five"	Vol.		7	MR19				8, 8	4	RS213					5	58, 57, 2A5, 5Z3		
	Reg.		12	MR33				5	15	TC22								
"Round the World Six"	Vol.		12	MR33	M26			8, 8	4	RS213					6	58, 57, 56, 47, 82		
	Sen.		33	MR53														
Super Auto Midget	Vol.		18	UM154	M26		A96	5-5	15	TN111					3	6A7, 6B7, 41 or 89	465	
Spero Autodyne	Vol.		15	UM154		See Note A96		4-4	1	TCD71			292	C3	6	44, 36, 85, 89, 84	‡	
								5	15	TC22								
								.02		Buffer	B14							
Spero Four	Vol.		6	MR18	M26			4, 4	23	RS213					4	58, 57, PZ, 82		§6-24
	Tone		22	MR33														
Spero Super	Vol.		83	MR48	M26			8-8	1	RS213					10	56, 58, 47, 82, Wunderlich	175	§6-25
	Tone		41	MR44				4	1	RS213								
Spero 7 Tube All-Wave	Vol.		15	MR48	M26			8, 8	1	RS213					7	57, 56, 58, 55, 59, 83	‡	
	Tone		‡	MR39				10	15	TC22								
Spero 10 Tube All-Wave	Vol.		15	MR48	M26			4	3	RS213					10	58, 57, 56, 55, 59, 83	‡	
	Tone		‡	MR39				8	3	RS213								
PACKARD																		
PA333915 (Early)	Vol.	118270	17	UM162-SS3				117314	1/15	FP332		116202	854	C3	7	6SK7, 6A8, 6R7, 6V6GT, 0Z4	455	
								.01		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PACKARD—Continued																		
PA333915 (Late Marked with R)	Vol.	118270	17	UM162-SS3				117314 .01	1/15	FP332 Buffer	 B14	116202	854	C3	7	[2]6SK7, 6A8, 6R7, [2]6V6GT, 0Z4	455	
PA351099, PA351100	Vol.	117321	17	UM162-SS3				117314 .01	1/15	FP332 Buffer	 B14	116202	854	C3	7	[2]6SK7, 6A8, 6R7, [2]6V6GT, 0Z4	455	
PA351101, PA351102	Vol.	117321	17	UM162-SS3				114258 .01	74	TC71 Buffer	 B14	116202	854	C3	6	[2]6SK7, 6A8, 6SQ7, 6V6GT, 6X5GT	455	
PA353832	Vol.	118270	17	UM162-SS3				117314 .01	1/15	FP332 Buffer	 B14	116202	854	C3	7	[2]6SK7, 6A8, 6R7, [2]6V6GT, 0Z4	455	
PACKARD BELL CO																		
5 "Kompak"	Vol.		6	MR18	M26	EX300		4-4	23	TCS71					5	6J7, 6K7, 6C5, 6F6, 5W4	460	8-1
5A	Vol.		17	MR48				4-4	23	TCS71					5	6A8, 6K7, 6Q7, 6F6, 5W4	460	
5AC	Vol.		18	MR48				8-4-4	60	3S584					5	6SA7, 6SK7, 6Q7G, 6K6G, 6X5G	460	11-1
5AE, 5AEP	Vol.		18	MR48				16-8-4	60	3S584/TC71	B8				5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	460	11-1
5B	Vol.		17	MR48				8-4	23	2S567					5	6A8, 6SK7, 6SQ7, 6F6, 5W4	460	10-1
5D	Vol.		18	MR48				20-20	1	2N509					5	12SA7, 12SK7, 12SQ7GT, 35L6GT, 35Z5GT	‡	10-2, 12-1
5E, 5EP	Vol.		18	MR48				30-50	77	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	456	13-1
5M	Vol.		17	MR48				8-4	23	2S567					5	6A7, 6D6, 75, 41, 80	460	9-1
5MP	Vol.		17	MR48				8-4	23	2S567					5	6A7, 6D6, 75, 41, 80	460	
5N	Vol.		18	MR48				20-40	6	2N514					5	12SA7, 12SK7, 12SQ7GT, 35L6GT, 35Z5GT	460	10-4
5NP	Vol.		18	MR48				20-40	6	2N514					5	12SA7, 12SK7, 12Q7GT, 35L6GT, 35Z5GT	460	10-4
5T	Vol.		17	MR48				4-4	23	TCS71					5	6A7, 6D6, 75, 41, 80	460	
5TP	Vol.		17	MR48				8-4	23	2S567					5	6A7, 6D6, 75, 41, 80	460	9-1
6A	Vol.		18	MR48	M26			20-20-50	1/15	2N509/TC29					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	460	12-1
6B	Vol. Tone		18 ‡	MR48 MR57	M26			30-50	24	2N520					6	12SA7, [2]12SK7, 12SF7, 35L6GT, 35Z5GT	456	13-2
15	Vol.		6	MR18		EX300		8-4	40	2S567	B3				5	6C6, 6D6, 76, 41, 80	460	10-1
25	Vol.		18	UM154	M26	See Note A96		8-8	74	See Note	B3		294		5	6A7, 6D6, 85, 42, 84	460	6-1
34	Vol.		6	MR18	M26	EX300		5-5	23	See Note	B3				4	6D6, 76, 42, 80		6-4
35	Vol. Tone		6 22	MR18 MR33	M26	EX300		5-5	23	See Note	B3				5	6C6, 6D6, 76, 42, 80	460	6-4
35 Late	Vol.		18	MR48				4-4	23	TCS71					5	6A7, 6D6, 75, 42, 80	460	7-1
35A	Vol.		6	MR18	M26	EX300		4-4	23	TCS71	B3				5	57, 58, 56, 2A5, 80	460	6-2
35H	Vol.		18	500M		See Note A19		10 12	25 25	RS215 RS215					5	6A7, 6D6, 75, 41, 80	460	8-3
35J	Vol.		18	500M		See Note A19		10 12	25 25	RS215 RS215					6	6A7, 6D6, 75, 41, 80, 6U5/6G5	460	
35L	Vol.		17	MR48				8-4	23	2S567					5	6A7, 6D6, 75, 41, 80	460	10-5
35LP	Vol.		17	MR48				8-4	23	2S567					5	6A7, 6D6, 75, 41, 80	460	
35M	Vol.		17	MR48				8-4	23	2S567					5	6A7, 6D6, 75, 41, 80	460	9-1
35N	Vol.		18	MR48				40-20 20	40 13	2N514 TC47					5	12SA7, 12SK7, 12Q7GT, 35L6GT, 35Z5GT	460	10-4
36	Vol.		15	MR48				4-4	23	TCS71	B3				6	2A7, [2]58, 55, 2A5, 80	460	6-3
40	Vol.		18	MRT430				8	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	460	10-2
40B	Vol.		18	MR48	M27			20-10-10-100	24	FP407	B211				5	1A7G, 1N5G, 1H5G, 1A5G, 117Z6G	460	11-2
41	Vol.		18	MRT430				8	12	TC42					4	1A7G, 1N5G, 1H5G, 1A5G	460	10-1
45M	Vol. Tone		6 22	MR15 MR33		EX175		8-8	23	TCS71	B3				5	6A8, 6K7, 6F5, 6F6, 5Z4	460	6-4
46	Vol. Tone		18 22	MR48 MR33	M26			8-4	23	2S567					5	6A7, 6D6, 75, 42, 80	460	7-2
46B	Vol.		17	500M		See Note A19		12, 12	25	RS215					5	6A7, 6D6, 75, 41, 80	460	8-3
46D	Vol.		17	500M		See Note A19		12, 12	25	RS215					6	6A7, 6D6, 75, 41, 80, 6G5	460	9-1
46DP	Vol.		18	500M		See Note A19		12, 12	25	RS215					6	6A7, 6D6, 75, 42, 80, 6G5	460	9-2
46E	Vol.		17	500M		See Note A19		12, 12	25	RS215					6	6A7, 6SK7, 75, 6AF6G, 41, 80	460	
46EP	Vol.		17	500M		See Note A19		12, 12	25	RS215					6	6A7, 6SK7, 75, 42, 80, 6AF6G	460	
46G	Vol. Tone		124 ‡	MR48 MR57				12-12	23	2S569					6	6SA7, 6SK7, 75, 6AF6G, 41, 80	460	11-3

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PACKARD BELL CO.—Continued																		
46H, 46HC	Vol.		124	MR48				12-12	23	2S569					6	6SA7, 6SK7, 6SQ7, 6AF6G, 6K6GT, 5Y3G	460	11-4
	Tone		‡	MR57														
46HP	Vol.		124	MR48				12-12	23	2S569					6	6SA7, 6SK7, 6SQ7, 6AF6G, 6F6G, 5Y3G	460	11-4
	Tone		21	MR57														
46J	Vol.		124	500M			A19	16	23	TC74					6	‡6SK7, 6SA7, 6SQ7, 6V6GT, 6X5GT	460	12-2
	Tone		‡	MR57				8	23	TC71								
47M	Vol.		45	MR48				8-8	25	TCS71					7	‡6K7, 6A8, 6H6, 6F5, 6F6, 5Z4	458	7-1
	Tone		22	MR33				8	13	TC71								
48	Vol.		45	MR48				8-8	25	TCS71					7	6A8, ‡6K7, 6H6, 6E5, 6F6, 5Z4	458	7-3
	Tone		22	MR33				8	13	TC71								
48B, 48BC	Vol.		18	500M		See Note A19		8, 8	25	RS213					7	6A8, ‡6K7, 6G5, 6H6, 6F6, 5Z4	460	9-2
								8	13	TC71								
48BP	Vol.		20	500M		See Note A19		8	25	RS213					7	6A8, ‡6K7, 6U5, 6H6, 6F6, 5Z4, 610-10	460	
								16	25	RS216								
								8	13	TC71								
48D, 48DC, 48DK	Vol.		20	500M		See Note A19		8	25	ST595					8	6K8, ‡6SK7, 6AF6G, 76, 41, 80, 6AE6G	460	
								8-16	25/13	3S584	B8							
48E, 48EP	Vol.		140	500M			A19	8-8	25/‡	2N518					8	6SA7, 6SK7, 6SQ7, 6AF6G, 6J5, ‡6V6G, 80	460	11-5
	Treble		140	MR57				12	25	TC74								
	Bass		‡	MR57														
48F	Vol.		124	‡			A19	12-8-8	25/‡	TC74/2N518					8	6SA7, 6SK7, 6SQ7, 6AF6G, 6J5, ‡6V6GT, 5Y3G	460	11-5
	Treble		‡	MR57														
	Bass		‡	MR57														
48FPA	Vol.		140	500M			A19	12-8-8	25/13	TC74/2N518					8	6SA7, 6SK7, 6SQ7, 6AF6G, 6J5, ‡6V6GT, 5Y3G	460	11-6
	Treble		‡	MR57														
	Bass		‡	MR57														
48H	Vol.		124	500M		See Note A19		20-20	1	FP234	B117				8	‡6SK7, 6SA7, 6SQ7, ‡6V6GT, 6X5GT	460	13-4
	Bass		‡	MR57														
	Treble		‡	MR57														
50 High Fidelity	Vol.		18	MR48				16, 16	30	RS216					10	‡6K7, 6A8, 6R7, 6G5, ‡6L6, ‡5Z4	460	8-1,2
								8-8	30/13	2S567								
50P	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	460	11-2
56	Vol.		18	MR53	M27			100-20	76	FP357	B117				5	1A7GT, 1N5GT, 1H5GT, 1Q5GT, 25Z6G	460	12-1
								500	78	TC1505								
57	Vol.		18	MR53	M27			100-20	40	FP357	B117				6	‡1N5GT, 1A7GT, 1H5GT, 1Q5GT, 25Z6G	460	12-4
								500	78	TC1505								
57A	Vol.		18	MR53	M27			100-20	40	FP357	B117				6	‡1N5GT, 1A7GT, 1H5GT, 1Q5GT, 117Z6G	460	12-4
								500	78	TC1505								
58	Vol.		140	‡		See Note A19		16, 16	4	RS216					8	6K8, 6SK7, 6SQ7, 6C5, ‡6V6G, 5U4G, 6AF6G	460	10-6
	Bass		140	MR57				8	13	TC71								
	Treble		‡	MR57														
58A	Vol.		124	500M			A19	16-16	4	RS216					8	6SA7, 6SK7, 6SQ7, 6AF6G, 6J5, ‡6V6GT, 5U4G	460	11-6
	Bass		‡	MR57				8	13	TC62								
	Treble		22	MR57				10	19	TC52								
65	Vol.		*6	MR18	M26	EX300		4-4	23	TCS71	B3				5	56, 57, 58, 2A5, 80	465	6-2
	Tone		21	MR44														
65 (Auto)	Vol.		18	UM154			A96	8-8	74	TCS71			294	C3	5	6A7, 6D6, 75, 42, 84	460	7-4
65A	Vol.		124	500M			A19	16-8	23	3S584	B8				6	‡6SK7, 6SA7, 6SQ7, 6K6GT, 6X5GT	460	12-2
	Tone		‡	MR57														
65AP	Vol.		124	500M		See Note A19		16-8	4	3S584	B8				5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	460	13-2
	Tone		‡	MR57														
66	Vol.		20	500M			A19	12, 12	25	RS215					6	6A7, ‡6D6, 76, 41, 80	460	9-3
66D	Vol.		124	500M			A19	16-8	23	3S584	B8				6	‡6SK7, 6SA7, 6SQ7, 6V6GT, 6X5GT	460	12-5
	Treble		‡	MR57														
	Bass		‡	MR57														
66DP	Vol.		124	500M			A19	16-8	23	3S584	B8				6	‡6SK7, 6SA7, 6SQ7, 6V6GT, 6X5GT	460	12-5
	Bass		‡	MR57														
	Treble		‡	MR57														
66DPA	Vol.		124	500M			A19	16-8	4	3S584	B8				6	‡6SK7, 6SA7, 6B8G, 6V6GT, 6X5GT	460	12-2
	Treble		21	MR57				6	13	TC52								
	Bass		‡	MR57				20	15	TC26								
66DR, 66DRC	Vol.		124	500M		See Note A19		16-8	4	3S584	B8				6	‡6SK7, 6SA7, 6B8G, 6V6GT, 6X5GT	460	13-5
	Bass		‡	MR57														
	Treble		21	MR57														
67 (Auto)	Vol.		75	UM154			A96	8-8	4	TCS71			294	C3	7	‡6K7, 6A8, 6H6, 6F6, 84	460	7-4
	Tone		22	MR33														
67B, 67BA, 67BK, 67BKA, 67BPR, 67BPRDL, 67BR	Vol.		18	MR48				16-8	25	3S584	B8				7	6SA7, 6SF7, 6SQ7, 6SK7, 6U5, 6V6GT, 6X5GT	456	13-6
	Tone		34	MR57														
75	Vol.		18	500M		See Note A19		8-8	74	TCS71			294	C3	5	6A8G, 6K7G, 6Q7G, 6K6G, 6X5G	460	
								.005		Buffer	B14							
76	Vol.		18	M				4-4	23	TCS71	B3				6	2A7, 2B7, ‡57, 2A5, 80	465	6-5
	Tone		21	M														
	Supp.		12	Y250MP														

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PACKARD BELL CO.—Continued																		
76 (Auto)	Vol.		18	500M			A19	8-8 .005	74	TCS71 Buffer	.B14	600	859	C3	6	²⁶K7G, 6A8G, 6Q7G, 6K6G, 6X5G	460	8-4
78	Vol.		18	UM154			A96	8-8 .005	1	2N518 Buffer	.B14	94	294	C3	8	²⁶K7, 6A8, 6Q7G, 6C5, ²⁶K6G, 6X5G	460	9-4
86	Vol. Tone Supp.		45 21 ‡	N M Y50MP				4-4	23	TCS71	.B3				6	2A7, 2B7, ²57, 2A5, 80	465	6-6
88, 88P, 88PA	Vol. Tone		18 44	500M MR57		See Note	A19	20-20	1	TCD75					8	6SA7, ²6SK7, 6SQ7, ²6V6GT, 6X5GT	456	13-6
120	Vol.		45	500M			A19	16, 16 8	1 13	ST597 TC62					11	²6K7, 6A8, 6H6, 6F5, ²6C5, ²6F6, ²5W4	460	8-1,2
120AB	Vol.		45	500M		See Note	A19	16, 16 8	1 13	RS216 TC62					12	²6K7, 6K8, 6H6, 6F5, ²6C5, ²6F6, ²5Z4, 6U5	460	9-3
120D, 120DR	Vol. Treble Bass		124 ‡ ‡	500M MR57 MR57			A19	20 20-10	1 1/13	FP144 FP234					12	²6SK7, 6AF6, 6K8, ²6J5GT, ²6V6GT, ²6X5GT	460	12-6
120ER	Vol. Bass Treble Mic.		‡ ‡ ‡ ‡	MR57 MR57 MR48		See Note	A3	20 20-10	46 46	FP144 FP234					12	²6SK7, ²6SA7, 6SQ7, 6AF6G, 6J5GT, 6U5, ²6V6GT, 5Y3G	460	13-7
130PR	Vol. Bass Treble		‡ ‡ ‡	500M MR57 MR57		See Note	A19	20, 20 10	46 46	TC75 TC72					13	²6SK7, 6SA7, 6AF6, ²6SQ7, 6SR7, 6J5, 6U5, ²6V6GT, 5Y3G	456	13-8
160	Vol.		20	500M		See Note	A19	16, 16 10 8	1 15 13	RS216 TC22 RS213					16	²6K7, 6A8, 6U5, 6J7, 6B8, 6H6, 6F5, ²6J5, ²6F6, ²5W4	460	
PACKARD RADIO CO.																		
4 tube Superhet	Vol. Tone		‡ 22	MR18 ‡		See Note	A5	4-4	23	See Note	.B3				4	²57, 47, 80	‡	3-1
4	Vol. Tone		‡ 22	MR18 MR44	M26			4-4	23	TCS71	.B3				4	²57, 47, 80	235	4-1
5 Auto Set	Vol.		11	UM147		See Note	A96	5	19	TC31					5	55, 57, ²58, 47	465	3-1
6 tube Auto	Vol.		18	MR48	‡			4-4 .05-.05	1	2N518 Buffer	.B14		294	C3	6	²6D6, 6A7, 75, 41, 84	470	4-2
11, 13	Vol.		6	G7	6	3		4-4	23	TCS71	.B3				4	58, 57, 2A5, 80		4-1
24, 24C	Vol. Tone		‡ 22	MR18 MR44	M26			4-4	23	TCS71	.B3				4	²57, 47, 80	235	4-1
85	Vol. Tone		6 22	G7 MR44	6	3		4-4	23	TCS71	.B3				5	55, 57, 58, 47 or 2A5, 80	470	4-2
PARAMOUNT RADIO CO.																		
Laurel Tone	Vol.		6	G7	‡	2		7-7 10	1 19	2N518 TC22					4	57, 58, 47, 80		§5-14
5M-17	Vol.	B16970	6	MR33	M26			B16973 B17042	27 27	RS207 RS207					4	6D6, 6C6, 43, 25Z5		
6M-27	Vol. Tone	B17010 B17047	17 ‡	MR53 MR44	M26			B17041-3 B17197	4 4	FP115 FP115					5	6A8G, 6K7G, 6Q7G, 25B6G, 25Z6G	456	
6U-107, 6L-137, 6C-607	Vol. Tone	B16542-2 B16540-2	18 34	MR53 MR42	M26			B16466 B16467-2	4 4	RS216 HD684					6	6A8G, 6K7G, 6Q7G, 6G5, 6K6G, 5Y3	456	
7U-117, 7L-147, 7C-707	Vol. Tone	B16542-2 B16540-2	18 34	MR53 MR42	M26			B16466 B16467-2	4 4	RS216 HD684					7	6L7G, 6C5G, 6K7G, 6Q7G, 6G5, 6F6G, 5Y3	456	
8C-807	Vol. Tone	B16542-2 B16540-2	18 44	MR53 MR42	M26			A15236-3 A15237-3	25 25	RS223 RS215					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, ²6F6G, 5Y3	456	
8U-127	Vol. Tone	B16542-2 B16539-2	18 44	MR53 Order from	M26 Mfr.			A15236-3 A15237-2	25 25	RS223 RS215					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, ²6F6G, 5Y3	456	
10C-1007	Vol. Tone	B16553-2 B16540-2	17 22	MRT448 MR42	M26			B16554-2 B15427 B16551	1 1 15	RS223 RS216 TN111					10	²6K7G, 6L7G, 6C5G, 6Q7G, 6G5, ²6F6G, 5Z3	456	
PARKER McCRORY																		
BA41	Vol.		45	MR48	M26			8-8 .01-.01	1	2N518 Buffer	.B14	P402	245C	C3	6	1C6, 34, ²30, 32, 33	456	12-7
4A (1939)	Vol.	P2600	18	MK401	M27			P2602	19	TC47					4	1A7G, 1N5G, 1H5G, 1C5G	456	12-1,2
4A (1940)	Vol.	P2600	18	MK401	M27			P2602	19	TC26					4	1A7G, 1N5G, 1H5G, 1Q5G	456	12-1,2
4J	Vol.	P3317	18	MK401	M27			P3024	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-3
5DB (775,001 and up)	Vol. Tone		17 22	MR48 MR39	M26			10-20 5 .01	1 15	TCD55 TC22 Buffer	.B14		245C	C3	4	1C6, 34, 1B5, 38	456	13-1
6C (1939 Masterpiece)	Vol. Tone	P2848 P2849	18 34	Order from UM140-SS25	Mfr. M27			8-8-5 .015	1/15	2N516/TC22 Buffer	.B14		859	C3	6	6L5G, 6D8G, 6S7G, 6T7G, 6G6G, 6ZY5G	456	12-1,2

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PARKER McCRORY—Continued																		
6D	Vol.	P2271	18	Order from	Mfr.			8-8-5	1/15	2N516/TC22			859	C3	6	6D8G, 6S7G, 6T7G, 6G6G, 6L5G, 6ZY5G	455	12-5,6
								.015		Buffer	B14							
7C	Vol.	P3335	18	MK401	M26			10-10	1	FP231					7	6A7, 6D6, 75, 76, ²41, 80	455	12-3,4
	Tone	P3337	22	MK401														
7H	Vol.	P3335	18	MK401	M26			P3419	1	FP231					7	6A7, 6D6, 75, 76, ²41, 80	455	12-4,5
	Tone	P3337	22	MK401														
400	Vol.		18	500M			A3	8-8	1	2N516				C8	4	6A7, 34, 1B5, 41	456	12-8
								12	15	TC22								
								.0075		Buffer	B14							
525	Vol.		18	MR48				8-8	1	2N516			See Note	C8	5	1C6, 1A4, 75, 30, 19	456	13-2
								.005		Buffer	B14							
630	Vol.		18	MR48				12	1	RS215					8	6A7, 6D6, 85, ²76, ²6V6G, 80	456	12-7
								8	1	RS213								
680	Vol.		18	MR48				8-8	1	2N518			859	C3	7	6D8G, 6S7G, 6T7G, ²6L5G, 6Z7G, 6ZY5G	456	13-3
								5	15	TC22								
								.01-.01		Buffer	B14							
733	Vol.		45	MR48				8-8	1	2N516			245C	C3	7	1C6, ²34, ²30, 19	456	13-4,2
								.005		Buffer	B14							
PATHE																		
P5	Vol.		75	MR48				25	1	ST598					6	6K8GT, 6K7GT, 6H4GT, 12SJ7GT, 6V6GT, 6X5G	455	11-1
	Tone		22	MR48	M26			16	1	ST597								
23X	Vol.		7	MR28	M26			30-20	24	2N514					4	12K7GT, 12J7GT, 35L6GT, 35Z5GT		11-2
38T	Vol.		18	MR48	M27			8	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-3
39T	Vol.		18	MR48	M27			8	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-2
40T	Vol.		18	MR48	M27			8	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-3
41P	Vol.		18	MR48	M27			70-24	24	See Note	B3				5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5GT	455	12-1
								100	78	TC2501								
52	Vol.		18	MR48	M26			30-18	1	2N514					5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	455	11-3
54	Vol.		18	MR48	M26			30-18	1	2N514					5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-4
102	Vol.		18	MR48	M26			38-18	1	2N514					8	6A7, 6D6, 75, 76, ²25L6G, ²25Z5	455	12-3
	Tone		21	MR48				40	12	TC48								
109T	Vol.		7	MR28	M26			40	24	TC48					5	12K7GT, 12J5GT, 12F5GT, 35L6GT, 35Z5GT		12-4
	Tone		50	MR44	M28			30	24	TC47								
								50	15	TC29								
114C	Vol.		106	MR48	M26			20	1	ST598					6	6A8G, 6K7G, 6I16G, 6F5G, 6V6G, 6X5G	455	11-2
	Tone		106	MR48				16	1	ST597								
140	Vol.		18	MR48	M26			40	24	TC48					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	12-4
								30	24	TC47								
201	Vol.		106	MR48	M26			40-20	1	2N514					5	6K8G, 6D6, 75, 25L6G, 25Z5	455	12-3
	Tone		106	MR48														
240	Vol.		18	MR48	M26			40	24	TC48					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	12-4
								30	24	TC47								
340	Vol.		75	MR48	M26			40	24	TC48					6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT	455	12-2
								30	24	TC47								
342P	Vol.		18	MR48	M27			70-24	24	See Note	B3				5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5GT	455	12-1
								100	78	TC2501								
440	Vol.		18	MR48	M26			40-30	24	FP214					6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT	455	§13-3
	Tone		22	MR48														
500P	Vol.		75	MR48				25	1	ST598					6	6K8GT, 6K7GT, 6H4GT, 12SJ7GT, 6V6GT, 6X5G	455	11-1
	Tone		22	MR48	M26			16	1	ST597								
740	Vol.		18	MR48	M26			40-30	24	2N511					6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT	455	§13-3,4
PATTERSON RADIO CO.																		
Pre-Selector	Vol.		6	D12											2	²58		5-1
PR10	Vol.		15	MR48	M26			8, 8	35	RS213					10	55, 56, ²57, ²58, 59, 5Z3	467.5	5-2
	M. Vol.		7	D12	6			10	15	TC22								
	Sen.		7	C1MP														
	Meter		‡	C1MP														
PR15	Vol.		127	MR48				16, 16	1	RS216					15	²6K7, 6A8, 6K6G, 6L7, 6Q7, 6H6, 6N7, 6J7, 6C5, ²6V6G, 5X4G	458	
	Tone		76	MR48	M26			8	13	RS213								
	Sen.		‡	UC500				25	15	TC26								
	Meter		‡	C200P														
	Man. Vol.		8	MR28														

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PATTERSON RADIO CO.—	Continued																	
PR16	Vol.		15	MR48	M26			16, 16, 16	4	RS216					16	‡76, 6A6, ‡6A3, 6F7, ‡6C6, ‡6D6, 5Z3	458	6-1
	Tone		21	MR33				8	13	RS213								
	M. Vol.		15	MR48	M26			10	15	TC22								
	Sil.		7	UC500														
	Meter		‡	CIMP														
PR16 Series C	Vol.		15	MR48	M26			16, 16, 16	1	RS216					16	‡6D6, ‡6C6, ‡76, 75, 6A6, ‡42, 5Z3	458	7-1,4
	Tone		149	MR39				8	13	RS213								
	Sen.		8	MR28				4	14	RS213								
	I.F. Gain		‡	MR28														
	Meter		7	CIMP														
50AW	Vol.		83	MR48	M26			8-8	1	See Note	B3				8	55, 56, 57, ‡58, ‡59, 5Z3	262.5	4-2
	Tone		22	MR42														
	Sen.		8	UC500														
60 Series	Vol.		15	MR48	M26			8-8	1	See Note	B3				6	2A7, ‡58, 55, 2A5, 80	465	5-1
	Tone		22	MR42				10	15	TC22								
70AW (without rear fuse and cover)	Vol.		15	MR48	M26			8-8	1	See Note	B3				7	56, 57, ‡58, 55, 59, 82	262	3-1
	Tone		34	MR42				10	15	TC22								
70AW, 74AW (with rear fuse and cover)	Vol.		15	MR48	M26			8-8	35	See Note	B3				7	56, 57, ‡58, 55, 59, 82	262	4-1
	Tone		22	MR42				10	15	TC22								
75AW	Vol.		15	MR53				16	1	RS216					7	6A7, 6D6, 6B7, 6A6, ‡42, 80	458	8-1
	Tone		147	MR44				8	1	RS213								
	Sen.		7	‡		See Note A5		10	15	TC22								
75AWA	Vol.		114	MR48	M26			16	1	RS216					7	6A7, 6D6, 6B7, 6A6, ‡42, 80	458	8-3,4
	Tone		114	MR33				8	1	RS213								
78B, 79B (Chassis 77B, 77BA)	Vol.		76	MR48				8-8	1	2N518			245	C3	7	‡6S7, 6A8, 6B8, 6G5, 6K6	465	9-1
	Tone		76	MR48	M26			.0075		Buffer	B14							
	Sen.		7	CIMP														
80AW, 84AW	Vol.		83	MR48	M26			8-8	1	See Note	B3				8	55, 56, 57, ‡58, ‡59, 5Z3	262	4-2
	Tone		22	MR42														
	Sen.		8	UC500														
80B (Chassis 77B, 77BA)	Vol.		76	MR48				8-8	1	2N518			245	C3	7	‡6S7, 6A8, 6B8, 6G5, 6K6	465	9-1
	Tone		76	MR48	M26			.0075		Buffer	B14							
	Sen.		7	CIMP														
85AW	Vol.		18	MR48	M26			8-8	1	2N518					8	‡6D6, 6A7, 75 or 85, ‡42, 5Z3	432	8-5,6
	Tone		149	MR33				8	14	RS216								
85AWA	Vol.		15	MR48	M26			16	1	RS216					8	6A7, ‡6D6, 85, 6A6, ‡42, 80	458	8-3,4
	Tone		22	MR33				8	1	RS213								
								10	15	TC22								
86AW	Vol.	750	15	‡		See Note A19		16	4	RS216					8	6A7, 6B7, 6A6, ‡6D6, ‡42, 5Z3	458	6-3
	Tone	751	21	MR33				10	15	TC22								
	Sil.	752	7	UC500														
87, 87A	Vol.		124	MR48				16, 16	1	RS216					8	‡6K7, 6A8, 6Q7, 6G5, 6F6, 5X3	465	8-7,8
	Tone		‡	MR48	M26			10	15	TC22								
88, 89 (Chassis 87)	Vol.		124	MR48				16, 16	1	RS216					8	‡6K7, 6A8, 6Q7, 6G5, 6F6, 5X3	465	8-7
	Tone		‡	MR48	M26			10	15	TC22								
	Sen.		7	CIMP														
90 (Chassis 87A)	Vol.		124	MR48				16, 16	1	RS216					8	‡6K7, 6A8, 6Q7, 6G5, 6F6, 5X3	465	8-7
	Tone		‡	MR48	M26			10	15	TC22								
	Sen.		7	CIMP														
104AW (46 power tubes)	Vol.		15	MR48	M26			4-8-4	3	See Note	B3				10	55, ‡56, 57, ‡58, ‡46, 83	262	4-3
104AW (59 power tubes)	Vol.		15	MR48	M26			8-8	35	See Note	B3				10	55, ‡56, ‡57, ‡58, ‡59, 82	262	4-4
	Tone		22	MR42				4	19	TC40								
	Supp.		‡	MR42														
105AW	Vol.		45	MRT430	M26			8	7	RS213					10	‡6D6, 6A7, ‡85, 76, ‡42, 5Z3	432	8-2
	Tone		22	MR33				8-8	7	2N518								
	Sil.		48	CIMP				5	15	TC22								
106AW	Vol.		15	MR48	M26			16	4	RS216					10	6A6, 6A7, ‡6D6, 76, 6C6, ‡42, 5Z3	458	6-3
	Tone		21	MR33				10	15	TC22								
	Sil.		7	UC500														
107, 107A	Vol.		124	MR48				16, 16	1	RS216					10	‡6K7, 6L7, 6Q7, 6G5, ‡6F6, 5X3	465	8-7,8
	Tone		‡	MR48	M26													
107AW (without rear fuse and cover)	Vol.		15	MR48	M26			8-4	1	See Note	B3				7	57, ‡58, 56, 55-Wunderlich, 59, 82	262	3-1
	Tone		22	MR42				10	15	TC22								
108, 109 (Chassis 107)	Vol.		124	MR48				16, 16	1	RS216					10	‡6K7, 6L7, 6Q7, 6G5, ‡6F6, 5X3	465	8-7
	Tone		‡	MR48	M26													
110 (Chassis 107A)	Vol.		124	MR48				16, 16	1	RS216					10	‡6K7, 6L7, 6Q7, 6G5, ‡6F6, 5X3	465	8-7
	Tone		‡	MR48	M26													
111	Vol.		124	MR48				16, 16	1	RS216					8	‡6K7, 6A8, 6Q7, 6G5, 6F6, 5X3	465	8-7
	Tone		‡	MR48	M26													
126AW	Vol.		15	MR48	M26			16	4	RS216					12	‡6D6, 6A7, 6C6, ‡76, 6A6, ‡6A3, 5Z3	458	6-3
	Tone		21	MR33				10	19	TC32								
	Sil.		7	UC500														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PATTERSON RADIO CO.—Continued																		
127, 127A	Vol.		124	MR48				16, 16	1	RS216					12	§6K7, 6L7, 6Q7, 6C5, 6G5, §6F6, 5X4	465	8-7,8
	Tone		‡	Y1000MP														
	Sen.		7	UC500														
128 (Chassis 127)	Vol.		124	MR48				16, 16	1	RS216					12	§6K7, 6L7, 6Q7, 6C5, 6G5, §6F6, 5X4	465	8-7
	Tone		‡	Y1000MP														
	Sen.		7	UC500														
128 (Chassis 228, 428)	Vol.		76	MR48				16	1	RS216					12	6A8, §6K7, 6H6, 6U5, §6C5, §6F6, 6K6G, 5Y3	465	9-2
	Tone		76	MR48	M26			8	1	RS213								
129 (Chassis 127A)	Vol.		124	MR48				16-16	1	RS216					12	§6K7, 6L7, 6Q7, 6C5, 6G5, §6F6, 5X4	465	8-7
	Tone		‡	Y1000MP														
	Sen.		7	UC500														
130	Vol.		124	MR48				16, 16	1	RS216					8	§6K7, 6A8, 6Q7, 6G5, 6F6, 5X3	465	8-7
	Tone		‡	MR48	M26			10	15	TC22								
168	Vol.		76	MR48	M26			8-8	1	2N518			245	C3	6	§6K7, 6A8, 6B8, 6G5, 6V6G	465	9-3
	Tone		76	MR48				.0075		Buffer	B14							
175AW	Vol.		15	MR53				16	1	RS216					7	6A7, 6D6, 6B7, 6A6, §42, 80	458	8-1
	Tone		147	MR44				8	1	RS213								
								10	15	TC22								
175AWA	Vol.		114	MR48	M26			16	1	RS216					7	6A7, 6D6, 6B7, 6A6, §42, 80	458	8-3
	Tone		114	MR33				8	1	RS213								
185AW	Vol.		18	MR48	M26			8-8	1	2N518					8	§6D6, 6A7, 75, §42, 5Z3	432	8-5
	Tone		149	MR33				8	14	RS213								
185AWA	Vol.		15	MR48	M26			16	1	RS216					8	6A7, §6D6, 85, 6A6, §42, 80	458	8-3
	Tone		22	MR33				8	1	RS213								
								10	15	TC22								
186AW	Vol.		15	MRT427	M26			16	4	RS216					8	6A7, 6B7, 6A6, §6D6, §42, 5Z3	458	6-2,4
	Tone		21	MR33				10	19	TC32								
	Sil.		7	UC500														
198	Vol.		76	MR48	M26			8-8	1	2N518					9	§6K7, 6A8, 6G5, §6V6G, 6H6, 6N7, 5Y3	465	9-3
	Tone		76	MR48														
207AW, 210AW (without rear fuse and cover)	Vol.		15	MR48	M26			8-4	1	See Note	B3				7	55, 56, 57, §58, 59, 82	262	3-1
	Tone		22	MR42				10	15	TC22								
208	Vol.		76	MR48				16, 16	1	RS216					8	§6K7, 6A8, 6B8, 6E5, 6V6, 5Y3	465	9-4
	Tone		76	MR48	M26			10, 10	15	TC22								
212	Vol.		76	MR48				16, 16	1	RS216					12	§6K7, 6A8, 6K6, 6E5, 6Q7, 6C5, 6J7, §6V6, 5Y3	465	9-4
	Tone		76	MR48	M26			25	15	TC26								
								10	15	TC22								
Chassis 228	Vol.		76	MR48				16	1	RS216					12	6A8, §6K7, 6H6, 6U5, §6C5, §6F6, 5Y3, 6K6G	465	9-2
	Tone		76	MR48	M26			8	1	RS213								
268	Vol.		76	MR48	M26			8-8	1	2N518			245	C3	6	§6K7, 6A8, 6B8, 6G5, 6V6G	465	9-3
	Tone		76	MR48				.0075		Buffer	B14							
275AW	Vol.		15	MR53				16	1	RS216					7	6A7, 6D6, 6B7, 6A6, §42, 80	458	8-1
	Tone		147	MR44				8	1	RS213								
								10	15	TC22								
275AWA	Vol.		114	MR48	M26			16	1	RS216					7	6A7, 6D6, 6B7, 6A6, §42, 80	458	8-3
	Tone		114	MR33				8	1	RS213								
285AW	Vol.		18	MR48	M26			8-8	1	2N518					8	§6D6, 6A7, 75, §42, 5Z3	432	8-5
	Tone		149	MR33				8	14	RS213								
285AWA	Vol.		15	MR48	M26			16	1	RS216					8	6A7, §6D6, 85, 6A6, §42, 80	458	8-3
	Tone		22	MR33				8	1	RS213								
								10	15	TC22								
286AW	Vol.		15	MRT427	M26			16	4	RS216					8	6A7, 6A6, 6B7, §6D6, §42, 5Z3	458	6-2,4
	Tone		21	MR33				10	19	TC32								
	Sil.		7	UC500														
298	Vol.		76	MR48	M26			8-8	1	2N518					9	§6K7, 6A8, 6G5, §6V6G, 6H6, 6N7, 5Y3	465	9-3
	Tone		76	MR48														
308	Vol.		76	MR48				16, 16	1	RS216					8	§6K7, 6A8, 6B8, 6E5, 6V6, 5Y3	465	9-4
	Tone		76	MR48	M26			10, 10	15	TC22								
312	Vol.		76	MR48				16, 16	1	RS216					12	§6K7, 6A8, 6K6, 6E5, 6Q7, 6C5, 6J7, §6V6, 5Y3	465	9-4
	Tone		76	MR48	M26			25	15	TC26								
								10	15	TC22								
375AW	Vol.		15	MR53				16	1	RS216					7	6A7, 6D6, 6B7, 6A6, §42, 80	458	8-1
	Tone		147	MR44				8	1	RS213								
								10	15	TC22								
375AWA	Vol.		114	MR48	M26			16	1	RS216					7	6A7, 6D6, 6B7, 6A6, §42, 80	458	8-3
	Tone		114	MR33				8	1	RS213								
385AW	Vol.		18	MR48	M26			8-8	1	2N518					8	§6D6, 6A7, 75, §42, 5Z3	432	8-5
	Tone		149	MR33				8	14	RS213								
385AWA	Vol.		15	MR48	M26			16	1	RS216					8	6A7, §6D6, 85, 6A6, §42, 80	458	8-3
	Tone		22	MR33				8	1	RS213								
								10	15	TC22								
386AW	Vol.		15	MRT427	M26			16	4	RS216					6	6A6, 6A7, 6B7, 6D6, 42, 5Z3	458	6-3
	Tone		21	MR33				10	19	TC32								
	Sil.		7	UC500														
408	Vol.		76	MR48				16, 16	1	RS216					8	§6K7, 6A8, 6B8, 6E5, 6V6, 5Y3	465	9-4
	Tone		76	MR48	M26			10, 10	15	TC22								

‡ Data not substantiated

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PATTERSON RADIO CO.—Continued																		
412	Vol.		76	MR48				16, 16	1	RS216					12	[6]K7, 6A8, 6K6, 6E5, 6Q7, 6C5, 6J7, [6]V6, 5Y3	465	9-4
	Tone		76	MR48	M26			25	15	TC26								
								10	15	TC22								
428	Vol.		76	MR48				16	1	RS216					12	6A8, [6]K7, 6H6, 6U5, [6]C5, [6]F6, 5Y3, 6K6G	465	9-2
	Tone		76	MR48	M26			8	1	RS213								
507AW (with rear fuse and cover)	Vol.		15	MR48	M26			8-8	35	See Note	B3				7	55, 56, 57, [5]8, 59, 82.	262	4-1
	Tone		22	MR42				10	15	TC22								
508AW	Vol.		83	MR48	M26			8-8	1	See Note	B3				8	55, 56, 57, [5]8, [5]9, 5Z3	262	4-2
	Tone		22	MR42														
	Sen.		8	UC500														
510AW (46 power tube)	Vol.		15	MR48	M26			4-8-4	3	See Note	B3				10	55, [5]6, 57, [5]8, [4]6, 82.	262	4-3
510AW (59 power tubes)	Vol.		15	MR48	M26			8-8	35	See Note	B3				10	55, [5]6, [5]7, [5]8, [5]9, 82.	262	4-4
	Tone		22	MR42				4	19	TC40								
	Supp.		‡	MR42														
1105AW	Vol.		45	MRT430	M26			8	7	RS213					10	[6]D6, 6A7, [5]85, 76, [4]2, 5Z3	432	8-2
	Tone		22	MR33				8-8	7	2N518								
	Sil.		48	C1MP				5	15	TC22								
1106AW	Vol.		15	MR48	M26			16	4	RS216					10	6A6, 6A7, [6]D6, 76, 6C6, [4]2, 5Z3	458	6-2,4
	Tone		21	MR33				10	19	TC32								
	Sil.		7	UC500														
1126AW	Vol.		15	MR48	M26			16	4	RS216					12	6A6, 6A7, 6C6, [6]D6, [6]A3, 5Z3, [7]6	458	6-2,4
	Tone		21	MR33				10	19	TC32								
	Sil.		7	UC500														
2105AW	Vol.		45	MRT430	M26			8	7	RS213					10	[6]D6, 6A7, [5]85, 76, [4]2, 5Z3	432	8-2
	Tone		22	MR33				8-8	7	2N518								
	Sil.		48	C1MP				5	15	TC22								
2106AW	Vol.		15	MR48	M26			16	4	RS216					10	6A6, 6A7, 6C6, [6]D6, 76, [4]2, 5Z3	458	6-2,4
	Tone		21	MR33				10	19	TC32								
	Sil.		7	UC500														
2126AW	Vol.		15	MR48	M26			16	4	RS216					12	[6]D6, 6A7, 6C6, 6A6, [7]6, [6]A3, 5Z3	458	6-2,4
	Tone		21	MR33				10	19	TC32								
	Sil.		7	UC500														
3105AW	Vol.		45	MRT430	M26			8	7	RS213					10	[6]D6, 6A7, [5]85, 76, [4]2, 5Z3	432	8-2
	Tone		22	MR33				8-8	7	2N518								
	Sil.		48	C1MP				5	15	TC22								
3106AW	Vol.		15	MR48	M26			16	4	RS216					10	6A6, 6A7, [6]D6, 6C6, 76, [4]2, 5Z3	458	6-2,4
	Tone		21	MR33				10	19	TC32								
	Sil.		7	UC500														
3126AW	Vol.		15	MR48	M26			16	4	RS216					12	[6]D6, 6A7, 6C6, 6A6, [7]6, [6]A3, 5Z3	458	6-2,4
	Tone		21	MR33				10	19	TC32								
	Sil.		7	UC500														
9507AW (with rear fuse and cover)	Vol.		15	MR48	M26			8-8	35	See Note	B3				7	55, 56, 57, [5]8, 59, 82.	262	4-1
	Tone		22	MR42				10	15	TC22								
PEERLESS—See United Reproducers																		
PERFECTONE, INC.																		
4 tube receiver	Vol.		15	MR48				10	15	TC22					4	[3]6, 41		§5-15
PETER PAN																		
B	Vol.		6	MR18	M26			4, 4	23	TC71					4	[3]57, 47, 80	465	7-2
	Tone		22	MR44														
4, 48	Vol.		6	MR18				4, 4	23	TC71					4	6D6, 6C6, 42, 80		7-1
4 (With Tone Control)	Vol.		6	MR18	M26			4, 4	23	TC71					4	[3]57, 47, 80		7-2
	Tone		22	‡		See Note	A5											
25AV-25AU	Vol.		56	MR48	M26			4, 4	23	TC71					5	58, 57, 55, 47, 80	255	7-2
	Tone		22	MR44														
34	Vol.		6	MR18				4, 4	23	TC71					4	6D6, 76, 42, 80		7-1
45	Vol.		18	MR48				4, 4	23	TC71					5	6A7, 78, 75, 42, 80	465	7-1
56	Vol.		18	MR48				8-8	23	2S567					5	6J7, 6K7, 6Q7, 6F6, 5Z4	465	7-1
	Tone		21	MR48														
PHILCO																		
A (Packard)	Vol.	VC7525	16	MR53	M27	EB247									6	[3]6, 85, 37, 79	260	6-87,88
A-361	Vol. & Tone	67-0060	18/22	Order from	Mfr.			61-0089	1/15	FP328					6	[7]A7, 7B8, 7B6, 7C5, 7Y4	265	14-115, 116
	Sen.	67-0025	7	Order from	Mfr.													
A-801	Vol. & Tone	67-0040	‡	Order from	Mfr.			61-0150	12/13/15	FP424					8	[7]A7, 7B8, 7B6, 7A4, [7]C5, 7Y4	455	14-117, 118
	Sen.	67-0025	7	Order from	Mfr.													
AC206 (Studebaker)	Vol.	38-5606	18	MR48	M26			30-2072	1/15	TCD71/TC22		38-5036	507P	C3	6	[4]4, 77, 75, 42, 84	260	6-79
								.01		Buffer	B14							
AC206 code 122 (Studebaker)	Vol.	38-5935	18	MRT425	M26	FS252	A52	30-2015	1	TCD71		38-5036	507P	C3	6	[4]4, 6A7, 75, 42, 84	260	5-6
								30-4065	15	TC26								
								.01		Buffer	B14							

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
AC236 (Studebaker Jr.)	Vol.	33-5058	18	MR53	M26	FS252	A52	30-2072 7440 .01	1 15	TCD71/TC22 TC22 Buffer	.B14	38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	6-84
AC266 (ST3) (Studebaker DeLuxe)	Vol.	38-6297	17	MRT425	M26	FS251	A51	30-2105 30-2106 .01	1 15	TCD71 TN111 Buffer	.B14	38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-99
AC989 (Nash)	Vol.	38-5280	19	TM221-SS1	M26	FS252	A52	30-2015 30-4065 .006	1 15	TCD71 TC26 Buffer	.B14	38-5036	507P	C3	6	‡44, 6A7, 75, 41, 84	260	6-79, 8-3
AC989 (Code 122) (Nash)	Vol.	38-5935	18	MRT425	M26	FS252	A52	30-2015 30-4065 .006	1 15	TCD71 TC26 Buffer	.B14	38-5036	507P	C3	6	‡44, 6A7, 75, 41, 84	260	6-78, 8-3
AC1089 (Nash)	Vol.	38-5606	18	MR48	M26			30-2072 .01	1/15	TCD71/TC22 Buffer	.B14	38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	6-85, 8-4
AC1289 (Nash Jr.)	Vol.	33-5058	18	MR53	M26	FS252	A52	30-2015 7440 .01	1 15	TCD71 TC22 Buffer	.B14	38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	6-84, 8-4
AR1, AR2	Vol.	67-0020	18	Order from	Mfr.			61-0089 .015	24/15	FP328 Buffer	.B14	83-0025	859	C3	6	‡7B7, 7A8, 7C6, 7A5, 7Y4	455	12-101, 102
AR3	Vol.		18	TM225	M26		A96	61-0089 .003	24/15	FP328 Buffer	.B14	83-0025	859	C3	6	‡7A7, 7B8, 7B6, 7B5, 7Y4	455	
AR4	Vol.	67-0032-1	18	SM316				61-0089 .003	24/15	FP328 Buffer	.B14	83-0025	859	C3	6	7B8, ‡7A7, 7B6, 7C5, 7Y4	455	12-102, 103
AR5	Vol.	67-0032-1	18	SM316				61-0089 .003	24/15	FP328 Buffer	.B14	83-0025	859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	455	12-105
AR6	Vol.	33-5268	18	UM161-SS27	M26			61-0089 .003	24/15	FP328 Buffer	.B14	83-0025	859	C3	6	‡7A7, 6A7, 75, 41, 7Y4	455	12-104
AR7	Vol.	33-5268	18	UM161-SS27	M26			61-0089 .003	24/15	FP328 Buffer	.B14	83-0025	859	C3	6	‡7A7, 6A7, 75, 41, 7Y4	455	12-107, 108
AR8	Vol.	33-5268	17	UM161-SS25	M26			61-0089 .003	24/15	FP328 Buffer	.B14	83-0025	859	C3	7	‡7A7, 6A7, 75, 7A4, 6Y7G, 7Y4	455	12-109
AR9	Vol.	67-0032-2	18	SM316				61-0089 .003	24/15	FP328 Buffer	.B14	83-0025	859	C3	6	7L7, 7J7, 7A7, 7B6, 7C5, 7Y4	455	12-110
AR10	Vol.	67-0020	18	Order from	Mfr.			61-0068 .015	24/15	FP332 Buffer	.B14	83-0025	859	C3	6	‡7B7, 7A8, 7C6, 7A5, 7Y4	455	13-1
AR40	Vol.	67-0043	18	Order from	Mfr.			61-0089 .003	24/15	FP328 Buffer	.B14	83-0025	859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	455	13-3,2
AR45	Vol.		18	‡			A3	61-0089 .003	24/15	FP328 Buffer	.B14		859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	455	13-16,3
AR50	Vol.	67-0043	18	Order from	Mfr.			61-0089 .003	24/15	FP328 Buffer	.B14	83-0025	859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	455	13-17,3
AR55	Vol.		18	‡			A3	61-0089 .003	24/15	FP328 Buffer	.B14		859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	455	13-18,3
AR65	Vol.	67-0032	18	SM316				61-0089 .003	24/15	FP328 Buffer	.B14	83-0025	859	C3	6	7L7, 7J7, 7A7, 7B6, 7C5, 7Y4	455	13-19,20
AR75	Vol.	67-0043	18	Order from	Mfr.			61-0150 .005	24/13/15	FP424 Buffer	.B14	83-0025	859	C3	8	‡7A7, 7B8, 7B6, 7A4, ‡7C5, 7Y4	455	13-3,21
B	Vol.	7525	16	MR53	M27	EB247		30-2030 04354 .006	1 14/15	SR638 See Note Buffer	.B133 .B14	38-5036	507P	C3	6	‡36, 85, 41, 84	260	6-89,90
B6	Vol.	7525	16	MR53	M27	EB247		04354	14/15	See Note	.B133				5	‡36, 85, 41	260	3-55
C	Vol.	38-5280	18	TM221-SS1	M26	FS252	A52	30-2015 30-2027 .01	1 15	TCD71 TC26 Buffer	.B14	38-5036	507P	C3	6	‡39, 6A7, 75, 42, 84	260	4-56,57
C (Nash) (AC989)	Vol.	38-5280	19	TM221-SS1	M26	FS252	A52	30-2015 30-4065 .006	1 15	TCD71 TC26 Buffer	.B14	38-5036	507P	C3	6	‡44, 6A7, 75, 42, 84	260	6-79,80
C (122)	Vol.	38-5851	18	MRT425	M26	FS251	A51	30-2015 30-4065 .01	1 15	TCD71 TC26 Buffer	.B14	38-5036	507P	C3	6	‡39, 6A7, 75, 42, 84	260	5-5,6
C6 (Chrysler) CT2, CT5	Vol.	33-5088	17	TM225-SS5	M26			30-2107 30-2076 .01	1 15	2N518 TN111 Buffer	.B14	38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-67,68
C1423 (Chrysler)	Vol.	33-5139	18	SRP282			A67	30-2179 .008	4	SR645 Buffer	.B14	41-3170	505P	C3	7	‡78, 6A7, 75, ‡41, 84	260	9-45
C1450	Vol.	33-5121	18	SRP282				30-2179 .008	4	SR645 Buffer	.B14	41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-146
C1452	Vol.	33-5121	18	SRP282				30-2179 .008	4	SR645 Buffer	.B14	41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-147
C1550 (Chrysler)	Vol.	33-5257	17	Order from	Mfr.			30-2179 .0075	4	SR645 Buffer	.B14	41-3170	505P	C3	6	‡78, 6A7, 75, 42, 84	260	9-53,54
C1606 (Chrysler)	Vol.	67-0010	18	‡		See Note	A3	61-0022 .015	4	2S567 Buffer	.B14	41-3398	859	C3	5	6A7, 78, 75, 41, 84	400	10-49, 50
C1608 (Chrysler)	Vol.	67-0003	18	Order from	Mfr.			61-0009 .0075	4	2S567 Buffer	.B14	41-3170	505P	C3	6	‡78, 6A7, 75, 42, 84	470	10-51, 52
C1708	Vol.	67-0022	18	Order from	Mfr.			61-0072 .002	24/15	FP444 Buffer	.B69 .B14	83-0017	859	C3	6	‡7A7, 7B8, 7B6, 7B5, 7Y4	455	12-112

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
C1808	Vol.	67-0040	18/22	Order from	Mfr.			61-0150	24/13/15	FP444		83-0027	859		8	‡7A7, 7B8, 7B6, 7A4, ‡7C5, 7Y4	455	13-31, 32
								.005		Buffer	B14							
C1908	Vol. & Tone	67-0040	18/‡	Order from	Mfr.			61-0150	46/15	FP424		83-0026	859	C3	8	‡7A7, 7B8, 7B6, 7A4, ‡7C5, 7Y4	455	14-128-131
								.005		Buffer	B14							
	Sen.	67-0025	7	Order from	Mfr.													
CDS	Vol.	38-5280	19	TM221-SS1.	M26	FS252	A52	30-2015	1	TCD71		38-5036	507P	C3	6	‡44, 6A7, 75, 41, 84	260	6-79,80
								30-4065	15	TC26								
								.006		Buffer	B14							
CT2 (Chrysler DeLuxe)	Vol.	33-5088	17	TM225-SS5.	M26			30-2107	1	2N518		38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-67,68
								30-2076	15	TN111								
								.01		Buffer	B14							
CT5 (Chrysler Airflow DeLuxe)	Vol.	33-5088	17	TM225-SS5.	M26			30-2107	1	2N518		38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-95
								30-2076	15	TN111								
								.01		Buffer	B14							
CT11 (Chrysler)	Vol.	33-5121	17	SRP282				30-2134	4	TCS71		38-5036	507P	C3	6	‡78, 6A7, 75, 41, 84	260	7-3,4
	Sen.	33-5129	22	C1MP			A68	.01		Buffer	B14							
CU & CV (Chrysler) (Code 122)	Vol.	33-5067	17	TM225-SS5.	M26			30-2030	1	SR638		38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	6-62,64
								30-2076	15	TN111								
								.01		Buffer	B14							
CZ (Chrysler) (CT2, CT5)	Vol.	33-5088	17	TM225-SS5.	M26			30-2107	1	2N518		38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-67,68
								30-2076	15	TN111								
								.01		Buffer	B14							
D (Nash) (AC989)	Vol.	38-5280	19	TM221-SS1.	M26	FS252	A52	30-2015	1	TCD71		38-5036	507P	C3	6	‡44, 6A7, 75, 41, 84	260	6-79,80
								30-4065	15	TC26								
								.006		Buffer	B14							
D (Code 122) (AC989 Code 122)	Vol.	38-5935	18	MRT425	M26	FS252	A52	30-2015	1	TCD71		38-5036	507P	C3	6	‡44, 6A7, 75, 41, 84	260	6-78,80
								30-4065	15	TC26								
								.006		Buffer	B14							
DP (Code DP121, DP122) Police	Vol.	38-5606	18	MR48	M26			30-2072	1/15	TCD71/TC22		38-5036	507P	C3	6	‡44, 77, 75, 41, 84	260	8-136
								.006		Buffer	B14							
DPV	Vol.	38-5534	17	MR48	M26	FS251	A51	30-2072	1/15	TCD71/TC22		38-5036	507P	C3	6	‡44, 6A7, 75, 42, 84	260	8-136
								.01		Buffer	B14							
DU (Dodge) (CT2, CT5)	Vol.	33-5088	17	TM225-SS5.	M26			30-2107	1	2N518		38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-67,68
								30-2076	15	TN111								
								.01		Buffer	B14							
E	Vol.	38-5280	18	TM221-SS1.	M26	FS252	A52	30-2015	1	TCD71		38-5036	507P	C3	6	‡39, 6A7, 75, 42, 84	260	4-56,57
								30-2027	15	TC26								
								.01		Buffer	B14							
E-(10) (Pierce-Arrow)	Vol.	38-5511	19	TM221-SS1.	M26	FS251	A51	30-2015	1	TCD71		38-5036	507P	C3	6	‡44, 6A7, 75, 42, 84	260	6-79
								30-4065	15	TC26								
								.01		Buffer	B14							
E (122)	Vol.	38-5851	18	MRT425	M26	FS251	A51	30-2015	1	TCD71		38-5036	507P	C3	6	‡39, 6A7, 75, 42, 84	260	5-5,6
								30-4065	15	TC26								
								.01		Buffer	B14							
EA Dynamotor								8	12	TC71								3-5,7
EF Eliminator								30-2008	1	TCD71		38-5036	507P	C3		84		3-9
								.006		Buffer	B14							
F1440	Vol.	33-5139	18	SRP282			A67	30-2168	4	SR645		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-144
								.008		Buffer	B14							
F1442	Vol.	33-5139	18	SRP282			A67	30-2168	4	SR645		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-145
								.0075		Buffer	B14							
F1540 (Ford)	Vol.	33-5260	18	SM300				30-2295	4	SR645		41-3170	505P	C3	6	‡78, 6A7, 75, 42, 84	260	9-49
	Sen.	33-5239	7	C1MP		EX450	A68	.0075		Buffer	B14							
F1640	Vol.	67-0008	17	SM305				61-0028	1/15	FP328		41-3398	859	C3	6	‡78, 6A7, 75, 42, 84	470	10-59
								.0075		Buffer	B14							
F1641	Vol.	67-0018	18	Order from	Mfr.			61-0028	24/15	FP328		41-3398	859	C3	6	‡7A7, 7B8, 7B6, 41, 84	470	12-111, 108
								.0075		Buffer	B14							
F1740	Vol.	67-0026	18	TM225	M26		A96	61-0089	24/15	FP328		83-0017	859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	455	11-88, 89,84
								.003		Buffer	B14							
F1840	Vol.	67-0042	18	Order from	Mfr.			61-0089	24/15	FP328		83-0027	859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	455	14-125-127
	Tone	85-0128	22	Order from	Mfr.			.005		Buffer	B14							
F1841	Vol.	67-0042	18	Order from	Mfr.			61-0089	24/15	FP328		83-0026	859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	455	13-40-42
	Tone	85-0128	22	Order from	Mfr.			.005		Buffer	B14							
	Sen.	67-0025	7	Order from	Mfr.													
F1942	Vol. & Tone	67-0060	18/22	Order from	Mfr.			61-0089	24/15	FP328		83-0026	859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	265	14-139, 140
								.005		Buffer	B14							
	Sen.	67-0025	7	Order from	Mfr.													
FT6	Vol.	33-5067	17	TM225-SS5.	M26			30-2030	1	SR638		38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	6-59,60
								30-2076	15	TN111								
								.01		Buffer	B14							
FT9 (Ford)	Vol.	33-5139	18	SRP282		See Note	A67	30-2134	4	TCS71		38-5036	507P	C3	6	‡78, 6A7, 75, 41, 84	260	6-61
								.01		Buffer	B14							

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
FT9X	Vol.	33-5139	18	SRP282			A67	30-2134	4	TCS71		38-5036	507P	C3	6	‡78, 6A7, 75, 41, 84	260	6-61
								.01		Buffer	B14							
G (121)	Vol.	33-5056	18	UM154-SS3	M26			30-2030	1	SR638		38-5036	507P	C3	6	‡44, 6A7, 75, 41, 84	260	5-1,4
								30-2063	15	TC26								
								.006		Buffer	B14							
G (Code 122)	Vol.	33-5067	17	TM225-SS5	M26			30-2030	1	SR638		38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	6-62
								30-2076	15	TN111								
								.01		Buffer	B14							
G1418	Vol.	33-5139	18	SRP282		See Note	A67	30-2150	4	2S567		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-131
								.0075		Buffer	B14							
G1436	Vol.	33-5139	18	SRP282		See Note	A67	30-2168	4	SR645		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-142
	Tone	33-5192	22	MR39				.008		Buffer	B14							
G1528 (Graham)	Vol.	33-5245	17	SRP290			A67	30-2258	4	SR645		41-3170	505P	C3	7	‡78, 6A7, 75, ‡41, 84	260	9-43,44
								.0075		Buffer	B14							
H	Vol.	38-5534	18	MR48	M26	FS251	A51	30-2015	1	TCD71		38-5036	507P	C3	7	‡44, 6A7, 75, 37, 79, 84	260	6-75
								30-4135	14/15	TCS71/TP420	B135							
								.01		Buffer	B14							
H (Code 122)	Vol.	38-5851	18	MRT425	M26	FS251	A51	30-2015	1	TCD71		38-5036	507P	C3	7	‡44, 6A7, 75, 37, 79, 84	260	6-74
								30-4135	14/15	TCS71/TP420	B135							
								.01		Buffer	B14							
HT11X	Vol.	33-5121	18	SRP282				30-2134	4	TCS71		41-3186	507P	C3	6	‡78, 6A7, 75, 41, 84	260	7-8,9
								.01		Buffer	B14							
J (Nash)	Vol.	33-5058	18	MR53	M26	FS252	A52	30-2015	1	TCD71		38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	6-83,84
								7440	15	TC22								
								.01		Buffer	B14							
J (Code 122)	Vol.	38-5534	18	MR48	M26	FS251	A51	30-2072	1/15	TCD71/TC22		38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	6-43,44
								.01		Buffer	B14							
L1420, L1424, L1425	Vol.	33-5202	18	SRP282			A67	30-2167	1	SR638	B175	41-3170	505P	C3	6	‡78, 6A7, 75, 79, 84	260	8-132, 133
								.008		Buffer	B14							
L1427, L1429, L1460	Vol.	33-5202	18	SRP282			A67	30-2167	1	SR638	B175	41-3170	505P	C3	7	‡78, 6A7, 75, 37, 79, 84	260	8-135
	Tone	33-5141	44	Order from	Mfr.			30-4393	15	TC32								
								.008		Buffer	B14							
L1560 (Lincoln Zephyr)	Vol.	33-5246	18	SRP282			A67	30-2167	1	SR638	B175	41-3170	505P	C3	6	‡78, 6A7, 75, 6Y7G, 84	260	9-51
								.0075		Buffer	B14							
L1660 (Lincoln Zephyr)	Vol.	67-0009	17	UM161	M26		A96	30-2295	4	SR645		41-3170	505P	C3	6	‡78, 6A7, 75, 42, 84	470	10-61
	Sen.	33-5264-4	8	C1MP		EX450	A68	.0075		Buffer	B14							
L1760, L1761	Vol.	67-0026	18	Order from	Mfr.			61-0086	24/15	FP371	B3	83-0017	859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	455	13-29,30
	Sen.	67-0029	7	Order from	Mfr.			.003		Buffer	B14							
LT14X3, LT14X4	Vol.	33-5139	18	SRP282				38-7693	4	TCS71		38-5036	507P	C3	6	‡78, 6A7, 75, 41, 84	260	7-9,10
								.01		Buffer	B14							
ME (Pierce-Arrow)	Vol.	38-5280	19	TM221-SS1	M26	FS252	A52	30-2015	1	TCD71		38-5036	507P	C3	6	‡44, 6A7, 75, 42, 84	260	
								30-2027	15	TC26								
								.01		Buffer	B14							
MED	Vol.	38-5511	19	TM221-SS1	M26	FS251	A51	30-2015	1	TCD71		38-5036	507P	C3	6	‡44, 6A7, 75, 42, 84	260	6-79
								30-4065	15	TC26								
								.01		Buffer	B14							
MED (122)	Vol.	38-5851	18	MRT425	M26	FS251	A51	30-2015	1	TCD71		38-5036	507P	C3	6	‡39, 6A7, 75, 42, 84	260	5-5,6
								30-4065	15	TC26								
								.01		Buffer	B14							
MT3 (Pierce-Arrow DeLuxe)	Vol.	38-6297	17	MRT425	6	FS251	A51	30-2105	1	TCD71		38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-99
								30-2106	15	TN111								
								.01		Buffer	B14							
MT14X4 (Pierce-Arrow)	Vol.	33-5121	18	SRP282				30-2134	4	TCS71		38-5036	507P	C3	6	‡78, 6A7, 75, 41, 84	260	6-97,98
								.01		Buffer	B14							
N (Ford Center-Control)	Vol.	33-5067	17	TM225-SS5	M26			30-2030	1	SR638		38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	8-4,5
								30-2076	15	TN111								
								.01		Buffer	B14							
N1418	Vol.	33-5139	18	SRP282			A67	30-2150	4	2S567		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-131
								.0075		Buffer	B14							
N1433H	Vol.	33-5139	18	SRP282			A67	30-2168	4	SR645		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-140
								.008		Buffer	B14							
N1434H	Vol.	33-5139	18	SRP282			A67	30-2179	4	SR645		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-141
								.008		Buffer	B14							
N1514	Vol.	33-5139	18	SRP282			A67	30-2150	4	2S567		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	9-34
								.0075		Buffer	B14							
N1524 (Nash)	Vol.	33-5245	17	SRP290				30-2258	4	SR645		41-3170	505P	C3	7	‡78, 6A7, 75, ‡41, 84	260	9-39,40
								.0075		Buffer	B14							
N-FND	Vol.	33-5067	17	TM225-SS5	M26			30-2030	1	SR638		41-3186	507P	C3	6	‡44, 77, 75, 42, 84	260	8-4,5
								30-2076	15	TN111								
								.01		Buffer	B14							
NQD (Nash)	Vol.	38-5606	18	MR48	M26			30-2072	1/15	TCD71/TC22		38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	6-85,86
								.01		Buffer	B14							
NT7, NT8	Vol.	38-6605	18	MRT425		FS251	A58/	30-2109	4	TCS71		38-5036	507P	C3	6	‡78, 6A7, 75, 41, 84	260	6-48,49
	Tone	33-5101	22	MR39			A51	.01		Buffer	B14							
NT12X, NT12X2	Vol.	33-5139	18	SRP282			A67	30-2134	4	TCS71		38-5036	507P	C3	6	‡78, 6A7, 75, 41, 84	260	7-5,6
	Sen.	33-5129	7	C1MP			A68	.01		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
NT15 (Nash)	Vol.	33-5139	18	SRP282		See Note	A67	30-2145	4	TCS71		38-5036	507P	C3	6	§78, 6A7, 75, 41, 84	260	7-11,12
								.01		Buffer	B14							
P1417	Vol.	33-5139	18	SRP282		See Note	A67	30-2150	4	2S567		41-3170	505P	C3	6	§78, 6A7, 75, 41, 84	260	8-127
								.0075		Buffer	B14							
P1421	Vol.	38-7968	18	MRT425		FS251	A51	4-8	1	SR638	B175	41-3170	505P	C3	7	§78, 6A7, 75, 37, 79, 84	260	7-143,
								30-4473	13/15	TC26/TN111	B195							144
								.008		Buffer	B14							
P1426 (Packard)	Vol.	38-8596	18	Order from	Mfr.			30-2167	1	SR638	B175	41-3170	505P	C3	7	§78, 6A7, 75, 37, 79, 84	260	8-134
								.008		Buffer	B14							
P1430, P1432H	Vol.	33-5121	18	SRP282				30-2168	4	SR645		41-3170	505P	C3	6	§78, 6A7, 75, 41, 84	260	8-138
								.008		Buffer	B14							8-139
P1517 (Packard)	Vol.	33-5139	18	SRP282			A67	30-2150	4	2S567		41-3170	505P	C3	6	§78, 6A7, 75, 41, 84	260	9-37
								.0075		Buffer	B14							
P1530 (Packard)	Vol.	33-5245	17	SRP290			A67	30-2257	4	SR645		41-3170	505P	C3	7	§78, 6A7, 75, §41, 84	260	9-46
								.0075		Buffer	B14							
P1535 (Packard)	Vol.	33-5246	17	SRP282			A67	30-2167	1	SR638	B175	41-3170	505P	C3	7	§78, 6A7, 75, 6C6,		
								.0075		Buffer	B14					6Y7G, 84	260	9-47
P1617 (Packard)	Vol.	67-0004-1	17	SM304				61-0018	4	2S567		41-3170	505P	C3	6	§7A7, 6A7, 75, 41, 7Y4	470	10-53,54
	Sen.	33-5264	8	C1MP		EX450	A68	.0075		Buffer	B14							
P1630 (Packard)	Vol.	67-0002	17	Order from	Mfr.			61-0012	1/15	3S579		41-3170	505P	C3	6	§78, 6A7, 75, 42, 84	470	10-56
	Sen.	33-5264	8	C1MP		EX450	A68	.0075		Buffer	B14							
P1635	Vol.	67-0005	17	UM161		See Note	A96	61-0012	1/15	3S579		41-3170	505P	C3	7	§78, 6A7, 75, 6C6,		
	Sen.	33-5278-4	8	C				.0075		Buffer	B14					6Y7G, 84	470	10-57
P1830	Vol.	67-0047	18	Order from	Mfr.			61-0072	24/15	FP371	B3	83-0026	859	C3	6	§7A7, 7B8, 7B6, 7C5,		14-123,
	Tone	67-0048	22	Order from	Mfr.			.005		Buffer	B14					7Y4	270	124
P1835	Vol. & Tone	67-0035	18/22	Order from	Mfr.			61-0150	24/13/15	FP444		83-0027	859	C3	8	§7A7, 7B8, 7B6, 7A4, §7C5, 7Y4	270	13-38,39
								.005		Buffer	B14							
P1935	Vol.	67-0052	18	Order from	Mfr.			61-0150	46/15	FP424		83-0026	859	C3	8	§7A7, 7B8, 7B6, 7A4,		
	Tone	67-0051	‡	Order from	Mfr.			.005		Buffer	B14					§7C5, 7Y4	270	14-136-
	Sen.	67-0036	7	Order from	Mfr.													138
PA (Packard DeLuxe)	Vol.	7525	16	MR53	M27	EB247									7	§36, 85, 37, 79, 84	260	
PAD, PAL	Vol.	7525	16	MR53	M27	EB247									6	§36, 37, 85, 79	260	6-87,88
PB (Packard)	Vol.	7525	16	MR53	M27	EB247		30-2030	1	SR638		38-5036	507P	C3	6	§36, 85, 41, 84	260	
								04354	14/15	See Note	B133							
								.006		Buffer	B14							
PBD	Vol.	7525	16	MR53	M27	EB247		30-2030	1	SR638		38-5036	507P	C3	6	§36, 85, 41, 84	260	6-89,90
								.25-.5-8	14/15	See Note	B133							
								.006		Buffer	B14							
PHD, PHXD (Packard)	Vol.	38-6022	18	MRT425	M26	FS251	A51	30-2015	1	TCD71		38-5036	507P	C3	7	§44, 6A7, 75, 37, 79, 84	260	6-91,93
								30-4135	14/15	TCS71/TP420	B135							
								.01		Buffer	B14							
PJ (Plymouth) (CT2, CT5)	Vol.	33-5088	17	TM225-SS5	M26			30-2107	1	2N518		38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-67,68
								30-2076	15	TN111								6-95
								.01		Buffer	B14							
PT2	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	12-43
PT5 (120) Packard DeLuxe	Vol.	33-5088	17	TM225-SS5	M26			30-2107	1	2N518		38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-95
								30-2076	15	TN111								
								.01		Buffer	B14							
PT6	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	12-43
PT12	Vol.	33-5434	18	MR48	M26			30-2382	1	2N509					6	7C7, 7A8, 7B7, 7C6, 50L6GT, 35Z3	455	12-44
PT14 (Packard)	Vol.	33-5121	18	SRP282				30-2134	4	TCS71		38-5036	507P	C3	6	§78, 6A7, 75, 41, 84	260	6-97,98
								.01		Buffer	B14							
PT25	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-4
PT26	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-4
PT27 (121, 122)	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-4
PT28	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-4
PT29	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-5
PT30	Vol.	35-5306	18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	12-45,46
PT31	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-5
PT33	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-5
PT35	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-6
PT36	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-4
PT37	Vol.	33-5306	18	MR48	M26			30-2402	1/15	3N533					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-6,100

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
PT38	Vol.	33-5306	18	MR48	M26			30-2402	1/15	3N533					5	7A8, 7B8, 7C6, 35A5, 35Z3	470	12-6,100
PT39	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-4
PT41	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-5
PT42	Vol.	33-5306	18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	12-45,46
PT43	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-7
PT44	Vol.	33-5306	18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	12-45,46
PT45	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-7
PT46	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-8
PT47	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35Z3, 35A5	470	12-7
PT48	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-8
PT49	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-45,46
PT50	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-6
PT51	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-8
PT53	Vol.	33-5306	18	MR48	M26			30-2402	1/15	3N533					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-6,100
PT55	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-7
PT57	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-9
PT59	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-9
PT61	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-5
PT63	Vol.	33-5331	18	MR53	M27			30-2396	12	TC44					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-10,18
PT65	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-9
PT66	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-10
PT67	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35Z3, 35A5	455	12-11
PT69	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-11
PT87	Vol.		18	MR48	M27			20-10-20-20	76/78	‡2N509					5	1A7G, 1N5G, 1H5G, 3Q5G, 117Z6G	455	12-46
PT89	Vol.	33-5410	18	MR53	M27			30-2396	12	TC44					4	1LC6, 1LN5, 1LD5, 1LB4	455	14-113
PT91, PT92, PT93, PT94, PT95, PT96	Vol.	33-5429	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	14-114
Q	Vol.	38-5534	18	MR48	M26	FS251	A51	30-2072	1/15	TCD71/TC22		38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	5-47,48
								.01		Buffer	B14							
Q (Nash)	Vol.	38-5606	18	MR48	M26			30-2072	1/15	TCD71/TC22		38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	6-85
								.01		Buffer	B14							
R	Vol.	33-5058	18	MR53	M26	FS252	A52	30-2015	1	TCD71		38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	6-103
								7440	15	TC22								
								.01		Buffer	B14							
R (Code 122)	Vol.	38-5534	18	MR48	M26	FS251	A51	30-2072	1/15	TCD71/TC22		38-5036	507P	C3	6	‡44, 77, 75, 42, 84	260	6-43,44
								.01		Buffer	B14							
R1415, W1419	Vol.	33-5139	18	SRP282			A67	30-2150	4	2S567		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-125, 8-126
								.0075		Buffer	B14							
RP1 (123, 122) Record Player								30-2388	24	2N516					2	6A7, 84		12-40 & 10-12
								35-2394	24	2N516	B12							
RP3 Wireless Record Player	Vol.	33-5322	50	UM161-SS3				30-2388	24	2N516					2	6A7, 84		11-5
RT3 (Reo DeLuxe)	Vol.	38-6297	17	MRT425	M26	FS251	A51	30-2105	1	TCD71		38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-99
								30-2106	15	TN111								
								.01		Buffer	B14							
RT14X (Reo DeLuxe)	Vol.	33-5139	18	SRP282		See Note	A67	30-2134	4	TC871		38-5036	507P	C3	6	‡78, 6A7, 75, 41, 84	260	6-97,98
								.01		Buffer	B14							
S1416	Vol.	33-5148	18	SRP282			A67	30-2150	4	2S567		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-115
								.0075		Buffer	B14							
S1431	Vol.	33-5139	18	SRP282		See Note	A67	30-2168	4	SR645		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	7-145, 7-146
								.008		Buffer	B14							
S1437	Vol.	33-5139	18	SRP282			A67	30-2179	4	SR645		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-143
								.008		Buffer	B14							

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
S1516 (Studebaker)	Vol.	33-5139	18	SRP282			A67	30-2150	4	2S567		41-3170	505P	C3	6	§78, 6A7, 75, 41, 84	260	9-35
								.0075		Buffer	B14							
S1526 (Studebaker)	Vol.		17	Order from	Mfr.			30-2258	4	SR645			505P	C3	7	§78, 6A7, 75, §41, 84	260	9-41
								.0075		Buffer	B14							
S1616	Vol.	67-0014	17	‡			A19	61-0018	4	2S567		41-3398	505P	C3	6	§7A7, 6A7, 75, 41, 7Y4	470	10-48
								.0075		Buffer	B14							
S1622 (Studebaker)	Vol.	67-0015	18	UM161-SS31	M26			61-0050	1/15	FP328		41-3398	859	C3	6	7A7, 7B8, 78, 7B6, 41, 84	470	10-55
								.006		Buffer	B14							
S1626	Vol.	67-0012	18	Order from	Mfr.			30-2295	4	2S567		41-3170	505P	C3	6	§78, 6A7, 75, 42, 84	470	13-25,26
	Sen.	33-5264	7	Order from	Mfr.			.0075		Buffer	B14							
S1722	Vol.	67-0027	18	UM151-SS31	M26			61-0076	24/15	FP313		83-0017	859	C3	6	7A7, 7B8, 78, 7B6, 7A5, 84	470	11-87
								.006		Buffer	B14							
S1726	Vol.	67-0028	18	Order from	Mfr.			61-0089	24/15	FP328		83-0017	859	C3	6	§7A7, 7B8, 7B6, 7C5, 7Y4	455	13-27,28
	Sen.	67-0025	7	Order from	Mfr.			.002		Buffer	B14							
S1824	Vol.	67-0037	18	Order from	Mfr.			61-0072	24/15	FP371	B3	83-0027	859	C3	6	§7A7, 7B8, 7B6, 7A5, 7Y4	455	13-33,34
								.0075		Buffer	B14							
S1825	Vol.	67-0039	18	Order from	Mfr.			61-0072	24/15	FP444	B69	83-0027	859	C3	6	§7A7, 7B8, 7B6, 7B5, 7Y4	455	13-36,38
								.005		Buffer	B14							
S1826	Vol.	67-0037	18	Order from	Mfr.			61-0150	24/13/15	FP444		83-0027	859	C3	8	§7A7, 7B8, 7B6, 7A4, §7C5, 7Y4	270	13-37,38
	Tone	67-0038	22	Order from	Mfr.			.005		Buffer	B14							
S1924	Vol.	67-0037	18	Order from	Mfr.			61-0150	46/15	FP424		83-0026	859	C3	6	§7A7, 7B8, 7B6, 7A5, 7Y4	455	14-131-133
								.007		Buffer	B14							
S1926	Vol.	67-0056	18	Order from	Mfr.			61-0150	46/15	FP424		83-0026	859	C3	7	§7A7, 7B8, 7A6, 7B5, 7Y4	455	14-134, 135
	Tone	67-0056	22	Order from	Mfr.			.005		Buffer	B14						265	
SCD	Vol.	38-5280	19	TM221-SS1	M26	FS252	A52	30-2015	1	TCD71		38-5036	507P	C3	6	§44, 6A7, 75, 42, 84	260	6-78,79
								30-4065	15	TC26								
								.006		Buffer	B14							
SCD (122)	Vol.	38-5851	18	MRT425	M26	FS251	A51	30-2015	1	TCD71		38-5036	507P	C3	6	§39, 6A7, 75, 42, 84	260	5-5,6
								30-4065	15	TC26								
								.01		Buffer	B14							
SDD	Vol.	38-5280	19	TM221-SS1	M26	FS252	A52	30-2015	1	TCD71		38-5036	507P	C3	6	§44, 6A7, 75, 41, 84	260	6-79,80
								30-4065	15	TC26								
								.006		Buffer	B14							
SE (DeSoto)	Vol.	33-5067	17	TM225-SS5	M26			30-2030	1	SR638		38-5036	507P	C3	6	§44, 77, 75, 42, 84	260	6-62,65
								30-2076	15	TN111								
								.01		Buffer	B14							
SF, SG (DeSoto) (CT2, CT5)	Vol.	33-5088	17	TM225-SS5	M26			30-2107	1	2N518		38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-67,68
								30-2076	15	TN111								
								.01		Buffer	B14							
SJD (122)	Vol.	38-5534	18	MR48	M26	FS251	A51	30-2072	1/15	TCD71/TC22		38-5036	507P	C3	6	§44, 77, 75, 42, 84	260	6-43,44
								.01		Buffer	B14							
SQD (Nash)	Vol.	38-5606	18	MR48	M26			30-2072	1/15	TCD71/TC22		38-5036	507P	C3	6	§44, 77, 75, 42, 84	260	6-85,86
								.01		Buffer	B14							
ST7	Vol.	38-6605	18	MRT425		FS251	A58/	30-2109	4	TCS71		38-5036	507P	C3	6	§78, 6A7, 75, 41, 84	260	6-48,52
	Tone	33-5101	22	MR39			A51			Buffer	B14							
ST12 (Studebaker)	Vol.	33-5139	18	SRP282		See Note	A67	30-2134	4	TCS71		38-5036	507P	C3	6	§78, 6A7, 75, 41, 84	260	7-7,8
								.01		Buffer	B14							
ST15 (Studebaker)	Vol.	33-5139	18	SRP282		See Note	A67	38-7684	4	2S567		38-5036	507P	C3	6	§78, 6A7, 75, 41, 84	260	7-13,14
								.01		Buffer	B14							
T2	Vol.	33-5088	17	TM225-SS5				30-2107	1	2N518		38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-67,68
								30-2076	15	TN111								
								.01		Buffer	B14							
T3	Vol.	38-6297	17	MRT425	M26	FS251	A51	30-2105	1	TCD71		38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-99, 102
								30-2106	15	TN111								
								.01		Buffer	B14							
T5	Vol.	33-5088	17	TM225-SS5	M26			30-2107	1	2N518		38-5036	507P	C3	6	36, 77, 44, 75, 42, 84	260	6-68
								30-2076	15	TN111								
								.01		Buffer	B14							
T6	Vol.	33-5067	17	TM225-SS5	M26			30-2030	1	SR638		38-5036	507P	C3	6	§44, 77, 75, 42, 84	260	6-59
								30-2076	15	TN111								
								.01		Buffer	B14							
T7	Vol.	38-6786	18	MRT425		FS251	A51	30-2109	4	TCS71	B3	38-5036	507P	C3	6	§78, 6A7, 75, 41, 84	260	6-49
	Tone		22	MR39				.01		Buffer	B14							
T8 (Nash)	Vol.	38-6605	18	MRT425		FS251	A51	30-2109	4	TCS71	B3	38-5036	507P	C3	6	§78, 6A7, 75, 41, 84	260	6-48,49
	Tone	33-5101	22	MR39			A58	.01		Buffer	B14							
T9	Vol.	33-5139	18	SRP282			A67	30-2134	4	TCS71		38-5036	507P	C3	6	§78, 6A7, 75, 41, 84	260	6-61
								.01		Buffer	B14							
T10, CT10	Vol.	33-5121	18	SRP282				38-7693	4	TCS71		41-3186	507P	C3	6	§78, 6A7, 75, 41, 84	260	8-7,8
								.01		Buffer	B14							
T11	Vol.	33-5121	17	SRP282				30-2134	4	TCS71		38-5036	507P	C3	6	§78, 6A7, 75, 41, 84	260	7-3
	Tone	33-5141	34	Order from	Mfr.			.01		Buffer	B14							
T12	Vol.	33-5139	18	SRP282			A67	30-2134	4	TCS71		38-5036	507P	C3	6	§78, 6A7, 75, 41, 84	260	7-5
								.01		Buffer	B14							
T14	Vol.	33-5139	18	SRP282			A67	30-2134	4	TCS71		38-5036	507P	C3	6	§78, 6A7, 75, 41, 84	260	6-97,98
								.01		Buffer	B14							
T15	Vol.	33-5139	18	SRP282			A67	38-7684	4	2S567		38-5036	507P	C3	6	§78, 6A7, 75, 41, 84	260	7-13
								.01		Buffer	B14							
TH1	Vol.	49115	8	MR37	M26		A14	31116	8	TN125/TC22					4	6D6, 6C6, 43, 25Z5		
TH3	Vol.	33-5254	18	MR48	M26			30-2327	25	RS215					5	6A7, 78, 75, 41, 84	470	11-3,4
								30-2328	25	RS213								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
TH4, TH4T	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-6
TH5, TH5T	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-8
TH9	Vol.	33-5306	18	MR48	M26			30-2402	1/15	3N533					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-2,100
TH14	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-2,1
TH15	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-1,3
TH16	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-1,2
TH17	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-1,3
TH18	Vol.	33-5306	18	MR48	M26			30-2402	1/15	3N533					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-2,100
TH22	Vol.	33-5306	18	MR48	M26			30-2402	1/15	3N533					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-2,100
TP4, TP4I	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-7
TP5, TP5I, TP5T	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-9,10
TP10	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-11
TP11	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-12
TP12	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-13
TP20	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-1,2
TP21	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-1,3, 100
3 Transitone	Vol.	4463	15	MR53											7	[3]24A, [3]71A, [3]01A		3-1,2
4 Converter								4916	1	HD684					3	27, 24A, 80	1000	2-1,2
5 Transitone	Vol.	33-5009	17	MR48	M26	EC240	A72	30-2008	1	TCD71		38-5036	507P	C3	5	6A7, 78, 75, 41, 84	460	3-8,9
								30-4017	‡	See Note	B136							
								.006		Buffer	B14							
5 (AC Home Receiver)	Vol.		2	‡		See Note	A5	‡	34	See Note	B3				7	[4]26, 27, 71A, 80		4-53,55
6, 6F	Vol.	7525	16	MR53	M27	EB247		04354	14/15	See Note	B133				5	[3]36, 85, 41	260	3-55
7 Transitone	Vol.	6109	15	MR39	M27	EB247		04354	14/15	See Note	B133				5	[3]36, [3]38	175	3-3,4
8	Vol.	7322	16	MR48	M27	EB247									6	[3]36, 38, [3]41	175	3-5,7
9 Transitone	Vol.	7525	16	MR53	M27	EB247									6	[3]36, 85, 37, 79	260	3-56, 4-52
10 Transitone	Vol.	38-5280	18	TM221-SS1	M26	FS252	A52	30-2015	1	TCD71		38-5036	507P	C3	6	[3]39, 6A7, 75, 42, 84	260	4-56,57
								30-2027	15	TC26								
								.01		Buffer	B14							
10 (Code 122) C-(Studebaker) E-(Pierce-Arrow)	Vol.	38-5851	18	MRT425	M26	FS251	A51	30-2015	1	TCD71		38-5036	507P	C3	6	[3]39, 6A7, 75, 42, 84	260	5-5,6
								30-4065	15	TC26								
								.01		Buffer	B14							
11 Transitone	Vol.	33-5058	18	MR53	M26	FS252	A52	30-2015	1	TCD71		38-5036	507P	C3	6	[3]44, 77, 75, 42, 84	260	5-7,8
								7440	15	TC22								
								.01		Buffer	B14							
11 (Code 122)	Vol.	38-5534	18	MR48	M26	FS251	A51	30-2072	1/15	TCD71/TC22		38-5036	507P	C3	6	[3]44, 77, 75, 42, 84	260	6-43,44
								.01		Buffer	B14							
12	Vol.	7322	15	MR48	M27	EB247									6	[3]36, 38, [3]41	175	3-5,7
12 (122)	Vol.	7525	15	MR53	M27	EB247									6	[3]36, 85, 37, 79	260	3-56, 4-52
12TP	Vol.	33-5230	18	MR48	M26			30-2235	23	HD684					5	6A7, 78, 75, 41, 84	470	11-14,15
	Tone	33-5330	22	MR33				30-2236	23	RS213								
14 (Code 121 & 122) (Runs 1-4)	Vol.	33-5024	64	MRT425	M26		A58	30-2022	1	TC82					9	[3]78, 6A7, 37, 77, [3]42, 80	175	4-1,2
								30-2003	19	TC32								
								30-2029	13/14	Order from	Mfr.							
14 (Codes 121, 122) (Runs 5 & after)	Vol.	33-5024	64	MRT425	M26		A58	30-2025	1	HD684					9	[3]78, 6A7, 37, 77, [3]42, 80	175	4-1,2
								30-2045	1/19	2N518								
								30-2029	13/14	Order from	Mfr.							
14 (123)	Vol.	33-5024	64	MRT425	M26		A58	7464	1	HD684					9	[3]78, 6A7, 37, 77, [3]42, 80	175	4-1,2
								30-2003	19	TC32								
								30-2029	13/14	Order from	Mfr.							
14 (126-226)	Vol.	8054	64	MRT425	M26			4916	1	HD684					9	[3]44, 36, [3]37, [3]42, 80	260	2-21,22
								7464	1	HD684								3-29,30
15 (Early 221)	Vol.	7050	64	MR48				6706	1	HD684					11	[4]37, [3]44, [3]42, 80	175	3-10,12
								30-2025	1	HD684								
15 (Early 223) 15 Late	Vol.	8054	64	MRT425			A53	4916	1	HD684					11	[4]37, [3]44, [3]42, 80	175	3-10,12
16	Vol.	33-5022	64	MRT448	M26		A58	30-2069	1	TC82					11	37, [3]77, [3]78, [3]42, 80, 76	460	4-3,11
	Supp.	33-5015	12	MR18				30-2003	19	TC32								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
16 (Codes 121, 122, 123)	Vol.	33-5022	64	MRT448	M26		A58	30-2069	1	TC82					11	37,[3]77,[3]78,[3]42, 80, 76.	460	4-3,10
	Supp.	33-5015	12	MR18				30-2045	1/19	2N518								
16 (Codes 125, 126, 127)	Vol.	33-5022	64	MRT448	M26		A58	30-2069	1	TC82					11	[3]78,[3]77, 37, 76,[3]42, 80		
								30-2045	1/19	2N518						or 5Z3	460	6-1,3
								30-2078	13/14	Order from	Mfr.							
17	Vol.	33-5013	64	TM233-SS1	M26	...A27	/A58	30-2022	1	TC82					11	6A7, [3]37, 77, [3]78, [3]42,		
	Vol.	33-5023	64	MRT448		See No	te A4	30-2003	19	TC32						5Z3	175	4-9,14
	Supp.	33-5015	‡	Order from	Mfr.													
17 (Code 121)	Vol.	33-5013	64	TM233-SS1	M26	See No	te A58	30-2011	1	TC82					11	[3]78, 6A7, [3]37, [3]42, 5Z3,		
	Vol.	33-5023	64	MRT448	M26	See No	te A4	30-2045	1/19	2N518						77	175	4-9,14
	Supp.	33-5015	‡	Order from	Mfr.													
17, 17A (Codes 122 & 123)	Vol.	33-5013	64	TM233-SS1	M26	...A27	/A58	30-2011	1	TC82					11	[3]78, 6A7, [3]37, [3]42, 5Z3		
	Vol.	33-5023	64	MRT448	M26		A4	30-2046	1/19	2N518						or 80, 77	175	4-9,14
	Supp.	33-5015	‡	Order from	Mfr.													
18	Vol.	33-5024	18	MRT425	M26		A58	6706	1	HD684					8	6A7,[3]78, 75,[3]42, 80.	260	4-15,17
								30-2003	19	TC32								
								30-2029	13/14	Order from	Mfr.							
18 (Codes 121 & 122)	Vol.	33-5024	18	MRT425	M26		A58	6706	1	HD684					8	6A7,[3]78, 75,[3]42, 80.	260	4-15,17
								30-2045	1/19	2N518								
								30-2029	13/14	Order from	Mfr.							
18 (Code 124)	Vol.	33-5069	124	MRT425			A58	30-2025	1	HD684					8	6A7, 75,[3]78,[3]42, 80.	260	5-9,10
								30-2045	1/19	2N518								
								30-2029	13/14	Order from	Mfr.							
19	Vol.	33-5004	18	MR48	M26			8166	1	HD684					6	[3]44, 36, 75, 42, 80.	260	3-33,34
19 (Codes 122, 126, 126B)	Vol.	33-6007	18	MR48				30-2020	1	HD684					6	[3]44, 36, 75, 42, 80.	260	3-33,34
19 (Code 128)	Vol.	33-5000	18	MRT438				30-2026	1	HD684					6	36,[3]44, 75, 42, 80.	260	4-19,20
								30-2062	1/13/19	2S567/TC32								
20, 20A, 21	Vol.	4094	2/8	DRP114		See No	te A56	‡	1/19	See Note	B1				7	[3]24A, 27,[3]71A, 80.		1-6,2-3
22	Vol.	6499	45	MR53				6453	1	HD684					7	36, 37,[3]44, 42, 80.	260	3-23,24
								6706	1	HD684								
								6707	1	HD684								
22L	Vol.	6499	64	MR53				6707	1	HD684					7	[3]44, 36, 37, 42, 80.	260	3-43
23X	Vol.	6499	64	MR53				6707	1	HD684					9	36,[3]37,[3]42, 80,[3]44.	260	3-45
24	Vol.	5839	6	E7				4916	4	HD684					5	[3]24A, 35, 47, 80.	175	2-11,14
								5142	4	HD684								
25	Vol.	6892	45	MR53	M26		A58	4916	1	HD684					8	[4]44,[3]37, 42, 80.	450	3-13,14
								7556	13	HD684								
28	Vol.	33-5066	18	MRT425	M26	EB247	A58	30-2083	49	2N509					6	6A7,[3]39, 75, 43, 25Z5.	460	5-11,12
29, 29 (Code 123TX)	Vol.	33-5097	18	MRT425	M26	EB247	A58	30-2073	1/19	3S579					6	6A7,[3]44, 75, 42, 80.	460	5-11,15
								30-2026	13	HD684								
30	Vol.	4093	15	MR48											8	[3]32,[3]30,[3]31		1-7,2-5
32	Vol.		18	MR48		See No	te A27	30-2014	25	TC82			F502P		6	[3]39, 36, 75, 42, 84.	260	5-17,20
	Vol.		18	MR48	M26	See No	te A4											
34, 34A	Vol.	33-5064	45	MR44	M23										7	[3]30, 32,[3]34, 1C6, 19.	460	5-21,24
35, 35B, 36	Vol.	5317	43	CE		See No	te A54								7	[3]30,[3]32, 33	260	1-8,8-10
37	Vol.	7239	43	CE		See No	te A54								5	15, 30,[3]32, 19	175	3-19,20
37-9	Vol.	33-5158	17	TM251-SS5			A58	30-2183	1/19	TCS74/TC26					9	[2]6K7G, 6A8G, 6N7G,		
								30-2024	1	HD684						6H6G, 6Q7G,		
								30-2118	13	2N518	B8					[2]6F6G, 5Y4G	470	8-11,12
37-10, 37-11 (Codes 121-125)	Vol.	33-5158	124	TM251-SS5			A58	30-2183	1/19	TCS74/TC26					11	[3]6K7G, 6A8G, 6N7G,		
								30-2024	1	HD684						6H6G, 6J5G,		
								30-2118	14	2N518	B8					6K5G, 6Q7G,		
																[2]6F6G, 5Y4G	470	8-13,16
37-33	Vol.	33-5169	18	MR48	M24		A55	30-2158	13	TC70					5	1D7G, 1D5G, 1H4G,		
																1E7G, 1H6G	470	7-15,16
37-34	Vol.	33-5157	18	UM154-SS5			A58	30-2160	1	2N518		41-3222	246	C3	5	1D7G, 1D5G, 1H6G,		
								.01		Buffer	B14					1H4G, 1E7G	470	8-17,18
37-38	Vol.	33-5165	45	UM154-SS5				30-2162	13	Order from	Mfr.				6	1C7G, 1D5G,[3]1H4G,		
																1E5G, 1J6G	470	7-17,18
37-60	Vol.	33-5157	18	UM154-SS5				30-2117	25	HD684					5	6A8G, 6K7G, 6Q7G,		
								30-2024	25	HD684						6F6G, 5Y4G	470	7-19,22
								30-2118	14	2N518	B8							
37-61	Vol.	33-5157	18	UM154-SS5				30-2117	25	HD684					5	6A8G, 6K7G, 6Q7G,		
								30-2024	25	HD684						6F6G, 5Y4G	470	7-23,25
								30-2118	14	2N518	B8							
37-62	Vol.	33-5198	18	MR48	M26			30-2192	1/19	3S579					5	6A8G, 6K7G, 6Q7G,		
																6F6G, 5Y4G	470	8-19,20
37-84, Code 122	Vol.	33-5055	2	MR20	M26			30-2013	1	SR638					4	[2]6J7G, 6F6G, 5Y4G.	470	7-27,28
37-89	Vol.	33-5157	18	UM154-SS5			A58	30-2117	25	HD684					6	[2]6K7G, 6A8G, 6Q7G,		
								30-2024	25	HD684						6F6G, 5Y4G	470	7-29,30
37-93	Vol.	33-5193	56	MR48	M26			30-2073	1/19	3S579					5	6K7G, 6A8G, 6R7G,		
																6F6G, 5Y4G	470	8-21,22

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
37-116 (Codes 121, 122)	Vol.	33-5158	17	TM251-SS5				30-2026	1	HD684					15	6K7G, 6J5G, 6L7G, 6N7G, 6A8G, 6H6G, 6B4G, 6F6G, 5U4G	470	7-31,36
	Exp.	33-5172	15	UM154-SS5				30-2123	1/19	HD684								
								30-2169	13/14	3S584								
37-600	Vol.	33-5152	6	UM121-SS12	M26			30-2149	1	TCS71					4	6A8G, 6J7G, 6K6G, 5Y4G	470	7-37,38
37-602	Vol.	33-5145	18	UM154-SS12	M26			30-2148	1/15	3N527					5	6A8G, 6K7G, 6Q7G, 25A6G, 25Z6G	470	7-39,40
37-604	Vol	38-7630	18	Order from	Mfr.			30-2154	41/15	3N527/TC42					5	6A8G, 6K7G, 6Q7G, 25A6G, 25Z6G	470	7-41,43
37-610 (Codes 121, 122)	Vol.	33-5158	124	TM251-SS5		See Note	A58	30-2117	25	HD684					5	6A8G, 6K7G, 6Q7G,		
								30-2024	25	HD684						6F6G, 5Y4G	470	7-45,48
								30-2118	12	2N518	B8							
37-610 (Codes 125, 126)	Vol.	33-5158	124	TM251-SS5			A58	30-2117	25	HD684					5	6A8G, 6K7G, 6Q7G,		
								30-2024	25	HD684						6F6G, 5Y4G	470	7-45,48
								30-2118	12	2N518	B8							
37-611	Vol.	33-5166	124	TM251-SS5				30-2124	25	RS216					5	6A8G, 6K7G, 6Q7G,		
								30-2166	25/15	RS207/TC22						25A6G, 25Z6G	470	7-49,50
								30-2157	13/12	2N516								
37-620	Vol.	33-5158	18	TM251-SS5		See Note	A58	30-2117	25	HD684					6	6K7G, 6A8G, 6Q7G,		
								30-2024	25	HD684						6F6G, 5Y4G	470	7-51,54
								30-2119	14	RS216								
37-623	Vol.	33-5158	124	TM251-SS5		See Note	A58	30-2161	12/13	3S582					6	1D5G, 1C7G, 1F7G, 1H4G, 1J6G	470	7-55,56
37-624	Vol.	33-5166	124	TM251-SS5				30-2160	1	2N518		41-3222	246	C3	6	1D5G, 1C7G, 1F7G,		
								30-2171	13/12	2N516						1H4G, 1J6G	470	8-23,24
								.01		Buffer	B14							
37-630	Vol.	33-5158	124	TM251-SS5		See Note	A58	30-2117	25	HD684					6	6K7G, 6A8G, 6Q7G,		
								30-2024	25	HD684						6F6G, 5Y4G	470	7-57,60
								30-2118	14	2N518	B8							
37-640	Vol.	33-5158	124	TM251-SS5		See Note	A58	30-2117	1	HD684					7	6K7G, 6A8G, 6Q7G,		
								30-2045	1/19	2N518						6F6G, 5Y4G	470	7-61,64
37-641	Vol.	33-5166	18	TM251-SS5				30-2124	25	RS216					7	6K7G, 6A8G, 6Q7G,		
								30-2125	12/15	2N509						25A6G, 25Z6G	470	8-25,26
37-643	Vol.	33-5158	124	TM251-SS5			A58	30-2161	12	3S582					7	1D5G, 1C7G, 1H4G, 1E5G, 1J6G	470	8-27,29
37-650	Vol.	33-5158	124	TM251-SS5		See Note	A58	30-2163	1/19	TCS74/TC26					8	6K7G, 6A8G, 6J5G, 6K5G, 6F6G,		
								30-2024	1	HD684						5Y4G	470	7-65,68
								30-2118	14	2N518	B8							
37-660	Vol.	33-5158	124	TM251-SS5		See Note	A58	30-2026	1	HD684					9	6K7G, 6A8G, 6J5G, 6K5G, 6F6G,		
								30-2122	13/14	Order from	Mfr.					5Y4G	470	7-69,72
37-665	Vol.	33-5158	124	TM251-SS5			A58	30-2163	1/19	TCS74/TC26					9	6K7G, 6A8G, 6J5G, 6K5G, 6F6G,		
								30-2024	1	HD684						5Y4G	470	8-30,33
								30-2118	12	2N518	B8							
37-670	Vol.	33-5158	124	TM251-SS5		See Note	A58	30-2025	1	HD684					11	6K7G, 6A8G, 6J5G,		
								30-2045	1/19	2N518						6F6G, 5X4G	470	7-73,76
								30-2122	13/14	Order from	Mfr.							
37-675 (Codes 121, 122)	Vol.	33-5158	124	TM251-SS5			A58	30-2025	1	HD684					12	6K7G, 6F6G, 6L7G, 6N7G, 6A8G, 6Q7G, 6H6G, 5X4G	470	7-137, 142
	Tone	33-5173	121	MR48				30-2046	1/19	2N518								
								30-2170	13	2N518								
37-690	Vol.	33-5183	127	UM154-SS5			A58	30-2025	30	HD684					20	6K7G, 6L7G, 6A8G, 6J5G, 6N7G, 6H6G, 6R7G, 6B8G, 6F6G, 6B4G, 5X4G	470	8-34,41
	Bass	33-5182	15	UM154-SS1	M26			30-2024	30	HD684								
	Exp.	33-5178	‡	Order from	Mfr.			30-2176	30/19	RS213/TC32								
								30-2159	13/14	Order from	Mfr.							
								30-2177	13/14	Order from	Mfr.							
37-2620	Vol.	33-5158	124	TM251-SS5		See Note	A58	30-2117	25	HD684					6	6K7EG, 6A8EG, 6Q7EG, 6F6EG, 5Y4G	470	8-42,45
								30-2024	25	HD684								
								30-2118	14	2N518	B8							
37-2650	Vol.	33-5158	124	TM251-SS5		See Note	A58	30-2024	1	HD684					8	6K7EG, 6F6EG, 6A8EG, 6K5G, 6J5G, 5Y4G	470	8-44,47
								30-2163	1/19	TCS74/TC26								
								30-2118	14	2N518	B8							
37-2670	Vol.	33-5158	124	TM251-SS5		See Note	A58	30-2025	1	HD684					11	6K7EG, 6A8EG, 6J5EG, 6F6EG, 5X4G	470	8-48,51
								30-2045	1/19	2N518								
								30-2122	13/14	Order from	Mfr.							
38, 38A (Codes 122, 123)	Vol.	33-5017	2	MR24			A58								5	15, 30, 32, 19	460	4-21,22
38-1 (Code 121)	Vol.	33-5233	124	MRT451			A58	30-2201	30/19	RS213/TC22					12	6U7G, 6A8G, 6N7G, 6K7G, 6H6G, 6R7G, 6J5G, 6F6G, 5X4G	470	8-52,54
								30-2200	30	RS219								
								30-2243	20/13	2N518								
38-2 (Code 121)	Vol.	33-5233	124	MRT451			A58	30-2211	30	HD684					11	6U7G, 6A8G, 6N7G, 6K7G, 6J5G, 6F6G, 5X4G, 6H6G, 6R7G	470	8-55,57
								30-2243	30/12	2N518								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
38-3 (Code 121)	Vol.	33-5158	124	TM251-S85			A58	30-2200	1	RS219					9	6U7G, 6A8G, 6N7G,		
								30-2201	1/19	RS213/TC22						6H6G, 6Q7G,		
								30-2194	12	RS216						6K7G, [2]6F6G,		
																5Y4G	470	8-58,60
38-4, 38-5 (Code 121)	Vol.	33-5224	124	MRT451			A58	30-2200	1	RS219					8	6U7G, 6A8G, 6K7G,		
								30-2201	1/15	RS213/TC22						6J5G, 6K5G, [2]6F6G,		
								30-2212	12	RS216						5Y4G	470	8-61,63
38-7, 38-8, 38-9 (Code 121)	Vol.	33-5216	124	MRT451				30-2219	25	RS223					6	6A8G, 6K7G, 6J5G,		
								30-2217	25/12	2N518						6K5G, 6F6G, 5Y4G	470	8-64,66
38-10 (Code 121)	Vol.	33-5215	18	MR48				30-2210	25	HD684					5	6A8G, 6K7G, 6Q7G,		
								30-2217	25/12	2N518						6F6G, 5Y4G	470	8-67,68
38-12 (Code 121)	Vol.	33-5230	18	MR48	M26			30-2235	25	HD684					5	6A7, 78, 75, 41, 84	470	8-69,70
								30-2236	25	HD684								
38-14 (Codes 121, 124)	Vol.	33-5236	18	MR48	M26			30-2246	25	RS216					5	6A7, 78, 75, 42, 25Z5	470	8-71,72
								30-2275	25	RS207								
38-15 (Codes 121, 124)	Vol.	33-5230	18	MR48	M26			30-2263	25/19	RS215/TC22					5	6A7, 78, 75, 41, 84	470	9-1,2
								30-2265	25/19	2N518								
38-22, 38-23 (121)	Vol.	33-5228	124	MRT451				30-2237	25	RS224					6	6A8G, 6K7G, 6R7G,		
								30-2256	25	FP115						[2]25L6G, 25Z6G	470	9-23,25
								30-2239	1/13/16	3N527								
38-33 (Code 121)	Vol.	33-5219	18	Order from	Mfr.			30-2158	13	TC70					5	1D7G, 1D5GT,		
																1H6G, 1H4G,		
																1E7G	470	9-3,4
38-34 (125)	Vol.	33-5237	18	MR48	M27			30-2160	1	2N518		41-3222	246	C3	5	1D7G, 1D5GT,		
								.01		Buffer	B14					1H6G, 1H4G,		
																1E7G	470	9-5,6
38-35 (121)	Vol.	33-5253	18	MR48	M27			30-2270	23	2S569		41-3367	859	C3	5	6A8G, 6K7G, 6Q7G,		
								.015		Buffer	B14					6K6G, 6X5G	470	9-7,8
38-38 (121)	Vol.	33-5234	45	MR48				30-2241	12/13	Order from	Mfr.				6	1C7G, 1D5G, [2]1H4G,		
																1E5GP, 1J6G	470	8-73,74
38-39 (121)	Vol.	33-5234	45	MR48				30-2226	1/13	3S582/TC70		41-3222	246	C3	6	1C7G, 1D5G, [2]1H4G,		
								.01		Buffer	B14					1E5GP, 1J6G	470	8-75,76
38-40 (121)	Vol.	33-5215	45	MR48				30-2219	25	RS223		41-3367	859	C3	6	6A8G, 6K7G, 6J5G,		
								30-2291	25/13	2N518						6K5G, 6K6G,		
								.015		Buffer	B14					6X5G	470	9-9,10
38-60 (Codes 125)	Vol.	33-5157	18	UM154-SS5			A58	30-2210	25	HD684					5	6A8G, 6K7G, 6Q7G,		
								30-2211	25	HD684						6F6G, 5Y4G	470	8-77,78
								30-2212	12	RS216								
38-62	Vol.	33-5198	18	MR48	M26			30-2192	1/19	3S579					5	6A8G, 6K7G, 6Q7G,		
																6F6G, 5Y4G	470	8-19,20
38-89 (Code 125)	Vol.	33-5157	18	UM154-SS5			A58	30-2210	25	HD684					6	6U7G, 6A8G, 6K7G,		
								30-2211	25	HD684						6Q7G, 6F6G, 5Y4G	470	8-79,80
38-93	Vol.	33-5193	56	MR48	M26			30-2073	1/19	3S579					5	6K7G, 6A8G, 6R7G,		
																6F6G, 5Y4G	470	8-21,22
38-116 (Code 121)	Vol.	33-5158	124	TM251-SS5			A58	30-2026	1	HD684					15	[4]6K7G, 6L7G, 6N7G,		
	Exp.	33-5235	‡	UM160-SS5				30-2201	1/19	RS213/TC22						6A8G, [4]6J5G, 6R7G,		
								30-2232	12	3S584						[2]6L6G, 5X4G	470	8-81,86
38-116 (Code 125)	Vol.	33-5158	124	TM251-SS5			A58	30-2026	1	HD684					15	6U7G, [2]6A8G, 6N7G,		
	Exp.	33-5235	22	UM160-SS5				30-2201	1/19	RS213/TC22						[2]6K7G, [4]6J5G, 6R7G		
								30-2232	12	3S584						[2]6L6G, 5X4G	470	9-11,16
38-610 (125, 126)	Vol.	33-5158	124	TM251-SS5			A58	30-2117	25	HD684					5	6A8G, 6K7G, 6Q7G,		
								30-2024	25	HD684						6F6G, 5Y4G	470	7-45,48
								30-2118	12	2N518	B8							
38-620 (121, 125)	Vol.	33-5158	124	TM251-SS5			A58	30-2210	25	HD684					6	6U7G, 6A8G, 6K7G,		
								30-2211	25	HD684						6Q7G, 6F6G,		
								30-2212	13	RS216						5Y4G	470	9-17,18
38-623	Vol.	33-5158	124	TM251-SS5			A58	30-2161	13	3S582					6	[3]1D5G, 1C7G, 1F7G,		
																1H4G, 1J6G	470	7-55,56
38-624	Vol.	33-5166	124	TM251-SS5				30-2160	1	2N518		41-3222	246	C3	6	[3]1D5G, 1C7G, 1F7G,		
								30-2171	13	2N516						1H4G, 1J6G	470	8-23,24
								.01		Buffer	B14							
38-630	Vol.		18	TM251-SS5			A58	30-2117	25	HD684					6	[2]6K7G, 6A8G, 6Q7G,		
								30-2024	25	HD684						6F6G, 5Y4G	470	7-57,60
								30-2118	14	2N518	B8							
38-640	Vol.	33-5158	124	TM251-SS5			A58	30-2117	1	HD684					7	[2]6K7G, 6A8G, 6Q7G,		
								30-2045	1/19	2N518						[2]6F6G, 5Y4G	470	7-61,64
38-643	Vol.	33-5158	124	TM251-SS5			A58	30-2161	13	3S582					7	[3]1D5G, 1C7G, [3]1H4G,		
																1E5G, 1J6G	470	8-27,29
38-665	Vol.	33-5158	124	TM251-SS5				30-2163	1/19	TCS74/TC26					9	[2]6K7G, 6A8G, [2]6J5G,		
								30-2024	1	HD684						6K5G, [2]6F6G,		
								30-2118	12	2N518	B8					5Y4G	470	8-30,33
38-690 (125)	Vol.	33-5240	15	Order from	Mfr.			30-2025	3	HD684					20	6U7G, [2]6A8G, [2]6N7G,		
	Exp.	33-5241	‡	Order from	Mfr.			30-2200	3	RS219						[4]6K7G, 6B8G,		
								30-2249	3	3S584						[4]6J5G, 6H6G,		
								30-2201	3/19	RS213/TC22						6R7G, 6F6G,		
																[2]6L6G, [5]X4G	470	9-18,22
39, 39A	Vol.	33-5020	45	MR48	M23										6	1C6, 34, [2]30, 32, 19	460	6-4,6

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
39-6, 39-7 (121)	Vol.	33-5254	18	MR48	M26			30-2328	25	ST597					5	6A7, 78, 75, 41, 84	470	10-1,2
								30-2327	25	ST595								
39-8, 39-8T	Vol.	33-5254	18	MR48	M26			30-2246	8	RS216					5	6A7, 78, 75, 41, 25Z5	470	11-26
								30-2245	8	RS207								
39-12, 39-12TP	Vol.	33-5230	18	MR48	M26			30-2235	23	HD684					5	6A7, 78, 75, 41, 84	470	11-14,15
	Tone	33-5330	22	MR33				30-2236	23	RS213								
39-17 (121, 122)	Vol.	33-5276	18	Order from	Mfr.			30-2319	25	HD684					5	6A7, 78, 75, 41, 84	470	10-3,4
								30-2236	25	HD684								
39-18 (121, 122)	Vol.	33-5276	18	Order from	Mfr.			30-2332	74	RS224					5	6A7, 78, 75, 43, 25Z5, BKV51DJ	470	11-27
								30-2245	74	RS207								
39-19 (121, 122)	Vol.	33-5276	18	Order from	Mfr.			30-2319	25	HD684					5	6A7, 78, 75, 41, 84	470	10-7,8
								30-2323	25/13	2N518								
39-25 (121)	Vol.	33-5289	18	MRT431				30-2330	25	HD684					5	6A8G, 78, 75, 41, 84	470	10-9-11
								30-2331	25/13	RS216								
39-30, 39-35 (121)	Vol.	33-5275	124	MRT451			A58	30-2330	25	HD684					6	6A8G, 78, 37, 75, 41, 84	470	10-13-16
								30-2331	25/13	RS216								
39-31, 39-31XF, 39-31XK	Vol.	33-5275	124	MRT451			A58	30-2330	25	HD684					6	6A8G, 78, 37, 75, 41, 84	470	11-25
								30-2331	25/13	RS216								
39-36 (121)	Vol.	33-5286	140	Order from	Mfr.			30-2371	25	HD684					6	6A7, 78, 37, 75, 41, 84	470	10-17,18
		33-5287	140	Order from	Mfr.			30-2370	25	RS216								
								30-2331	13	RS216								
39-40 (121)	Vol.	33-5286	80	Order from	Mfr.			30-2335	25	RS219					8	‡78, 6A7, 6Q7, 6J5G, ‡42, 5Y4G	470	10-19-21
	Tone	33-5286	80	Order from	Mfr.			30-2333	25	RS223								
								30-2334	13	HD684								
39-45 (121)	Vol.	33-5286	80	Order from	Mfr.			30-2335	25	RS219					9	‡78, 6A7, ‡6J5G, 6K5G, ‡42, 5Y4G	470	10-23,24
	Tone	33-5287	80	Order from	Mfr.			30-2333	25	RS223								
								30-2334	13	HD684								
39-55 (121)	Vol.	33-5300	80	Order from	Mfr.			30-2200	25	RS219					10	6J8G, ‡78, 6J7G, 6Q7G, 2A4G, 6ZY5G, ‡42, 80	470	9-55,62
	Tone	33-5287	80	Order from	Mfr.			30-2360	25	RS223								
	Sen.	33-5295	7	MR34				30-2334	13	HD684								
								30-2356	‡	RS216								
39-70, 39-75 (121, 122)	Vol.	33-5290	18	MR48	M27			30-2346	12	ST595					4	1A7G, 1N5G, 1H5G, 1C5G	470	10-25,26
39-71 (121)	Vol.	33-5301	18	MR53	M27			30-2359	12	TC40					4	1A7G, 1N5G, 1H5G, 1C5G	470	10-22
39-80 (121)	Vol.	33-5288	17	MRT451	M27		A58	30-2346	12	ST595					4	1A7G, 1N5G, 1H5G, 1A5G	470	10-27
39-85 (121)	Vol.	33-5288	17	MRT451	M27		A58	30-2348	12/13	2N516					4	1A7G, 1N5G, 1H5G, 1A5G	470	11-29
39-116 (121)	Vol.	33-5300	80	Order from	Mfr.			30-2200	25	RS219					13	6J5G, ‡78, 6J7G, 6K7G, 6Q7G, 2A4G, 6A8G, 6ZY5G, ‡42, 80, 37	470	9-56,62
	Tone	33-5287	80	Order from	Mfr.			30-2360	25	RS223								
								30-2356	‡	RS216								
								30-2334	13	HD684								
39-117 (121, 122)	Vol.	33-5276	18	Order from	Mfr.			30-2319	25	HD684					5	6A7, 78, 75, 41, 84	470	11-31-33
								30-2323	25/13	2N518								
39-118 (121, 122)	Vol.	33-5276	18	Order from	Mfr.			30-2332	74	RS224					5	6A7, 78, 75, 43, 25Z5, BKV51DJ	470	11-31, 32,33
								30-2245	74	RS207								
39-119 (121, 122)	Vol.	33-5276	18	Order from	Mfr.			30-2319	25	HD684					5	6A7, 78, 75, 41, 84	470	11-34
								30-2323	25	2N518								
39-175 (121, 122)	Vol.	33-5291	18	MR48	M27			30-2346	12	ST595					4	1A7G, 1N5G, 1H5G, 1C5G	470	11-35
39-711	Vol.	33-5305	18	MRT431				30-2380	1/15	3N527	B8				5	6J8G, 78, 75, 25L6G, 25Z5	470	11-37
								30-2235	1	RS207								
39-744	Vol.	33-5298	140	MRT451				30-2374	24/13	FP14		11-3222	246	C3	7	‡6S7G, 6D8G, 6T7G, 6G6G, ‡49	470	11-41,42
	Tone	33-5303	140	Order from	Mfr.			.01		Buffer	B14							
39-751	Vol.	33-5304	140	MRT451				30-2372	1, 15	3S579	B8				8	6J8G, ‡78, 75, ‡25L6G, 25Z5, 76	470	11-38
	Tone	33-5299	140	Order from	Mfr.			30-2373	1	RS224								
								30-2245	13	RS207								
39-770	Vol.	33-5302	124	Order from	Mfr.			30-2368	43	RS219					11	‡6K7G, 6J8G, 6H6G, ‡6J5G, ‡6F6G, 5Y4G	470	11-43-45
	Tone	33-5287	‡	Order from	Mfr.			30-2366	43	RS224								
								30-2367	‡	TC40								
40 DC	Vol.	4056	8	A2MP											6	‡24A, 27, ‡71A		1-10
40-74	Vol.	33-5310	18	MR53	M27			30-2359	12	TC40					4	1A7G, 1N5G, 1H5G, 1A5G	470	12-12
40-81	Vol.	33-5331	18	MR53	M27			30-2396	12	TC44					4	1LA6, 1LN5, 1LH4, 1LA4, or 1A7G, 1N5G, 1H5G, 1A5G	455	12-13
40-82 (121)	Vol.	33-5331	18	MR53	M27			30-2396	12	TC44					4	1LA6, 1LN5, 1LH4, 1LA4	455	12-13,18
40-83	Vol.	33-5331	18	MR53	M27			30-2396	12	TC44					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-13,18
40-84	Vol.	33-5375	18	MR53	M27			30-2453	24/78	2N509					5	1LA6, 1LN5, 1LH4, 1LA4, 117Z6G	455	12-12,18
								30-2452	46	TN125								
40-88	Vol.	33-5310	18	MR53	M27			30-2388	12/13	2N516					5	‡1LN5, 1LA6, 1LH4, 1LA4	455	11-65
40-90	Vol.	33-5312	18	MR53	M27			30-2396	12	TC44					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-14,18
40-95 (121, 122)	Vol.	33-5321	18	MR53	M27			30-2396	12	TC44					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-14,18

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
40-100 (121, 122)	Vol.	33-5321	18	MR53	M27			30-2396	12	TC44					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-15, 16,18
40-105	Vol.	33-5326	17	MRT451	M27			30-2396	12	TC44					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-15,18
40-110	Vol.	33-5326	17	MRT451	M27			30-2408	12/13	2N509					4	1A7G, 1N5G, 1H5G, 1A5G	455	11-47,48
40-115	Vol.	33-5306	18	MR48	M26			30-2403	1	2N509					6	7C7, 7A8, 7B7, 7C6, 35A5, 35Z3	455	11-49
40-120, 40-125	Vol.	33-5306	18	MR48	M26			30-2403	1	2N509					6	7C7, 7A8, 7B7, 7C6, 35A5, 35Z3	455	12-17,18
40-124	Vol.	33-5306	18	MR48	M26			30-2403	1	2N509					6	7C7, 7A8, 7B7, 7C6, 35A5, 35Z3	455	11-49
40-130, 135	Vol.	33-5332	18	MR48				30-2409	25	TC74					6	7C7, 7A8, 7B7, 7C6, 7B5, 7Y4	455	12-21
								30-2401	25	TC70								
40-140	Vol.	33-5319	18	MR48				30-2409	25	TC74					6	1232, 7J7, 7B7, 7C6, 7B5, 7Y4	455	12-21
	Tone	33-5333	21	MR48	M26			30-2401	25	TC70								
40-145	Vol.	33-5319	18	MR48				30-2409	25	TC74					6	1232, 7J7, 7B7, 7C6, 7B5, 7Y4	455	12-21
	Tone	33-5333	21	MR48	M26			30-2401	25	TC70								
40-150	Vol.	33-5275	140	MRT451			A58	30-2405	25	HD684					7	1232, 7J7, 7B7, 7C6, ‡41, 84	455	12-19
	Tone	33-5314	140	SM303	M26		A103	30-2406	25	RS216								
40-155	Vol.	33-5275	140	MRT451			A58	30-2405	25	HD684					8	1232, 7J7, 7B7, 7A6, 7C6, ‡41, 84	455	12-19
	Tone	33-5314	140	SM303	M26		A103	30-2406	25	RS216								
40-158 (Code 121)	Vol.	33-5319	18	MR48				30-2447	25	2S567					6	‡7B7, 7A8, 7C6, 41, 84	455	12-20
40-160	Vol.	33-5319	18	MR48				30-2400	28	3S584					6	7C7, 7B7, 7C6, 41, 84, 7A8	455	10-33& 12-21
40-165	Vol.	33-5319	18	MR48				30-2400	28	3S584					6	1232, 6J8G, 7B7, 7C6, 41, 84	455	12-22
	Tone	33-5333	22	MR48	M26													
40-170C.S.	Vol.	33-5332	18	MR48				30-2409	25	TC74					6	7C7, 7A8, 7B7, 7C6, 7B5, 7Y4	455	12-21
								30-2401	25	TC70								
40-180	Vol.	33-5275	140	MRT451			A58	30-2405	25	HD684					8	1232, 7J7, 7B7, 7A6, 7C6, ‡41, 84	455	12-22,23
	Tone	33-5314	140	SM303	M26		A103	30-2406	25	RS216								
40-185	Vol.	33-5275	140	MRT451			A58	30-2405	25	HD684					8	1232, 7J7, 7B7, 7A6, 7C6, ‡41, 84	455	12-23
	Tone	33-5314	140	SM303	M26		A103	30-2406	25	RS216								
40-190	Vol.	33-5275	140	MRT451			A58	30-2405	25	HD684					8	1232, 7J7, 7B7, 7A6, 7C6, ‡41, 84	455	12-22-24
	Tone	33-5314	140	SM303	M26		A103	30-2406	25	RS216								
40-195	Vol.	33-5286	140	Order from	Mfr.			30-2335	25	RS219					10	1232, 7B7, 7C6, ‡37, ‡42, 80, 7J7, 7A7	455	12-24,25
	Tone	33-5325	140	SM303			A103	30-2333	25	RS223								
40-200	Vol.	33-5286	140	Order from	Mfr.			30-2335	25	RS219					11	1232, 7J7, 7B7, 7A6, 7C6, ‡37, ‡42, 80	455	12-24,25
	Tone	33-5325	140	SM330			A103	30-2333	25	RS223								
40-205	Vol.	33-5300	140	Order from	Mfr.			30-2200	25	RS219					11	7C7, 6J8G, ‡78, 6Q7G, ‡42, 6J7G, 6H6G,		
	Tone	33-5387	140	Order from	Mfr.			30-2360	25	RS223								
	Sen.	33-5295	7	MR34				30-2334	13	HD684						2A4G, 80	470	11-55-58,62
								30-2387	‡	ST597								
40-215RX	Vol.	33-5300	140	Order from	Mfr.			30-2200	25	RS219					11	1232, 6J8G, ‡78, 6Q7G, ‡42, 6J7G, 6H6G,		
	Tone	33-5287	140	Order from	Mfr.			30-2360	25	RS223								
	Sen.	33-5295	7	MR34				30-2334	13	HD684						2A4G, 80	470	12-26-28
								30-2387	‡	ST597								
40-216	Vol.	33-5300	140	Order from	Mfr.			30-2200	25	RS219					13	‡6J7G, 6A8G, ‡78, 6Q7G, 37, ‡42, 80,		
	Tone	33-5287	140	Order from	Mfr.			30-2360	25	RS223								
	Sen.	33-5295	7	MR34				30-2334	13	HD684						2A4G, 6J5G, 6ZY5G	470	11-59,60
								30-2356	‡	RS216								
40-217RX (Code 121)	Vol.	33-5300	140	Order from	Mfr.			30-2200	25	RS219					11	1232, 6J8G, ‡78, 6Q7G, ‡42, 6J7G, 6H6G,		
	Tone	33-5287	140	Order from	Mfr.			30-2360	25	RS223								
	Sen.	33-5295	7	MR34				30-2334	13	HD684						2A4G, 80	470	12-26-28
								30-2387	‡	ST597								
40-501, 40-502	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-29
40-503	Vol.	33-5332	18	MR48				30-2410	25	TC74					6	7C7, 7A8, 7B7, 7C6, 7B5, 7Y4	455	11-63
40-504	Vol.	33-5310	18	MR53	M27			30-2359	12	TC40					4	1A7G, 1N5G, 1H5G, 1C5G	470	12-30
40-506	Vol.	33-5332	18	MR48				30-2411	25	TC70					6	7C7, 7A8, 7B7, 7C6, 7B5, 7Y4	455	11-63
								30-2437	25/19	4S718	B8							
40-507	Vol.	33-5289	18	MRT431				30-2410	25	TC74					6	1232, 7J7, 7B7, 7C6, 7B5, 7Y4	455	11-66
	Tone	33-5333	21	MR48	M26													
40-508, 40-509	Vol.	33-5275	124	MRT451			A58	30-2413	25	RS215					8	1232, 6J8G, 7B7, 7C6, 7A4, ‡42, 80	455	12-32,33
	Tone	33-5314	22	SM303	M26			30-2412	25	RS216								
40-510	Vol.	33-5300	140	Order from	Mfr.			30-2200	25	RS219					11	7C7, 6J8G, ‡78, 6Q7G, ‡42, 80, 2A4G, 6H6G, 6J7G	470	11-67
	Tone	33-5287	140	Order from	Mfr.			30-2360	25	RS223								
	Sen.	33-5295	7	MR34				30-2334	13	HD684								
								30-2387	‡	ST597								
40-516	Vol.	33-5300	140	Order from	Mfr.			30-2200	25	RS219					13	‡6J7G, 6A8G, ‡78, 6Q7G, 37, ‡42, 80,		
	Tone	33-5287	140	Order from	Mfr.			30-2360	25	RS224								
	Sen.	33-5295	7	MR34				30-2334	13	HD684						2A4G, 6J5G, 6ZY5G	470	11-59,60
								30-2356	‡	RS216								
40-525, 40-526, 40-527	Vol.	33-5332	18	MR48				30-2411	25	TC70					6	7C7, 7A8, 7B7, 7C6, 7B5, 7Y4	455	12-30,31
								30-2437	25/19	4S718	B8							
40-710	Vol.	33-5336	18	MRT431				30-2436	6/13/15	‡TCD55					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	11-71

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
40-715 (121)	Vol.	33-5305	18	MRT431				30-2364	4	RS216					5	6J8G, 7S, 75, 41, 84	455	11-73
								30-2363	4	RS216								
40-725 (121)	Vol.	33-5298	140	MRT451				30-2364	4	RS216					6	§78, 6J8G, 75, 41, 84	455	11-75
	Tone	33-5299	140	Order from	Mfr.			30-2319	4	RS215								
40-748 (121)	Vol.	33-5298	140	MRT451				30-2374	24/13	TN125/TC42		41-3222	246	C3	7	§6S7G, 6D8G, 6T7G,		
	Tone	33-5303	140	Order from	Mfr.			.01		Buffer	B14					6G6G, §49	455	11-77
40-755 (121)	Vol.	33-5298	152	MRT451				30-2364	1	RS216					8	§78, 6J8G, 75, 76, §42,		
	Tone	33-5299	152	Order from	Mfr.			30-2366	1	RS224						80	455	11-79
40-756 (121)	Vol.	33-5304	152	MRT451				30-2373	1	RS224					8	§78, 6J8G, 75, 76,		
	Tone	33-5299	152	Order from	Mfr.			30-2446	1/13/15	FP339	B117					§25L6G, 25Z5	455	12-34,35
40-780 (121, 151)	Vol.	33-5334	140	MRT451				30-2364	4	RS216					11	§7C7, 6J8G, 6K7G,		
	Tone	33-5335	140	Order from	Mfr.			30-2366	4	RS224						7A6, 6R7G, §6J5G,		
								30-2415	13	TC70						§6V6G, 80	455	12-35,36
40-2710	Vol.	33-5336	18	MRT431				30-2436	6/13/15	§TCD55					5	7A8E, 7B7E, 7C6,		
																35A5E, 35Z3	455	12-37,38
40-2725 (121)	Vol.	33-5298	152	MRT451				30-2364	4	RS216					6	§78E, 6J8E, 75, 41E,		
	Tone	33-5299	152	Order from	Mfr.			30-2319	4	RS216						84	455	12-38,39
40-2780	Vol.	33-5334	140	MRT451				30-2412	4	RS216					11	§7C7E, 6J8EG,		
	Tone	33-5335	140	Order from	Mfr.			30-2415	4	RS224						6K7EG, 7A6,		
								30-2415	13	TC70						6R7G, §6J5G,		
																§6V6EG, 80	455	12-41,42
41-KR	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5,		
																35Z3	455	14-4,16
41-RP-2, 41-RP-5								30-2388	24	2N516					2	6A7E, 84		14-5,20
41RP6 (Record Player)								30-2388	24	2N516					2	6A7, 84		12-49
41-22CL, 42-22CL	Vol.	33-5405	18	MR48	M26			30-2403	1	2N509					6	7C7, 7A8, 7B7, 7C6,		14-6,
																35A5, 35Z3	455	14,16
41-81	Vol.	33-5389	18	MR53	M24			30-2396	12	TC44					4	1A7G, 1N5G, 1H5G,		
																1A5G	455	13-4,5
41-83	Vol.	33-5389	18	MR63	M24			30-2396	12	TC44					5	1A7G, 1N5G, 1H5G,		
																§1LA4	455	13-4,5
41-84	Vol.	33-5390	18	MR53	M27			30-2452	76/12	TN125					5	1LA6, 1LN5, 1LH4,		
								30-2453	76/78	2N509						1LA4, 117Z6G	455	13-5
41-85	Vol.	33-5390	18	MR53	M27			30-2452	76/12	TN125					5	1LA6, 1LN5, 1LH4,		
								30-2453	76/78	2N509						1LA4, 117Z6G	455	13-6
41-90	Vol.	33-5407	18	‡		See Note	A3	30-2396	12	TC44					4	1A7G, 1N5G, 1H5G,		
																1A5G	455	13-7
41-95	Vol.	33-5398	18	MR53	M27		A58	30-2396	12	TC44					5	1A7G, 1N5G, 1H5G,		
																§1A5G	455	13-7
41-100	Vol.	33-5398	18	MR53	M27		A58	30-2396	12	TC44					5	1A7G, 1N5G, 1H5G,		
																§1A5G	455	13-7,8
41-105	Vol.	33-5402	17	MRT451				30-2396	12	TC44					5	1A7G, 1N5G, 1H5G,		
																§1A5G	455	13-8
41-110	Vol.	33-5412	140	TM251			A96	30-2396	12	TC44					6	§1N5G, 1A7G, 1H5G,		
	Tone	33-5416	140	‡			A3									§1A5G	455	12-47
41-220	Vol.	33-5404	18	MR48				30-2403	1	2N509					6	7C7, 7A8, 7B7, 7C6,		
																35A5, 35Z3	455	12-48,49
41-221	Vol.	33-5411	18	MR48				30-2491	1	2N509					6	XXD, §7B7, 7C6,		
																35A5, 35Z3	455	12-50
41-225	Vol.	33-5411	18	MR48				30-2403	1	2N509					6	7C7, 7A8, 7B7, 7C6,		
																35A5, 35Z3	455	12-48,49
41-226	Vol.	33-5411	18	MR48				30-2491	1	2N509					6	XXD, §7B7, 7C6,		
																35A5, 35Z3	455	12-50
41-230 (Code 121)	Vol.	33-5332	18	MR48				30-2409	25	TC74					7	§XXL, §7B7, 7C6,		
								30-2401	25/13	TC70						7B5, 7Y4	455	12-51
41-231	Vol.		18	UM154			A96	20-20	1	2N509					6	XXD, §7B7, 7C6,		
																35A5, 35Z5	455	12-50,55
41-235 (Code 121)	Vol.	33-5332	18	MR48				30-2409	25	TC74					7	§XXL, §7B7, 7C6,		
								30-2401	25/13	TC70						7B5, 7Y4	455	12-51
41-240 (Code 121)	Vol.	33-5332	18	MR48				30-2409	25	TC74					7	§XXL, §7B7, 7C6,		
	Tone	33-5333	21	MR48	M26			30-2477	25/13	2N518						7B5, 7Y4	455	12-52
41-245 (Code 121)	Vol.	33-5332	18	MR48				30-2409	25	TC74					7	§XXL, §7B7, 7C6,		
	Tone	33-5404	21	MR48				30-2477	25/13	2N518						7B5, 7Y4	455	12-53,54
41-246 (Code 121)	Vol.		18	MR48				12	25	TC74					7	§XXL, §7B7, 7C6,		
	Tone		18	MR48				4-4	25/13	2N518						7B5, 7Y4	455	12-55,61
41-250 (Code 121)	Vol.	33-5408	80	MRT451				30-2474	25	TC74					9	§XX1, §7B7, 7A6, 7C6,		
	Tone	33-5403	80	SM303			A103	30-2475	25/13	3S584	B8					§41, 84	455	12-56
41-255 (Code 121)	Vol.	33-5408	80	MRT451				30-2474	25	TC74					9	§XX1, §7B7, 7A6, 7C6,		
	Tone	33-5403	80	SM303			A103	30-2475	25/13	3S584	B8					§41, 84	455	12-56
41-256 (121)	Vol.		140	MRT451				16-8	25/13	3S584	B8				9	§XXL, §7B7, 7A6,		
	Tone		140	SM303				16	25	TC55						7C6, §41, 84	455	12-57,61
41-258 (122)	Vol.	33-5405	18	MR48	M26			30-2403	1	2N509					6	XXD, §7B7, 7C6,		
																50L6GT, 35Z5GT	455	12-58
41-260	Vol.	33-5319	18	MR48				30-2471	25	TC74					7	§XXL, §7B7, 7C6, 41,		
	Tone	33-5404	22	MR48				30-2476	25/13	2N518						84	455	12-59
41-265	Vol.	33-5319	18	MR48				30-2471	25	TC74					7	§XXL, §7B7, 7C6, 41,		
	Tone	33-5404	22	MR48				30-2476	25/13	2N518						84	455	12-60,61
41-280 (Code 121)	Vol.	33-5408	140	MRT451				30-2474	25	TC74					9	§XXL, §7B7, 7C6,		12-73,
	Tone	33-5403	140	SM303				30-2475	25/13	3S584	B8					7A6, §41, 84	455	63,64

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO — Continued																		
41-285, 41-287 (Code 121)	Vol.	33-5408	140	MRT451				30-2474	25	TC74					9	[2]XXL, [3]7B7, 7A6, 7C6, [3]41, 84	455	12-63, 64,73
	Tone	33-5403	140	SM303				30-2475	25/13	3S584	B8							
41-290 (Code 121)	Vol.	33-5408	140	MRT451				30-2474	25	TC74					10	[2]XXL, [3]7B7, 7A6, 7C6, 37, [3]41, 84	455	12-63, 64,37
	Tone	33-5403	140	SM303				30-2475	25/13	3S584	B8							
41-295	Vol.	33-5286	140	Order from	Mfr.			30-2472	25	RS219					11	[2]XXL, [3]7B7, 7C6, [3]37, [3]42, 80	455	12-65, 66,61
	Tone	33-5325	140	‡			A3	30-2333	25	RS223								
								30-2473	13	TC71								
41-300	Vol.	33-5286	140	Order from	Mfr.			30-2472	25	RS219					12	[2]XXL, [3]7B7, 7A6, 7C6, [3]37, [3]42, 80	455	12-65, 66,61
	Tone	33-5325	140	‡			A3	30-2333	25	RS223								
								30-2473	13	TC71								
41-316 (121)	Vol.	33-5417	140	Order from	Mfr.			30-2200	25	RS219					14	[2]XXL, [3]7B7, 7C6, 37, [3]42, 80, 78, 6J7G, 6J5G, 2A4G, 6ZY5G	455	12-67-69
	Tone	33-5325	140	‡			A3	30-2360	25	RS223								
								30-2473	13	TC71								
								30-2387	‡	ST597								
41-601 (121)	Vol.		‡	Order from	Mfr.			40-40-10	1/15	2N511/TC22					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	12-62
41-602	Vol.	33-5396	18	TM243	M26		A96	30-2382	1	2N509					5	7A8, 7B7, 7C6, 36A5, 35Z3	455	12-71
41-603	Vol.	33-5414	18/50	Order from	Mfr.			30-2491	1	2N509					6	XXD, [3]7B7, 7C6, 35A5, 35Z3	455	12-72,73
41-604, 41-605, 41-607	Vol.	33-5409	18/50	Order from	Mfr.			30-2403	1	2N509					6	XXD, [3]7B7, 7C6, 35A5, 35Z3	455	12-72,73
41-608, 41-609	Vol.	33-5408	140	MRT451				30-2488	25/13	3S584/TC74	B8				9	XXL, 7B5, 7C7, [3]7B7, 7C6, [3]41, 7Y4	455	12-75,76
	Tone	33-5403	140	SM303			A103											
41-610, 41-611 (121)	Vol.	33-5408	140	MRT451				30-2480	25/13	3S584	B8				10	XXL, [3]7B7, [3]7C6, 7B5, 37, [3]41, 80	455	12-77, 78,61
	Tone	33-5403	140	SM303			A103	30-2481	25	[3]TC82	B8							
41-616P, 41-616PW (121)	Vol.	33-5417	140	Order from	Mfr.			30-2200	25	RS219					15	XXL, [3]7B7, [3]7C6, 37, [3]42, 7B5, 78, 6J7G, 6J5G, 2A4G, 80, 6ZY5G	455	12-79, 82,70
	Tone	33-5325	140	‡			A3	30-2360	25	RS223								
								30-2473	13	TC71								
								30-2387	‡	ST597								
41-620 (Phonograph)	Vol.		140	2 Meg			A19	16-8	25/13	3S584	B8				6	7F7, 7A4, [3]7B5, 80		12-74
	Tone		140	‡			A3	12	25	TC74								
41-623, 41-624, 41-625	Vol.	33-5405	18	MR48	M26			30-2494	1	TN129					7	XXD, [3]7B7, 7C6, [3]50L6GT, 50Y6GT	455	12-83,84
								30-2500	15	TC22								
								30-2495	13/15	2N516								
41-629 (121)	Vol.	33-5408	140	MRT451				30-2496	25	TC74					9	XXL, [3]7B7, [3]7C6, [3]41, 7B5, 6X5G	455	12-85, 86,61
	Tone	33-5403	140	SM303				30-2497	25/13	3S584	B8							
41-695	Vol.	33-5413	18	‡			A5	30-2396	12	TC44					5	1A7G, 1N5G, 1H5G, [2]1A5G	455	12-95,97
41-705	Vol.	33-5230	18	MR48	M26			30-2463	1/15	3N533					5	7A8E, 7B7E, 7C6, 35A5E, 35Z3	455	12-87,88
41-708	Vol.	33-5391	18	TM231			A96	30-2478	24	TC52			See Note	C8	4	7A8E, 7B7E, 7C6, 7B5E	455	12-88
								30-2479	24/13	2N509								
								.01		Buffer	B14							
41-712	Vol.	33-5391	18	TM231			A96	30-2459	1	TC62					5	7A8E, 7B7E, 7B6, 6K6EG, 7Y4	455	12-89,90
								30-2467	4/13	2N516								
41-713	Vol.	33-5397	18	TM231			A96	30-2436	25/13/15	FP409	B117				5	7A8E, 7B7E, 7C6, 35A5E, 35Z3	455	12-89,90
41-714	Vol.	33-5391	18	TM231			A96	30-2159	4	TC72					6	7A7E, 7J7E, 7B7E, 7B6, 6K6EG, 7Y4	455	12-94
								10	4	TC72								
41-722	Vol.	33-5392	140	MRT451			A58	30-2464	4	TC65					6	7A7E, 6J8EG, 78E, 75, 41E, 84	455	14-7-9
	Tone	33-5293	140	‡		See Note	A3											
41-745	Vol.	33-5392	140	MRT451			A58	30-2469	13	TC42		41-3222	246	C3	7	[3]7B7E, 7A8E, 7C6, 6G6EG, [3]49	455	14-9, 10,13
	Tone	33-5394	140	SM303	M27			30-2468	46	FP369								
								.01		Buffer	B14							
41-758	Vol.	33-5392	140	MRT451			A58	30-2445	4	FP146					8	7A7E, 6J8EG, 78E, 75, 76, [2]42, 80	455	14-8, 9,11
	Tone	33-5393	140	SM303	M26			30-2465	4	FP143								
41-759	Vol.	33-5395	140	MRT451				30-2435	46/15	FP306					8	7A7E, 7J7E, 78E, 7B6, 76, [2]25L6EG, 25Z5	455	11-9, 12,13
	Tone	33-5393	140	SM303	M26			30-2466	46	FP137								
41-788 (121, 122)	Vol.	33-5399	140	TM259-SS1				16	4	FP143					11	[3]7C7E, 7J7E, 78E, 7A6, [3]76, [3]6V6EG, 80	455	12-91-93
	Tone	33-5400	140	SM303	M26			40-5-5	4/13	Order from	Mfr.							
41-841 (121—Runs 1 and 2)	Vol.	33-5390	18	MR53	M27			20-10-20-20	76/78	TN125/TC26					5	1A7G, 1N5G, 1H5G/1LD5, 3Q5G, 117Z6	455	12-96,97
41-842, 41-843, 41-844	Vol.		18	UM154	M27		A96	20-20-10/100-25	76/78/13	Order from	Mfr.				7	[2]1LE3, [2]1LN5, 1LH4, 1LB4, 117Z6G	455	12-98
41-851 (121—Runs 1 and 2)	Vol.	33-5390	18	MR53	M27			30-2452	76	TN125					5	1A7G, 1N5G, 1H5G/1LD5, 3Q5G, 117Z6G	455	12-95-97
								30-2453	13/78	2N509								
								30-2382	13	2N509								
41 DC, 42 DC	Vol.	4094	2/8	DRP114			A56	‡	‡	See Note	B11				6	[3]24A, 27, [3]71A		1-11,2-8
42-KR-3, 42-KR-5	Vol.	33-5456	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	14-14-16

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
42-PT-2, 42-PT-4, 42-PT-7 (121, 122)	Vol.	33-5434	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	14-17,18
42-PT-10	Vol.	33-5434	18	MR48	M26			30-2382	1	2N509					6	7C7, 7A8, 7B7, 7C6, 50L6GT, 35Z3	455	14-18,19
42-PT-321	Vol.	33-5469	18	MR48	M26			30-2382	1	2N509					6	7C7, 7A8, 7B7, 7C6, 50L6GT, 35Z3	455	14-18,19
42-RP-1, 42-RP-2								30-2388	24	2N516					2	6A7, 84		14-20
42-121	Vol.	33-5441	18	MR53	M27		A58	30-2396	12	TC44					4	1LA6, 1LN5, 1LH4, 1LA4	470	14-21,23
42-122	Vol.	33-5447	18	MR53	M27		A58	30-2396	12	TC44					5	1LA6, 1LN5, 1LH4, [1]1LA4	455	14-22,23
42-123	Vol.	33-5453	18	‡		See Note	A3	30-2396	12	TC44					5	1LA6, 1LN5, 1LH4, [1]1LA4	455	14-22,23
42-124T, 42-125K	Vol.	33-5452	17	MRT451	M27		A58	30-2396	12	TC44					5	XXB, [1]1LN5, 1LH4, 1LB4	455	14-24-26
42-126	Vol.	33-5452	17	MRT451	M27		A58	30-2396	12	TC44					6	[1]1LE3, [1]1LN5, 1LH4, 1LB4	455	14-25, 26,72
42-322	Vol.	33-5482	18	‡		See Note	A3	30-2530	46	TN129					6	7C7, 7A8, 7B7, 7C6, 50L6GT, 35Z3	455	14-27,28
42-323	Vol.	33-5458	18	UM154			A96	30-2503	1	2N509					6	XXD, [2]7B7, 7C6, 50L6GT, 35Z3GT/35Z5GT	455	14-29, 30,31
42-327	Vol.	33-5448	18	Order from Mfr.				30-2503	1	2N509					6	XXD, [2]7B7, 7C6, 50L6GT, 35Z3GT/35Z5GT	455	14-30,31, 32,141
42-335	Vol.	33-5443	18	MR48				12	25	TC74					7	[2]XXL, [2]7B7, 7C6, 7B5, 7Y4	455	14-33, 34,141
42-340	Vol.	33-5443	18	MR48				4-4	13/25	2N518					7	[2]XXL, [2]7B7, 7C6, 7B5, 7Y4	455	14-35,31, 36,141
42-345	Vol.	33-5443	18	MR48				30-2409	25	TC74					7	[2]XXL, [2]7B7, 7C6, 7B5, 7Y4	455	14-37,31, 36,141
	Tone	33-5450	21	MR48				30-2477	25/13	2N518								
42-350	Vol.	33-5470	140	MRT451			A58	30-2477	25/13	2N518					7	[2]XXL, [2]7V7, XXFM, 7B5, 7Y4	455 kc. 4.3 mc.	14-28,38 40, 141
	Tone	33-5471	140	UC508			A36	30-2409	25	TC74								
42-355	Vol.	33-5477	140	MRT451				30-2513	13/25	2N518					8	[2]XXL, [2]7V7, XXFM, [2]41, 6X5G	AM 455 kc. FM 4.3 mc.	14-41- 43,141
	Bass	33-5460	140	UM160-SS1			A36	30-2517	25	TC75								
	Treble	33-5461	22	MR48														
42-358 (121)	Vol.	33-5464	18	MR48	M26			30-2515	1	2N509					6	XXD, [2]7B7, 7C6, 50L6GT, 35Z3	455	14-34,44
42-358 (122)	Vol.	33-5464	18	MR48	M26			30-2529	8	TN129					6	XXD, [2]7B7, 7C6, 35L6GT, 50Y6GT	455	14-34,44
42-360	Vol.	33-5451	18	MR48				30-2471	25	TC74					7	[2]XXL, [2]7B7, 7C6, 41, 84	455	14-45,31, 42,46
	Tone	33-5463	22	MR48	M26			30-2476	25/13	2N518								
42-365	Vol.	33-5451	18	MR48				30-2471	25	TC74					7	[2]XXL, [2]7B7, 7C6, 41, 84	455	14-47,31, 42,46
	Tone	33-5450	22	MR48				30-2476	25/13	2N518								
42-380	Vol.	33-5459	140	MRT451			A58	30-2513	25/13	2N518					7	[2]XXL, [2]7B7, 7C6, 41, 6X5G	455	14-43, 48,49, 142
	Bass	33-5460	140	UM160-SS1			A36	30-2517	25	TC75								
	Treble	33-5461	21	MR48														
42-390	Vol.	33-5477	140	MRT451				30-2513	13/25	2N518					8	[2]XXL, [2]7V7, XXFM, [2]41, 6X5G	AM 455 kc. FM 4.3 mc.	14-41- 43,141
	Bass	33-5460	140	UM160-SS1			A36	30-2517	25	TC75								
	Treble	33-5461	22	MR48														
42-395	Vol.	33-5478	140	MRT451				30-2526	13/25	2N518					9	[2]XXL, [2]7V7, XXFM, 7A4, [2]7B5, 7Z4	AM 455 kc. FM 4.3 mc.	14-50- 53,142
	Bass	33-5479	140	MR53			A36	30-2517	25	TC75								
	Treble	33-5480	22	MR48			A36											
42-400	Vol.	33-5280	140	TRP603	6	FS252	A52	30-2437	13	TC71					11	[2]XXL, [2]7B7, 7A6, XXFM, 7A4, [2]6F6G, 5Y4G	AM 455 kc. FM 4.3 mc.	14-54- 56,142
	Bass	33-5472	140	Order from Mfr.				30-2531	25	RS223								
	Treble	33-5470	‡	MRT451			A58	30-2525	25	TC75								
42-706	Vol.	33-5434	18	MR48	M26			30-2510	1	2N514					5	7A8E, 7B7E, 7C6, 35A5E, 35Z3	455	14-57,61
42-716	Vol.	33-5465	18	MR48				30-2459	4	TC62					5	6J8EG, 7B7E, 7C6, 6K6EG, 7Y4	455	14-58,61
42-717	Vol.	33-5446	18	MR48	M26			30-2506	1/15	TN129/TC26					5	7A8E, 7B7E, 7C6, 35A5E, 35Z3	455	14-59,61
42-718	Vol.	33-5465	18	MR48				30-2479	46	2N509		41-3553	246	C3	4	7A8E, 7B7E, 7C6, 7B5E	455	14-60, 61,142
								30-2478	46	TC55								
								.01		Buffer	B14							
42-724	Vol.	33-5475	18	‡		See Note	A3	30-2520	4	TC78					6	7J7E, 7B7E, 7C6, [2]7B5E, 6X5G	455	14-62,63
								30-2521	4/13	2S569								
42-730	Vol.	33-5454	140	‡		See Note	A3	30-2445	4	FP146					7	7A7E, 7J7E, 7B7E, 7C6, [2]1E, 80	455	14-64, 65,142
	Tone	33-5455	140	‡		See Note	A3	30-2465	4	FP143								
42-760	Vol.	33-5438	140	‡		See Note	A3	30-2445	4	FP146					8	[2]7A7E, 7J7E, 75, 76, [2]42E, 80	455	14-66, 67,70, 71,142
	Tone	33-5439	140	‡		See Note	A3	30-2465	4	FP143								
42-761	Vol.	33-5442	140	‡		See Note	A3	30-2435	15/46	3N527					8	[2]7A7E, 7J7E, 7B6, 76, [2]25L6EG, 25Z5	455	14-67, 68,70- 72,142
	Tone	33-5439	140	‡		See Note	A3	30-2504	13	2N514								
								30-2505	46	TC74								

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
42-762	Vol.	33-5138	140	‡		See Note	A3	30-2468	24/13	FP369		41-3222	246	C3	7	[27]B7E, 7A8E, 7C6,		14-67,
	Tone	33-5445	140	‡		See Note	A3	30-2469	13	TC42						6G6EG, [49]	455	69,70,
								.01		Buffer	B14							72,142
42-788 (121, 122)	Vol.	33-5399	140	TM259-SS1				30-2511	4	FP146					11	[27]C7E, 7J7E, 78E, 7A6,		14-73-
	Tone	33-5400	140	SM303	M26			30-2512	4/13/14	Order from	Mfr.					[26], 75, [26]V6EG, 80	455	76,142
	Sen.	33-5401	7	M15MP														
42-842, 42-843, 42-844	Vol.	33-5436	18	MR48	M27			30-2498	24/12/78	Order from	Mfr.				7	[21]LE3, [21]LN5, 1LH4, 1LB4, 117Z6G	455	14-77 78,81, 143
42-853, 42-854	Vol.	33-5436	18	MR48	M27			30-2498	12/15/76	Order from	Mfr.				7	[21]LE3, [21]LN5, 1LH4, 1LB4, 117Z6G	455	14-78- 81,143
42-1001 (121), 42-1001P (121)	Vol.	33-5437	18	MRT443	M26			30-2501	1/15	2N511/TC22					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	14-82, 83,143
42-1001 (122)	Vol.	33-5437	18	MRT443	M26			30-2501	8	2N511/TC26					5	7A8, 7B7, 7C6, 50L6GT, 50Y6GT	455	14-82,84
								30-2396	8	TC44								
42-1002 (121)	Vol.	33-5462	18	MRT443	M26			30-2507	1	2N511					6	7C7, 7A8, 7B7, 7C6, 50L6GT, 35Z3	455	14-85, 86,143
42-1002 (122)	Vol.	33-5462	18	MRT443	M26			30-2507	8	2N511					6	7C7, 7A8, 7B7, 7C6, 50L6GT, 50Y6GT	455	14-85, 86,143
								30-2396	8	TC44								
42-1003 (121)	Vol.	33-5457	18	MRT451	M26			30-2509	1/15	2N511/TC22					7	XXD, [27]B7, 7C6		14-86-
								30-2508	13/15	TCD52						[26]50L6GT, 50Y6GT	455	89,100, 143
42-1003 (122)	Vol.	33-5457	18	MRT451	M26			30-2509	3/15	2N511/TC22					7	XXD, [27]B7, 7C6,		14-86-
								30-2396	3	TC44						[26]50L6GT, 50Y6GT	455	89,100, 143
								30-2508	13/15	TCD52								
42-1004	Vol.	33-5466	18	MRT460	M26			30-2528	8/15	2N511/2N509					6	7C7, 7A8, 7B7, 7C6, 35L6GT, 50Y6GT	455	14-18, 90,143
42-1005 (121)	Vol.	33-5457	18	MRT451	M26			30-2508	13/15	TCD52					7	XXD, [27]B7, 7C6,		14-91-
								30-2509	1/15	2N511/TC22						[26]50L6GT, 50Y6GT	455	93,143
42-1005 (122)	Vol.	33-5457	18	MRT451	M26			30-2509	3/15	2N511/TC22					8	XXD, [27]B7, 7C6,		14-91,
								30-2396	3	TC44						[26]50L6GT, 50Y6GT	455	92,93, 143
								30-2508	13/15	TCD52								
42-1006 (122)	Vol.	33-5469	18	MR48	M26			30-2509	1/15	2N511/TC22					7	7C7, 7A8, [27]B7, 7C6,		14-18,
								30-2396	18	TC44						35L6GT, 50Y6GT	455	94,143
								30-2533	13/15	TCD52								
42-1008, 42-1009M, 42-1009W (121)	Vol.	33-5468	18	MBT451			A58	30-2481	1	TC74					9	7C5, XXL, [27]B7,		
	Tone	33-5467	22	UC507			A36	30-2480	1/13	3S584	B8					[27]C6, [24]1, 6X5G	455	13-9-12
42-1010, 42-1011M, 42-1011W (121)	Vol.	33-5481	140	‡		See Note	A3	30-2517	1	TC75					10	XXL, [27]C5, [27]B7,		
	Treble	33-5480	22	MR48			A36	30-2535	1/13	2N518						[27]C6, 7A4, 5Y4G	455	13-12-15
	Bass	33-5479	140	MR53			A36	30-2500	15	TC22								
42-1012, 42-1013M, 42-1013W	Vol.	33-5478	140	MRT451				30-2535	25/13	2N518					10	XXL, [27]C5, [27]V7,	AM	
	Bass	33-5479	140	MR53			A36	30-2517	25	TC75						XXFM, 7C6, 7A4,	455 kc.	14-82,
	Treble	33-5480	22	MR48			A36	30-2527	12	TC75						5Y4G	FM	95-99,
								30-2500	15	TC22							4.3 mc.	112
42-1015	Vol.	33-5286	18	Order from	Mfr.			30-2473	13	TC71					12	[2]XXL, [27]B7, XXFM,	AM	
	Bass	33-5472	‡	Order from	Mfr.			30-2532	25	RS223						7C5, 7C6, 7A4,	455 kc.	
								30-2527	25	TC75						[26]L6G, 5X4G	FM	14-100-
																	4.3 mc.	104,112
42-1016	Vol.	33-5417	140	Order from	Mfr.			30-2532	25	RS223					15	[2]XXL, [27]V7, XXFM,	AM	
	Bass	33-5472	140	Order from	Mfr.			30-2519	25	TC75						7C6, 7B5, 7B7,	455 kc.	
								30-2499	‡	Order from	Mfr.					7C7, 37, 7A6, 2A4G,	FM	14-105-
								30-2387	‡	TC44						[26]L6G, 5X4G	4.3 mc.	112
								30-2522	13	TC75								
43	Vol.	6892	45	MR53	M26		A58	4916	1	HD684					8	[2]37, [2]44, 42, 80	450	3-13,16
								7556	13	HD684								
43 (Code 121)	Vol.	6892	45	MR53	M26		A58	7556	1	HD684					8	[2]37, [2]44, 42, 80	450	4-24,26
								6453	13	HD684								
44	Vol.	33-5025	18	MR48	M26		A58	30-2028	1	2N518					6	6A7, [2]78, 75, 42, 80	460	4-23,26
								30-2020	13	HD684								
45, 45C	Vol.	33-5097	18	MRT425	M26	EB247	A58	30-2028	1	2N518					6	6A7, [2]39/44, 75, 42, 80	460	5-24,26
								30-2020	13	HD684								
46, 46E (DC)	Vol.	4141	24	CE			A54								6	[2]14, 27, [2]71A		1-12,13
47 (DC) (Code 121-221)	Vol.	6499	45	MR53											8	36, [2]44, [2]37, [2]43		3-47,48
48 (DC)	Vol.	5839	6	E12		(Early)	A27								4	[2]36, 44, 43	175	3-21,22
	Vol.	6415	6	E12	6	(Late)	A4											
49 (DC)	Vol.	33-5059	18	MRT425	M26										7	6A7, [2]78, 85, 76, [2]43	260	5-27,28
50, 50A	Vol.	5232	2/8	CE				4916	4	HD684					5	[2]24A, 47, 80		1-14,15
								5142	4	HD684	B12							
51, 51A, 52	Vol.	5839	6	E7				4916	4	HD684					5	[2]24A, 35, 47, 80	175	2-11,13
								5142	4	HD684	B12							
53 (AC-DC)	Vol.	33-5001	2	MR24	M26			30-2000	4	2N516					4	[2]77, 43, 12Z3	450	3-17,18
								7440	15	TC22								
54	Vol.	33-5010	18	MR48	M26		A57	30-2001	50	2N516					5	6A7, 78, 75, 43, 25Z5	460	3-57,58
								30-2002	50	FP225								

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
57	Vol.	33-5011	2	MR24	M26		A58	30-2004	1	2N518					4	277, 42, 80	460	4-27,29
								30-2013	1	SR638	B20							
58, 59	Vol.	33-5057	2	MR21	M26			30-2013	1	SR638					4	277, 42, 80	460	5-29,30
60	Vol.	33-5006	18	MR48	M26			7558	1	SR638					5	6A7, 78, 75, 42, 80	460	4-35,32
65	Vol.	3528	12	A2MP					3	See Note	B1				6	24A, 27, 45, 80		1-16, 8-2
66	Vol.	33-5006	18	MR48	M26			30-2028	1	2N518					5	6A7, 78, 75, 42, 80	460	5-31,32
								30-2021	13	HD684								
70, 70A (Below No. B-22,000)	Vol.	5039	2/8	DRP114			A56	4916	1	HD684					7	24A, 27, 47, 80	260	1-17,18
								5142	1	HD684	B12							
70, 70A (Above No. B-22,000)	Vol.	6015	45	MR53				4916	4	HD684					7	35, 24, 27, 47, 80	260	3-31
								5725	4	RS216	B12							
								5142	4	HD684	B12							
71 Series	Vol.	6499	45	MR53				6453	1	HD684					7	36, 37, 44, 42, 80	260	3-23,24
								6707	1	HD684	B12							
76	Vol.	3879	8	X				2-2-2	‡	See Note	B1				7	24A, 27, 45, 80		2-19
								.15	‡	See Note	B9							
77, 77A	Vol.	4094	2/8	DRP114			A56	2-2-2	30	See Note	B1				7	24, 27, 45, 80		1-20
								.15	‡	See Note	B9							
80	Vol.	7439	2	MR24	M26		A58	6707	1	HD684					4	36, 42, 80	450	3-25,26
								7467	1	HD684								
								7440	19	TC22								
81	Vol.	33-5002	2	MR24		See Note	A27	7558	1	HD684					4	277, 42, 80	460	3-27,28
	Vol.	7439	2	MR24	M26	See Note	A4	7467	1	HD684								
82	Vol.	3076	2	MR18					‡	3	See Note	B1				8	26, 27, 71A, 80		1-21
84	Vol.	33-5055	2	MR20	M26			30-2013	1	SR638					4	277, 42, 80	460	4-33,34
86	Vol.	3076	2	MR18					‡	3	See Note	B1			8	26, 27, 71A, 80		1-21
87	Vol.	3076	2	MR18				2-2-2-1-1	3/13	See Note	B1				8	26, 27, 45, 80		1-22
89	Vol.	33-5004	18	MR48	M26	See Note	A27	8165	1	HD684					6	24, 36, 75, 42, 80	260	3-33,34
	Vol.	33-5007	18	MR48		See Note	A4											
89 (Code 123)	Vol.	33-5007	18	MR48		See Note	A27	7558	1	HD684					6	24, 77, 75, 42, 80	260	7-77,79
	Vol.	33-5004	18	MR48	M26	See Note	A4											
89 (Codes 126 & 126B)	Vol.	33-5007	18	MR48		See Note	A27	30-2021	1	HD684					6	24, 77, 75, 42, 80	260	4-43
	Vol.	33-5004	18	MR48	M26	See Note	A4											
90, 90A (with 2-45's)	Vol.	5039	2/8	DRP114			A56	4916	1	HD684					9	24A, 27, 45, 80	175	2-22,24
								5142	1	HD684	B12							
90, 90A (with 1-47, Above 237,001)	Vol.	5366	15	MR48				4916	25	HD684					9	24, 27, 47, 80	175	2-26,29
								5142	25	HD684	B12							
90, 90A (with 2-47's) Serial No. B-32001 to B-35000, and above B-53100)	Vol.	6015	45	MR53				4916	1	HD684					9	24A, 35, 27, 47, 80	260	3-35,37
91 (Code 121-221)	Vol.	6499	45	MR53				4916	1	HD684					9	24, 36, 37, 42, 80	260	3-39,42
								5725	1	RS216	B12							
91 (126-226)	Vol.	8054	45	MRT425			A58	7464	1	HD684					9	24, 36, 37, 42, 80	260	3-29,30
95	Vol.	3790	15	MR48					‡	‡	See Note	B1			9	24A, 27, 45, 80		1-23
								.15			See Note	B9						
96, 96A, 96E	Vol.	4093	15	MR48					‡	‡	See Note	B1			9	24A, 27, 45, 80		1-24, 2-31
97, 98	Vol.	33-5102	18	MR48	M26		A58	30-2117	1	HD684					7	78, 6A7, 85, 42, 80	460	6-7,8-91
								30-2025	1	HD684								
								30-2114	13/14	Order from	Mfr.							
101	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	6A8, 7B7, 7C6, 35A5, 35Z3	470	10-32
	Tone	33-5320	22	MR53														
105	Vol.	33-5254	18	MR48	M26			30-2404	25	ST597					5	6A7, 78, 75, 41, 84	470	10-38
	Tone	33-5320	22	MR53				30-2265	25	ST595								
								30-2091	25	RS215	B20							
108 (Code 121)	Vol.	33-5286	76	Order from	Mfr.			30-2371	25	HD684					6	6A7, 78, 37, 75, 41, 84	470	10-39
	Tone	33-5287	76	Order from	Mfr.			30-2370	26	RS216								
								30-2331	13	RS216								
111, 111A	Vol.	4093	15	MR48					‡	‡	See Note	B1			11	24A, 27, 45, 80	175	2-32,34
								.15			See Note	B9						
112, 112A (Below 174,001)	Vol.	4093	15	MR48					‡	‡	See Note	B1			11	24A, 27, 45, 80	175	1-25,26
								.15			See Note	B9						
112, 112A, 112E (Above 174,001)	Vol.	4093	15	MR48				4916	1	HD684					11	24A, 27, 47, 80	175	2-38,39
116B (Code 121)	Vol.	33-5153	124	MRT448	M26		A58	30-2025	1	HD684					11	76, 77, 78, 37, 42, 80	460	6-10,12
								30-2045	1/19	2N518								
								30-2121	13/14	Order from	Mfr.							
116X (Code 122)	Vol.	33-5155	124	MRT454	M26		A58	30-2011	1	TC82					11	76, 77, 37, 78, 42, 6A3, 5Z3	460	6-13,14
								30-2123	1/19	TC82/TC44								
								30-2121	13/14	Order from	Mfr.							
118, 118 (Code 123RX)	Vol.	33-5024	124	MRT425	M26		A58	30-2025	1	HD684					8	78, 6A7, 75, 42, 80	260	5-34,38
								30-2045	1/19	2N518								
								30-2078	13/14	Order from	Mfr.							

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
144	Vol.	33-5068	18	MRT425	M26		A58	30-2073	1/19	3S579					6	6A7, 75, ‡78, 42, 80	460	5-40,44
								30-2020	13	HD684								
200X	Vol.	33-5071	124	TRP619	6	See Note	A58	30-2011	1	TC82					10	6A7, ‡78, 75, 37, ‡42, 5Z3	175	5-45,46
								30-2123	1/19	2N518								
								30-2080	13/14	Order from	Mfr.							
201 (Code 121)	Vol.	33-5071	18	TRP619	6	See Note	A58	30-2011	1	TC82					10	‡78, 6A7, 37, 75, ‡42, 5Z3	260	6-15,17
								30-2046	1/19	2N518								
								30-2080	13/14	Order from	Mfr.							
								30-2104	13	Order from	Mfr.							
211, 211A	Vol.	4093	15	MR48				‡	‡	See Note	B1				11	‡24A, ‡27, ‡45, 80	175	1-27, 2-32
212, 212A (Radio-Phonograph)	Vol.	4093	15	MR48				‡	‡	See Note	B1				11	‡24A, ‡27, ‡45, 80	175	1-26
212, 212A, 212E (Above 174,001)	Vol.	4093	15	MR48				4916	1	HD684					11	‡24A, ‡27, ‡47, 80	175	2-37,41
220, 220A	Vol.	4094	2/8	DRP114		See Note	A56	‡	1/19	See Note	B1				7	‡24A, 27, ‡71A, 80		3-51
233G, 233AG	Vol.	33-5075	2	MR24	M26										3	‡32E, 2101, 1D1		8-93,94
	Reg.	33-5076	‡	SRP263														
245	Vol.	33-5066	18	MRT425	M26	EB247	A58	30-2079	41	2N518					6	6A7, ‡78E, 75, 42E, 80	460	8-95,96
								30-2108	41	RS213								
261	Vol.	33-5006	18	MR48	M26			7558	1	HD684					5	6A7, 78, 75, 42, 80	125	8-97,98
								7557	1	HD684								
263E	Vol.	33-5065	18	MR48	M26			30-2028	1	2N518					4	6A7, 78E, 75, 18E, 25RE	125	8-99,100
								30-2030	‡	SR638								
264, 265	Vol.	33-5006	18	MR48	M26			30-2028	1	2N518					5	6A7, 78E, 75, 42E, 80	125	8-94,101
267E	Vol.	33-5055	2	MR20	M26			30-2013	1	SR638					4	‡77E, 42E, 80		8-103, 104
	Reg.	33-5076	‡	SRP263														
270, 270A	Vol.	5039	2/8	DRP114				4916	1	HD684					7	‡24A, 27, 47, 80	260	1-28
								5142	1	HD684	B12							
296, 296A, 296E	Vol.	4093	15	MR48				‡	‡	See Note	B1				9	‡24A, ‡27, ‡45, 80		1-30
470, 470A	Vol.	5039	2/8	DRP114				4916	1	HD684					9	‡24A, ‡27, 47, 80	260	2-40,42
								5142	1	HD684	B12							
490	Vol.	5724	15	MR48				4916	25	HD684					11	‡24A, ‡27, 47, 80	BC175	2-43,45
								5142	25	HD684	B12						SW1000	
								5725	25	RS216	B12							
500, 501	Vol.	33-5022	64	MRT448	M26	See Note	A58	30-2069	1	TC82					11	76, ‡77, ‡78, 37, ‡42, 5Z3	460	1-29
	Supp.	33-5015	12	MR18				30-2003	19	TC32								
503	Vol.	33-5069	124	MRT425	M26		A58	30-2025	1	HD684					8	6A7, ‡78, 75, ‡42, 80	260	4-37,38
								30-2003	19	TC32								
								30-2029	13/14	Order from	Mfr.							
504	Vol.	33-5025	18	MR48	M26		A58	30-2028	1	2N518					6	6A7, ‡78, 75, 42, 80	460	4-39,40
								30-2026	13	HD684								
505	Vol.	33-5006	18	MR48	M26			7558	1	HD684					5	6A7, 78, 75, 42, 80	460	4-41,42
506 (Radio-Phonograph)	Vol.	33-5068	18	MRT425	M26		A58	30-2073	1/19	3S579					6	6A7, ‡78, 75, 42, 80	460	8-105, 106
								30-2026	13	HD684								
507	Vol.	33-5024	18	MRT425	M26		A58	30-2025	1	HD684					8	‡78, 6A7, 75, ‡42, 80	260	5-39,40
								30-2045	1/19	2N518								
								30-2078	13/14	Order from	Mfr.							
509X	Vol.	33-5071	124	TRP619	6		A58	30-2011	1	HD684					10	‡78, 6A7, 37, 75, ‡42, 80	260	6-18, 8-102
								30-2046	1/19	2N518								
								30-2080	13/14	Order from	Mfr.							
								30-2104	13	Order from	Mfr.							
511, 512, 513, 514, 515, 531, 551	Vol.	3076	2	MR18				‡	‡	See Note	B1				7	‡26, 27, 71A, 80		8-107, 9-4
570 Grandfather's Clock (Below B-22,000)	Vol.	5039	2/8	DRP114				4916	1	HD684					7	‡24A, 27, 47, 80	260	1-17,18
								5142	1	HD684	B12							
570 Grandfather's Clock (Above B-22,000)	Vol.	6015	45	MR53				4916	4	HD684					7	‡35, 24A, 47, 27, 80	260	3-31,32
								5725	4	RS216	B12							
								5142	4	HD684	B12							
571	Vol.	3076	2	MR18				‡	‡	See Note	B1				7	‡26, 27, 71A, 80		
600	Vol.	33-5152	6	UM121-SS12	M26			30-2149	1	2N518					4	6A7, 77, 41, 80	460	7-80,81
602	Vol.	33-5145	18	UM154-SS12	M26			30-2148	1/15	3N527					5	6A7, 78, 75, 43, 25Z5	470	7-82,83
604	Vol.	38-7630	18	Order from	Mfr.			30-2154	41/15	3N527/TG42					5	6A7, 78, 75, 43, 25Z5	470	7-84,86
610, 610B, 610F, 610PF	Vol.	33-5106	18	MR48	M26			30-2025	1	HD684					5	6A7, 78, 75, 42, 80	460	6-19,21
								30-2118	13	2N518	B8							
611, 611 (121)	Vol.	33-5114	18	MR48	M26			30-2124	51	RS216					5	6A7, 78, 75, 43, 25Z5	460	6-23,24
								30-2125	51/15	2N509								
620, 620 (Code 121)	Vol.	33-5105	124	MRT440	M26		A58	30-2079	1	2N518					6	‡78, 6A7, 75, 42, 80	460	6-25,27
								30-2118	14	2N518	B8							
623	Vol.	33-5115	45	MR48	M23			30-2127	12/13	3S582					6	1C6, 34, ‡30, 32, 19	460	6-28,30
624	Vol.	33-5137	45	MR48	M23			30-2138	1	2N516		41-2015	246	C17	6	1C6, 1A4, ‡30, 32, 19	460	7-91,93
								30-2143	12/15	2N516								
								.01		Buffer	B14							
625	Vol.	33-5105	124	MRT440	M26		A58	30-2079	1	2N518					6	‡78, 6A7, 75, 42, 80	460	7-94,96
								30-2118	14	2N518	B8							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
630, 630 (121), 635, 635 (Code 124)	Vol.	33-5105	124	MRT440	M26		A58	30-2073	1/19	3S579					6	‡78, 6A7, 75, 42, 80	460	6-31,33 & 7-97, 101
								30-2118	14	2N518	B8							
640 (Code 121), 640X (Code 122)	Vol.	33-5113	124	MRT440	M26		A58	30-2117	1	HD684					7	‡78, 6A7, 85, ‡42, 80	460	6-34,36
								30-2025	1	HD684								
								30-2114	13/14	Order from	Mfr.							
641	Vol.	33-5116	124	MRT440	M26										7	‡78, 6A7, 85, 76, ‡43	460	7-102
642	Vol.	33-5120	124	MRT440	M26			30-2132	39	‡TC32	B11				7	78, 6A7, 76, 6F7, 85, ‡48	460	8-108
643	Vol.	33-5119	124	MRT454	M23		A58	30-2127	12/13	3S582					7	1C6, 1C1, ‡30, 32, ‡34, 19	460	7-105
645	Vol.	33-5113	124	MRT440	M26		A58	30-2117	1	HD684					7	6A7, ‡78, 85, ‡42, 80	460	7-108
								30-2025	1	HD684								
								30-2080	13/14	Order from	Mfr.							
650	Vol.	33-5108	124	MRT454	M26		A58	30-2025	1	HD684					8	‡78, 6A7, 75, ‡42, 80	460	6-37,39
								30-2045	1/19	2N518								
								30-2122	13/14	Order from	Mfr.							
651	Vol.	33-5116	124	MRT440	M26			30-2124	51	RS216					8	‡78, 6A7, 85, 76, ‡43, 25Z5	460	7-111, 113
								30-2147	51/15	3N527								
655	Vol.	33-5108	124	MRT454	M26		A58	30-2025	1	HD684					8	6A7, ‡78, 75, ‡42, 80	460	7-114, 116
								30-2045	1/19	2N518								
								30-2122	13/14	Order from	Mfr.							
660, 665, 665 (Code 122)	Vol.	33-5110	124	MRT454	M26		A58	30-2025	1	HD684					10	‡78, 77, 76, 75, ‡42, 80	460	6-40,42 and 7-117, 119
								30-2045	1/19	2N518								
								30-2122	13/14	Order from	Mfr.							
680	Vol.	33-5117	124	MR48			A58	30-2028	1	2N518					15	6B7, 76, ‡78, ‡85, 6F7, 42, ‡6A3, 5Z3, 80	460	7-120, 122
	Tone	33-5118	15	MR53				30-2129	14	2N518								
	Sel.	33-5124		Order from	Mfr.			30-2130	13/14	Order from	Mfr.							
								30-2128	19	RS224								
700	Vol.	38-5534	18	MR48	M26	FS251	A51	30-2072	1/15	2N518/TC22		38-5036	500P	C3	6	‡44, 77, 75, 42, 84	260	5-47,48
								.01		Buffer	B14							
800	Vol.	33-5058	18	MR48	M26	FS251	A51	30-2015	1	2N518		38-5036	500P	C3	7	‡44, 6A7, 75, 37, 79, 84	260	4-61,62
								30-4135	14/15	See Note	B135							
								.01		Buffer	B14							
800 (Code 122), 802	Vol.	38-5851	18	MRT425	M26	FS251	A51	30-2015	1	2N518		38-5036	500P	C3	7	‡44, 6A7, 75, 37, 79, 84	260	5-49,50 & 6-45
								30-4135	14/15	See Note	B135							
								.01		Buffer	B14							
805	Vol.	38-6635	18	MR48		FS251	A51	30-2115	4	TCS71		38-5036	500P	C3	5	6A7, 78, 75, 41, 84	260	6-46,47
								.01		Buffer	B14							
806	Vol.	38-6605	18	MRT425		FS251	A58/	30-2109	4	TCS71		38-5036	500P	C3	6	‡78, 6A7, 75, 41, 84	260	6-48,52
	Tone	33-5101	22	MR39			A51	.01		Buffer	B14							
808	Vol.	38-6636	124	Order from	Mfr.			30-2112	1	2N518		38-5036	500P	C3	7	77, 6A7, 78, 75, 76, 6A6, 84	260	6-50,54
	Tone	33-5096	44	Order from	Mfr.			30-2110	14	TC71								
								30-2111	15	‡TC32	B3							
								.01		Buffer	B14							
809	Vol.	38-6605	18	MR48		FS251	A51	30-2109	4	TCS71		38-5036	500P	C3	6	‡78, 6A7, 75, 41, 84	260	6-52,54
	Tone	33-5101	22	MR39				.01		Buffer	B14							
810PA, 810PB, 810PV	Vol.	38-6605	75	MRT425		FS251	A67/ A51	30-2109	4	TCS71		38-5036	500P	C3	7	‡78, 6A7, ‡75, 41, 84	260	6-55,57
								.01		Buffer	B14							
811PA, 811PB, 811PV	Vol.	33-5139	75	SRP282			A67	30-2145	4	TCS71		41-3186	507P	C3	7	‡78, 6A7, ‡75, 41, 84	VAR	7-124, 126
								.01		Buffer	B14							
816, 816B	Vol.	33-5148	18	SRP282			A67	30-2145	4	TCS71		38-5036	500P	C3	6	‡78, 6A7, 75, 41, 84	260	7-127, 136
								.01		Buffer	B14							
817	Vol.	33-5148	18	SRP282			A67	30-2150	4	2S567		41-3170D	853	C3	6	‡78, 6A7, 75, 41, 84	260	7-128, 136
								.0075		Buffer	B14							
818, 818K	Vol.	33-5149	18	Order from	Mfr.			30-2150	4	2S567		41-3170D	853	C3	6	‡78, 6A7, 75, 41, 84	260	7-130, 136
	Tone	33-5150	22	Order from	Mfr.			.0075		Buffer	B14							
819, 819H	Vol.	33-5149	18	Order from	Mfr.			30-2152	23	2S567		41-3170D	853	C3	7	‡78, 6A7, 75, ‡41, 84	260	7-133, 136
	Tone	33-5150	22	Order from	Mfr.			30-2151	14	ST595								
								.0075		Buffer	B14							
821P	Vol.	33-5148	75	SRP282			A67	30-2150	4	2S567		41-3315-3	506P	C3	7	‡78, 6A7, ‡75, 41, 84	274	8-111, 114
								.006		Buffer	B14							
821PV	Vol.	33-5148	75	SRP282			A67	30-2150	4	2S567		41-3315-3	506P	C3	7	‡78, 6A7, ‡75, 41, 84	260	8-113, 114
								.006		Buffer	B14							
822-P	Vol.	67-0055	18	UM151			A96	61-0089	24/15	FP328		41-3300	506P	C3	7	‡78, 6A7, ‡75, 41, 84	260	14-119, 120
								.0075		Buffer	B14							
822-PV	Vol.	67-0033	18	UM151			A96	61-0089	24/15	FP328		41-3300	506P	C3	7	‡78, 6A7, ‡75, 41, 84	260	14-121, 122
								.0075		Buffer	B14							
826	Vol.	33-5148	18	SRP282			A67	30-2150	4	2S567		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-115, 118
								.0075		Buffer	B14							
827	Vol.	33-5148	18	SRP282			A67	30-2150	4	2S567		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-116, 119
								.0075		Buffer	B14							
827K	Vol.	33-5148	18	SRP282			A67	30-2150	4	2S567		41-3170	505P	C3	6	‡78, 6A7, 75, 41, 84	260	8-121, 122
								.0075		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
828	Vol.	33-5148	18	SRP282			A67	30-2150	4	2S567		41-3170	505P	C3	7	²78, 6A7, 75, ²41, 84	260	8-120, 124
								.006		Buffer	B14							
828K	Vol.	33-5148	18	SRP282			A67	30-2213	1/19	3S579		41-3170	505P	C3	7	²78, 6A7, 85, ²41, 84	260	8-123, 124
								.006		Buffer	B14							
901, 902	Vol.	33-5206	16	MR33				30-2203	1	2N509					4	²6K5G, 25A6G, 25Z6G		
								30-2198	15	TN111								
920	Vol.	33-5269	18	MR44	M26			30-2311S	23	2S567		41-3398	859	C3	5	6A7, 78, 75, 41, 84	260	9-26,27
								.0075		Buffer	B14							
921, 922 (Run No. 2)	Vol.	33-5278	18	UM154	M26		A96	30-2329	4	2S567		41-3398	859	C3	5	6A7, 78, 75, 41, 84	470	9-27,28
								.0075		Buffer	B14							
926	Vol.	33-5268	17	UM161-SS27	M26			30-2315	23	SR645		41-3170	505P	C3	6	²78, 6A7, 75, 41, 84	260	9-29,30
								.0075		Buffer	B14							
927	Vol.	33-5268	17	UM161-SS27	M26			30-2316	4	SR645		41-3170	505P	C3	7	²78, 6A7, 75, ²41, 84	260	9-31,32
								.0075		Buffer	B14							
928K	Vol.	33-5268	17	UM161-SS27	M26			30-2316	4	SR645		41-3170	505P	C3	7	²78, 6A7, 75, ²41, 84	260	9-30,33
								.0075		Buffer	B14							
931, 932	Vol.	67-0020	18	Order from	Mfr.			61-0068	24/15	FP328		83-0017	859	C3	6	²7B7, 7A8, 7C6, 7A5, 7Y4	455	11-81
								.015		Buffer	B14							
933	Vol.	67-0019	18	Order from	Mfr.			61-0028	24/15	FP328		83-0017	859	C3	6	²7A7, 7B8, 7B6, 7B5, 7Y4	470	11-83
								.003		Buffer	B14							
936	Vol.	33-5268	17	UM161-SS27	M26			61-0028	1/15	FP328		41-3398	859	C3	6	²7A7, 6A7, 75, 41, 7Y4	470	10-40
								.0075		Buffer	B14							
937	Vol.	33-5268	17	UM161-SS27	M26			61-0028	1/15	FP328		41-3398	859	C3	6	²7A7, 6A7, 75, 41, 7Y4	470	10-41
								.0075		Buffer	B14							
938K	Vol.	33-5268	17	UM161-SS27	M26			61-0028	1/15	FP328		41-3398	859	C3	7	²7A7, 6A7, 75, 7A4, 6U7G, 7Y4	470	10-43
								.0075		Buffer	B14							
2620	Vol.	33-5105	124	MRT440	M26		A58	30-2079	1	2N518					6	²78E, 6A7, 75, 42E, 80	460	8-149, 150
								30-2118	14	RS216								
PIERSON-DELANE PR15C, PR15M, PR15R, PR15UH, PR15X	Man. Vol.		7	MR28				16, 16	1	RS216					15	¹6K7, 6A8, 6K6G, 6H6, 6N7, 6L7, 6Q7, 6C5, 6J7, ²6V6G, 5X4G	465	9-1,4
	Vol.		76	MR48				8	13	BS213								
	Tone		76	MR48	M26			25	15	TC26								
	Noise		7	C1MP														
	Meter		?	C200P														
	Sen.		‡	C1MP														
PILGRIM D, DE (Above 428001)	Vol.		17	MR48				20-20	6	2N509					6	75, 6G5, 6A7, 6K7, 25Z5, 43	456	10-1
	Tone		22	MR39				5	15	TC22								
DA, DAE	Vol.		17	MR48				5	19	TC32					4	1C6, 1A4, 1B5, 30	456	9-1
	Tone		22	MR39														
DB, DF	Vol.		17	MR48				4-8	1	2N518		Z6	245C	C3	4	6D8G, 6S7G, 6Q6G, 38	456	9-1
	Tone		22	MR39	M26			5-5	15	TN111								
								.01		Buffer	B14							
G (707,001 and up)	Vol.		15	MR48				16-16-8-4	9/13	See Note	B3				8	6L7, 6D6, 6H6, 75, 25B5, 76, 6G5, 25Z5	456	10-2
	Tone		34	MR39				5	15	TC22								
GB, GBE (780,001 and up)	Vol.		15	MR48				8-8	1	2N516			245C	C3	5	6D8G, 6S7G, 6L5G, 6Q6G, 38	456	10-2
	Tone		22	MR39				5	15	TC22								
								.01		Buffer	B14							
GE (707,001 and up)	Vol.		15	MR48				16-16-8-4	9/13	See Note	B3				8	6L7, 6D6, 6H6, 75, 25B5, 76, 6G5, 25Z5	456	10-2
	Tone		34	MR39				5	15	TC22								
GF, GFE (780,001 and up)	Vol.		15	MR48				8-8	1	2N516			See Note	C8	5	6D8G, 6S7G, 6L5G, 6Q6G, 38	456	10-2
	Tone		22	MR39				5	15	TC22								
								.01		Buffer	B14							
GH, GHE (707,001 and up)	Vol.		15	UM154		See Note	A96	20-20	6	2N509					8	6D6, 6L7, 6H6, 6G5, 76, 75, 25B5, 25Z5	456	10-1
	Tone		34	MR39				5	15	TC22								
200	Vol.		6	MR29		EX3M		16-16	24	2N509					3	6K7, 6J7, 25A7G		10-3
210	Vol.		6	MR29			A14	8-8	24	2N516					4	6D6, 6C6, 38, 76		9-1
								5	15	TC22								
313, 314	Vol.		6	MR29			A14	16-16-8	8	2N509/TC42					4	6D6, 6C6, 43, 25Z5		9-2
623, 624, 643, 644	Vol.		18	MR44				8	1	ST595					5	6A7, 6D6, 75, 41, 80	465	10-3
								12	1	ST597								
								5	15	TC22								
713, 714, 753, 754	Vol.		18	MR44	M26			25	1	TC47					5	6A7, 6D6, 75, 43, 25Z5	465	9-2
								20	1	TC47								
								5	15	TC32								
860	Vol.		127	MR48				8, 8	4	RS213					8	²6K7, 6C5, 6F5, 6F6, 6E5, 80, 6J8G	460	10-4
	Sen.		7	D														
930	Vol.		50	MR44				20-20	24	2N509					2	76, 6A7		10-1
PILOT Dual Wave TRF Midget	Vol.		7	E				12-8	4	See Note	B3				5	²51, 24A, 47, 80		2-1
	Tone		34	MR39														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PILOT—Continued																		
Pilotone (Electric)	Vol.		4	D12											6	[3]26, 27		1-3
B1	Vol.	36-5	18	MR48	M26			24-40	25	[2]TCD55	B8				6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-1
T1	Vol.	36-5	18	MR48	M26			24-40	25	[2]TCD55	B8				6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-1
2	Vol.		6	MR24	M26			4-12-8	8	TN125					5	[2]77, 78, 43, 25Z5	‡	4-1
								6	15	TC22								
								5	15	TC22								
B2 Standard	Vol.		6	MR24	M26			4-8-12	6	TN125					5	[2]77, 78, 43, 25Z5	456	3-8
								5-5	15	TN111								
B2 (Late)	Vol.	36-5	18	MR48	M26			24-40	25	[2]TCD55	B8				6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-1
T2	Vol.	36-5	18	MR48	M26			24-40	25	[2]TCD55	B8				6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-1
D3	Vol.		6	MR18	M26			70871	8/15	3S582/TN111	B134				5	[2]77, 78, 43, 25Z5	456	4-1,3-9
4 Tube DC Super	Vol.		5	MR18		EX150		2	4	See Note	B3				4	[2]36, 37, 48	‡	4-3
								4	‡	TN111								
PE6SG	Vol.		72	MR33				3-3-3	3	See Note	B1				7	[2]24, [2]27, [2]71A, 80		1-5
7, 8 (Dragon AW)	Vol.		17	MR51				8-8	4	See Note	B3				8	[2]58, [2]57, 56, 2A6, 2A5, 5Z3	115	5-2,4
	Tone		34	MR39	M26			2-2	13/15	See Note	B3							
	Supp.		12	MR24				5-5	15	TN111								
L8 (8 Tube Dragon)	Vol.		17	MR51				8-8	23	See Note	B3				8	[2]58, [2]56, 57, 55, 2A5, 5Z3	115	5-1
	Tone		34	MR39	M26			2	13	See Note	B3							
	Sen.		6	H7		5		5-5	15	TN111								
10AC Dragon Super	Vol.		25	GG		EX100		8-8	4	See Note	B3				7	[2]58, [2]57, 56, 47, 80	115	4-2
11 Dragon DC	Vol.		6	G7											7	[2]36, 39, 37, [2]38	115	3-7
H11	Vol.		18	MR53	M27			4	12	TC52					4	1A7G, 1N5G, 1H5G, 1C5G	455	10-1
12	Vol.		18	MR48				8-8	23	See Note	B3				6	57, 58, 55, 56, 59, 82	115	4-4
	Tone		34	MR24				P22483	14	TC70								
	Sen.		5	MR18				5	15	TC32								
FM12 (Early)	Vol.	36-38	124	MRT448	M26			85-046	1	3S584	B8				13	[3]6AC7/1852, 6K8, 6SJ7, [3]6H6, 6SQ7, 6G5/6U5, [3]6L6G, 6C8G, 5U4G	AM 455 kc, FM 4.3 mc	13-2-4
	Tone	37-2A	‡	A550P				24-46	13	TC70								
								24-38	13	TC70								
								24-28	13	TC39								
FM12 (Late)	Vol, Tone	36-38, 37-2A	124, ‡	MRT448, A550P	M26			85-046, 24-46, 24-38, 24-28	1, 13, 13, 13	3S584, TC70, TC70, TC39	B8				13	[3]6AC7/1852, 6K8, 6SJ7, [3]6H6, 6G5/6U5, 6SQ7, [3]6L6G, 6C8G, 5U4G	AM 455 kc, FM 4.3 mc	13-1-4
H12	Vol.	83903	18	MR53	M27			23500H	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	10-1
F14 DC	Vol.		18	MR51				4-4	13	2N516					6	77, 78, 85, 37, [2]48	456	4-3
	Tone		22	MR18														
	Sen.		5	MR18														
20	Vol.		17	MR51				8-8	4	TCS71	B3				6	57, [2]58, 55, 2A5, 25Z5	115	4-4
	Tone		21	MR51				5	15	TC32								
	Sen.		7	H														
23, 25 (20 Series)	Vol.	78714	15	MR51				85007	4	[2]TC49					7	[3]6K7, 6A8, 6Q7, 25L6, 25Z6, 6G5	456	8-1,3
	Tone	78821	34	MR18	M26			85008	13	2N516								
								22481	15	TC22								
28DC	Vol.		18	MR51				2	4	2N516	B11				8	[2]39, 36, 85, [2]37, [2]48	115	4-5
	Tone		22	MR18	M26													
	Sen.		7	H7		5	A27											
31-81 (Rainbow Super)	Vol.		2	MR18				8-8	4	TCS71	B3				4	[2]57, 2A5, 82	115	4-6
								5	15	TC22								
TP31	Vol.	36-9	18	MRT448	M26			24-41	25	[2]TCD55	B8				6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-5
TP32	Vol.	36-9	124	MRT448	M26			24-41	25	[2]TCD55	B8				6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-2
33, 35 (30 Series)	Vol.	78845	15	MR51	M26			71045	1	RM262					5	6A8, 6K7, 6Q7, 6F6, 5Y3G	456	
	Tone	78846	34	MR39				72353	14	TC71								
								22481	15	TC22								
39 Series	Vol.		25	GG				8-8	4	See Note	B3				7	[2]24A, 27, [2]35, 47, 80	115	3-2
	Tone		34	MR33														
41 AC	Vol.	71656	7	E	6	2		71647	1	SR638					4	6A7, 6F7, 42, 80	456	6-1
41 Series DC Dragon	Vol.		6	MR18											7	[2]36, 37, 39, [2]38	115	3-1
	Tone		34	MR33														
X41	Vol.	71656	7	E	6	2		71647	1	SR638					4	6A7, 6F7, 42, 80	456	7-1
TD42	Vol.	36-9	18	MRT448	M26			24-41	25	[2]TCD55	B8				6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-6,7
TX42	Vol.	36-9	18	MRT448	M26			24-41	25	[2]TCD55	B8				6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-7
43 (with 47 output)	Vol.		6	D12		2		P22455	4	TC71					5	[2]58, 57, 47, 80		4-8
	Tone		34	MR39				4	4	TC71								
43, 45 (with 42 output)	Vol.		7	E	6	2		71647	1	SR638					4	6A7, 6F7, 42, 80	456	6-2
T43	Vol.	83529B	18	MRT436	M26			24-21	25	TC78					6	[2]12SK7, 12SA7, 12SQ7, 50L6GT, 35Z4GT	455	13-8
	Tone	79209D	22	MR18				24-15	25	TC77								
Y43, Y45	Vol.		7	E	6	2		8-4	1	RM262					4	6A7, 6F7, 42, 80	456	6-2,7-11

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PILOT—Continued																		
G41, G45 (G40 Series)	Vol.	79297	17	MR53				71203	12	RS213					5	1C7G, 1D5G, 1H6G, [2]1F5G	456	8-2,3
	Tone	78816	22	MR39				22481	20	TC22								
T44	Vol.	83529B	124	MRT436	M26			24-11	25	TC71					6	[2]6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G	455	12-3
	Tone	84642	22	MR33				24-3	25	TC71								
45 (Long Wave)	Vol.		7	E	6	2		8-4	1	RM262					4	6A7, 6F7, 42, 80	456	
T47	Vol.	36-1	17	MRT436	M26			24-32	1	*TCD55	B8				6	6SA7, 6SK7, 6SQ7, 25L6G, 6U5, 25Z6G	455	12-4
	Tone	37-1	22	MR39				24-14	15	TC29								
								24-6	15	TC22								
T-48	Vol.		18	MRT436	M26			32	1	TC77					7	6SA7, 6SK7, 6H6, 6U5, 6SF5, 6F6G, 5Y3G	455	13-9
	Tone		22	MR39				10	1	TC72								
								10	15	TC22								
X48, X49	Vol.	72262	7	A3MP	6	2		71600	‡	*TC40					4	6A7, 6F7, [2]43	456	8-4
	Tone	78537	22	MR18														
53	Vol.		17	MR51				8-8	1	2N518					5	6A7, 6D6, 75, 42, 80	115	5-6,7
	Tone		34	MR39	M26			5-5	15	TN111								
55 Captain Kidd Chest	Vol.		6	D12			A14	8-8	4	See Note	B3				5	[2]58, 57, 47, 80		3-10
	Tone		3	MR39														
55 (with 42 output)	Vol.		17	MR51				8-8	1	2N518					5	6A7, 6D6, 75, 42, 80	115	5-7,8
	Tone		34	MR39	M26			5-5	15	TN111								
G56, G57 (G50 Series)	Vol.	78647	17	MR51	M26			85020	1/13	3S584/TC70	B8	45A	245A	C3	5	[2]6D6, 6A7, 75, 41	456	8-5,6
	Tone	78648	34	MR39				22481	15	TC22								
								.006		Buffer	B14							
63	Vol.	70955	17	MR51				71106	1/13	[2]2N518	B3				6	[2]6D6, 6A7, 75, 42, 80	456	6-3,4
	Tone	70954	34	MR39	M26			70991	15	TN111								
X63, X65	Vol.	71913	17	MR51				71916	1/15	3S579					6	[2]6D6, 6A7, 75, 42, 80	456	6-5,6
	Tone	71911	34	MR39	M26			71915	13/15	2N518/TC22	B3							
H64	Vol.	83763	17	1 Meg.		See Note	A19	23600C	1/13	FP380			859	C3	7	[2]6S7G, 6K8, 6T7G, 6L5G, 1J6G, 6ZY5G	455	10-3
	Tone	83447C	44	UM110		See Note	A96	.01		Buffer	B14							
68 DC	Vol.		17	MR51				4-4-4	26	Order from	Mfr.				6	[2]6D6, 6A7, 75, [2]43	456	5-9
	Tone		34	MR18				5	15	TC22								
X68, X69 (DC)	Vol.	71913	17	MR51				4-4-4	26	Order from	Mfr.				6	[2]6D6, 6A7, 75, [2]43	456	6-7,8
	Tone	72138	22	MR18	M26			22481	15	TC22								
T71	Vol.	36-1	17	MRT436	M26			24-20	24	TC48					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 25Z6GT	455	13-10
								24-14	78	TC29								
								24-26	24	TC50								
73, 75	Vol.		15	NN				71203	12	RS213					7	[2]34, 1C6, 1A6, 30, 19	456	6-9
	Tone		44	MR39	M27													
X73, X75	Vol.	71913	15	MR51				71203	12	RS213					7	[2]34, 1C6, 1B5, 30, 19	456	6-11,12
	Tone	78629	44	MR39	M27													
81 (Dragon AW)	Vol.		17	MR51				8-8	4	See Note	B3				8	[2]58, [2]57, 56, 2A6, 2A5, 5Z3	115	5-2,4
	Tone		34	MR39	M26			2-2	13	See Note	B3							
	Supp.		12	MR24				5-5	15	TN111								
81 Rainbow	Vol.		2	MR18		EX200		8-8	4	See Note	B3				4	[2]57, 2A5 or 47, 80 or 82	482	3-9
								5	15	TC22								
84 (Dragon AW)	Vol.		17	MR51				8-8	4	See Note	B3				8	[2]58, [2]57, 56, 2A6, 2A5, 5Z3	115	5-2,4
	Tone		34	MR39	M26			2-2	13	See Note	B3							
	Supp.		12	MR24				5-5	15	TN111								
91	Vol.	83529B	124	MRT436	M26			23500MX	25	FP146	B117	84750	294	C3	5	7A8, 7B7, 7C6, 6G6G, 6ZY5G	455	12-5
								23500EX	25	FP145	B117							
								.006		Buffer	B14							
93 (AC-DC)	Vol.		17	MR51				70871	8/15	3S582/TN111	B134				5	6A7, 6D6, 75, 43, 25Z5	456	5-10,7-2
T101	Vol.	83529B	124	MRT436	M26			23500MX	25	FP146	B117				6	[2]12SK7,12SA7,12SQ7, 50L6GT, 35Z4GT	455	11-1
	Tone	79209D	22	MR18				23500EX	25	FP145	B117							
103, 105	Vol.	71211	17	MR51	M26			71045-B	1	RM262					5	6A7, 6D6, 75, 42, 80	456	6-13,14
								71215	13	TC71								
SG105	Vol.		12	MR44				‡	‡	See Note	B1				6	24,[2]27,[2]71, 80		
X105	Vol.	71211	17	MR51	M26			71045	1	RM262					5	6A7, 6D6, 75, 42, 80	456	8-7,8
	Tone	71615	22	MR38				72353	13	TC70								
K106	Vol.	942	12	MR44				‡	‡	See Note	B1				7	[2]24,[2]27, 71A, 80		
108, 109 (DC)	Vol.	71211	17	MR51	M26			71600	26	Order from	Mfr.				5	6A7, 6D6, 75, [2]43	456	6-10,7-2
	Tone	71634	34	MR18				22481	15	TC22								
K108	Vol.	350	4	E12				‡	‡	See Note	B1				7	[2]26,[2]27,[2]71, 80		
114, 115	Vol.	71566	15	MR51	M26			71589	41/13	3S579					11	[2]6D6, 6A7, [2]76, 85, 6C6,[2]42, 5Z3	456	6-15,16
	Sen.	71567	7	E				71588	41/14	2N518								
								71590	15	*TC32								
K117 "Twin Screen Grid 8"	Vol.		2	D12				2-3-3	3	See Note	B1				8	[2]24, 27,[2]45, 80		1-4
K121, K121X (Battery) Country Special	Vol.	940	12	MR33											6	[2]24,[2]01A,[2]12A		1-5
T121	Vol.	83529B	124	MRT436	M26			23500MX	25	FP146	B117				7	[2]12SK7,12SA7,12SQ7, 50L6GT, 6AB5, 35Z4GT	455	11-3,4
	Tone	79209D	22	MR19				23500EX	25	FP145	B117							
T122	Vol.	83529B	124	MRT436	M26			23500CX	25	ST597					7	[2]6SK7, 6SA7, 6SQ7, 6F6G, 6U5, 5Y3G	455	11-3,4
	Tone	84642	22	MR33				23500DX	25	TC71								
K122, K123,K124	Vol.	940	12	MR33				3-3-3	3	See Note	B1				7	[2]24A,[2]27,[2]71A, 80		1-5

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS							
	Use	Original Part*	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
PILOT—Continued																		
123	Vol.	70955	17	MR51				71676	1/24	UR182					6	[2]6D6, 6A7, 75, 43, 25Z5	456	6-17,18
	Tone	70954	34	MR39	M26			71675	15	TN111								
125	Vol.	70955	17	MR51				71676	6/13	UR182					6	[2]6D6, 6A7, 75, 43, 25Z5	456	7-3,4
	Tone	70954	34	MR39	M26			71675	15	TN111								
K126, K128	Vol.	940	12	MR39				3-3-3	3	See Note	B1				7	[3]24, 27, [3]45, 80		1-5
T131, T135	Vol.	36-2	18	MRT436	M26			24-32	1	[2]TCD55	B8				10	[2]6SK7, 6SA7, 6SQ7, 6SF5, 6U5, [3]25L6G, [2]25Z6G	455	13-11
								24-10	13	TC55								
								24-39	13	TC52								
								24-14	15	TC29								
X131	Vol.	36-2	18	MRT436	M26			24-32	1	[2]TCD55	B8				10	[2]6SK7, 6SA7, 6SQ7, 6SF5, 6U5, [3]25L6G, 25Z6G	455	13-12
								24-10	13	TC55								
								24-39	13	TC52								
								24-14	15	TC29								
T132	Vol.	36-2	18	MRT436	M26			24-36	1	TC77/TC72					9	[2]6SK7, 6SA7, 6H6, 6SF5, 6AF6G, 6F6G, 5Y3G	455	13-13
								24-3	13	TC71								
								24-6	15	TC22								
T133	Vol.	36-8	18	MRT436	M24			24-32	1	[2]TCD65	B8	84750	291	C3	9	[2]7B7, 7A8, 7C6, 7C7, 6AB5, [3]6G6G, 6ZY5G	455	13-14
	Tone	37-3	41	MR18				24-14	15	TC29								
								.005		Buffer	B14							
H134, 135 (Ch. H130)	Vol.	83529B	17	MRT436	M26			85039	1	FP238	B3				5	6K8, 6K7, 6Q7, 25L6G, 25Z6G	455	10-13
	Tone	83447B	34	MR39				10	15	TC22								
K136 AC Universal Wasp	Vol.	940	12	MR33			A58	4-2-2-1-1	‡	See Note	B1				6	[3]24, 27, [3]45, 80		2-2
140 Auto Set	Vol.	941	12	MR39											6	[3]24A, 27, 45		1-6
H141	Vol.	83625	88	MR48	M26			16	1	TC45					4	6D6, 6C6, 25L6G, 25Z5		10-14
								10	15	TC22								
S141 Universal	Vol.		12	MR33				2-2-4	3	See Note	B1				6	[3]24, [2]27, [3]45, 80		2-1
W145 Public Address System	Vol.		15	MR48				‡	3	See Note	B4				7	[3]27, [3]50, [3]81		1-1
S148	Vol.		7	D				12-8	4	See Note	B3				7	[3]51, 24, [3]27, 47, 80	175	3-5
	Tone		34	MR39														
TH150, H151 (Ch. H150)	Vol.	79429	18	MR48	M26			16	1	TC45					5	6A8, 6K7, 6Q7, 25L6G, 25Z6G	455	10-9
								30	1	TC47								
C151	Vol.		7	D				12-8	4	See Note	B3				7	[3]51, 24, [3]27, 47, 80	175	
	Tone		34	MR39														
C153, C154 (with 2-45s)	Vol.		23	MM				8-8-4	1/14	See Note	B3				10	[4]51, [3]27, [3]45, 80	175	2-3
	Tone		41	MR39														
C153, C154 (with 47s)	Vol.		23	MM				8-8-8-4	3/14	See Note	B3				10	[4]51, [3]27, [3]47, 80	175	2-4
	Tone		41	MR39														
153, 155, X153, X155	Vol.	72398	15	MR51	M27			71203	12	RS213					5	1C6, [3]34, 1B5, 33	456	7-5
Model AC Midget S155, S155A, S155B, S155F	Vol.		6	E12			A4	2-3-4-1	3	See Note	B1				6	[3]24, 27, 45, 80		3-3
	Vol.		12	MR33			A27											
	Tone		21	MR48			A4											
S156, S158 DC Midget	Vol.		11	MR33				6	‡	See Note	B11				6	[4]01A, [2]71A		3-4
AC Midget C157, C157A, C157B, C157F	Vol.		21	MR33				2-3-4-1	3	See Note	B1				6	[3]24A, 27, 45, 80		3-3
	Tone		21	MR48			A4											
C162	Vol.		7	D				12-8	4	See Note	B3				7	[3]51, 24, [3]27, 47, 80	175	3-5
	Tone		34	MR39														
G162, TG162, G163 (G160 Series)	Vol.	79540	18	MR44	M26			30-20	4	TCS47					5	6A7, 6D6, 75, 25L6, 25Z5	456	8-9,12
G162A, G162B, G163A, G163B	Vol.	79540	18	MR44	M26			85027	1	2N509					5	6A7, 6D6, 75, 43, 25Z5, Ballast Tube	456	8-10
S164	Vol.		7	D				12-8	4	See Note	B3				7	[3]51, 24, [3]27, 47, 80	175	3-5
	Tone		34	MR39														
C165	Vol.		7	D				12-8	4	See Note	B3				7	[3]51, 24, [3]27, 47, 80	175	3-5
	Tone		34	MR39														
171 Amplifier and Power Supply	Mic.			A400P				2-2-2	3	See Note	B1				4	27, [2]71A, 80		1-1
173	Vol.	36-10	18	MRT436	M26			24-32	1	[2]TCD55	B8				12	[2]6SK7, 6SA7, [2]6SQ7, 6U5, [2]25L6G, [2]25Z6G	455	13-15, 29
	Tone	37-5	44	MR18				24-8	13	TC44								
								24-17	13	TC48								
								24-14	15	TC29								
G174, G175 (G170 Series)	Vol.	78714	17	MR51				85007	4	[2]TC49					7	[3]6K7, 6A8, 6Q7, 25L6, 25Z6G, 6G5	456	
	Tone	78821	34	MR18	M26			85008	13	2N516								
								22481	15	TC22								
183	Vol.	71211	15	MR51	M26			71045	28	RM262					6	6A8, 6K7, 6H6, 6J7, 6F6, 5Z4	456	6-19,20
	Tone	71615	34	MR39				72168	28	TC71								
								22481	15	TC22								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PILOT—Continued																		
G184, PG184, TG184, G185 (G180 Series)	Vol.	78714	17	MR51				85007	4	[2]TC49					7	[2]6K7, 6A8, 6Q7, 25L6, 25Z6G, 6G5	456	8-11,12
	Tone	78821	34	MR18	M26			85008	13	2N516								
								22481	15	TC22								
185	Vol.	71211	15	MR51	M26			71045	28	RM262					6	6A8, 6K7, 6H6, 6J7, 6F6, 5Z4	456	6-19,20
	Tone	71615	34	MR39				72168	28	TC71								
								22481	15	TC22								
T186	Vol.	36-4	17	MRT448	M24			24-37	24	FP410	B220				6	[2]1N5GT, 1A7GT, 1H5GT, 1Q5GT, 25Z6GT	262	12-6
								24-30	78	TC29								
T187	Vol.	36-4	17	MRT448	M24			24-37	24	FP410	B220				6	[2]1N5GT, 1A7GT, 1H5GT, 1Q5GT, 25Z6GT	262	12-6
								24-30	78	TC29								
191	Vol.	83529B	17	MRT436	M26			23600B	1	FP238					12	6U5, [2]6SK7, 6SA7, [2]6SQ7, [2]25L6G, [2]25Z6G, Ballast	455	12-7
	Tone	84826	22	MR51				23500A	13	TC41								
								23500G	15	TC29								
								23500B	15	TC22								
V191, S.W. Conv.								4-4	1	See Note	B3				4	[2]24A, 27, 80		2-4
193, C193, 195 (190 Series)	Vol.	78845	17	MR51	M26			71045	1	RM262					5	6A8, 6K7, 6Q7, 6F6, 5W4 or 5Y3G	456	7-7,8
	Tone	78846	34	MR39				72353	13	TC71								
								22481	15	TC22	B10							8-13
193, 194 (Late)	Vol.	83529B	18	MRT436	M26			24-32	1	[2]TCD55	B8				13	[2]6SK7, 6SA7, [2]6SQ7, 6SF5, 6U5, [2]25L6G, [2]25Z6G	455	13-16
	Bass	84826	‡	MR51				24-8	13	TC44								
	Treble	30-192	‡	MR48				24-14	15	TC29								
								24-17	13	TC48								
								24-6	15	TC22								
D194	Vol.	83-529B	124	MRT436	M26			24-32	6	FP238					14	[2]6SK7, 6SA7, [2]6SQ7, [2]6U5, 6SC7, [2]25L6G, [2]25Z6G	455	12-9,10
	Treble	84826	‡	MR51				24-8	13	TC41								
	Bass	84826	‡	MR51				24-14	15	TC29								
	Mike	36-7	15	MR53				24-6	15	TC22								
	Mixer	36-6	‡	Order from	Mfr.													
FM200	Vol.	236-5	18			See Note A5		24-47	2	[2]TC65	B8				18	[2]6AC7/1852, [2]6SA7, [2]6J5, 6SK7, [2]6SJ7, [2]6H6, 6SQ7, [2]6L6, 6U5/6G5, 5U4G	AM 455 kc. FM 4.3 mc.	13-17-21
	Harm.	37-6	‡	MR41	M26			24-45	2	[2]TC92	B8							
								24-28	15	TC39								
VX201, WX201, X201	Vol.	79204	17	MR51	M26			85014	4	RS224					5	6A7, 6D6, 75, 25L6, 25Z5	456	9-1,2
	Tone	71615	22	MR39				85021	4/13	2N509								
								22481	15/19	TC22								
203, 205	Vol.	78697	17	MR55	M26			72382	1	2N509					5	6A8, 6D6, 75, 43, 25Z5	456	7-6
								78704	13	RS213								
								22481	15	TC22								
X203, BX203, UX203, WX203, X205	Vol.	79204	17	MR51	M26			85014	4	RS224					5	6A7, 6D6, 75, 25L6, 25Z5	456	
								85021	4/13	2N509								
								22481	15/19	TC22								
213	Vol.	72119	15	MR51				71045	1	RM262					7	[2]6K7, 6A8, 6H6, 6J7, 6F6, 5Z4	456	6-21,7-2
	Tone	72120	22	MR39	M26			72252	24	2N518								
								70971	15	TN111								
215	Vol.	72119	15	MR51				71045	1	RM262					7	[2]6K7, 6A8, 6H6, 6J7, 6F6, 5Z4	456	6-21,7-2
	Tone	72120	22	MR39	M26			72252	24	2N518								
								70971	15	TN111								
223	Vol.		17	MR51				16-12	1	2S569					6	[2]6D6, 6A7, 75, 43, 25Z6	456	8-14
	Tone		22	MR39	M26			4	13	TC70								
								10	15	TC22								
H224 (Ch. H220)	Vol.	83529	17	MRT436	M26			23600B	1	FP238					11	[2]6K7, 6K8, 6R7, 6U5, [2]25L6G, [2]25Z6G, 523	455	10-5
	Tone	79209B	44	MR39				23600A	24/13	FP367								
253, 255	Vol.	78647B	17	MR51	M26			78623	1/13	3S582		85X	Order from Mfr.		5	[2]6D6, 6A7, 75, 41	456	7-8,9
	Tone	78648B	34	MR39				22481	15	TC22		45	245	C18				
								.01		Buffer	B14	45A	245A	C19				
268, 269	Vol.	71913	17	MR51				85001	46	Order from	Mfr.				6	[2]6K7, 6A8, 6Q7, [2]25A6	456	
	Tone	72138	34	MR18	M26			22481	15	TC22								
G274	Vol.	78714	17	MR51				78594	1/13	TCD55/TC52					7	[2]6K7, 6A8, 6Q7, 25A6, 25Z6G, 6G5	456	
	Tone	78715	34	MR39	M26			85013	13	3S582								
								22481	15	TC22								
G274J	Vol.	78714	17	MR51				12-12-4	1/13	TCD55/TC52	B3				7	[2]6K7, 6A8, 6Q7, 25A6, 25Z6G, 6G5	456	
	Tone	78715	34	MR39	M26			34-4	1/13	TCD55/TC52	B8							
								22481	15	TC22								
G284	Vol.	78714	17	MR51				85007	4	[2]TC49					7	[2]6K7, 6A8, 6Q7, 25L6, 25Z6G, 6G5	456	9-3,4
	Tone	78821	34	MR18	M26			85023	13	3S582								
								22481	15	TC22								
293, 295, S295	Vol.	78714	17	MR53				85004	1	RS215					6	[2]6K7, 6A8, 6Q7, 6F6, 5W4	456	7-11,12
	Tone	78715	34	MR39	M26			85005	1	RS216								
								22481	15	TC22								
								72252	13	2N518								
300	Vol.	36-14	124	MRT438	M26			24-37	1	Order from	Mfr.				8	14Q7, 7B7, 14H7, [2]7C7, 7A6, 35A5, 35Y4	AM 455 kc. FM 5.4 mc.	13-22
	Tone	37-9	‡	MR48				24-28	15	TC39								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PILOT—Continued																		
304, 305 (300 Series)	Vol.	78669	17	MR55	M26			78689	1	2N514					11	[1]6K7, 6A8, 6R7, [4]25A6, [3]25Z6, 6E5	456	7-13,14
	Tone	78668	44	MR39				78688	13	[2]TN125								
								85002	15	TC32								
X304, X305 (X300 Series)	Vol.	78669	17	MR57	M26			85014	1	FP115					11	[1]6K7, 6A8, 6R7, [4]25A6, 6E5, [3]25Z6	456	8-16,17
	Tone	79209	44	MR18				78688	13	TN125								
								85002	15	TC29								
H324 (Ch. H320)	Vol.	83529A	17	MRT436	M26			H23600B	1	FP238					11	[1]6K7, 6K8, 6R7, 6U5, [4]25L6G, [3]25Z6G	455	10-5
	Tone	79209B	44	MR39				H23600A	24/13	FP367								
330	Vol.	36-15	18	MRT436	M26			24-32	1	[2]TCD55	B8				7	6SG7, 6J5GT, 6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	14-1,2
	Tone	36-15	22	MR39				24-28	15	TC39								
340	Vol.	36-13	18	MRT436	M26			24-32	1	[2]TCD55	B8				11	6SG7, 6SA7GT, 6J5, 6SK7GT, 6SF5GT, 6SQ7GT, [3]25L6GT, 6U5, [3]25Z6GT	455	13-23, 24
	Tone	37-8	22	MR39				24-39	13	TC52								
								24-14	15	TC29								
G352, VG352, WG352, G353	Vol.	79561	17	MR51	M26			85014	4	RS224					5	6A7, 6D6, 75, 25L6, 25Z5	456	9-2,5
								85021	4/13	2N509								
								22481	15/19	TC22								
364, 365 (360 Series)	Vol.	72203	‡	Order from	Mfr.			72195	1/20	RM265					12	[1]6K7, [1]6C5, 6L7, [1]6J7, 6E5, [1]6F6, 5Z4	456	7-15,16
	Tone	72202	44	MR39				72194	13/14	3S584/TC70								
	Clr'ty	72197	‡	20M		See Note A3												
H372, H373 (Ch. H370)	Vol.	79540	18	MR44	M26			23500E	1	2S569	B8				6	6K8, 6K7, 6Q7, 25L6G, 6U5, 25Z6G	455	10-7
								22481	15	TC22								
H384, H385 (Ch. H380)	Vol.	83529A	18	MRT436	M26			85042	1	FPD238	B117				7	[1]6K7, 6K8, 6Q7, 25L6G, 6U5, 25Z6G	455	10-17
	Tone	83447A	34	MR39				22481	15	TC22								
393, 395, S393	Vol.	78714	17	MR53				71045	1	RM262					7	[1]6K7, 6A8, 6Q7, 6G5, 6F6, 5W4	456	7-10,14
	Tone	78715	34	MR39	M26			22481	15	TC22								
								72252	24	2N518								
403, 405 (400 Series)	Vol.	78845	17	MR51	M26			71045-A	1	RM262					5	6A8, 6K7, 6Q7, 6F6, 5W4	456	9-6,8
	Tone	78846	34	MR39				72353	13	TC71								
423, 425 (420 Series)	Vol.	78986	17	MR51				71676	1/13	UR182					6	[1]6K7, 6A8, 6Q7, 25L6, 25Z6	456	9-7,8
	Tone	78987	34	MR39	M26			71675	15	TN111								
TP423, TP425 (TP420 Series)	Vol.	78986	17	MR51				85014-B	25	RS224					6	[1]6K7, 6A8, 6Q7, 25L6, 25Z6G	456	
	Tone	79070	34	MR24	M26			78688	25/13	TN125								
								22481	15	TC22								
H454, H455 (Ch. H450)	Vol.	83529C	17	MRT436	M26			85039	1	FP238	B117				5	6K8, 6K7, 6Q7, 25L6G, 25Z6G	455	10-10
	Tone	83447C	34	MR39				22481	15	TC22								
G462	Vol.	79540	18	MR44	M26			85026	4	TCS47					5	6A7, 6D6, 75, 25L6, 25Z5	456	
								85032	13	2N516								
G462A, G462B	Vol.	79540	18	MR44	M26			85207	1	3S582/TC52	B8				5	6A7, 6D6, 75, 43, 25Z5	456	
								85035	13	2N516								
								22481	15	TC22								
G463A, G463B	Vol.	79540	18	MR44	M26			85027	1	2N509					5	6A7, 6D6, 75, 43, 25Z5	456	
								22481	15	TC22								
H474, H475 (Ch. H470)	Vol.	83529B	17	MRT436	M26			85039	1	FP238	B117				6	6K8, 6K7, 6Q7, 25L6G, 25Z6G, 6U5	455	10-13
	Tone	83447B	34	MR39				10	15	TC22								
H484, H485 (Ch. 480)	Vol.	83529A	20	MRT436				85042	1	FP238	B117				7	[1]6K7, 6K8, 6Q7, 25L6G, 6U5, 25Z6G	455	10-17
	Tone	83447A	34	MR39				22481	15	TC22								
G508, G509	Vol.	79171	17	MR51				85030	‡	RS219					10	[1]6K7, 6L7, 6J7, 6B8, 6E5, 6Q7, [1]6V6G, 5U4G	456	
	Tone	79598	41	MR51	M26			85028	13/14	3S584/TC70								
								22481	15	TC22								
G523, TG528, G529, TG529	Vol.	79171	17	MR51	M26			85016	1	RS223					12	[1]6K7, [1]6L7, 6J7, 6H6, 6E5, 6Q7, [1]6L6, [3]5Z3	456	8-19,20
	Tone	79176	41	MR51				85019	13/14	3S584/TC70								
	Sen.	79178	7	M15MP				85018	1/13	3S584								
								22481	15	TC22								
H554, H555	Vol.	83529C	17	MRT436	M26			85024	1	3S584	B8				5	6K8, 6K7, 6Q7, 6F6G, 5Y3G	455	9-11,12
	Tone	83447C	34	MR39				22481	15	TC22								
BG562, BG563	Vol.	79158	17	MR51	M26			71045A	1	RM262					6	6A8G, 6K7G, 6H6G, 6J7G, 6F6G, 5Y3G	456	9-9,10
	Tone	79159	34	MR39				72353	14	TC71								
G562, G563	Vol.	79158	17	MR51	M26			71045-A	1	RM262					6	6A8G, 6K7G, 6H6G, 6J7G, 6F6G, 5Y3G	456	9-9,10
	Tone	79159	34	MR39				72353	14	TC71								
								22481	15	TC22								
G576, G577 (G570 Series)	Vol.	78714	17	MR53				85004	1	RS215					7	[1]6K7, 6A8, 6Q7, 6G5, 6F6, 5Y3G	456	8-23,30
	Tone	78715	34	MR39	M26			85005	1	RS216								
								72252	13	2N518								
								22481	15	TC22								
G584, G585 (G580 Series)	Vol.	79492	17	MR51	M26			85024	1	3S584					8	6A8G, 6K7G, 6Q7G, 6H6, 6E5, [1]6V6G, 5Y3G	456	8-21,22
	Tone	79493	44	MR33				85025	13	3S584/TC70								
								22481	15	TC22								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PILOT—Continued																		
H594, H597	Vol.	83364	17	MRT436				71045	3	RM262					9	6K8, ‡6K7, 6J7, 6H6, 6U5, 6Q7G, 6F6G, 5Y3G	455	9-15,16
	Tone	83366	34	MR39	M26			85018	3/13	3S584								
	Sen.	79178B	7	M15MP				22481	15	TC22								
623, 625	Vol.	78714	17	MR51	M26			78595	13	RS213					7	‡6K7, 6A8, 6Q7, 25A6, 6G5, 25Z6	456	8-24
	Tone	78715	22	MR39				78594	1/13	TCD55/TC52								
								71675	15	TN111								
S623, S623J	Vol.	78714	17	MR51				85012	1/13	2S569/TC70					7	‡6K7, 6A8, 6Q7, 25A6, 6G5, 25Z6	456	8-25
	Tone	78715	22	MR39	M26			85013	13	3S582								
								78594	1/13	TCD55/TC52								
								85010	1/13	TCD55/TC52	B8							
								22481	15	TC22								
TH650 (Ch. H650)	Vol.	79429	18	MR48	M26			23500D	1	TC71					5	6A8, 6K7, 6Q7, 6F6G, 5Y3G	455	10-16
H651 (Ch. H650)	Vol.	79429	18	MR48	M26			8	1	TC71					5	6A8, 6K7, 6Q7, 6F6G, 5Y3G	455	10-16
H664, H665	Vol.	83529B	17	MRT436	M26			85024	1	3S584	B8				6	6K8, 6K7, 6Q7G, 6F6G, 5Y3G, 6U5	455	9-13,17
	Tone	83447B	34	MR39				22481	15	TC22								
G674, G675	Vol.	78714	17	MR53				71045	1	RM262					7	‡6K7, 6A8, 6Q7, 6G5, 6F6, 5Y3G	456	
	Tone	78715	34	MR39	M26			72252	13	2N518								
								22481	15	TC22								
H710	Vol.	83364	20	MRT436				23600E	46	FP234					11	‡6K7, 6K8, 6J7, 6H6, 6R7, ‡6V6G, 5U4G, 6U5	455	10-19
	Tone	83871	41	MR51	M26			23600D	46/13	FP389								
	Sen.	83870	7	A2MP		See Note A68		23500B	20	TC22								
G752, TG752, G753 (G750 Series)	Vol.	13024	18	MR48				85022	1	2N518					5	6A7, 6D6, 75, 41, 80	456	8-26,27
								22481	19	TC22								
H762, H763 (Ch. H760)	Vol.	79429	18	MR48	M26			23500C	1	ST597					6	6K8, 6K7, 6Q7, 6F6G, 5Y3G, 6U5	455	10-21
								23500D	1	ST595								
								22481	15	TC22								
G774	Vol.	78714	17	MR53				71045-B	1	RM262					7	‡6K7, 6A8, 6Q7, 6G5, 6F6, 5Y3G	456	
	Tone	78715	34	MR39	M26			72252	13	2N518								
								22481	15	TC22								
G852	Vol.	79429	18	MR48	M26			85022	1	2N518					5	6A7, 6D6, 75, 41, 80	456	
								85031	13	2N518								
H874, H875 (Ch. H870)	Vol.	83529A	20	MRT436	M26			71045A	46	RM262					7	‡6K7, 6K8, 6Q7G, 6F6G, 6U5, 5Y3G	455	10-23
	Tone	83447A	34	MR39				85038	46/13	2N518								
								22481	15	TC22								
H974, H975 (Ch. H970)	Vol.	83529A	20	MRT436	M26			71045A	46	RM262					7	‡6K7, 6K8, 6Q7G, 6F6G, 6U5, 5Y3G	455	10-23
	Tone	83447A	34	MR39				85038	46/13	2N518								
								22481	15	TC22								
1010 All Wave Dragon	Vol.		6	MR18				8-8	4	See Note	B3				6	‡24A, 27, 35, 47, 80	115	3-6
T1151 (Early and Late)	Vol.	79429B	18	MR48	M26			23500J	1	TC48					5	6SA7, 6SK7, 6SQ7, 25L6G, 25Z6G	455	12-8
								23500J	25	TC48	B20							
														(Late)	5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-8
T1164	Vol.	83529E	18	MR53	M26			78689	1	2N513					5	6K8, 6SK7, 6SQ7, 25L6G, 25Z6G, Ballast Tube	455	12-11
								85035	13	2N516								
T1252	Vol.	79429B	18	MR48	M26			23500E	1	FP145	B117				5	6SA7, 6SK7, 6SQ7, 25L6G. 25Z6G, 81985	455	10-25
X1252	Vol.	79429B	18	MR48	M26			23500E	25	FP145	B117				5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT, Ballast	455	12-11
T1264	Vol.	83529D	127	MR53	M26			23500EX	25	FP145	B117				6	6SA7, 6SK7, 6SQ7, 25L6G, 6U5, 25Z6G	455	11-5
	Tone	83447D	22	MR39														
T1351	Vol.	84209	18	MR53	M26			23500J	1	TC48					5	1A7G, 1N5G, 1H5G, 1T5GT, 117Z6G	455	11-5
								23500G	78	TC29								
1424 (Phono) T1424 Series	Vol.	83529	18	MRT436	M26			23600B	6	FP238					12	‡6SK7, 6SA7, ‡6SQ7, 6U5, ‡25L6G, ‡25Z6G	455	13-6,26 27,29
	Tone	79209	44	MR18				23500A	13	TC45								
								23500B	15	TC22								
								23500JX	13	TC49								
								23500G	15	TC29								
X1451	Vol.	84105	18	MR55	M27			40, 40	1	TC48					7	‡1N5G, 1A7G, 1H5G, ‡1Q5GT, 117Z6G	262	13-28
T1452	Vol.	84105	17	MR55	M27			30	78	TC26								
								23500J	46	TC48					3	1A7G, 1N5G, 1H5G, 1C5G, 25Z6G	455	10-26
								23500B	20	TC22								
X1452, X1453	Vol.		18	MR55	M27			23500G	78	TC29								
								23500J	46	TC48					7	‡1N5G, 1A7G, 1H5G, ‡1Q5GT, 117Z6G	262	12-12
								23500G	78	TC29								
T1364, T1464 (Early)	Vol.	78714-B	18	UM161-SS1	M26			23500E	1	FP145	B117				10	‡12SK7,12SA7,‡12SQ7, 6AB5, ‡35L6GT, ‡35Z4GT	455	13-25, 26
	Tone	83447-E	44	UM140-SS1														
T1464	Vol.	78714B	18	UM161-SS1	M26			23500E	1	FP145	B117				10	‡12SK7,12SA7,‡12SQ7, 6AB5, ‡35L6GT, ‡35Z4GT	455	13-25, 26
	Tone	83447E	44	UM140-SS1														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PILOT—Continued																		
T1524 (Series)	Vol.	83529G	18	MRT436	M26			84045	3	‡TC82	B8				10	‡6SK7, 6SA7, 6H6, ‡6SF5, 6U5, ‡6V6G, 5U4G	455	13-30
	Tone	84638	44	MR51				84046	3	3S584	B8							
								23500D	13	TC71								
T1564	Vol.	83529D	127	MR53	M26			23500D	25	TC71					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y3G	455	12-12
	Tone	83447D	22	MR39				23500C	25	ST597								
X1584	Vol.	83529D	127	MR53	M26			23500E	1	FP145	B117				8	12SA7,12SK7,12SQ7, ‡50L6GT, 6U5, ‡35Z4GT	455	11-7
	Tone	83447D	22	MR39														
X1684	Vol.	83529D	18	MR53			A27	23500E	1	FP145	B117				8	12SA7,12SK7,12SQ7, ‡50L6GT, 6U5, ‡35Z4GT	455	11-7
	Tone	83447D	22	MR39														
T1854	Vol.	83529E	18	MR53	M26			85044	1	FP238	B117				5	6K8, 6SK7, 6SQ7, 6F6G, 5Y3G	455	11-7
								23500D	13	ST595								
								23500B	15	TC22								
2108, 2109	Vol.	71211	17	MR51	M26			85001	‡	Order from	Mfr.				5	6A7, 6D6, 75, ‡43	456	
	Tone	71634	34	MR18				22481	15	TC22								
2203, 2205	Vol.	78697	17	MR55	M26			78594	1/13	TCD55/TC52					5	6A7, 6D6, 75, 43, 25Z6	456	
								22481	15	TC22								
								78595	13	RS213								
M2203, M2205	Vol.	71211	17	MR51	M26			78594	1/13	TCD55/TC52					5	6A8, 6K7, 6Q7, 25A6, 25Z6	456	8-28
								22481	15	TC22								
X2253, X2255	Vol.	78647C	17	MR51	M26			85006	‡	Order from	Mfr.	F45	Order from	Mfr.	5	‡6D6, 6A7, 75, 41	456	8-29
	Tone	78648C	34	MR39				22481	15	TC22								
G5206, CG5206, TG5206, G5207 (G5200 Series)	Vol.	78647C	18	MR51	M26			85033	1/13	3S584		F45	Order from	Mfr.	5	‡6D6, 6A7, 75, 41	456	
	Tone	78648C	34	MR39				22481	‡	TC22								
								.006		Buffer	B14							
H6204 (Ch. H6200)	Vol.	83763	17	‡		See Note	A19	23600C	1/13	FP380			859	C3	7	‡6S7G, 6K8, 6T7G, 6L5G, 1J6G, 6ZY5G	455	10-27
	Tone	83447C	44	MR39				23500B	15	TC22								
								.01		Buffer	B14							
PONTIAC																		
4036	Vol.	1207607	17	UM154-SS3	M27			1207830	1	TC71		1207758	292	C3	7	‡36, 39, 85, ‡89, 84	262	4-1,4
	Tone	1207798	44	MR48				.015		Buffer	B14							
544245	Vol.	1209078	15	UM154-SS3		EB247		1209047	1/15	3S579		5037400	273C		4	6F7, 6A7, 6B7, 42	262	
544246	Vol.	1209078	127	UM154-SS3		EB247		1209144	1/15	2S569/TN111		5037400	273C		6	78, 6A7, 6F7, 85, ‡41	262	8-15
	Tone	1207798	44	MR48														
544267	Vol.	1209368	15	UM157-SS3				1209047	1/15	3S579		5037400	273C		4	6F7, 6A7, 6B7, 42	262	7-42
544268	Vol.	1209364	127	Order from	Mfr.			1209144	1/15	2S569/TN111		5037400	273C		6	78, 6A7, 6F7, 85, ‡41	262	7-42
	Tone	1207798	44	MR48														
544289	Vol.	1209540	15	UM162-SS12				1209531	1/15	TCD71/TC26		5039661	273C		4	6F7, 6A7, 6B7, 42	262	8-23
544290-1	Vol.	1209296	15	UM162-SS12				1209819	1	3S584	B8	5039661	273C		5	6F7, 6A7, 6B7, ‡42	262	9-59
	Tone	1209628	22	MR48														
980455	Vol.	1208157	17	UM154-SS3	M26			1207995	1/15	TCD71/TN111		5035120	222		5	‡78, 6F7, 75, 41	262	
980459	Vol.	1208157	18	UM154-SS3	M26			1208241	1	TCD71		5035120	222		6	‡78, 6F7, 85, ‡41	262	6-39,40
	Tone	1207798	44	MR48														
983506	Vol.	1210518	17	UM162-SS12				1210528	1/15	TCD71/TN111		5040700	273C		6	‡6D6, 6A7, 85, 76, 6E6	262	9-54
	Tone	1562122	22	MR48														
983507	Vol.	1210519	17	UM157-SS12				1210511	1/15	2N518/TC22		5040700	273C		5	‡6D6, 6A7, 75, 42	262	
	Tone	1210536	22	MR48														
983526	Vol.	1210545	20	TM224-SS12				1210548	1	2N518		5050673	852	C3	7	‡6U7G, 6A8G, 6V7G, 6J5G, 6N7G, 6X5G	‡	9-77
								1210549	15	TN111								
								.005		Buffer	B14							
983527	Vol.	1210545	17	TM224-SS12				1211580	1/15	3S579		5050673	852	C3	6	‡6U7G, 6A8G, 6Q7G, 6F6G, 6X5G	‡	9-79
								.005		Buffer	B14							
983534	Vol.	7230117	17	TM239-SS3				7230264	1	2N518		5050673	852	C3	6	‡6K7G, 6A8G, 6Q7G, 6N6G, 6X5G	262	9-81
	Tone	7230802	22	MR39			A105	.005		Buffer	B14							
983569	Vol.	1210545	17	TM224-SS12				1212274	1/14/15	3S584/TN111		5050673	852	C3	7	‡6U7G, 6A8G, 6R7G, 6J5G, 6N7G, 0Z4G	262	
								.005		Buffer	B14							
983570	Vol.	7232384	18	TM224-SS3				7232668	4	2S567		5050673	852	C3	6	‡6K7G, 6J7G, 6Q7G, 6F6G, 0Z4G	262	
								.01-.01		Buffer	B14							
983616	Vol.	7232384	18	TM224-SS3				7232668	4	2S567		5050673	852	C3	6	‡6K7G, 6J7G, 6Q7G, 6F6G, 0Z4G	262	
								.01-.01		Buffer	B14							
983617	Vol.	1210545	17	TM224-SS12				1212274	1/14/15	3S584/TN111		5050673	852	C3	7	‡6U7G, 6A8G, 6R7G, 6J5G, 6N7G, 0Z4G	262	
								.005		Buffer	B14							
983667	Vol.	1213425	20	Order from	Mfr.			1213459	1/15	FP332		5053183	249	C3	7	‡6K7, 6A8, 6R7, 6Z7G, ‡6V6G	260	
								.015-.015		Buffer	B14	M80783-4	249	C3				
983679	Vol. & Tone	7238529	17/‡	Order from	Mfr.			7238830	24/15	FP332		7238839	870	C3	7	7A7, 7B8, 7E7, 7F7, ‡7C5, 0Z4	260	
								.01-.01		Buffer	B14							
983680	Vol. & Tone	1213667	18/‡	Order from	Mfr.			1213665	46/15	FP424		1213671	870	C3	5	7A7, 7A8, 7B6, 7C5, 0Z4G	260	
								.004		Buffer	B14							
983705	Vol. & Tone	1214171	17/‡	Order from	Mfr.			1214202	24/15	FP339		1213446	249	C3	7	‡6SK7, 6SA7, 6SQ7, 6SF5, ‡6V6G	260	
								1214172	‡	TN111								
								.015-.015		Buffer	B14							
983775	Vol. & Tone	1214388	18/‡	Order from	Mfr.			1213665	24/13/15	FP424		1213671	870	C3	5	7A7, 7A8, 7B6, 7C5, 0Z4G	260	
								.004		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PONTIAC—Continued																		
983776	Vol. & Tone	7240703	17/‡	Order from	Mfr.			7238830 .006	24/15	FP332 Buffer	B14	7238839	870	C3	7	7A7, 7B8, 7E7, 7F7, [3]7C5, 0Z4	260	
983777	Vol. & Tone	1214496	17/‡	Order from	Mfr.			1214489 1214490 .015-.015	24/15 24/‡	FP332 FP329 Buffer	B69 B14	1214832	742	C3	7	6K7, 6SA7, 6SK7, 6SQ7, 6SF5, [3]6V6GT	260	
983910	Vol.	1214388	18	Order from	Mfr.			1213868 .004	24/15	FP328 Buffer	B14	8638	870	C3	5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 0Z4G	260	
983911	Vol.	7242017	17	Order from	Mfr.			7238830 .006	24/15	FP339 Buffer	B14	8639	870	C3	7	7A7, 7B8, 7E7, 7F7, [3]7C5, 0Z4	262	
983912	Vol.	1215806	17	Order from	Mfr.			1216122 .008	24/15	FP328 Buffer	B8 B14	8542	859	C3	8	6K7, 6SA7, 6SK7, [3]6SQ7, [3]6V6GT, 0Z4	260	
7232553	Vol.	7232384	18	TM224-SS3				7232668 .01-.01	4	2S567 Buffer	B14	5050673	852	C3	6	[3]6K7G, 6J7G, 6Q7G, 6F6G, 0Z4G	262	9-95
PORT-O-MATIC																		
18A, C, R (Ch. P-8)	Vol. Tone		18 22	MR48 MR48	M26			32-24 12 25	8 8 15	2N514 TC44 TC26					7	6A8G, 6K7, 6Q7G, 25L6G, 6E5, [3]25Z6G, BK23B	456	10-1
25A, C, R (Ch. P8LW)	Vol. Tone		18 22	MR48 MR48	M26			32-24 12 25	8 8 15	2N514 TC22 TC26					7	6A8G, 6K7G, 6Q7G, 25L6G, 6E5, [3]25Z6G, E5748	456	10-2
80A, F, C (Ch. P-8)	Vol. Tone		18 22	MR48 MR48	M26			32-24 12 25	8 8 15	2N514 TC44 TC26					7	6A8G, 6K7, 6Q7G, 25L6G, 6E5, [3]25Z6G, BK23B	456	10-1
210C, F, R (Ch. P-8)	Vol. Tone		18 22	MR48 MR48	M26			32-24 12 25	8 8 15	2N514 TC44 TC26					7	6A8G, 6K7, 6Q7G, 25L6G, 6E5, [3]25Z6G, BK23B	456	10-1
212C, F, R (Ch. P-8)	Vol. Tone		18 22	MR48 MR48	M26			32-24 12 25	8 8 15	2N514 TC44 TC26					7	6A8G, 6K7, 6Q7G, 25L6G, 6E5, [3]25Z6G, BK23B	456	10-1
250C, F, R (Ch. P8LW)	Vol. Tone		18 22	MR48 MR48	M26			32-24 12 25	8 8 15	2N514 TC44 TC26					7	6A8G, 6K7, 6Q7G, 25L6G, 6E5, [3]25Z6G, E5748	456	10-2
PRECISION																		
6 Tube A-W Super	Vol. Tone		18 22	MR48 MR24	M26			8-8	23	TCS71					6	6A7, [6]6D6, 75, 42, 80	465	6-1
8 Tube A-W	Vol. Tone		83 44	MR48 MR24				8-8	1	2N518					8	57, [3]58, 55, [3]2A5, 5Z3, 56	465	6-2
511	Vol.		18	MR48	M26			4-4	23	TCS71					5	6A7, 6D6, 75, 42, 80	465	6-3
PREMIER—See Airking																		
RADIOBAR																		
106 (6 tube)	Vol. Tone		15 22	MR48 MR33	M26			8-8	4	See Note	B3				6	2A7, [3]58, 55, 2A5, 80	262.5	
210 (10 tube with 46's)	Vol.		15	MR48	M26			4-8-4	3	See Note	B3				10	55, [3]56, 57, [3]58, [3]46, 82	262	4-2
210B (8 tube with 59's)	Vol. Tone Sen.		83 22 8	MR48 MR42 UC500	M26			8-8	1	See Note	B3				8	55, 56, 57, [3]58, [3]59, 5Z3	262	4-1
210B (10 tube with 59's)	Vol. Tone Sil.		15 22 ‡	MR48 MR42 ‡	M26	See Note A5		8-8 4	35 19	See Note TC52	B3				10	[3]57, [3]56, [3]58, 55, [3]59, 82	262	
210C (10 tube with 59's)	Vol. Tone Sil.		15 22 ‡	MR48 MR42 ‡	M26	See Note A5		8-8 4	35 19	See Note TC52	B3				10	55, [3]56, [3]57, [3]58, [3]59, 82	262	
505 (5 tube)	Vol. Tone		56 22	MR48 MR18	M26			4-8	23	See Note	B3				5	57, 58, 55, 2A5, 80	175	4-1
506 (6 tube)	Vol. Tone		15 22	MR48 MR33	M26			8-8	4	See Note	B3				6	2A7, [3]58, 55, 2A5, 80	262	4-1
508 (8 tube with 59's)	Vol. Tone Sen.		83 22 8	MR48 MR42 UC500	M26			8-8	1	See Note	B3				8	55, 56, 57, [3]58, [3]59, 5Z3	262	4-1
510 (10 tube with 46's)	Vol.		15	MR48	M26			4-8-4	3	See Note	B3				10	[3]58, 57, 55, [3]56, [3]46, 82	262	4-2
510 (10 tube with 59's)	Vol. Tone Sil.		15 22 ‡	MR48 MR42 ‡	M26	See Note A5		8-8 4	35 19	See Note TC52	B3				10	55, [3]56, [3]57, [3]58, [3]59, 82	262	4-2
526 (6 tube)	Vol. Tone		83 22	MR48 MR42	M26			8-8	4	See Note	B3				6	2A7, [3]58, 55, 2A5, 80	262.5	

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
RADIOBAR—Continued																		
528 (8 tube with 59's)	Vol.		15	MR48	M26			8-8	1	See Note	B3				8	55, 56, 57, ‡58, ‡59, 5Z3	262	4-1
	Tone		22	MR33														
	Sen.		‡	UC500														
RADIO CHASSIS, INC. (Marquette).																		
Auto Receiver	Vol.		18	UM154		See Note	A96	5	15	TC22					5	‡78, 6A7, 75, 41	175	4-1
A5D	Vol.		6	G7		3		16-8	6	2N509					5	‡78, 77, 43, 25Z5	175	4-2
								5-5	15	TN111								
A6D	Vol.		18	MR48				16-8	6	2N509					6	‡78, 6A7, 75, 43, 25Z5	175	4-3
								5-5	15	TN111								
AC25	Vol.		6	G7		3		8-8	4	See Note	B3				5	58, 57, 56, 47, 80		3-2
AC35	Vol.		8	G		3		8-8	4	See Note	B3				5	‡58, 57, 47, 80	175	3-4
AC36	Vol.		8	G		3		8-8	4	See Note	B3				6	‡58, 57, 56, 47, 80	175	3-4
L5D	Vol.		6	D		3		16-8	6	2N509					5	6A7, 78, 77, 43, 25Z5	456	4-4
	Tone		22	MR39				5-5	15	TN111								
L6D	Vol.		17	MR48				16-8	6	2N509					6	‡78, 6A7, 75, 43, 25Z5	115	4-5
								5-5	15	TN111								
L6W	Vol.		17	MR48				8-8	4	See Note	B3				6	‡58, 2A7, 2A6, 47, 80	125	4-6
								5	15	TC22								
LSA36	Vol.		8	G		3		8-8	4	See Note	B3				6	‡58, 57, 47, 80, 56	175	3-4
LSA37	Vol.		8	G		3		8-8	4	See Note	B3				7	‡58, ‡56, 47, 80	175	3-2
QAC35	Vol.		8	G		3		8-8	4	See Note	B3				5	‡58, 57, 47, 80		3-4
QAC36	Vol.		8	G		3		8-8	4	See Note	B3				6	‡58, 57, 56, 47, 80	175	3-4
SDC36	Vol.		8	G		2									6	‡39, 36, 37, ‡48		3-3
SMA24	Vol.		6	G7		3		8-8	4	See Note	B3				4	58, 57, 47, 80		3-1
SMA25	Vol.		6	D7		3		8-8	4	See Note	B3				5	58, 57, 56, 47, 80		3-2
RADIOCHRON—See Clago.																		
R. C. A.																		
9 Tube General Purpose A.W. (AVR-5A)	Vol.	K69461-1	19	TM221-SS1				6889	6	RS216					9	‡58, 2A7, 2B7, ‡56, 53, 80	445	5-165, 170
	Tone	6953	21	UC505	6			6609	6	RS216								
	Sen.	6892	6	MR28				6626	14/15	TC70/TN111								
RCA Short Wave Adapter	Vol.		26	MR28											3	24A, ‡27	1000	1-53,54
Premax P1 AC/DC	Vol.	67817-1	7	MR45	M26			3538	1	2N516					4	36, 37, 38, 39		4-1,2
								3536	15	TN111								
AVR-1	Vol.	K69461-1	19	TM221-SS1				6571	1	RS215					8	‡58, 2A7, 2B7, 56, 53, 80	445	4-70,76
	Tone	6627	21	MR53	M26			6609	1	RS216								
								6626	14/15	TC70/TN111								
HF1	Vol.	72357-36	20	MRT449				14531	1	RS223					9	6A8, 6K7, 6R7, ‡6J5, ‡6F6, 6U5, 5T4	455	9-1,4
								5212	1	RS216								
								30105	14	RS216								
QB1-Ch. RC-529A	Vol.	37833	18	MRT427	M26			32405	24	TC65		35543	249	C3	5	6SA7, 6S7, 6T7G, 6W7G, 6Z7G	455	14-1,2, 62
								86011-10	13	TC55								
								86011-13	24	TC77								
								.008		Buffer	B14							
1AX, 1AX2 (RC1003A)	Vol.	84701-30	18	MR48	M26		A106	36301	77	2N521					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-7
1X, 1X2 (RC1003)	Vol.	84701-30	18	MR48	M26		A106	36301	77	2N521					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-7
HF2	Vol.	K84394-5	20	MRT449	M26			86015-4	25	2S569					12	‡6K7, 6A8, 6J7, 6R7, 6U5, ‡6J5, ‡6F6, 5T4	455	9-4,10
	Tone	84304-3	22	Order from	Mfr.			80385-8	25/14	2S569								
QB2 (RC529)	Vol.		18	MRT430				10-10	12/13	FP211					6	1R5, ‡1N5GT, 1A5G, 1H5GT, 1G6G	455	12-3, 4,85
	Tone		44	MR33														
QU2, QU2C (RC507C), QU2M (RC507)	Vol.		18	MRT430	M26			10-10-10-20	1/13/15	FP424					6	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	12-5,6
	Tone		22	MR48														
QB3-Ch. RC-539D	Vol.	37897	17	MRT454	M26			86027-1	13	FP225					7	‡6S7, 6SA7, 6T7G, 6W7G, 6Z7G, 6N5	455	14-3,4, 5,15
	Tone	37926	22	MR53														
QU3C (RC507F), QU3M (9RC507H)	Vol.		18	MRT430	M26			10-10-10-20	1/13/15	FP424					6	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	12-02-04
	Tone		22	MR48														
R-3-B (Battery)	Vol.		9	MR41											6	‡34, 32, ‡30, 33	456	
R-3-C (200/230 V. D. C.)	Vol.		7	E				4-4	13/15	See Note	B156				6	‡39, ‡37, 89	460	
4T	Vol.	11663	6	F7	6T	3		11240	25	HD684					4	6A7, 6B7, 41, 1V	460	7-1,3
								5212	25	RS219								
4X, 4X3, 4X4	Vol.	72558-30	7	G	6	3		12844	50	‡TC44	B157				4	6A7, 6F7, 43, 25Z5	460	7-7,8
HF4	Vol.	K84394-5	20	MRT449	M26			86015-4	25	2S569	B8				12	‡6K7, 6A8, 6J7, 6R7, 6U5, ‡6J5, ‡6F6, 5T4	455	9-4,10
	Tone	84304-3	22	Order from	Mfr.			80385-8	25/14	2S569								
4QB (RC440)	Vol.	33780	18	MR53	M27			86038-5	12/13	FP211					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-1-3
4QB4 (RC440A)	Vol.	33780	18	MR53	M27			86038-5	12/13	FP211					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-3-6

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
R-4	Vol.	63750-1	7	SRP134		EX150		8839	4/14	3S584	B158				7	24A,[3]35, 47, 80,[3]27	175	2-1,3
	Tone	3234	21	MR33	M26													
T4-8	Vol.	6667	98	E	6			6661	1/15	2N518/2N509					4	6A7, 6F7, 41, 1V	460	6-73,75
								6832	13	TC52								
T4-8A	Vol.	-11663	6	F7	6T	3		11240	25	HD684					4	6A7, 6B7, 41, 1V	460	7-4,5
								11497	25	RS213								
T4-9	Vol.	6667	98	E	6			6661	1/15	2N518/2N509					4	6A7, 6F7, 41, 1V	460	6-73,75
								6832	13	TC52								
T4-9A	Vol.	11663	6	F7	6T	3		11240	25	HD684					4	6A7, 6B7, 41, 1V	460	7-4,5
								11497	25	RS213								
T4-10	Vol.	11263	7	MR45	M26	EX300		11268	1	2N516					4	6D6, 6C6, 38, 76		6-76,78
								7956	15	TN111								
5BT	Vol.	13214	18	MR44	M27			13295	12/13	2N516					5	1A6, 1A4, 1F6, 30, 19	460	8-1,3
5M Automobile	Vol.	72558-14	56	TM222-SS4				12234	1	RS213		12236	249	C3	5	6D6, 6A8, 6K7, 6B7,		
	Tone	72558-7	22	MR39		See Note A60		12238	1/15	TC71/TN111						42	260	7-9,13
								.01-.01		Buffer	B14							
5Q1 (Formerly 95FT)	Vol.	30575	18	MRT420				11203	1	HD684					5	6A8, 6K7, 6Q7G,		
	Tone	30574	22	MR53	M26T			5212	1	RS216						6F6G, 5Y3G	455	11-7
								30577	13/19	2N509								
5Q2 (RC325C)	Vol.	30575	18	MRT420				11203	1	HD684					5	6A8G, 6K7, 6Q7G,		
	Tone	30574	22	MR53	M26T			5212	1	RS216						6F6G, 5Y3G	455	11-9
								30577	13/19	2N509								
5Q2X (RC325D)	Vol.	30575	18	MRT420				14377	25	RS216					5	6K8, 6K7, 6Q7G,		
	Tone	30574	22	MR53	M26T			14773	25	RS216						25L6G, 25Z6G,		
								86027-2	13	FP225						Ballast	455	11-11
5Q4 (RC366)	Vol.	30575	18	MRT420				86018-13	1/15	FP332					5	6K8, 6K7, 6Q7G,		
	Tone	30574	22	MR53	M26T											6K6G, 5Y3G	455	11-13
5Q5, 5Q55, 5Q56	Vol.	32818	18	MR53	M26			86031-4	1/15	FP332					5	6SA7, 6K7, 6SQ7,		
																6F6G, 5Y3G	455	10-31,32
5Q6 (RC477A)	Vol.	84304-40	18	MRT443	M26			32851	1/15	FP306					5	6SA7, 6K7, 6SQ7,		
	Tone	34224	‡	MR44												25L6G, 25Z6G	455	11-17
5Q8 (RC396B)	Vol.	32818	18	MR53	M26			86033-2	1/15	FP346					5	6SA7, 6K7, 6SQ7,		
																25L6G, 25Z6G	455	11-19
5Q66	Vol.	84304-40	18	MRT443	M26			86045-3	77	FP409	B222				5	12SA7,12SK7,12SQ7,		11-123,
	Tone	34146	‡	MR48												50L6GT, 35Z5GT	455	124
5T	Vol.	72291-46	17	MRT454				11240	1	HD684					5	6A7, 6D6, 75, 42, 80	460	7-15,17
								5212	1	RS216								
5T1, 5T4, 5T5	Vol.	72558-44	17	MRT449				11240	1	HD684					5	6A7, 6D6, 75, 42, 80	460	8-5,14
								5212	1/13	RS216								
5T6, 5T7, 5T8	Vol.	72558-44	17	MRT449				11240	1	HD684					5	6A8, 6K7, 6Q7, 6F6,		
								5212	1	RS216						5W4	460	8-15,18
5U	Vol.	72558-44	17	MRT449				11240	25	HD684					5	6A7, 6D6, 75, 42, 80	460	9-11,16
								5212	25	RS216								
5X2	Vol.	72558-23	18	MR44	M26			12677	4	TCS44					5	6A7, 78, 75, 43, 12Z3	460	7-21,23
								12682	15	TC22								
5X, 5X3, 5X4	Vol.	72558-23	18	MR44	M26			12398	6/15	3N527					5	6A7, 78, 75, 43, 25Z5	460	7-18,20
5X5 (RC406)	Vol.	32578	75	MR44	M26			391244	1	2N514					5	12SA7, 12C8, 12SC7,		
																35L6GT, 35Z5GT	455	10-34,35
AVR-5A 9 Tube Gen. Purpose AW.	Vol.	K69461-1	19	TM221-SS1				6889	6	RS216					9	[3]58, 2A7, 2B7,[3]56, 53,		
	Tone	6953	21	UC505	6			6609	6	RS216						80	445	5-165,
	Sen.	6892	6	MR28				6626	14/15	TC71/TN111								170
Radiola P5	Vol.	36125	18	MR53				34472	76	FP304					5	1A7GT, 1N5GT,		
																1H5GT, 3Q5GT,		
																35Z5GT	455	12-8
QB5-Ch. RC-563A	Vol.	38406	18	MR53	M26			86041-17	12/13	2N509					4	1A7GT, 1N5GT,		
																1H5GT, 3Q5GT	455	14-6,7
QU5 (RC530)	Vol.		18	MRT430	M26			40	46	TC78					8	6SA7, 6SK7, 6SQ7,		
	Bass		‡	MR53				30-20	46	FP211						6AD7G, [3]6F6G,		12-9,
	Treble		22	MR48				100	19	TC2501						5U4G	455	10.83
R-5-AC Radiolette	Vol.	2959	2	MR24				2957	4	HD684					4	[3]24A, 47, 80		1-10,11
R-5 DC	Vol.		2	MR24											4	[3]36,[3]38		3-79
R-S-X AC Radiolette	Vol.	2959	2	MR24				2957	4	HD684					4	[3]24A, 47, 80		2-4,6
	Reg.	3067	7	MR28														
T-5 End Table Electrola	Vol.	7078	63	SRP152												No tubes used		
T-5-2	Vol.	72294-7	19	TM221-SS1	M26			7790	1	HD684					5	6A7, 6D6, 6B7, 41, 80	460	6-79,82
								4428	1	RS213								
								7589	13/14	TCD71								
								3796	15	TC32								
6BK	Vol.	72291-56	18	MR44				12804	12/13	2N509					6	1C6, 1A4, 1F6, 30,[3]49	460	7-29,32
6BK6	Vol.	72291-56	18	MR44				12804	12/13	2N509		12817	W245A	C3	6	1C6, 1A4, 1F6, 30,[3]49	460	7-29,32
								11387	12	HD684								
								.02-.02		Buffer	B14							
6BT	Vol.	72291-56	18	MR44				12804	12/13	2N509					6	1C6, 1A4, 1F6, 30,[3]49	460	7-29,32
6BT6	Vol.	72291-56	18	MR44				12804	12/13	2N509		12817	W245A	C3	6	1C6, 1A4, 1F6, 30,[3]49	460	7-29,32
								11387	12	HD684								
								.02-.02		Buffer	B14							
6K	Vol.	72558-44	150	MRT449				11240	1	HD684					6	6A8, 6K7, 6H6, 6F5,		
	Tone	12668	150	SRP288	6T			5212	1	RS216						6F6, 5Z4	460	7-37,40

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
6K2	Vol.	72558-44	150	MRT449				11240	1	HD684					6	6A8, 6K7, 6H6, 6F5,		
	Tone	12668	150	SRP288	6T			5212	1	RS216						6F6, 5Z4	460	7-41,43
								11387	14	HD684								
6K3	Vol.	72558-44	20	MRT449				11240	1	HD684					6	6A8, 6K7, 6H6, 6F5,		
								5212	1	RS216						6F6, 5W4	460	8-21,24
								11387	13	HD684								
6M and 6M2	Vol.	72558-6	17	TM239-SS4				12234	1	RS213		12236	249	C3	6	6D6, 6A8, 6K7, 85,		
	Tone	72558-7	22	MR39		See Note A60		12238	1/15	TC71/TN111						6C5, 6A6	260	7-24,28
								.01-.01		Buffer	B14							
6Q1 (RC441)	Vol.	84304-31	18	Order from	Mfr.			33014	1/13/15	FP424					6	‡6SK7, 6SA7, 6SQ7,		
																6F6G, 5Y3G	455	11-21-23
6Q4 (RC441A)	Vol.	84304-31	18	Order from	Mfr.			33014	1/13/15	FP424					6	‡6SK7, 6SA7, 6SQ7,		
																6F6G, 5Y3G	455	11-25,26
6Q4X (RC442)	Vol.	33951	18	Order from	Mfr.			86037-4	1/13/15	FP416					6	‡6SK7, 6SA7, 6SQ7,		
																25L6G, 25Z6G	455	11-27
6Q7	Vol. &																	
	Tone	32928	18/21	Order from	Mfr.			86031-4	1/15	FP332					6	6SA7, 6K7, 6SQ7,		
																6F6G, 5Y3G, 6U5	455	11-15,16
6Q8 (RC414B)	Vol.	32928	18/‡	Order from	Mfr.			86031-4	1/15	FP332					6	6SA7, 6K7, 6SQ7,		
																6F6G, 6U5, 5Y3G	455	11-33,34
6QU (RC414)	Vol.	33533	18/‡	Order from	Mfr.			86031-4	1/15	FP332					6	6SA7, 6K7, 6SQ7,		
																6F6G, 6U5/6G5,		
																5Y3G	455	12-12,13
6T	Vol.	72558-44	150	MRT449				11240	1	HD684					6	6A8, 6K7, 6H6, 6F5,		
	Tone	12668	150	SRP288	6T			5212	1	RS216						6F6, 5Z4	460	7-37,40
6T2	Vol.	72558-44	150	MRT449				11240	1	HD684					6	6A8, 6K7, 6H6, 6F5,		
	Tone	12668	150	SRP288	6T			5212	1	RS216						6F6, 5Z4	460	7-41,43
								11387	14	HD684								
6T5	Vol.	72558-44	17	MRT449				5212	25	RS216					6	6A7, 6D6, 75, 42,		
								11240	25	HD684						6G5, 80	460	8-25,27
6X2 (Ch. RC1013)	Vol.	36242	18	MR48	M26		A106	36301	77	2N521					5	12SA7,12SK7,12SQ7,		
																50L6GT, 35Z5GT	455	
BC6-4	Vol.	72291-56	18	MR44				11595	12	TC71					6	1C6, 34, 1B5, 30,‡49	460	6-87,90
BC6-6	Vol.	72291-56	18	MR44				11387	1	HD684		11656	245A	C3	6	1C6, 34, 75, 30,‡49	460	7-44,47
								6832	13	TC52								
								11645	15	TC22								
								.01-.01		Buffer	B14							
BT6-3	Vol.	72291-56	18	MR44				11595	12	TC71					6	1C6, 34, 1B5, 30,‡49	460	6-87,90
BT6-5	Vol.	72291-56	18	MR44				11387	1	HD684		11656	245A	C3	6	1C6, 34, 75, 30,‡49	460	7-44,47
								6832	13	TC52								
								11645	15	TC22								
								.01-.01		Buffer	B14							
BT6-10	Vol.	72291-56	18	MR44				11595	12	TC71					6	1C6, 34, 1B5, 30,‡49	460	6-87,90
C6-2	Vol.	72291-46	20	MRT454				11240	1	HD684					6	6A8, 6K7, 6H6, 6F5,		
								5212	1	RS216						6F6, 80	460	6-83,86
								11387	14	HD684								
C6-8	Vol.	72291-46	20	MRT454				11821	27/19	2S556/TC22					6	6A8, 6K7, 6H6, 6J7,		
								5212	13	RS216						25A6, 25Z6	460	7-48,52
C6-12	Vol.	76391-2	75	MR44	M26T			11240	25	HD684					6	6A8, 6K7, 6H6, 6F5,		
								5212	25	RS216						6F6, 5Z4	460	7-53,55
H-6 (Hudson)	Vol.	11406	17	UM147-SS6	M27			4961	1	RS213		5067	294	C3	6	‡6D6, 6A7, 6B7, 41, 84	260	7-33,36
								4958	1/15	3S579								
								.02-.02		Buffer	B14							
HF6	Vol.	84304-6	20	DTM291-SS1				14531	25	RS223					14	‡6K7, 6L7, ‡6J7, 6R7,		
								5212	25	RS216						6H6, 6U5. ‡6J5,		
								14377	14	RS216						‡6F6, 5T4	455	9-18,29
R-6	Vol.	63750-1	7	SRP134		EX150		8839	4/14	3S584	B158				7	‡35, 24A,‡27, 47, 80	175	2-1,3
	Tone	3234	21	MR33	M26													
T6-1	Vol.	72291-46	20	MRT454				11240	1	HD684					6	6A8, 6K7, 6H6, 6F5,		
								5212	1	RS216						6F6, 80	460	6-83,86
								11387	14	HD684								
T6-7	Vol.	72291-46	20	MRT454				11821	27/19	2S556/TC22					6	6A8, 6K7, 6H6, 6J7,		
								5212	13	RS216						25A6, 25Z6	460	7-48,52
T6-9	Vol.	72291-62	15	MR55				11240	1	HD684					6	6A8, 6K7, 6H6, 6F5,		
								5212	1	RS216						6F6, 80	460	6-91,94
								11387	13	HD684								
T6-11	Vol.	76391-2	75	MR44	M26T			11240	25	HD684					6	6A8, 6K7, 6H6, 6F5,		
								5212	25	RS216						6F6, 5Z4	460	7-53,55
7K, 7T	Vol.	72558-44	150	MRT449				11240	1	HD684					7	6L7, 6J7, 6K7, 6H6,		
	Tone	12668	150	SRP288	6T			5212	1	RS216						6F5, 6F6, 5Z4	460	7-56,60
7K1	Vol.	72558-44	20	MRT449				11240	1	HD684					7	6A8, 6K7, 6H6, 6F5,		
								5212	1	RS216						6F6, 6G5, 5W4	460	8-21,24
								11387	13	HD684								
7Q4 (RC478A)	Vol.	84701-8	18	TM220-SS2	M26			33014	1/13/15	FP424					7	‡6SK7, 6SA7, 6SQ7,		
																‡6F6G, 5Y3G, 6U5/		
																6G5	455	12-19
7Q4X (RC502)	Vol.	35187	18	MRT430	M26			86045-1	1/13	Order from	Mfr.				7	‡12SK7,12SA7,12SQ7,		
																50L6GT, 6N5,		
																35Z5GT	455	11-125
7QB, 7QBK																		
(RC496)	Vol.	31776	17	Order from	Mfr.			86027-1	13	FP211					7	‡6S7G, 6SA7, 6T7G,		
	Tone	31777	22	MR55	M26											6W7G, ‡6L5G	455	12-14-16

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
7QK4 (RC478B)	Vol.	84701-8	18	MRT420	M26			33014	1/13/15	FP424					7	[26]SK7, 6SA7, 6SQ7, [56]F6, 5Y3G, 6U5/6G5	455	12-19
7T1	Vol.	72558-44	20	MRT449				11240	1	HD684					7	6A8, 6K7, 6H6, 6F5, 6F6, 6G5, 5W4	460	8-21,24
								5212	1	RS216								
								11387	13	HD684								
7U	Vol.	72558-44	150	MRT449				11240	1	HD684					7	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4, 6E5	460	7-61,65
	Tone	12668	150	SRP288	6T			5212	1	RS216								
								11387	13	HD684								
7U2	Vol.	72558-44	150	MRT449				11240	1	HD684					7	6A8, 6K7, 6H6, 6G5, 6F5, 6F6, 5Z4	460	8-28,31
	Tone	12668	150	SRP288	6T			5212	1	RS216								
								11387	13	HD684								
7X	Vol.	62558-44	150	MRT449				12998	52	2S556/TC22					7	6L7, [36]J7, 6K7, 6H6, 25A6, 25Z6	460	8-32,34
	Tone	12668	150	SRP288	6T			5212	52	RS216								
BC7-9	Vol.	72291-70	45	MR44				11344	12	TC71					7	1C6,[34],[30], 32, 19	460	6-95,98
BT7-8	Vol.	72291-70	45	MR44				11344	12	TC71					7	1C6,[34],[30], 32, 19	460	6-95,98
C7-6	Vol.	72291-46	20	MRT454				11240	1	HD684					7	[26]K7, 6A8, 6H6, 6F5, 6F6, 80	460	7-67,70
								5212	1	RS216								
								11387	14	HD684								
C7-14	Vol.	72291-46	20	MRT454				11240	1	HD684					7	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4, 6E5	460	7-75,76
								5212	1	RS216								
								11387	14	HD684								
D7-7	Vol.	72291-46	20	MRT454				11240	1	HD684					7	[26]K7, 6A8, 6H6, 6F5, 6F6, 80	460	7-71,74
	Phono.	72291-68	63	Order from	Mfr.			5212	1	RS216								
								11387	14	HD684								
R7 Superette	Vol.	A369	7	SRP134				2957	4	HD684					8	[35], 24A, [27], [45], 80	175	1-12,13
	Tone	A370	41	MR48				3057	4	HD684								
R-7A (AC) Superette	Vol.	63750-1	7	SRP134				2957	4	HD684					8	[35], [27], [47], 80, 24	175	2-11,12
	Tone	3083	41	Y200MP	6													
R-7 Superette (DC)	Vol.	63750-1	7	SRP134											7	24A, [35], [45], [27]	175	2-8,10
	Tone	2996	41	MR48														
R7-LW	Vol.	3231	7	A5MP				2957	4	HD684					8	[35], 24A, [27], [45], 80	110	4-15,18
								3057	4	HD684								
T7-5	Vol.	72291-46	20	MRT454				11240	1	HD684					7	[26]K7, 6A8, 6H6, 6F5, 6F6, 80	460	7-67,70
								5212	1	RS216								
								11387	14	HD684								
T7-12	Vol.	72291-46	20	MRT454				11240	1	HD684					7	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4, 6E5	460	7-75,76
								5212	1	RS216								
								11387	14	HD684								
Victor 7-11 (Radiola 18)	Vol.		1	E12				1-1-.5	3	See Note	B1				7	[26], 27, 71A, 80		1-59
Victor 7-25 (Radiola 17)	Vol.		1	E12				‡	3	See Note	B1				7	[26], 27, 71A, 80		1-59
Victor 7-26 Electrola Radiola	Vol.		1	E12				1-1-.5	3	See Note	B1				7	[26], 27, 71A, 80		1-62
	Phono.		63	‡		See Note A61												
8A, B, C (Power Supply Units)																		
								11203	1	HD684						5Y3G		11-120
								14531	1	RS223								
8BK	Vol.	72291-56	18	MR44				12804	13	2N509					8	1A6, [1]A4, 1F6, 1B4, 30, [49]	460	8-35,39
	Tone	11219	41	MR48														
3BK6	Vol.	72291-56	18	MR44				12804	13	2N509		12817	W245A	C3	8	1A6, [1]A4, 1B4, 1F6, 30, [49]	460	8-35,39
	Tone	11219	41	MR48				11387	12	HD684								
								.02-.02		Buffer	B14							
8BT	Vol.	72291-56	18	MR44				12804	13	2N509					8	1A6, [1]A4, 1F6, 30, [49], 1B4	460	8-35,39
	Tone	11219	41	MR48														
8BT6	Vol.	72291-56	18	MR44				12804	13	2N509		12817	W245A	C3	8	1A6, [1]A4, 1B4, 1F6, 30, [49]	460	8-35,39
	Tone	11219	41	MR48				11387	12	HD684								
								.02-.02		Buffer	B14							
8K, 8T	Vol.	72558-44	150	MRT449				11240	1	HD684					8	6L7, 6J7, 6K7, 6H6, 6F5, 6F6, 5Z4, 6E5	460	7-56,60
	Tone	12668	150	SRP288	6T			5212	1	RS216								
8K11	Vol.	72558-44	20	MRT449				11240	1	HD684					8	[26]K7, 6A8, 6H6, 6F5, 6E5, 6F6, 5Z4	460	8-40,44
								5212	1	RS216								
8M	Vol.	30628	18	MR48	M26			80375-2	24/19	3S584		13688	859	C3	5	6A8G, 6K7G, 6Q7G, 6K6G, 6X5G	460	9-31,32
								.0075		Buffer	B14							
8M1	Vol.	72558-54	18	UM157-SS4				80392-6	1	2S567		13688	859	C3	6	6K7G, 6A8, 6K7, 6Q7G, 6K6G, 6X5G	260	9-33,36
								.0075		Buffer	B14							
8M2	Vol.	72558-14	18	TM222-SS4				80392-6	24	2S567		13688	859	C3	6	6K7G, 6A8, 6K7, 6Q7G, 6K6G, 6X5G	260	9-34,36
	Tone	72558-7	22	MR39				.0075		Buffer	B14							
8M3	Vol.	72558-58	17	TM239-SS4				30828	1	SR638		12236	249	C3	6	6K7G, 6A8, 6K7, 6R7G, 6J5, 6N7G	260	9-32,40
	Tone	72558-7	22	MR39				14902	15	TN111								
								.01-.01		Buffer	B14							
8M4	Vol.	72558-58	17	TM239-SS4				30828	1	SR638		12236	249	C3	6	6K7G, 6A8, 6K7, 6R7G, 6J5, 6N7G	260	9-37,40
								80372-18	15	TN111/TC22								
								.01-.01		Buffer	B14							
8Q1 (RC337)	Vol.	31450	17	MRT449			A59	5212	25	RS216					7	[36]K7, 6L7, 6Q7, 6F6G, 6U5, 6J7	455	11-31
	Tone	31807	22	MR53	M27													
8Q2 (RC443)	Vol.	84304-31	18	Order from	Mfr.			33014	1/13/15	FP424					8	6SK7, 6SA7, 6B8, 6SC7,[56]F6G, 5Y3G, 6U5/6G5	455	11-131, 134

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
8QB, 8QBK (RC336)	Vol.	31776	17	Order from	Mfr.			86015-3	13	3S584		M81657-6	728A		8	1/6S7G, 6D8G, 6T7G,		
	Tone	31777	22	MR53	M26			.02-.02		Buffer	B14					6J7, 6Z7G, 6L5G	455	11-129
8QU5C, 8QU5M (RC443B)	Vol.	84304-31	18	Order from	Mfr.			33014	1/13/15	FP424					8	6SK7, 6SA7, 6B8, 6SC7, 1/6F6G, 5Y3G, 6U5/6G5	455	
8T2, 8T11	Vol.	72558-44	20	MRT449				11240	1	HD684					8	1/6K7, 6A8, 6H6, 6F5,		
								5212	1	RS216						6E5, 6F6, 5Z4	460	8-40,44
8U	Vol.	72558-44	20	MRT449				11240	1	HD684					8	1/6K7, 6A8, 6H6, 6F5,		
	Phono.	72291-68	‡	Order from	Mfr.			5212	1	RS216						6F6, 5Z4, 6E5	460	8-45,51
8U2	Vol.	72558-44	20	MRT449				11387	14	HD684					8	1/6K7, 6A8, 6H6, 6E5,		
	Phono.	72291-68	63	Order from	Mfr.			11240	1	HD684						6F5, 6F6, 5Z4	460	8-53,58
C8-15, C8-17	Vol.	72291-46	20	MRT454				5212	1	RS216					8	1/6K7, 6L7, 6J7, 6H6,		
	Tone	72291-58	34	MR39				11387	13	HD684						6F5, 6F6, 5Z3	460	7-77,86
C8-19, C8-20	Vol.	72291-46	20	MRT454				11240	1	HD684					8	1/6K7, 6A8, 6H6, 6F5,		
								5212	1	RS216						6F6, 5Z4, 6E5	460	7-87,88
CV8 Pak-O-Power								11387	1	HD684								
								13046	12	RS213		14422	W245A	C3				8-52
D8-28	Vol.	72291-46	20	MRT454				.01-.01		Buffer	B14							
	Phono.	72291-58	‡	Order from	Mfr.			11240	1	HD684					8	1/6K7, 6A8, 6H6, 6F5,		
								5212	1	RS216						6F6, 6E5, 5Z4	460	7-89,92
HF8	Vol.	84304-6	20	DTM291-SS1				11387	14	HD684								
								11203	25	HD684					16	1/6K7, 6L7, 1/6J7, 1/6H6,		
								5212	25	RS216						1/6J5, 6U5, 1/6L6,		
								14377	14	RS216						1/5T4	455	9-21,29
PSU8E (Power Supply Units)								32047	12/19	3S579	B8	32050	Order from Mfr.			5W4		11-35,36
								32048	12	RS213								
								32045	‡	TC44								
R8 (AC)	Vol.	3092	99	SRP153				7342	4/13	See Note	B158				8	1/35, 24A, 1/27, 47, 80	175	2-13,15
	Tone	3234	21	MR33	M26													
R8 (DC) (230V.)	Vol.		7	SRP134											7	1/37, 1/39, 36, 1/71A	175	
	Tone		41	MR48														
T8-14, T8-16	Vol.	72291-46	20	MRT454				11240	1	HD684					8	1/6K7, 6L7, 6J7, 6H6,		
	Tone	72291-58	34	MR39				5212	1	RS216						6F5, 6F6, 5Z3	460	7-77,86
T8-18	Vol.	72291-46	20	MRT454				11248	14	RS213								
								11240	1	HD684					8	1/6K7, 6A8, 6H6, 6F5,		
								5212	1	RS216						6F6, 5Z4, 6E5	460	7-87,88
U8 (RC404A)	Vol.	33504	18	MR44	M26			11387	14	HD684								
								39124-1	1	2N509					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	10-36,37
9K	Vol.	12861	20	DTM295-SS1				12467	25	RS223					9	1/6K7, 6L7, 6H6, 6F5,		
	Tone	72558-21	34	MR39				5212	25	RS216						6F6, 6J7, 5Z4, 6E5	460	7-93,98
9K1	Vol.	13647	150	DTM295-SS1	M26T			12467	25	RS223					9	1/6K7, 6L7, 6J7, 6H6,		
	Tone	13649	150	SRP288				5212	25	RS216						6G5, 6F5, 6F6, 5Z4	460	8-59,66
9K2	Vol.	12861	20	DTM295-SS1				12467	30	RS223					9	1/6K7, 6L7, 6J7, 6H6,		
	Tone	72558-24	34	MR39				5212	30	RS216						6F5, 6L6, 6E5, 5Z4	460	7-99, 106
9K3	Vol.	12861	20	DTM295-SS1				12872	15	TC26								
	Tone	72558-21	34	MR39				12467	‡	RS223					9	1/6K7, 6L7, 6J7, 6H6,		
9M1	Vol.	31637	18	MR48	M26			5212	‡	RS216						6G5, 6F5, 6L6, 5Z4	460	8-60,62
9M2	Vol.	31638	18	MR44	M26			80392-8	24/15	3S579		13688	859	C3	5	6A8, 6K7, 6Q7, 6F6, 6X5	455	9-41,42
								.0075		Buffer	B14							
9Q1	Vol.	34667	75	MRT420	M26			80392-9	24	2S567		13688	859	C3	6	1/6K7, 6A8, 6Q7, 6F6, 6X5	455	9-43,44
	Tone	34666	22	Order from	Mfr.			.0075		Buffer	B14							
9Q4 (RC478)	Vol.	34389	17	MRT420	M26			33014	1/13/15	FP424					9	6SK7, 1/6SA7, 6B8, 6SC7, 1/6F6G, 6U5, 5Y3G	455	11-139
	Tone	90987-1	22	Order from	Mfr.			86039-6	1/19	FP444	B8				9	1/6SK7, 6SA7, 6SQ7, 6SF5, 1/6F6G, 6U5/6G5, 5U4G	455	11-142, 143
9QK	Vol.	34667	75	MRT420	M26			33014	1/13/15	FP424					9	6SK7, 1/6SA7, 6B8, 6SC7, 1/6F6G, 6U5, 5Y3G	455	11-139
	Tone	34666	22	Order from	Mfr.													
9SX1, 2, 3, 4, 5, 6, 7, 8	Vol.	32385	18	MR48	M26			32386	4	TCS45					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	10-38,39
9T	Vol.	12861	20	DTM295-SS1				12467	30	RS223					9	1/6K7, 6L7, 6J7, 6H6,		
	Tone	72558-24	34	MR39				5212	30	RS216						6F5, 6L6, 6E5, 5Z4	460	7-99, 106
9TX1, 2, 3, 4, 5	Vol.	32578	18	MR44	M26			12872	15	TC26								
	Vol.	32580	18	MR44	M26			39124-1	1	2N509					5	6A8, 6SK7, 6SQ7, 25L6, 25Z6	455	10-39,40
9TX21, 22, 23	Vol.	32578	18	MR44	M26			39124-1	1	2N509					5	6A8, 6SK7, 6SQ7, 25L6, 25Z6	455	10-41
9TX31, 32, 33	Vol.	32578	18	MR44	M26			39124-1	1	2N509					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z4GT	455	10-43
9TX50 (RC435)	Vol.	33291	18	MR44	M26			39124-1	1	2N509					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	10-44
9TX50, 9TX50M (Ch. RC454)	Vol.	33291	18	MR44	M26			39124-3	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-37

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
9U, 9U2	Vol.	12861	20	DTM295-SS1				12467	30	RS223					9	[2]6K7, 6L7, 6J7, 6H6, 6F5, 6E5, 6L6, 5Z4	460	8-67,78
	Tone	13468	34	Order from	Mfr.			5212	30	RS216								
	Phono.	13126	63	Order from	Mfr.			12872	15	TC26								
9X	Vol.	31322	6	MR33	M26T	EX200		86011-1	1	TC44					4	6K7, 6J7, 25L6, 25Z6		9-30
C9-4	Vol.	72291-46	20	MRT454				11240	1	HD684					9	[2]6K7, 6L7, 6J7, 6H6, 6F5, 6F6, 6E5, 5Z3	460	6-99,103
	Tone	72291-58	34	MR39				5212	1	RS216								
C9-6	Vol.	72291-46	20	MRT454				11240	1	HD684					9	[2]6K7, 6L7, 6J7, 6H6, 6F5, 6F6, 5Z3, 6E5	460	7-110, 114
	Tone	72291-58	34	MR39				5212	1	RS216								
								11248	14	RS213								
CRD9 (AC) Counter Demonstrator	Phono.	6384	16	TM221-SS1				10-4-10	4/17	See Note	B158				4	30,[3]47, 80		5-217
CRD9 (DC) Counter Demonstrator	Vol.	6384	16	TM221-SS1				6383	12/15	See Note	B160				3	37,[3]89		
D9-19	Vol.	72291-46	20	MRT454				11240	1	HD684					9	[2]6K7, 6L7, 6J7, 6H6, 6F5, 6F6, 5Z3, 6E5	460	7-123, 129
	Tone	72291-58	34	MR39				5212	1	RS216								
	Phono.	72291-68	‡	Order from	Mfr.			11248	14	RS213								
QB9 Ch. RC-529H	Vol.	38412	18	MRT427	M26			32405	12	TC65		35543	249	C3	5	6SA7, 6SS7, 6T7G, 6W7G, 6Y7G	455	14-13-15
								86011-10	13	TC55								
								86011-13	13	TC77								
								.008		Buffer	B14							
R9 (AC) Superette	Vol.		7	SRP134				2957	4	HD684					8	[3]35,[3]27, 24,[3]45, 80	175	1-12,13
	Tone		41	MR48				3057	4	HD684								
R9 (DC) Superette	Vol.	63750-1	7	SRP134											7	24A,[3]35,[3]27,[3]45	175	2-8,10
	Tone	2996	41	MR48														
T9-7, T9-8	Vol.	72291-46	20	MRT454				12055	25/13	2N509					9	[2]6K7, 6A8, 6H6, 6F5, [3]25A6, 6E5, 25Z6	460	7-115, 122
								12056	25/15	3S579								
T9-9	Vol.	72291-46	20	MRT454				11240	1	HD684					9	[2]6K7, 6L7, 6J7, 6H6, 6F5, 6F6, 5Z3, 6E5	460	7-110, 114
	Tone	72291-58	34	MR39				5212	1	RS216								
								11248	14	RS213								
T9-10	Vol.	72291-46	20	MRT454				11240	1	HD684					9	[2]6K7, 6L7, 6J7, 6H6, 6F5, 6F6, 6E5, 5Z4	460	7-107, 109
	Tone	72291-58	34	MR39				5212	1	RS216								
U9 (Ch. RC482B)	Vol.	34034	18	MR44	M26			86041-7	24	2N521					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	11-52
U9 (2nd Production) (Ch. RC482C)	Vol.	34034	18	MR44	M26			86041-7	77	2N521					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	11-147, 148
10A, B, C (Power Supply)								14531	1	RS223						5U4G		11-120
Victor 9-18	Vol.		59	A1MP					‡	See Note	B2				11	[3]27, 50,[3]81	180	1-64
	Sen.		1	D12														
	Phono.		63		‡		See Note A61											
Victor 9-54	Vol.		59	A1MP					‡	See Note	B2				11	[3]27, 50,[3]81	180	1-66
	Sen.		1	D12														
	Phono.		63		‡		See Note A61											
Victor 9-56 (Radiola 64)	Vol.		59	A1MP					‡	See Note	B2				11	[3]27,[3]81, 50	180	
	Sen.		1	D12														
	Phono.		63		‡		See Note A61											
10K, 10T	Vol.	12861	20	DTM295-SS1				12467	30	RS223					10	[2]6K7, 6L7, 6J7, 6H6, 6F5, 6L6, 5Z4, 6E5	460	7-130, 136
	Tone	72558-31	34	Order from	Mfr.			5212	30	RS216								
								12872	15	TC26								
								12873	15/13	TC26/TC52	B12							
10K1, 10T (2nd Prod.)	Vol.	12861	20	DTM295-SS1				12467	30	RS223					10	[2]6K7, 6L7, 6J7, 6H6, 6E5, 6F5, 6L6, 5Z4	460	8-79,82
	Tone	72558-31	34	Order from	Mfr.			5212	30	RS216								
10Q1 (RC377B)	Vol.	31450	75	MRT449				5212	1	RS216					9	[2]6K7, 6L7, 6B8, 79, [2]6F6G, 6U5, 6J7	455	11-39
	Tone	31807	22	MR53	M27			86015-2	13/19/15	TN125								
10X	Vol.	84779-1	18	MR48	M26		A106	35348	1	2N514					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-17,18
BP10 (RC544)	Vol.	94817-1	18	Order from	Mfr.			36718	12	TC44					4	1R5, 1T4, 1S5, 1S4	455	12-11
PSU 10E (Power Supply Unit)								32047	1/19	3S579	B8	32050	Order from Mfr.			5T4		11-35,36
								32045	18	TC44								
								32048	‡	RS213								
R10 (AC)	Vol.	3092	99	SRP153				7342	4/13	See Note	B158				8	[3]35, 24A, 47,[3]27, 80	175	2-16,17
	Tone	3234	21	MR33	M26													
R10 (DC)	Vol.	63750-1	7	SRP134											7	24,[3]35,[3]45,[3]27	175	7-15
	Tone	2996	41	MR48														
T10-1	Vol.	72291-49	20	DTM295-SS1				11203	25	HD684					10	[2]6K7, 6L7, 6H6,[2]6C5, [2]6F6, 6J7, 5Z3	460	6-104, 108
	Tone	11219	41	MR48				5212	25	RS216								
								11215	‡	See Note	B161							
T10-3	Vol.	72291-49	20	DTM295-SS1				11203	25	HD684					10	[2]6K7, 6L7, 6J7, 6H6, [2]6C5,[2]6F6, 5Z3	460	6-109, 114
	Tone	11219	41	MR48				5212	25	RS216								
								11215	‡	See Note	B161							
U10 (Ch. RC418B)	Vol.	84304-39	20	MRT438	M26			86031-14	1	FP231					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G	455	11-42
Victor SW10 Short Wave Adapter	Vol.		26	MR28			●								3	24,[3]27	1000	1-53,54
11QK (RC335C)	Vol.	31836	17	MRT449	M26			86015-4	25	ST598					11	[2]6K7, 6L7, 6Q7, 6F5, [2]6F6G, 6U5, 6J7, 5T4	455	11-43,44
	Fid.	84304-2	22	Order from	Mfr.			5212	25	RS216								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
11QU (RC335E)	Vol.	31836	17	MRT449	M26			86015-4	25	ST598					11	¹6K7, 6L7, 6Q7, 6F5, ²6F6G, 6U5, 6J7, 5T4	455	11-43,44
	Fid.	84304-2	22	Order from	Mfr.			86015-5	25	RS216								
11Q4	Vol.	31836	17	MRT449	M26			86015-4	25	ST598					11	¹6K7, 6L7, 6Q7, 6F5, ²6F6G, 6U5, 5T4, 6J7	455	11-43
	Fid.	84304-2	22	Order from	Mfr.			5212	25	RS216								
11X1 (Ch. RC1001A)	Vol.	84779-1	18	MR48	M26		A106	35348	1	2N514					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-20
C11-1, D11-2	Vol.	72291-49	20	DTM295-SS1				11203	25	HD684					11	¹6K7, 6L7, 6J7, 6H6, ²6C5,²6F6, 6E5, 5Z3	460	6-115, 120
	Tone	11219	41	MR48				5212	25	RS216								
								11215	...‡..	See Note	B161							7-137, 143
Q11, Ch. RC-563E, RC-563F	Vol.	38406	18	MR53	M26			38327	1/15	Order from	Mfr.				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-16, 17,20
R11 (AC)	Vol.	3092	99	SRP153				‡	26	See Note	B1				9	24,²27,²35,¹47, 80	175	2-18,20
	Tone	3093	41	Y200MP	6													
T11-8	Vol.	72291-49	20	DTM295-SS1				11203	25	HD684					11	¹6K7, 6L7, 6J7, 6H6, ²6C5,²6F6, 5Z3, 6E5	460	7-144, 148
	Tone	11219	41	MR48				5212	25	RS216								
								11215	...‡..	See Note	B161							
R12 (AC)	Vol.	3092	99	SRP153				7342	4/13	See Note	B158				8	24A,²35,²27, 47, 80	175	2-13,15
	Tone	3234	21	MR33	M26													
12AX (1st. Prod.) Ch. RC-1001C	Vol.	36584	18	MR48	M26		A106	36301	76	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-63
12AX, 12AX2 (RC1001C)	Vol.	84779-1	18	MR48	M26		A106	36301	77	2N521					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-21
12X, 12X2 (RC1001B)	Vol.	84779-1	18	MR48	M26		A106	36301	77	2N521					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-21
12QK (RC338)	Vol.	31848	17	DTM291-SS1				5212	25	RS216					11	¹6K7, 6L7, 6U5, 6R7, ²6F6, ²6J5, 6J7	455	11-47
12QU	Vol.	31848	17	DTM291-SS1				5212	25	RS216					11	¹6K7, 6L7, 6U5, 6R7, ²6F6, ²6J5, 6J7	455	11-47
12Q4 (RC338)	Vol.	31848	17	DTM291-SS1				5212	25	RS216					11	¹6K7, 6L7, 6R7, 6U5, ²6F6, ²6J5, 6J7	455	11-47
Q12 Ch. RC-563, RC-563B, RC-563C, RC-563D	Vol.	38406	18	MR53	M26			38327	15/77	Order from	Mfr.				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-18-20
U12 (Ch. RC425A)	Vol.	84304-39	20	MRT438	M26			86031-4	1/15	FP332					7	6SA7, 6SK7, 6SQ7, 6SF5,²6F6G, 5Y3G	455	11-53,54
13K	Vol.	72558-48	20	Order from	Mfr.			11203	25	HD684					13	¹6K7, 6L7, 6J7, 6H6, ²6C5, 6E5,²6L6,³5Z4	460	8-83,90
	Tone	13015	41	Order from	Mfr.			5212	25	RS216								
								12470	15	TC26								
C13-2	Vol	72291-49	20	DTM295-SS1				11203	25	HD684					13	¹6K7, 6L7, 6J7, 6H6, ²6C5,²6F6, 6E5, 5Z3	460	6-121, 127
	Tone	72291-48	41	UC505				5212	25	RS216								
								11204	...‡..	See Note	B162							
14AX (RC1001E)	Vol.	84779-1	18	MR48	M26		A106	36301	77	2N521					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-22,86
14BK (Ch. RC525B)	Vol.	36080	18	MR53	M27			33911	12	TC44					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	11-149, 150
14BT1, 14BT2, 14BK (RC525, 525A), (RC525B)	Vol.	36080	18	MR53	M27			33911	12	TC44					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	11-149; 150
14X (RC1001D)	Vol.	84779-1	18	MR48	M26		A106	36301	77	2N521					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-22,86
Q14, Q15 Ch. RC-566	Vol.	38406	18	MR53	M26			35761	77	TCD75					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	14-21-23
Q14E, Q15E Ch. RC-566B	Vol.	38406	18	MR53	M26			39195	1	TCD72					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	14-21-23
Victor R14	Vol.		2/12	DRP116				.1-2-1.5	26	See Note	B1				7	⁴24,³45, 80		3-19
	Tone		44	MR24														
15BP (Ch. RC527, 527A) Ser.	Vol.	36125	18	MR53				34472	76	FP304					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	12-23
								34965	78	TC26								
15BT (Ch. RC526)	Vol.	36080	18	MR53	M27			86041-17	12/13	2N509					5	²1N5GT, 1A7GT, 1H5GT, 3Q5GT	455	12-24
15K	Vol.	13014	20	Order from	Mfr.			11203	25	HD684					15	¹6K7, 6L7,²6H6,²6C5, ²6L6,³5Z4, 6E5	460	7-149, 155
	Fidelity	13015	41	Order from	Mfr.			5212	25	R8216								
	Tunlgt.	13016	...‡..	UM161-SS3				5212	13	RS216								
								12470	15	TC26								
								13025	15	TN111								

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
15U	Vol.	12861	20	DTM295-SS1				12467	28	RS223					15	[5]6K7, [5]6L7, 6J7, [5]6H6, [5]6C5, 6E5, [2]2A3, 5Z3	460	8-91, 140
	Fid.	13616	41	Order from	Mfr.			11240	28	HD684								
	Exp.	72558-10	15	MR55				11496	28	RS216								
	Exp. bias	12468	‡	Order from	Mfr.			5212	13	RS216								
								12740	15	TC26								
								12472	15	TC22								
								13610	14	TC62								
								13611	15	TC26								
15X (RC462)	Vol.	36242	18	MR48	M26		A106	36301	77	2N521					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-25, 26
15X, 36X, (2nd Prod.), Ch. RC-1011	Vol.	36242	18	MR48	M26T		A106	35348	1	2N513					6	12SG7, 12J5GT, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	14-23, 24
C15-3	Vol.	72291-45	100	TRP622				11203	1	HD684					15	[5]6K7, 6L7, 6J7, [5]6H6, [5]6C5, 6E5, [5]6F6, 5Z3	460	6-129, 134
	Tone	72291-48	41	UC505				5212	1	RS216								
								5213	13/14/19	3S584								
R15 Victor	Vol.	64000-1	2/12	DRP116				‡	Order	from Mfr.					7	[4]24A, [3]45, 80		1-14
VA15	Vol.	72357-40	50	MRT420														
16K (RC509C)	Vol.	35859	18	MRT420	M26			35858	1/15	FP339					6	[5]6SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	11-150-154
16T2, 16T3 (RC509B, RC509A)	Vol.	35859	18	MRT420	M26			35858	1/15	FP339					6	[5]6SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	11-150-153
16T4 (Ch. RC509)	Vol.	35859	127	MRT420	M26			35858	1/15	FP339					6	[5]6SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	11-55, 56
16X1, 16X2, 16X3	Vol.	36242	18	MR48	M26		A106	36301	77	2N521					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-25, 26
16X4 (Ch. RC462C)	Vol.	36242	18	MR48	M26		A106	36301	77	2N521					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-27
16X11 (Ch. RC1000)	Vol.	36242	18	MR48	M26		A106	36301	77	2N521					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-28
16X13 (Ch. RC1000A)	Vol.	36242	18	MR48	M26		A106	36301	77	2N521					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-28
16X14 (Ch. RC1000B)	Vol.	36242	18	MR48	M26		A106	36301	77	2N521					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-29
PT16-A1, PT16-A2	Vol.	4100	63	SRP152														5-219
Q16 Ch. RC-561	Vol.	37980	18	MRT454	M26			18975	77	FP228					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G	455	14-25, 26, 32
	Tone	37977	22	MR48														
RE16	Vol.		7	SRP134				2957	4	HD684					7	[3]35, [3]27, [3]45, 80	175	
	Tone		41	MR48				3057	4	HD684								
	Phono.	3100	63	SRP152														
RE16A	Vol.		7	SRP134				2957	4	HD684					8	[3]35, 24A, [3]27, [3]47, 80	175	4-19, 20
	Tone		41	Y200MP	6													
	Phono.		63	SRP152														
17K (Ch. RC512)	Vol.	36250	127	MRT449	M26			35858	1/15	FP339					7	[5]6SK7, 6SA7, 6H6, 6SF5, 6K6GT, 5Y3G	455	11-157-159
PT17-A1, PT17-A2	Vol.	4100	63	SRP152														5-222
PT17-B1, PT17-B2	Vol.	4715	‡	‡		See Note	A65											5-223
Q17 Ch. RC561A	Vol.	37980	18	MRT454	M26			35747	15/77	Order from	Mfr.				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-27, 28, 32
	Tone	37977	22	MR48														
Radiola 17	Vol.		1	E12				3.5-3.5	‡	See Note	B4				7	[4]26, 27, 71A, 80		1-15
R17M	Vol.	67817-1	7	MR45	M26			3538	1	2N516					4	36, 37, 38, 39		4-21, 22
								3536	15	TN111								
Victor RE17	Vol.		2/12	DRP116				‡	Order	from Mfr.					7	[4]24A, [3]45, 80		
	Phono.		63	SRP152														
18T (RC511)	Vol.	35807	124	MRT420	M26			33014	1/13/15	FP424					8	[5]6SK7, 6SA7, 6SQ7, 6SF5, [5]6K6GT, 5Y3G	455	
	Vol.	36250	124	MRT449	M26		A4											
RE18	Vol.	3092	99	SRP153				2-4	4	See Note	B1				9	24A, [3]27, [3]35, [3]47, 80	175	2-23, 25
	Tone	3093	41	Y200MP	6													
	Phono.	7391	63	SRP152														
RE18A	Vol.	3092	99	SRP153				10-4	4	TCS71	B169				9	24A, [3]27, [3]35, [3]47, 80	175	2-23, 27
	Tone	3093	41	Y200MP	6													
	Phono.	7391	63	SRP152														
Radiola 18 (AC)	Vol.		1	E12				1-1-5	3	See Note	B1				7	[4]26, 27, 71A, 80		1-16
Radiola 18 (DC)	Vol.		1	E12				4-2	‡	See Note	B11				6	[4]12A, 71A		1-16
R18W	Vol.	67817-1	7	MR45	M26			3338	9/14	2N516					4	78, 77, 38, 25Z5		4-23, 24
								6535	9	2S567								
								3536	15	[2]TC32								
19K (Ch. RC512A)	Vol.	35962	124	MRT449	M26		A19	35858	1/15	FP339					9	[5]6SK7, 6SA7, 6H6, [5]6SF5, [5]6F6G, 5Y3G	455	11-64-66
RE19 (AC) (AVC)	Vol.	3092	99	SRP153				10-4-4	4/13	See Note	B158				8	24A, [3]27, [3]35, 47, 80	175	2-28, 29
	Tone	3234	21	MR33	M26													
	Phono.		63	SRP152														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
Q20 (RC514)	Vol.	35764	18	MR53	M26			35761	77	2S569					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	11-167, 168
RE20 Electrola	Vol.	3142	13	MR33				2-3	4	TCS71	B169				10	[3]5, 24A, [3]27, [3]47, 80	175	2-30,33
	Tone	3143	101	MR48														
	Phono.	6225	63	SRP152														
U20 (Ch. RC498)	Vol.	84701-15	124	MRT449	M26			86031-4	1/15	FP332					7	6SA7, 6K7, 6SQ7, 6SF5, [3]6F6G, 5Y3G	455	11-55,56
Q21	Vol.	35764	18	MR53	M26			35761	77	2S569					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	
VA20	Vol.	32499	63	MR44	M26			86027-1	24	FP225					2	6A8, 25Z6G		
R21	Vol.	3092	99	SRP153				2-3	4	TCS71	B169				9	24A, [3]27, [3]35, [3]47, 80	175	2-34,36
	Tone	3093	41	Y200MP														
VA21	Vol.	32499	50	MR44	M26			86027-1	24	FP225					2	6A8, 25Z6G		12-38
Radiola 21, 22	Vol.	6049	12	MR33				‡	‡	See Note	B1				5	[3]22, [3]12A, 71A		1-18
D22-1				Radio Section				Radio Section										
	Vol.	72291-45	100	TRP622				11203	1	HD684					22	[4]6K7, [4]6L7, [4]6H6, [4]6C5, 6J7, 6E5, [4]2A3, [3]5Z3	460	6-135 to 6-149
	Tone	72291-48	41	UC505				5212	1	RS216								
				Phono Section				5213	13/14	3S584								
	Vol.	11877	‡	Order from	Mfr.			Dynamic Amp. Section										
	LF. Tone	11581	‡	MR44				11608	13/14	3S584								
	HF. Tone	11579	‡	MR39				Power Amp. Section										
	Exp.	11884	‡	MR53	M28			11497	43	RS213								
	Exp. Bias	11512	‡	Y8MP				11496	43	RS216								
								11498	15/19	TCS71	B165							
Osc. 22	Phono.	83404-44	50	MR44				39123-1	24	2N509					2	6SA7, 25Z6G, B86A		11-61
Q22 (RC507)	Vol.		18	MRT430	M26			10-10-10-20	1/13/15	FP424					6	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	12-31,32
	Tone		22	MR48														
R22	Vol.	6508	9	A5MP	6	2		6518	9	2N518					5	78, 6A7, 77, 43, 25Z5	175	4-25,26
								6511	9	TC52								
								6510	13/15	TCS52/TC22								
VA22	Phono.	72357-40	50	MRT420	M26													
Q23 Ch. RC-592	Vol.	38412	18	MRT427	M26			33014	1/13/15	FP424					5	6SA7, 6SK7, 6SQ7, 6AD7G, 5Y3G	455	14-29, 30,32
	Tone	38409	22	MR48														
QK23 (RC507B)	Vol.		18	MRT430	M26			10-10-10-20	1/13/15	FP424					6	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	12-31,32
	Tone		22	MR48														
RO23	Vol.	3092	99	SRP153				4-4-10	4/13	See Note	B158				10	[3]24A, [3]27, [3]35, 47, 80	175/1075	2-37,42
	Tone	3093	22	MR33	M26													
25 (DC) (220 V)	Vol.		7	SRP134											6	[3]37, [3]39, 89	175	5-56
24BT1, 24BT2 (Ch. RC1004F)	Vol.	36080	18	MR53	M27			38593	12	TC44					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	
Q24 (RC508)	Vol.		18	MRT430	M26			40-40-10-20	24/13/15	FP416					6	12SA7, 12SC7, 12C8, [3]50L6GT, 35Z5GT	455	12-33,34
	Tone		22	MR48														
25BK (Ch. RC1004B)	Vol.	36080	18	MR53	M27			38706	12/13/78	4S715					5	[3]1N5GT, 1A7GT, 1H5GT, 3Q5GT	455	
25BP (Ch. RC527D)	Vol.	36125	18	MR53				34472	76	FP304					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	
								34965	78	TC26								
25BP Ch. RC-1020	Vol.	36125	18	MR53				34472	76	FP304					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	14-69
								36718	78	TC22								
25BT2 (Ch. RC1004A)	Vol.	36080	18	MR53	M27			38705	13	TC47					5	[3]1N5GT, 1A7GT, 1H5GT, 3Q5GT	455	
25BT3 (Ch. RC1004B)	Vol.	36080	18	MR53	M27			38718	78	TC22								
25X	Vol.	35344	18	MR48	M26		A106	38706	12/13/78	4S715					5	[3]1N5GT, 1A7GT, 1H5GT, 3Q5GT	455	
Q25 (RC507A)	Vol.		18	MRT430	M26			36301	1	2N521					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-64,65
	Tone		22	MR48				10-10-10-20	1/13/15	FP424					6	6SA7, 6SK7, 6SQ7, 6AD7G, 5Y3G, 6F6G	455	12-31,32
U25 (Ch. 386B)	Vol. & Tone	K85479-2	17/22	SMD503				86018-4	1/19	3S579					8	6A8G, 6K7, 6Q7G, 6J5, [3]6K6G, 6U5, 5Y3G	455	11-58-60
								86011-3	14	TC70								
26BP Ch. RC-559	Vol.	38915	18	Order from	Mfr.			38910	24	FP371					6	[3]1T4, 1A7GT, 1S5, 3Q5GT, 117Z6GT	455	14-31,32
								38775	24/25	Order from	Mfr.							
26X1, 26X3 (Ch. RC1014), (Ch. RC1014A)	Vol.	38410	18	MR48	M26			36301	77	2N521					6	12SG7, 12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	
26X4 (Ch. RC1014B)	Vol.	38410	18	MR48	M26			36301	77	2N521					6	12SG7, 12SA7, 12SK7, 12SQ7, 35L6G, 35Z5GT	455	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
Q26 (RC507J)	Vol.		18	MRT430	M26			10-10-10-20.	1/13/15	FP424					7	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 6U5/6G5, 5Y3G	455	12-92-94
	Tone		22	MR48														
RAE26	Vol.	3092	99	SRP153				2-4	4	See Note	B1				9	[3]35, 24, [3]27, [3]47, 80	175	2-43,45
	Tone	3093	41	Y200MP														
	Phono.	3186	63	SRP152	6													
U26 (RC386B)	Vol.	K85479-2	17/22	SMD503				86018-4	1/19	3S579					8	6A8G, 6K7, 6Q7G, 6J5, [3]6K6G, 6U5, 5Y3G	455	12-92-94
								86011-3	14	TC70								
27K (Ch. RC567)	Vol.	38404	18	MRT454	M27			38571	1/15	FP332					7	[3]6SK7, 6SA7, [3]6SQ7, 6K6GT, 5Y3G	455	
								86011-3	13	TC70								
R27, R27 (REV.)	Vol.	67817-1	7	MR45	M26	EX300		3538	1	2N516					4	36, 37, 38, 39		4-27,28
								3536	15	[3]TC32								
28T (Ch. RC569)	Vol.	38404	17	MRT454	M27			33014	1/13/15	FP424					8	[3]6SK7, 6SA7, [3]6SQ7, [3]6K6GT, 5Y3G	455	
28X (Ch. RC1002)	Vol.	38404	124	MRT454	M27			39152	77	2N521/TC47	B8				8	6SG7, 6SA7, 6SK7, [3]6SQ7, [3]25L6GT, 25Z6GT	455	
	Tone	38409	95	MR48														
28X5 (Ch. RC1002A)	Vol.	38404	124	MRT454	M27			31952	77	2N521/TC47	B8				8	6SG7, 6SA7, 6SK7; [3]6SQ7, [3]25L6GT, 25Z6GT	455	
	Tone	38409	95	MR48														
R28, R28BW, R28BWC, R28P	Vol.	6465	7	A3MP	6	1		7590	1	HD684					5	58, 2A7, 57, 2A5, 80.	175	3-4,5-3
	Vol.	3588	7	D	6	1		7589	1/14	TCD71								4-29
CE29	Phono.		63	SRP152		See Note A3		10-10-4	26	See Note	B158				4	30, [3]47, 80		3-55,58
M30 Auto Radio	Vol.	6157	8	MR35		EX300		4	12	TC70					9	[3]36, [3]37, [3]12	175	2-46,58
Q30 Ch. RC-538B	Vol.	37051	18	Order from	Mfr.			33014	1/13/15	FP424					6	[3]6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G	455	14-33,
	Tone	37052	22	Order from	Mfr.													34,41
U30 (RC335KR)	Vol.	72357-44	20	MRT449			A59	86015-4	25	2S569	B8				10	6A8, 6J7, 6K7, 6H6, [3]6F5, [3]6F6G, 5U4G, 6U5	455	10-47-53
	Tone	72357-43	22	MR53	M26			80385-7	25	RS216								
P31 Portable	Vol.	6239	15	MR53				4	12	See Note	B1				8	[3]34, 32, [3]30		2-59,60
Q31 Ch. RC-538C	Vol.	37051	18	Order from	Mfr.			37892	77/13/15	Order from	Mfr.				6	[3]6S7, 12SA7, 12SQ7, 50L6GT, 35Z5GT	455	14-35, 36,41
M32 Auto Radio	Vol.	6363	16	MR55											6	37, [3]39, 85, 89		2-61,69
Victor R32	Vol.		102	DRP115				3-2.5-3	3	See Note	B1				10	[3]26, 27, [3]45, 80		1-26
	Phono.		63	A														
	Tone		41	MR53														
PT33 Portable Turn-Table	Phono.	7391	63	SRP152														
29K, 29K2 (Ch. RC570 and RC570C)	Vol.	38404	124	MRT454	M27			38571	1/15	FP332					9	6SG7, 6SA7, 6SK7, [3]6SQ7, [3]6K6GT, 5Y3G	455	
Q33 (RC539)	Vol.		124	MRT438	M26			10-10-10-20.	1/13/15	FP424					8	[3]6SK7, 6SA7, 6SQ7, 6AD7G, 6F6G, 6U5/6G5, 5Y3G	455	12-86-88
	Tone		22	MR53														
Radiola 33 (AC)	Vol.		1	E12				1-1	2	See Note	B166				7	[3]26, 27, 71A, 80		1-28
Radiola 33 (DC), (110 V)	Vol.		1	C12											7	[3]12A, [3]71A		1-28
34X Ch. RC-1001E	Vol.	36584	18	MR48	M26		A106	36301	1	2N521					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-65
M34	Vol.	K67967	‡	SRP251	6			7600	‡	See Note	B167	67954	271	C15	4	78, 6A7, 6B7, 89	175	3-9,14
								6492	13	Order from	Mfr.							
								6513	15	[3]TC32								
35X, Ch. RC-1001C	Vol.	36584	18	MR48	M26		A106	36301	1	2N521					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-37
Victor R35	Vol.		2/8	DRP250				2-2-2	3	See Note	B1				8	[3]24, 27, [3]45, 80		1-29,30
	Tone		22	MR55														
	Phono.		63	SRP152														
36X Ch. RC-462A	Vol.	36242	18	MR48	M26		A106	35348	1	2N520					6	[3]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-38
R37, R37P, R38, R38P	Vol.		19	MRT431				7590	1	HD684					6	[3]58, 2A7, 2B7, 2A5, 80	175	3-15,
	Tone		103	MR48	M26			6487	1/14/15	TCS61/2N509								4-31
R39	Vol.		2/8	DRP250				2-2-2	3	See Note	B1				8	[3]24A, 27, [3]45, 80		1-29,30
	Tone		22	MR55														
	Phono.		63	SRP152														
BT40	Vol.	33059	18	MR48	M27			32187	12	TC52					4	1A7G, 1N5G, 1H5G, 1C5G	455	
RE40, RE40P	Vol.	6465	7	A3MP	6	1		7590	1	HD684					5	58, 2A7, 57, 2A5, 80.	175	3-17,
	Phono.	6475	87	E12	8	See Note A66		7589	1/14	TCD71								4-33
40X30, 31 (Ch. RC405C, D)	Vol.	32578	18	MR44	M26			39124-1	1	2N509					5	12SA7,12SK7,12SQ7, 35L6GT, 35Z5GT	455	11-62
40X50 (Ch. RC436)	Vol.	32545	18	MR44	M26			39124-1	1	2N509					5	12SA7,12SK7,12SQ7, 35L6GT/50L6GT, 35Z5GT	455	11-63

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
40X52, 55 (Ch. RC453)	Vol.	32545	18	MR44	M26			39124-3	1	2N509					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	
U40 (Ch. RC498A)	Vol.	84701-15	18	MRT449	M26			86031-4	1/15	FP332					7	6SA7, 6K7, 6SQ7, 6SF5, ‡6F6G/ 6K6G, 5Y3G	455	11-55,56
Radiola 41 (AC)	Vol.		1	E12				2-2	1	See Note	B1				7	‡26, 27, 10, 80		1-32
Radiola 41 (DC)	Vol.		1	E12											10	‡12A, ‡71A		1-31
BK41 (Ch. RC449)	Vol.	34557	18	MR44	M27			86011-4	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5GT	455	
BT41 (Ch. RC449)	Vol.	72357-33	18	MR44	M27			86011-4	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5GT	455	
BT42 (Ch. 408A)	Vol.	34120	18	MR53	M27			86041-14	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-65
CV42 Electrifier								38701	24/78	FP309						35Z5GT, Ballast		
U42 (Ch. RC498B)	Vol.	84701-15	18	MRT449	M26			86031-4	1/15	FP332					8	6SA7, 6SQ7, 6K7, 6SF5, ‡6F6G/ 6K6G, 5Y3G, 6U5	455	11-57
Radiola 42	Vol.		2/12	DRP116				2-1	26	See Note	B1				7	‡24A, ‡45, 80		1-34
	Tone		44	MR24														
U43 (RC498E)	Vol.	84701-15	124	MRT449	M26			86031-4	1/15	FP332					8	6SA7, 6K7, 6SQ7, 6SF5, ‡6K6GT, 5Y3G, 6G5/6U5	455	
R43	Vol.		54	MR33				2957	12	HD684					8	‡32, ‡30	175	1-33
	Tone		41	MR33														
Q44 (Ch. RC531)	Vol.		124	MRT440	M26			40-100	25/19	Order from	Mfr.				12	‡6SK7, ‡6SA7, 6AD7G, 6B8G, 6R7, 6F6G, 6U5/6G5, 5U4G	455	12-89,91
								30-20-5	25/13	FP371								
U44 (Ch. RC486B)	Vol.	84701-5	17	Order from	Mfr.			34533	1/19	FP339					10	‡6SK7, 6SA7, 6H6, ‡6SF5, ‡6F6, 6U5, 5U4G	455	11-69,70
								86011-1	14	TC55								
Radiola 44 (AC)	Vol.		12	A3MP				2-2-2	3	See Note	B1				5	‡24, 45, 80		1-35,36
45E (Ch. RC435A)	Vol.	33291	18	MR44	M26			39124-4	24	2N514					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	11-72
								86041-14	13	TC42								
45X1, 45X2 (Ch. RC457)	Vol.	35113	18	MR44	M26			39124-1	1	2N509					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	
45X3, 45X4 (Ch. RC457E)	Vol.	84701-37	18	MR44	M26T		A106	39124-1	1	2N509					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	
45X5, 45X6 (Ch. RC457D)	Vol.	35113	18	MR44	M26			39124-1	1	2N509					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	
45X11, 45X12 (Ch. RC459), 45X13 (Ch RC459A)	Vol.	35057	18	MR48	M26T			39124-1	1	2N509					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	
45X16, 45X17 (Ch. RC459M)	Vol.	84701-30	18	MR48	M26T		A106	35348	1	2N514					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	
45X18 (Ch. RC541C)	Vol.	35728	18	MR48	M26		A106	35348	1	2N514					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-35
45X111, 45X112 (RC459J)	Vol.	84701-30	18	MR48	M26T		A106	35348	1	2N514					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	
45X113 (RC459K)	Vol.	84701-30	18	MR48	M26T		A106	35348	1	2N514					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	
Victor RE45	Vol.		102	DRP115				3-2.5-3	3	See Note	B1				10	‡26, 27, ‡45, 80		1-26
	Phono.		63	A														
U45 (RC486C)	Vol.	84701-5	20	Order from	Mfr.			34533	1/19	FP339					10	‡6SK7, 6SA7, 6H6, ‡6SF5, ‡6F6G, 6U5/ 6G5, 5U4G	455	
								86011-1	14	TC44								
46X1, 46X2 (Ch. RC459B), 46X3 (Ch. RC459C)	Vol.	35057	18	MR48	M26			35064	1	2N509					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-36
46X11, 46X12 (Ch. RC456), 46X13 (Ch. RC456A)	Vol.	84701-21	18	MRT425	M26			39124-1	1	2N509					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	
46X21 (RC461A)	Vol.	84701-21	18	MRT425	M26			35673	77	2N521					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	
46X23 (RC461B)	Vol.	84701-21	18	MRT425	M26			35673	77	2N521					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	
46X24 (RC461)	Vol.	84701-21	18	MRT425	M26			35673	77	2N521					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
U46 (Ch. RC501)	Vol.	84701-22	20	DTM291-SS1	M26			86042-5	25/19	Order from	Mfr.				13	[2]6SK7, 6SA7, 6H6, [3]6SF5, [4]6F6G, [5]5U4G, 6U5/6G5	455	
								35017	25/14	FP228								
Radiola 46 (AC)	Vol.		12	A3MP				2-2-2	3	See Note	B1				5	[2]24A, 45, 80		1-36
Radiola 46 (DC)	Vol.		12	Order from	Mfr.										6	[2]22, [3]12A, [7]71A		1-35
Radiola 47	Vol.		12	SRP142				2-2-2	3	See Note	B1				5	[2]24A, 45, 80		1-37
	Phono.		63	SRP152														
48 Radiola	Vol.		2/12	DRP116				1-2	4	See Note	B1				7	[4]24A, [3]45, 80		1-38, 2-70
B50 Ch. RC-1004H	Vol.	36080	18	MR53	M27			38593	12	TC44					4	1A7GT, [1]1N5GT, 3Q5GT	455	13-39
K50 (Ch. RC418A)	Vol.	84304-39	20	MRT438	M26			86031-14	1	FP231					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G	455	11-87,88
K50 (Ch. RC497)	Vol.	34796	124	MRT449	M26			86031-4	1/15	FP332					5	6SA7, 6K7, 6SQ7, 6F6G, 5Y3G	455	
M50 (Ch. RC357J)	Vol.	31637	18	MR48	M26			86031-4	24/15	FP332		13688	859	C3	5	6A8, 6K7, 6Q7, 6K6GT, 0Z4G	455	10-55
								.0075		Buffer	B14							
O50	Vol.	84304-30	50	MRT420	M26T			33214	1/15	FP426					3	6SF5, 6F6G, 5Y3G		
R50	Vol.		13	MR33				4-4	4	See Note	B1				10	[1]35, [2]24A, 27, [3]47, 80	175	2-71,72
	Tone		101	MR48														
Radiola 50	Vol.		1	E12				3.5-3.5	‡	See Note	B4				7	[6]26, 27, 71, 80		1-15
U50 (RC414C)	Vol.	33409	18/22	SMD510				86031-4	1/15	FP332					5	6SA7, 6K7, 6SQ7, 6F6G, 5Y3G	455	10-61,62
Radiola 51 (AC)	Vol.		1	E12				1-1-.5	3	See Note	B1				7	[6]26, 27, 71, 80		1-16
Radiola 51 (DC)	Vol.		1	E12											6	[1]12, 71		1-16
QU51C, QU51M, Ch. RC-568	Vol.	37992	18	MRT440	M26			34185	1/44	FP339					8	[2]6SK7, 6SA7, 6U5 or 6G5, 6SQ7, 6AD7G 6F6G, 5U4G	455	14-37-41
								86011-4	12	TC42								
QU51C, QU51M, Ch. RC-568A	Vol.	37992	18	MRT440	M26			34185	1/44	FP339					8	[2]6SK7, 6SA7, 6U5 or 6G5, 6SQ7, 6AD7G 6F6G, 5T4	455	14-37-41
								86011-4	12	TC42								
R51B	Vol.	3707	20	MRT451				6548	12	TC52					10	[2]34, [7]30	175	4-37,38
	Tone	6449	41	UC505														
B52 Ch. RC-1004D	Vol.	36080	18	MR53	M27			38705	12	TC47					5	[1]1N5GT, 1A7GT, 1H5GT, 3Q5GT	455	13-40
								36718	78	TC22								
QU52C, Ch. RC-507L	Vol.	38412	18	MRT427	M26			33014	1/13/14	FP424					6	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	14-42-44,68
	Tone	38409	22	MR48														
QU52M, Ch. RC-507N	Vol.	38412	18	MRT427	M26			33014	1/13/14	FP424					6	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	14-42-44,68
	Tone	38409	22	MR48														
Victor R52	Vol.		102	DRP115				3-2.5-3	3	See Note	B1				10	[6]26, 27, [3]45, 80		1-26
	Phono.		63	A														
R53B	Vol.	3707	20	MRT451				6548	12	TC52					10	[7]30, [3]34	175	4-37,38
	Tone	6449	41	UC505														
55X (Ch. RC1003C)	Vol.	84701-30	18	MR48	M26		A106	36301	77	2N521					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
BP55, 56 (Ch. RC455)	Vol.	34465	18	MR53	M27			34472	‡	FP304					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z6G/35Z5GT	455	11-90
QU55 Ch. RC-568	Vol.	37992	18	MRT440	M26			34185	1/44	FP339					8	[2]6SK7, 6SA7, 6U5 or 6G5, 6SQ7, 6AD7, 6F6G, 5U4G	455	14-37-41
								86011-4	12	TC42								
QU55 Ch. RC-568A	Vol.	37992	18	MRT440	M26			34185	1/44	FP339					8	[2]6SK7, 6SA7, 6U5 or 6G5, 6SQ7, 6AD7G 6F6G, 5T4	455	14-37-41
								86011-4	12	TC42								
R55	Vol.		13	MR33				4-4	4	See Note	B1				10	[1]35, 24A, [2]27, [3]47, 80	175	2-71,72
	Tone		101	MR48														
T55 (Ch. RC418)	Vol.	33631	18	MR53	M26			86031-14	1	FP231					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G	455	11-87,88
QU56C, QU56M, Ch. RC-566A	Vol.	38408	18	MRT440	M26			35761	77	TCD75					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	14-45-47
R56, Electric Phonograph	Vol.	38410	50	MR53	M26			39684	1	TCD55					2	50L6GT, 50Y6GT		13-42
								39500	1	TC45								
RE57	Vol.		2/8	DRP250				2-2-2	3	See Note	B1				8	[6]24A, 27, [3]45, 80		1-29,30
	Tone		22	MR55														
	Phono.		63	SRP152														
RAE59	Vol.	3142	13	MR33				2-3	4	See Note	B1				10	[1]35, 24A, [2]27, [3]47, 80	175	2-73,74
	Tone	3143	101	MR48														
	Phono.	3186	63	SRP152	6													
K60 (Ch. RC415)	Vol.	86304-28	45	MRT420	M26			86031-4	1/15	FP332					6	6SA7, 6SK7, 6H6, 6SF5, 6F6G, 5Y3G	455	11-91-94
K60 (Ch. RC415B)	Vol.	84701-13	124	MRT449	M26		A59	86031-4	1/15	FP332					6	6SA7, 6K7, 6H6, 6SF5, 6F6G, 5Y3G	455	11-94-96

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I.-F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
M60 (Ch. RC357K)	Vol.	31638	18	MR41	M26			33803	24	FP231		13688	859	C3	6	[26]6K7, 6A8, 6Q7, 6K6GT, 0Z4G	455	10-63
								.0075		Buffer	B14							
R60 (Ch. RS91B)	Vol.	84304-30	50	MRT420	M26T			33214	1/15	FP426					3	6SF5, 6F6G, 5Y3G		11-103
T60 (Ch. RC425)	Vol.	84304-39	20	MRT438	M26			86031-14	1	FP231					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y3G	455	11-97,98
Radiola 60	Vol.		8	A400P				2-2	2	See Note	B1				9	[27], 71A, 80	180	1-39
K61 (RC498F)	Vol.	84304-30	18	MRT420	M26T			86031-4	1/15	FP332					6	6SA7, 6K7, 6H6, 6SF5, 6F6G, 5Y3G	455	
K62 (RC415B)	Vol.	84701-13	124	MRT449	M26		A59	86031-4	1/15	FP332					6	6SA7, 6K7, 6H6, 6SF5, 6F6G, 5Y3G	455	11-94-96
T62 (Ch. RC425D)	Vol.	84304-39	20	MRT438	M26			86031-14	1	FP231					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y3G	455	11-97,98
Radiola 62	Vol.		8	A400P				3.5-3.5	2	See Note	B1				9	[27], 71A, 80	180	1-40
T63 (RC472F)	Vol.	35585	124	MRT449	M26			86031-4	1/15	FP332					6	6SA7, 6K7, 6SQ7, 6F6G, 6U5/6G5, 5Y3G	455	11-101, 102
T64 (Ch. RC416)	Vol.	84304-36	18	MRT420	M26			86031-4	1/15	FP332					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5/6G5, 5Y3G	455	11-104-106
Radiola 64	Vol.		54	A1MP				4-4-4	26	See Note	B2				11	[27], 50, [31]	180	1-41
	Sen.		1	D12														
Radiola 66	Vol.		8	A550P				2-2-1	3	See Note	B1				8	[27], 45, 80	175	1-42
Radiola 67	Vol.		8	A1MP				2-4-4	26	See Note	B1				10	[27], 50, [31]	175	1-43
	Tone		21	MR48														
	Phono.		63	SRP152														
67M	Vol.	72558-54	56	UM158-SS4				13687	1	2N518		13688	859	C3	6	6D6, 6A8, 6K7, 6B7, 42, 84	260	9-47,52
								.01-.01		Buffer	B14							
67M1	Vol.	52558-58	17	TM239-SS4				12234	1	RS213		12236	249	C3	6	6D6, 6A8, 6K7, 85, 6C5, 6A6	260	9-49,52
	Tone	52558-7	22	MR39				12238	1/15	TC71/TN111								
								.01-.01		Buffer	B14							
67M2, 67M3	Vol.	52558-58	17	TM239-SS4				12234	1	RS213		12236	249	C3	6	6D6, 6A8, 6K7, 85, 6C5, 6A6	260	9-49,52
								12238	1/15	TC71/TN111								
								.01-.01		Buffer	B14							
RAE68	Vol.		8	Y5MP				3-3-3	26	See Note	B1				9	[24], [27], [45], 80	175	7-14
	Tone		34	MR33														
	Phono.		63	SRP152														
M70 (Ch. RC394)	Vol. & Tone	86704-1	80	Order from	Mfr.			86031-4	1/15	FP332		13688	294	C3	7	6K7, 6A8, 6SK7, 6R7, [26]6V6G, 0Z4G	260	10-65
								.0075		Buffer	B14							
R70	Vol.	6372	8	F				10-8-4	4	See Note	B158				7	[38], [56], 47, 80	175	4-39,40
R71	Tone	7522	21	MR48	M26													
	Vol.	6322	8	MR35				10-8-4	4	See Note	B158				8	[38], [56], 47, 80	175	3-25,28
	Tone	6307	21	MR33	M26													
R71B	Vol.	6328	20	MRT438				8	12	TC52	B169				8	[34], 32, [30]	175	3-29,32
	Tone	6329	41	MR42														
R72	Vol.	6322	8	MR35				10-8-4	4	See Note	B158				8	[38], [56], 47, 80	175	3-25,28
	Tone	6307	21	MR33	M26													
R73 (with 47's)	Vol.	6369	8	A10MP				10-10-8-8	4	See Note	B169				8	[38], 56, 55, [47], 80	175	5-7,8
	Tone	6370	41	MR55	M26													
Victor RE73	Vol.	62895	2/8	DRP250				2-2-2	3	See Note	B1				8	[24A], 27, [45], 80		2-75,82
	Tone	10813	22	MR55														
	Phono.	3164	63	SRP152														
R73A (2A5 Output)	Vol.	65982-5	17	MR55				10-10-8-8	4	See Note	B169				8	[38], 56, 55, [2A5], 80	175	4-41,42
	Tone	65222-7	41	MR55	M26													
	Supp.	6453	7	F		5												
R74	Vol.		105	MR34				10-10-7	2/14	3S584	B169				10	[38], [56], [46], 82	175	3-33,34
	Tone		21	MR39	M26			10-10	15/19	TCS71	B169							
R75 (47 Output)	Vol.		104	G				10-8-10	4/15	3S584	B169				8	[38], 55, 56, [47], 80	175	5-10,12
	Sen.		104	G														
	Tone		41	MR55	M26													
R75 (2A5 Output)	Vol.		17	MR55				10-8-10	4/15	3S584	B169				8	[38], 56, 55, [2A5], 80	175	5-10,14
	Tone		41	MR55	M26													
	Sen.		7	F		5												
Victor RE75	Vol.	10450	102	DRP115				3-2.5-3	3	See Note	B1				10	[26], 27, [45], 80		1-26
	Phono.		63	A														
R76, R77	Vol.		105	MR35				10-10-7	2/14	3S581	B169				10	[38], [56], [46], 82	175	3-33,36
	Tone		21	MR39	M26			10-10	15/19	TCS71	B169							
R78 (Less Noise Suppressor)	Vol.		7/20	Order from	Mfr.			8910	4	TCS71	B169				12	[58], [56], [46], 82	175	3-37,41
	Tone		‡	MR48														
R78 (With Noise Suppressor)	Vol.		20	TRP601				8910	4	TCS71	B169				12	55, [58], [56], [46], 82	175	3-42, 7-166
	Supp.		7	Order from	Mfr.													
	Tone		‡	MR48														
RAE79	Vol.		13	MR33		See Note A61		4-4	4	TCS71	B169				13	[35], 24A, [27], [47], [80]	175	2-83,88
	Tone		101	MR48														
	Phono.		87	‡		See Note A5												
K80 (Ch. RC415A)	Vol.	84304-28	18	MRT420	M26			33014	1/13/15	FP424					8	6SK7, 6SA8, 6SQ7, 6SF5, [26]6F6G, 5Y3G, 6G5 6U5	455	11-107

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
K80, 81 (Ch. RC415D, C)	Vol.	84701-13	124	MRT449	M26		A59	33014	1/15	FP424					8	6SA7, 6K7, 6SF5, [3]6F6G, 5Y3G, 6U5/6G5	455	11-108
T80	Vol.	84304-36	18	MRT420	M26			33014	1/13/15	FP424					8	6SA7, 6SK7, 6SQ7, 6SF5, [3]6F6G, 5Y3G, 6U5/6G5	455	11-109
Radiola 80	Vol.		7	A5MP		See Note	A76	2-3-3	26	3S584	B169				9	[4]24, [3]27, [3]45, 80	175	1-44, 2-89
								3	26	TC70	B12							
RE80	Vol.	K67241	8	A10MP				10-8-10	4	See Note	B158				8	[3]58, 56, 55, [3]47, 80	175	4-44,48
	Tone	65222-7	41	MR55	M26													
	Sil.		9	G														
	Phono.	6385		Order from	Mfr.													
RE81	Vol.		8	MR35				10-10-10	2/14	3S584	B169				10	[3]58, [4]56, [3]46, 82	175	3-43,46
	Tone		21	MR48	M26			10-10	15/19	TCS71	B169							
	Phono.		16	TM221-SS1														
K82 (Ch. 415C)	Vol.	84701-13	124	MRT449	M26		A59	33014	1/13/15	FP424					8	6SA7, 6K7, 6SQ7, 6SF5, [3]6F6G, 6U5/6G5, 5Y3G	455	11-108
Radiola 82, 82 (with Remote Control)	Vol.		8	Y5MP				2-3-3	26	See Note	B1				9	[4]24A, [3]27, [3]45, 80	175	1-45, 2-92
	Tone		101	MR33														
RAE84	Vol.	6355	100	TRP601				10-10	4	See Note	B2				12	[4]58, [4]56, [3]46, 55, 82	175	3-47,52
	Tone	6276	21	MR48														
	Supp.	67068	7	A5MP	6													
84BT	Vol.	14282	17	MR55	M27			14287	13	2N516					4	1C6, 1A4, 1F6, 1F4	460	9-53,56
84BT6	Vol.	14307	18	MR44	M26			13046	46	RS213		14309	246A	C22	4	6A7, 6D6, 75, 42	460	9-54,56
								14310	46/15	3S579								
								.01-.01		Buffer	B14							
85BK, 85BT	Vol.	14400	17	MR55				14403	12	2N516					5	1C6, 1A4, 1F6, 30, 19	460	8-105, 108
85BT6	Vol.	30658	18	MR44	M26			11203	1	HD681		30666	246A	C22	5	6A8G, 6K7G, 6Q7G, 6K6G, 5Y3G	460	9-57,60
								30657	1/13/15	3S579								
								.01-.01		Buffer	B14							
85E	Vol.	14645	18	MR44	M26			14814	25	HD684					5	6A7, 6D6, 75, 42, 80	460	9-61,63
								14813	25/13	2S569								
85T	Vol.	14645	18	MR44	M26			14669	1/19	3S579					5	6A7, 6D6, 75, 41, 80	460	8-109, 111
85T1	Vol.	14645	18	MR44	M26			11203	25	HD684					5	6A7, 6D6, 75, 42, 80	460	8-112, 114
								5212	25	RS216								
								14377	13	RS216								
85T5	Vol.	14335	17	MRT449				11240	25	HD684					5	6D6, 6A7, 75, 42, 80	460	8-115, 117
								5212	25	RS216								
								14377	13	RS216								
BP85 (Ch. RC455)	Vol.	34465	18	MR53	M27			34472	‡	FP304					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z6GT/35Z5GT	455	11-90
Radiola 86	Vol.		8	Y5MP				2-3-3	26	See Note	B1				9	[4]24A, [3]27, [3]45, 80	175	1-51,52
	Tone		101	MR33														
	Phono.		63	SRP152														
86BK, 86BT	Vol.	14335	17	MRT449				14403	12	2N516					6	[1]A4, 1C6, 1F6, 30, 19	460	8-118, 121
86E	Vol.	14335	20	MRT449				11240	25	HD684					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	460	8-123, 128
								5212	25	RS216								
								30105	13	RS216								
86K, 86K7	Vol.	14335	20	MRT449				11240	25	HD684					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	460	8-123, 128
								5212	25	RS216								
								14377	13	RS216								
86T, 86T1	Vol.	14335	20	MRT449				11240	25	HD684					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	460	8-123, 128
								5212	25	RS216								
								14377	13	RS216								
86T3	Vol.	30575	45	MRT420				30577	1/19	RM262					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	460	9-64,66
	Tone	30574	22	MR53	M26T			5212	1	RS216								
								11203	13	HD684								
86T4, 86T44	Vol.	14335	17	MRT449				11203	25	HD684					5	6A7, 6D6, 75, 42, 80	460	9-67,70
								5212	25	RS216								
								14377	13	RS216								
86T6	Vol.	30575	45	MRT420				11203	1	HD684					6	6A8G, 6K7, 6H6, 6F5, 6F6, 5W4	455	9-71,74
	Tone	30574	22	MR53	M26T			5212	1	RS216								
								30577	13/19	RM262								
86X	Vol.	14645	18	MR44	M26			14643	6	RS207					5	6A7, 6D6, 75, 43, 25Z5, 135K1	460	8-129 131
								14644	6/13	2S569								
								14767	6/13	2S569	B12							
86X4	Vol.	14645	18	MR44	M26			30297	1	TC48					5	6A8, 6D6, 6Q7G, 25L6, 25Z5	460	9-75,78
								30298	1/14	2N509								
87EY	Vol.	14335	20	MRT449				14621	1	2N509	B8				6	6A8, 6K7, 6H6, 6J7, 25L6, 25Z5	460	9-79,82
								14622	1/13	2N509								
								14624	19	TC22								
87K, 87T	Vol.	14335	20	MRT449				11240	25	HD684					7	6A8, 6K7, 6H6, 6F5, 6F6, 6G5, 5W4	460	8-122, 128
								5212	25	RS216								
								14377	13	RS216								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
87K1, 87K2, 87T2	Vol. & Tone	K85479-1	20/22	SMD501				11203	1	HD684					7	6A8, 6K7, 6H6, 6F5, 6F6, 5W4, 6U5	460	9-83,86
								5212	1	RS216								
								30577	19	RM262								
87T1	Vol.	30575	45	MRT420				30577	1/19	RM262					7	6A8, 6K7, 6H6, 6U5, 6F5, 6F6, 5W4	460	9-64,66
	Tone	30574	22	MR53	M26T			5212	1	RS216								
87X, 87Y	Vol.	14335	20	MRT449				11203	13	HD684					6	6A8, 6K7, 6H6, 6J7, 25L6, 25Z5	460	9-79,82
								14621	1	2N509	B8							
								14622	1/13	2N509								
								14624	19	TC22								
88K	Vol.	14335	17	MRT449				11203	25	HD684					8	[3]6K7, 6L7, 6J7, 6Q7, 6F6, 6G5, 5W4	460	8-132, 135
								5212	25	RS216								
R89	Vol.	84304-13	50	MR55	M26			86011-1	1	TC44					3	6F5, 25L6G, 25Z6G		9-87,88
R90, R90P	Vol.	67656-1	100	TRP622	6			6443	4	HD684					10	[4]58, [3]56, [2]2A5, 80	175	3-53, 4-49
	B. Tone	6448	‡	Y200MP				6430	4/13	TCS71	B169							
	T. Tone	6449	41	UC505														
	Supp.	6450	7	E														
R91	Vol.	31582	50	MR53				31584	24	TC48					3	6F5, 25L6, 25Z6, BK61B		5-23,24
91B	Vol.	6829	7	Y200MP		EX350		6832	12	TC52					3	78, 77, 38		5-15,16
								6844	15	[2]TC32								
R92 Recorder	Vol.	4401	16	MR48	M26			7590	1	HD684					4	[3]56, 53, 80		5-17,20
								4498	1	TC71								
								3536	15	[2]TC32								
R93 Phonograph	Vol.	4502	63	MR24														5-23,24
R93B, R93C	Vol.		50	MR44	M26T													
R93F (Record Player)	Vol.	33359	50	MR44	M26T													
94BK, 94BT	Vol.	72357-33	18	MR44	M27			13610	12	TC62					4	1C7G, 1D5G, 1F7G, 1G5G	455	9-89,90
94BK1, 94BT1	Vol.	72357-33	18	MR44	M27			86011-4	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	10-68
94BK2, 94BT2	Vol.	32262	18	MR53	M27			86011-1	12	TC44					4	1A7G, 1N5G, 1H5G, 1A5G	455	10-69
94BP1 (Portable)	Vol.	33304	18	MR48	M27			86041-13	12	TC52					4	1A7G, 1N5G, 1H5G, 1C5G	455	12-36
94BP4	Vol.	32594	18	MR53	M27			86011-4	12	TC52					4	1A7G, 1N5G, 1H5G, 1C5G	455	10-73
94BP61, 62 (Ch. RC407)	Vol.	33304	18	MR48	M27			86041-13	12	TC52					4	1A7G, 1N5G, 1H5G, 1C5G	455	10-72
94BP64, 94BP66, 94BP80, 94BP81 (Ch. RC407)	Vol.	33304	18	MR48	M27			86041-13	12	TC52					4	1A7G, 1N5G, 1H5G, 1C5G	455	10-72
94BT6	Vol.	72357-34	18	MR44	M26T			80378-3	24	2S569		14309	246A	C22	4	6A8G, 6K7G, 6Q7G, 6K6G	455	9-90,91
								.01		Buffer	B14							
94BT61	Vol.	72357-34	18	MR44	M26T			86027-1	24	FP225		14309	216A	C22	4	6D8G, 6S7G, 6T7G, 6G6G	455	10-75,76
								.01		Buffer	B14							
94X	Vol.	72357-32	6	MR33	M26T	EX200		80385-3	1	2N509					4	6K7, 6J7, 25L6G, 25Z6G		9-92
94X1, 94X2	Vol.	72357-32	6	MR33	M26T	EX200		80385-3	1	2N509					4	6K7, 6J7, 25L6G, 25Z6G		9-100
R94B	Vol.	72357-40	50	MRT420			A59											
95T	Vol.	72357-27	18	MR44	M26T			80385-4	1	2N518					5	6A8, 6K7, 6Q7G, 6K6G, 5Y3G	455	9-104
95T5	Vol.	72357-45	18	MR44	M26T			86005-2	1	2N518					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	455	9-93,95
95T5LW	Vol.	72357-45	18	MR44	M26T			86005-2	1	2N518					5	6A8, 6K7, 6Q7G, 6K6G, 5Y3G	455	11-111
95X1	Vol.	31194	6	MR33	M26	EX200		80385-3	1	2N509					4	6K7, 6J7, 25L6, 25Z6, BK55B		9-112
95X, 95XL	Vol.	31194	6	MR33	M26	EX200		80385-3	1	2N509					4	6K7, 6J7, 25L6, 25Z6, BK55B		9-108
R95 Electrola	Vol.	11861	63	MR24				11867	9/15	[3]3S582	B171				3	77, 43, 25Z5		
95XLW (RC345F)	Vol.	31194	6	MR33	M26	EX200		31584	1	TC48					4	6K7, 6J7, 25L6G, 25Z6G		11-110
								86011-1	1	TC44								
96BK6, 96BT6	Vol.	84304-19	18	DTM282-SS1	M26			86027-1	24	FP225					6	6D8G, 6S7G, 6T7G, 6W7G, [3]6L5G	455	10-77-79
								86027-2	24	FP234								
								86028-1	13	TC65								
96E	Vol. & Tone	K85479-3	18/21	SMD504			A67	86005-3	1	2N518					6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G	455	9-94,95
96E2 (RC351L)	Vol. & Tone	K85479-5	20/22	SMD501				86023-2	1/14/15	FP424					6	6K8, 6K7, 6H6, 6F5, 6F6G, 5Y3G	455	10-80-82
96K	Vol. & Tone	K85479-2	20/22	SMD503				86018-2	1/14/15	FP424	B48				6	6K8, 6K7, 6H6, 6F5, 6F6, 5W4	455	9-97,99
96K2, 96T3	Vol. & Tone	K85479-2	20/22	SMD503				86018-2	1/14/15	FP424	B48				6	6K8, 6K7, 6H6, 6F5, 6F6, 5W4	455	9-102, 103

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
96K5, 96K6 (RC351L)	Vol. & Tone	K85479-5	20/22	SMD501				32485	1/14/15	FP424					6	6K8, 6K7, 6H6, 6F5, 6F6G, 5Y3G	455	
96T	Vol. & Tone	K85479-3	18/22	SMD504			A67	86005-3	1	2N518					6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G	455	9-94,95
96T1	Vol. & Tone	K85479-3	18/22	SMD504			A67	86005-3	1	2N518					6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G	455	9-94,95
96T2	Vol. & Tone	K85179-2	18/22	SMD503				86018-2	1/15/14	FP424	B48				6	6K8, 6K7, 6H6, 6F5, 6F6, 5W4	455	9-97,99
96T4, 96T5 (RC399)	Vol. & Tone	K85479-3	18/95	SMD504			A67	86027-8	1	FP311					5	6SA7, 6K7, 6SQ7, 25L6, 25Z6G, BK49B	455	10-83-85
96T6 (RC399A)	Vol. & Tone	K85479-3	18/21	SMD504			A67	86027-8	1	FP311					5	6SA7, 6K7, 6SQ7, 25L6, 25Z6G, BK49B	455	10-83-85
96T7 (RC351L)	Vol. & Tone	K85479-5	18/22	SMD501				86023-2	1/14/15	FP424					6	6K8, 6K7, 6H6, 6F5, 6F6G, 5Y3G	455	
96X1, 96X2, 96X3, 96X4 (RC400)	Vol.	32545	18	MR44	M26			86041-17 86041-15	1 13	2N509 TC47					5	6K8, 6SK7, 6SQ7, 25L6, 25Z6G	455	10-85-87
96X11, 96X12, 96X13, 96X14 (RC400A)	Vol.	32545	18	MR44	M26			86041-17 86041-15	1 13	2N509 TC47					5	6K8, 6SK7, 6SQ7, 25L6, 25Z6G	455	10-86,87
R96, R97	Vol.	11798	‡	Order from	Mfr.			11203	1	HD681					3	6C6, 42, 80		8-142,
	Tone	11797	34	MR39	M26			5212	1	RS216								146
97E, 97KG, 97T	Vol. & Tone	K85179-2	18/22	SMD503				86018-2	1/14/15	FP424	B48				7	6K8, 6K7, 6H6, 6F5, 6F6, 5W4, 6U5	455	9-101, 103
97K	Vol. & Tone	K85479-2	18/22	SMD503				86018-2 86023-2	1/14/15 1/14/15	FP424 FP424	B48				7	6K8, 6K7, 6H6, 6F5, 6F6, 5Y3G, 6U5	455	10-88-94
97K2, 97T2 (RC351K)	Vol. & Tone	K85479-5	20/22	SMD501				86023-2	1/14/15	FP424					7	6K8, 6K7, 6H6, 6F5, 6F6G, 5Y3G, 6U5	455	10-80,82
97X	Vol. & Tone	K85479-3	75/‡	SMD504			A67	86019-1	1	2N509					6	6A8G, 6K7, 6H6, 6F5, 25L6G, 25Z6G	455	9-105-107
97Y (RC352A)	Vol. & Tone	K85179-2	20/22	SMD503				86018-1 86011-1	46 15	TN129 TC44					6	6K8, 6K7, 6H6, 6J7, 25L6, 25Z6	455	9-109, 111
98EY (RC352)	Vol. & Tone	K85479-2	20/22	SMD503				86018-1 86011-1	46 15	TN129 TC44					7	6K8, 6K7, 6H6, 6J7, 25L6, 25Z6, 6U5, BK63B	455	9-109
98K	Vol. Tone	72357-48 72357-43	15 22	MRT449 MR53	M26		A59	11203 5212	25 25	HD681 RS216					8	6A8, 6J7, 6K7, 6H6, 6F5, 6F6, 6G5, 6U5, 5W4	455	9-113, 116
98K2, 98T	Vol. & Tone	K85479-5	18/22	SMD501				86018-4 86011-3	1/19 14	3S579 TC70					8	6A8G, 6K7, 6Q7G, 6J5,[36]K6G, 6U5, 5Y3G	455	10-97-99
98T2 (Ch. RC352D)	Vol. & Tone	K85479-5	20/22	SMD501				86018-1 86011-1	1/13 15	TN129 TC65					7	6K8, 6K7, 6H6, 6J7, 25L6, 25Z6, 6U5	455	11-113-115
98X (RC352)	Vol. & Tone	K85479-2	20/22	SMD503				86018-1 86011-1	46 15	TN129 TC44					7	6K8, 6K7, 6H6, 6J7, 25L6, 25Z6, 6U5, BK63B	455	9-109, 111
98YG (RC352)	Vol. & Tone	K85479-2	20/22	SMD503				86018-1 86011-1	46 15	TN129 TC44					7	6K8, 6K7, 6J7, 6H6, 25L6, 25Z6, 6U5, BK63B	455	9-109, 111
R98 (RS77)	Vol.	84304-35	50	DTM291-SS1				14531 11203 11496 14273	28 28 28 15	RS223 HD684 RS216 TC26/TC22					5	[36]J5,[32]A3, 5U4G		10-95,96
R99 High Fidelity Electrola	Vol. Tone Exp. Exp. Bias	14026 12553 72558-10 12468	16 41 15 7	Order from UC505 MR55 Order from	Mfr. 6 Mfr.			12467 11240 11496 5212 12470 12472	28 28 28 13 15 15	RS223 HD684 RS216 RS216 TC26 TC22					7	6L7, [36]C5, 6H6,[32]A3, 5Z3		7-161, 165

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
99K, 99T	Vol.	31450	20	MRT449			A59	14531	25	RS223					9	6A8, 6K7, 6J7, 6Q7,		
	Tone	72357-43	22	MR53	M26			5212	25	RS216						6F5, [2]6F6, 6G5 or		9-117,
100, 101	Vol.	6667	7	E	6	2		6661	1/15	2N518/2N509						6U5, 5T4	455	120
R100	Vol.	33359	50	MR42	M26										4	6A7, 6F7, 38, 1V	460	4-53,54
V100 (RC517)	Vol.	36287	18	MR48				35673	77	2N521								
															5	12SA7,12SK7,12SQ7,		
M101	Vol.	72291-28	17	MR44	M26			4961	1	RS213		7857	286S	C3		50L6GT, 35Z5GT	455	12-37
								4958	24/15	3S579			G286S	C16	5	[2]6D6, 6A7, 6B7, 41	175	6-1,4
								.02-.02		Buffer	B14							
V101 (RC540)	Vol.	84779-34	18	MRT420				37845	9/13	Order from	Mfr.							
								37846	9	TC47					6	6SA7, 6SK7, 6SQ7,		
102 Victor	Vol.	67817-1	7	MR45	M26			6823	1	2N516						25L6GT,[2]35Z5GT	455	12-38
								6824	15	[2]TC32					4	37, 77, 78, 38		5-25,26
U102E	Vol.	72357-11	18	MRT420	M26			14814	25	HD684								
	Phono.	14815	63	Order from	Mfr.			14813	25/13	2S569					5	6A7, 6D6, 75, 42, 80	460	9-61,63
V102 (RC524)	Vol.	36486	124	MRT449	M26			36675	1/15	FP339								
								32405	13	TC65					7	6SA7, 6SK7, 6SQ7,		
103	Vol.	6667	7	E	6	2		6661	1/15	2N518/2N509						6SF5, [2]6F6G, 5Y3G	455	12-39,40
U101, U103	Vol.	72357-11	18	MRT420	M26			14814	25	HD684					4	6A7, 6F7, 41, 1V	460	6-5,7
	Phono.	14815		Order from	Mfr.			5212	25	RS216					5	6A7, 6D6, 75, 42, 80	460	8-147,
								14377	13	RS216								151
M104	Vol.	72291-28	17	MR44	M26			4961	1	RS213		7857	286S	C3				
								4958	24/15	3S579			G286S	C16	5	[2]6D6, 6A7, 6B7, 41	175	6-8,12
								.02-.02		Buffer	B14							
U104	Vol.	31966	6	MR33	M26			86011-1	1	TC44								
	Phono.	32209	50	MR33											4	6K7, 6J7, 25L6G,		10-102,
K105 (Ch. RC476)	Vol.	84701-13	45	MRT449	M26			34533	1/19	FP339						25Z6G, BK55B		103
								86011-1	13	TC65					10	[2]6SK7, 6SA7, 6H6,		
																[2]6SF5, [2]6F6G,		11-117-
M105	Vol.	K67967	17	SRP251	6			4-4	1	2N518	B169	7689	271	C15		5U4G, 6U5/6G5	455	119
								6492	13	Order from	Mfr.				4	78, 6A7, 6B7, 41	175	5-27,32
								3536	15	[2]TC32								
U105, U107	Vol.	14597	15	Order from	Mfr.			14531	25	RS223								
	P.U. Volt	30099	‡	MR48				5212	25	RS216					10	[2]6K7, 6L7, 6H6, 6N7,		9-121,
V105	Vol.	37977	18	MR48				36301	77	2N521						6J7, [2]6F6, 6G5, 5T4	460	128
															5	12SA7,12SK7,12SQ7,		
U106	Vol. &															50L6GT, 35Z5GT	455	
	Tone	K85479-1	15/22	SMD501				14531	25	RS223					9	6A8, 6K7, 6H6, [2]6F5,		9-129,
								5212	25	RS216						[2]6F6, 6U5, 5T4	460	133
M107	Vol.	6978	19	TM221-SS1	M26	See No	te A68	7776	1	RM262		7780	253	C3	6	[2]6D6, 6A7, 75, 41, 84	175	5-33,38
								6963	15	TN111			G253	C16				
								.02-.02		Buffer	B14							
U107	Vol.	14597	20	Order from	Mfr.			14531	25	RS223					10	[2]6K7, 6L7, 6H6, 6U7,		
	Phono.	72357-15	‡	DTM289-SS1				5212	25	RS216						6J7, [2]6F6, 6G5,		9-121,
	P.U. Volt	30099	‡	MR48												5T4	460	129
M108	Vol.	72291-28	56	MR44	M26			4961	1	RS213		7857	286S	C3	5	[2]6D6, 6A7, 6B7, 41	175	6-8,12
								4958	24/15	3S579			G286S	C16				
								.02-.02		Buffer	B14							
U108	Vol.	14835	20	DTM295-SS1	M26			14531	28	RS223					16	[2]6K7, [2]6L7, 6J7, [2]6H6,		
	Fid.	14836	41	UC505	7			11203	28	HD684						[2]6C5, 6F5, [2]2A3,		
	Phono.	14833	‡	DTM289			A96	11496	28	RS216						6G5, 5Z3	460	9-134,
	P.U. Adj.	14788	‡	MR44				5212	13	RS216								148
	Exp. Bias	12468	7	Order from	Mfr.			14273	15	TC26/TC22								
								14773	14	RS216								
								12682	15	TC22								
M109	Vol.	72291-28	56	MR44	M26			5069	1	2N518		5067	294	C3	7	[2]6D6, 6A7, 6B7, 76,		
	Tone	5072	44	MR39				.02-.02		Buffer	B14					6A6, 84	175	6-13,17
								5054	15	TC22								
U109	Vol.	14835	20	DTM295-SS1	M26			14531	28	RS223					16	[2]6K7, [2]6L7, [2]6J7, [2]6H6,		
	Fid.	14836	41	UC505	7			11203	28	HD684						[2]6C5, 6F5, [2]2A3,		
	Phono.	14833	‡	DTM289			A96									6G5, 5Z3	460	9-134,
	P.U. Adj.	14788	‡	MR44				11496	28	RS216								148
	Exp. bias	12468	7	Order from	Mfr.			5212	13	RS216								
								14273	15	TC26/TC22								
								14773	14	RS216								
								12682	15	TC22								
110, 111	Vol.		8	D	6	1		7590	1	HD684					5	58, 2A7, 57, 2A5, 80	175	4-55,56
	Tone		34	MR39				7589	1/14	TCD71								
110K (Ch. RC513)	Vol.	35962	124	MRT449	M26			36045	1/13/15	FP429					10	[2]6SK7, 6SA7, 6SQ7,		
																6SF5, [4]6K6GT,		
																5U4G	455	12-43,44
CV110 (A.C. Power Supply)								32013	1	2S569						5Y3G		12-14
ACR111	Vol.	13039	15	MR55				13036	28	2S569					16	[4]6K7, [4]6J7, 6H6, [2]6C5,		
	Fid.	14134	41	MR44	M26			13046	28	RS213						[2]6F6, 6R7, 6E5, 5Z3	460	9-149,
	Noise	13042	7	MR14				13041	14	TC71								160
	Sen.	13038	7	MR14				13040	15/19	TC32								
111K (Ch. RC513A)	Vol.	35962	124	MRT449	M26			36045	1/13/15	FP429					12	[2]6SK7, 6SA7, 6H6,		
																[2]6SF5, [4]6K6GT,		
																5U4G, 6U5/6G5	455	12-45,46

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
CV111								33810	46	FP357						5T4		
								33968	13	2N514								
RS111A (CV112X) PWR Supply								80385-3	1	2N509					1	25Z6GT		14-6,7
								36553	3	TC310								
U111	Vol.	72357-27	18	MR44	M26T			86005-1	1	2S569					5	6A8, 6K7, 6Q7G, 6K6G, 5Y3G	455	7-169, 170
112, 112A (DC-220V)	Vol.	69149-2	8	A5MP				6728	25/15	3S582/TN111	B172				5	78, 6A7, 77, 43, 12Z3	175	4-57,59
CV112								80385-3	1	2N509						25Z6GT		12-85
								36553	3	TC310								
U112 (RC341CM)	Vol.	72357-27	18	MR44	M26T			86005-1	1	2S569					5	6A8, 6K7, 6Q7G, 6K6G, 5W4	455	9-169, 170
114	Vol.	6508	8	A5MP	6	2		6783	9/15	3S582/TC52/TCS52	B171				5	78, 6A7, 77, 43, 25Z5	175	4-60,62
115	Vol.	6465	7	A3MP	6	1		7590	1	HD684					5	58, 2A7, 57, 2A5, 80	175	4-55,56
	Tone	6623	34	MR39				7589	1/14	2N518/2N509								
U115	Vol. & Tone	32355	75/‡	SMD504				86005-3	1	2N518					6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G	455	10-104-106
								86031-14	1	FP231								
M116	Vol.	K67846	‡	MR44				6738	1	RS213		7694	271	C15	5	78, 6A7, 6B7, 41, 1V	175	5-39,42
	Tone	6747	34	MR53				6782	1	TC71								
								6781	13	Order from	Mfr.							
								3536	15	[2]TC32								
117, 118, 119	Vol.	4790	19	TM221-SS1	M26			7790	1	HD684					5	6A7, 6D6, 6B7, 41, 80	460	6-18,
	Vol.	4429	19	TM221-SS1	M26			4428	1	RS213								5-43 &
								7589	13	TCD71								6-25
								3796	15	TC32								
U119	Vol. & Tone	K85479-2	20/22	SMD503				86018-2	1/14/15	FP424	B48				6	6K8, 6K7, 6H6, 6F5, 6F6, 5W4	455	9-171, 174
120	Vol.	K69109	19	MRT431				7590	1	HD684					6	2A7, 2B7, [3]58, 2A5, 80	175	4-63,65
	Tone	6619	34	MR39	M26			6487	13/14	TCS61/2N509								
121, 122	Vol.	K69461-2	19	TM221-SS1				6571	1	HD684					6	[3]58, 2A7, 2B7, 2A5, 80	370	4-66,69
	Tone	6705	34	MR39	M26			6703	1/13	3S584								
								3796	15	TC32								
U121 (RC348J)	Vol. & Tone	32355	18/21	SMD504				86031-14	1	FP231					6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G	455	10-107-113
U122E	Vol. & Tone	K85479-2	20/22	SMD503				86018-2	1/14/15	FP424	B48				6	6K8, 6K7, 6H6, 6F5, 6F6, 5W4	455	9-171, 174
M123	Vol.	69854-14	18	MR44	M26		A68	7758	1	See Note	B173	7757	222	C4	6	[3]6D6, 6A7 75, 41, 79	175	5-47,52
	Tone	6971	41	MR33				6963	15	TN111								
	Supp.	6972	7	A2MP														
U123 (RC348H 1 Band) (RC421 2 Band)	Vol. & Tone	32355	75/‡	SMD504				86031-14	1	FP231					6	6A8G, 6H6, 6K7, 6F5, 6K6G, 5Y3G or 6SA7, 6K7, 6H6, 6SF5, 6F6G, 5Y3G	455	10-107-111
124	Vol.	K69109	19	MRT431				7590	1	HD684					6	[3]58, 2A7, 2B7, 2A5, 80	175	5-53,55
	Tone	6619	34	MR39	M26			6487	1/13	HD684								
U124	Vol. & Tone	K85479-2	25/22	SMD503				86018-2	1/14/15	FP424	B8				6	6K8, 6K7, 6H6, 6F5, 6F6, 5W4	455	9-171, 174
125	Vol.	72294-7	19	TM221-SS1	M26			7790	1	HD684					6	6A7, [3]6D6, 6B7, 41, 80	460	6-29,32
								5101	1/14	3S584								
U125	Vol. & Tone	K85479-2	17/22	SMD503				86018-4	1/19	3S579					8	6A8G, 6K7, 6Q7G, 6J5, [3]6K6G, 6U5, 5Y3G	455	10-114-118
								86011-3	14	TC70								
126B	Vol.	6995	9	MR35				4349	12	See Note	B174				6	1A6, 34, 32, [3]30	460	5-57,60
U126	Vol.	72357-44	18	MRT449			A59	86015-4	25	2S569	B8				10	6A8, 6J7, 6K7, 6H6, [3]6F5, [3]6F6, 6U5, 5T4	455	9-201, 210
	Tone	72357-43	22	MR53	M26			80385-7	25	RS216								
127	Vol.	69461-2	19	TM221-SS1				6986	12	2N509	B11				6	[3]6D6, 6A7, 75, [3]41	370	5-61,64
	Tone	6705	44	MR39	M26			6985	13	2N516								
								3796	15	TC32								
U127E (RC348L)	Vol. & Tone	32355	18/21	SMD504				86031-14	1	FP231					6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G	455	
128, 128E	Vol.	72291-4	19	TM221-SS1				7790	1	HD684					6	[3]6D6, 6A7, 6B7, 41, 80	460	5-65,70
	Tone	4517	34	MR39				4428	1	RS213								6-35,39
								7589	13	TCD71								
								4525	15	TC22								
U128	Vol.	72357-44	18	MRT449			A59	86015-4	25	2S569	B8				10	6A8, 6J7, 6K7, 6H6, [3]6F5, [3]6F6, 6U5, 5T4	455	9-201, 210
	Tone	72357-43	22	MR53	M26			80385-7	25	RS216								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
U129 (RC335K)	Vol.	72357-44	18	MRT449			A59	86015-4	25	2S569	B8				10	6A8, 6J7, 6K7, 6H6,		
	Tone	72357-43	22	MR53	M26			80385-7	25	RS216						[2]6F5, [2]5F6G, 5U4G, 6U5	455	10-47-51
K130 (Ch. RC501A)	Vol.	84701-22	20	DTM291-SS1	M26			35016	25/19	Order from	Mfr.				13	[2]6SK7, 6SA7, 6H6,		
								35017	25/14	FP228						[2]6SF5, [2]6F6G, [2]5U4G, 6U5/6G5	455	11-79-82
U130	Vol.	84394-5	17	MRT449	M26			86015-4	25	2S569	B8				12	[2]6K7, 6A8, 6J7, 6R7,		
	Tone	84304-3	‡	Order from	Mfr.			80385-8	25/14	2S569						6U5, [2]6F6, [2]6J5, 5T4	455	9-4,10
U132	Vol.	84304-6	20	DTM291-SS1				68597-16	25	RS223					14	[2]6K7, 6L7, [2]6J7, 6R7,		
								68597-15	25	RS216						6H6, 6U5, [2]6J5, [2]6F6, 5T4	455	9-18,29
U134	Vol.	84304-6	20	DTM291-SS1				11203	25	HD684					16	[2]6K7, 6L7, 6U5, [2]6J7,		
								68597-15	25	RS216						[2]6H6, [2]6J5, [2]6L6, [2]5T4	455	9-21,29
135B	Vol.	4535	45	MR44				14377	14	RS216					7	1C6,[2]34,[2]30, 32, 19	460	5-71,74
	Tone	69648-4	41	MR48				4498	12	TC71								
V135 Ch. RC517H	Vol.	38409	18	MR48				39500	9	TC45					5	12SA7, 12SK7, 12SQ7,		
								39501	9	Order from	Mfr.					35L6GT, 50Y6GT	455	13-9,70
ACR136	Vol.	4809	18	TM221-SS1				7790	1	HD684					7	[2]6D6, 6A7, 6B7, 41, 80	460	6-40,46
	Tone	4810	34	MR39				4498	1	TC71								
	Sen.	4726	7	SRP134				7589	14	TCD71								
								4525	15	TC22								
140, 141, 141E	Vol.	K69461-2	19	TM221-SS1				6571	1	HD684					8	[2]58, 2A7, 2B7, 56, 53,		
	Tone	6627	21	MR53	M26			6609	1	RS216						80	445	4-70,76
								6626	14/15	TC71/TN111								
140, 141, 141E (Revised)	Vol.	K69461-1	19	TM221-SS1				6889/6609	1	RS216					8	[2]58, 2A7, 2B7, 56, 53,		
	Tone	6892	21	UC505	6			6626	13/15	TC71/TN111						80	445	5-75,80
V140, Ch. RC572A	Vol.	38408	18	MRT440	M26			37846	9	TC47					6	[2]6SK7, 6SA7, 6SQ7,		
								37845	9/13	Order from	Mfr.					25L6GT, 25Z6GT	455	13-71,72
142B	Vol.	6714	9	MR35				6548	12	TC52					8	[2]34,[2]30, 32	175	4-77,80
143	Vol.	72291-4	19	TM221-SS1				7790	1	HD684					8	[2]6D6, 6A7, 75, 76,[2]42,		
	Tone	72291-5	41	MR53	M26			4626	13/15	3S579	B177					5Z3	460	5-80,89
	Sen.	4618	7	UC500				4619	15	TC22/TP431								6-45,47
V170 (RC523)	Vol.	36486	124	MRT449	M26			35858	1/15	FP339					6	6SA7, 6SK7, 6H6, 6SF5, 6K6GT, 5Y3G	455	12-47,48
ACR175	Vol.	12087	15	MR55				11203	1	HD684					11	[2]6J7,[2]6K7, 6L7, 6H6,		
	Sen.	12090	7	G				5212	1	RS216						6F5, 6F6, 5Z4, 6E5	460	9-162, 168
								11248	14	RS213								
V175, Ch. RC582	Vol.	38404	18	MRT454	M26			37846	9	TC47					6	[2]6SK7, 6SA7, 6SQ7,		
								37845	9/13	Order from	Mfr.					25L6GT, 25Z5GT	455	13-73,74
V200 (RC519), V201 (RC522)	Vol.	36534	20	MRT449	M26			36569	1/19	FP339					7	6SA7, 6SK7, 6SQ7, 6SF5, [2]6K6GT, 5Y3G	455	12-49,50
VHR202 (RC548)	Vol.	37604	124	MRT454	M26			36569	1/19	FP339					9	6SA7, 6SK7, [2]6Q7,		
	Treble	37024	22	MR33				32405	13	TC65						6SJ7, [2]6K6GT,		
	Bass	37023	‡	MR55	M26											6U5/6G5, 5Y3G	455	12-52-59
	Mike	84779-22	127	MR48														
V205 (RC521)	Vol.	36337	20	MRT449				34533	1/19	FP339					9	[2]6SK7, 6SA7, 6H6,		12-61,
	Treble	36339	22	MR53	M26			32405	13	TC65						[2]6SF5, [2]6F6G, 5U4G	455	62,83, 85
VHR207 (RC547)	Vol.	37019	124	MRT427	M26			34889	1	FP234					11	[2]6SK7, 6SA7, 6Q7,		
	Mike	84779-22	127	MR48				31584	19	TC29	B3					6SJ7, [2]6F6G,		
	Bass	37023	‡	MR55	M26			36589	13	FP143						12K7GT, 6H6,		
	Treble	37024	22	MR53				32405	13	TC65						6U5/6G5, 5U4G	455	12-54-57
V209, V210, Ch. RC573, Ch. RC573A	Vol.	38404	18	MRT454	M26			37877	13	TC74					8	6SG7, 6SA7, 6SK7,		
								37888	1/19	FP339						[2]6SQ7, [2]6K6GT, 5Y3G	455	13-75-77
210	Vol.	67889-8	8	D	6	1		7590	1	HD684					5	58, 2A7, 57, 2A5, 80	175	4-81,83
	Tone	6645	34	MR39				7589	1/14	TCD71								
211K (Ch. RC571)	Vol.	38404	20	MRT454	M27			36045	1/13/15	FP429					11	[2]6SK7, 6SA7, [2]6SQ7,		
																[2]6K6GT, 5U4G	455	
211, 214	Vol.	73294-7	19	TM221-SS1	M26			7790	1	HD684					5	6A7, 6D6, 6B7, 41, 80	460	5-43,46
								4428	1	RS213								6-18,24
								7589	13	TCD71								
								3796	15	TC32								
VHR212, Ch. RC574	Vol.	39171	18	MRT427				37888	1/19	FP339					10	6SG7, 6SA7, 6SK7,		
	Treble	38405	22	MR53				37877	13	TC74						6U5 or 6G5, 6SJ7,		
	Bass	38402	‡	MR55	M26											[2]6Q7, [2]6K6GT, 5Y3G	455	14-48-60
	Mic. Vol.	38409	124	MR48														
V215, Ch. RC564	Vol.	36447	18	DTM291-SS1				37888	1/19	FP339					9	6SG7, 6SA7, 6SK7,		
	Bass	38402	‡	MR55	M26			34889	13	FP234						[2]6SQ7, [2]6F6G, 6R7,		13-7,11,
	Treble	38405	22	MR53												5U4G	455	80-82
V219, Ch. RC564A	Vol.	36447	18	DTM291-SS1				37888	1/19	FP339					9	6SG7, 6SA7, 6SK7,		
	Bass	38402	‡	MR55	M26			34889	13	FP234						[2]6SQ7, [2]6F6G, 6R7,		13-7,11
	Treble	38405	22	MR53												5U4G	455	80-82

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
220	Vol.	6682	19	TM221-SS1				6571	1	HD681					6	[3]58, 2A7, 2B7, 2A5, 80	175	4-84,86
	Tone	6681	34	MR39	M26			6691	13/15	3S584/TC22								
221	Vol.	K69461-2	19	TM221-SS1				6571	1	HD684					6	[3]58, 2A7, 2B7, 2A5, 80	370	5-91,94
	Tone	6705	34	MR39	M26			6703	1/13	3S581								
								3796	15	TC32								
V221, Ch. RC564	Vol.	36447	18	DTM291-SS1				37888	1/19	FP339					9	6SG7, 6SA7, 6SK7, [3]6SQ7, 6B7, [3]6F6G, 5U4G	455	13-7,11, 80-82
	Bass	38302	‡	MR55	M26			34889	13	FP234								
	Treble	38405	22	MR53														
222	Vol.	6682	19	TM221-SS1				6571	1	HD684					6	[3]58, 2A7, 2B7, 2A5, 80	175	4-84,86
	Tone	6681	34	MR39	M26			6691	13/15	3S584/TC22								
223	Vol.	K69109	19	MRT431				6859	13/15	3S581/TC62	B176	7735	Order from Mfr.		6	[3]6D6, 6A7, 6B7, 38, 84	175	5-95, 100
	Tone	6860	34	MR39														
224, 224E	Vol.	72291-4	19	TM221-SS1				7790	1	HD684					6	[3]6D6, 6A7, 6B7, 41, 80	460	6-33,39
	Tone	4517	34	MR39				4428	1	RS213								5-65,70
								7589	13	TCD71								
								4525	15	TC22								
225	Vol.	73294-7	19	TM221-SS1	M26			7790	1	HD684					6	6A7, [3]6D6, 6B7, 41, 80	460	6-29,32
								5101	1/14	3S584								
V225, Ch. RC564B	Vol.	36447	18	DTM291-SS1				37888	1/19	FP339					9	6SG7, 6SA7, 6SK7, [3]6SQ7, 6B7, [3]6F6G, 5U4G	455	13-7,11, 80-82
	Bass	38402	‡	MR55	M26			34889	13	FP234								
	Treble	38405	22	MR53														
226	Vol.		19	TM221-SS1				7790	1	HD684					6	[3]6D6, 6A7, 6B7, 42, 80	460	6-33,36
	Tone		44	MR39				4428	1	RS213								
								7589	13/14	TCD71								
								4525	15	TC22								
235B	Vol.	4535	45	MR44				4498	12	TC71					7	1C6, [3]34, [3]30, 32, 19	460	5-71,74
	Tone	69648-4	41	MR48														
236B	Vol.		45	MR44				4498	12	TC71					7	1C6, [3]34, [3]30, 32, 19	460	6-48,50
240	Vol.	K69461-2	19	TM221-SS1				6571	1	HD684					8	[3]58, 2A7, 2B7, 56, 53, 80	445	4-70,76
	Tone	6705	21	MR53	M26			6609	1	RS216								
								6626	14/15	TC71/TN111								
240 (Revised)	Vol.	K69461-1	19	TM221-SS1				6889/6609	1	RS216					8	[3]58, 2A7, 2B7, 56, 53, 80	445	5-75,80
	Tone	6892	21	UC505	6			6626	14/15	TC71/TN111								
241B	Vol.	6714	9	MR35				6548	12	TC52					8	[3]34, [3]30, 32	175	4-77,80
242, 243	Vol.	72291-4	19	TM221-SS1				7790	1	HD684					8	[3]6D6, 6A7, 75, 76, [3]42, 5Z3	460	5-81,89
	Tone	72291-5	41	MR53	M26			4626	13/15	3S579	B177							6-45,47
	Sen.	4618	7	UC500				4619	15/13	TC22/TP431								
260, 261	Vol.	67656-1	100	TRP622	6			6443	4	HD681					10	[4]58, [3]56, [3]2A5, 80	175	4-87,94
	B. Tone	6448	‡	Y200MP				6430	4/13	TCS71	B169							
	T. Tone	6449	41	UC505														
	Supp.	6450	7	A5MP														
262 (Two Types)	Vol.	K69461-6	45	TM221-SS16				7790	1	HD681					10	[3]6D6, 6A7, [4]76, [3]42, 5Z3	460	5-101, 110
	B. Tone	7795	‡	Y200MP				7788	1	RS216								
	T. Tone	4648	34	MR53				7833	15/14/19	3S579								6-51,52
	Sen.	7804	7	UC500														
262, 263 (1935 Production)	Vol.	4832	19	TM221-SS16				7790	1	HD684					10	[3]6D6, 6A7, 85, [3]76, [3]42, [3]80	460	6-53,59
	B. Tone	72291-9	‡	MR45				7788	1	RS216								
	T. Tone	72291-10	34	MR53				4831	14/19	TCS71								
	Sen.	7804	7	UC500														
280	Vol.	67656-1	100	TRP622				6571	2	HD684					12	[4]58, [4]56, 55, [3]59, 5Z3	175	4-95,98
	B. Tone	6448	‡	Y200MP				6574	13/14	2N518								
	T. Tone	6449	41	UC505														
	Supp.	6450	7	A5MP														
281	Vol.	67656-4	100	TRP622				7790	1	HD684					12	[3]6D6, 6A7, 85, [3]76, [3]42, 5Z3	460	5-111, 118
	B. Tone	7795	‡	Y200MP				7788	1	RS216								
	T. Tone	65469-2	41	UM165-SS16				7789	13/14/19	2S567/TC32	B179							
	Supp.	7804	7	UC500														
300	Vol.		6	MR34	M26	EX150		6587	9/15	See Note	B180				4	78, 77, 38, 25Z5		4-99, 102
	Phono.		64	E12														
V300 (RC518), V301, V302 (RC518A, R518A)	Vol.	36447	20	DTM291-SS1				36599	1/19	FP126	B8				11	[3]6SK7, 6SA7, 6H6, 6J5, [3]6F6G, 6U5/6G5, 5U4G	455	12-63,64
	Treble	36449	121	Order from	Mfr.			86031-4	13/15	FP332								
301	Vol.	6667	7	E	6			6661	1/15	2N518/2N509					4	6A7, 6F7, 41, 1V	460	5-119, 122
	Phono.	6827	16	MR53				6832	13	TC52								
VHR307 (RC555)	Vol.	37859	20	DTM291-SS1	M27			34065	1	FP145					12	[3]6SK7, 6SA7, [3]6H6, 6SJ7, [3]6F6G, 12K7GT, 6U5/6G5, 5U4G	455	12-65, 66,86
	Treble	36449	121	Order from	Mfr.			37877	13	TC74								
	Mike	84779-22	15	MR48				31584	19	TC48								
								34150	1/13/15	FP339								
								34150	14/13/15	FP339								
310	Vol.	67889-8	7	D	6	1		7590	1	HD684					5	58, 2A7, 57, 2A5, 80	175	4-103, 106
	Tone	6645	34	MR39				7589	1/14	TCD71								
	Phono.	6475	63	E12	8		A66											
Duo 320, Duo 321	Vol.	K69461-2	19	TM221-SS1				6571	1	HD684					6	[3]58, 2A7, 2B7, 2A5, 80	370	5-123, 134
	Tone	6705	34	MR39	M26			6703	1/13	3S584								
	Phono.	73000	‡	Order from	Mfr.			3796	15	TC32								
322, Duo 322, 322E, Duo 322E	Vol.	72291-4	19	TM221-SS1				7790	1	HD684					6	[3]6D6, 6A7, 6B7, 41, 80	460	6-60,71
	Tone	4517	34	MR39				4428	1	RS213								
	Phono.	69915-1	‡	Order from	Mfr.			7589	13	TCD71								
								4525	15	TC22								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement*	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
327	Vol.	K69461-2	19	TM221-SS1				6986	24	2N509	B11				6	[2]6D6, 6A7, 75, [2]41	370	5-135, 140
	Tone	6705	44	MR39	M26			6985	13	2N516								
	Phono.	73979	‡	Order from	Mfr.			3796	15	TC32								
330, 331	Vol.	6594	19	MRT431				7590	25	HD684					7	[2]58, 2A7, 55, 56, 80, 53	175	4-107, 118
	Tone	6595	21	MR48	M26			6555	25/13	TCS71								
	Phono.	69651-2	63	MRT443	M26			3536	15	[2]TC32								
340, 340E	Vol.	K69461-1	19	TM221-SS1				6571	1	HD684					8	[2]58, 2A7, 2B7, 56, 53, 80	445	5-149, 156
	Tone	6627	21	MR53	M26			6609	1	RS216								
	Phono.	69915-1	‡	Order from	Mfr.			6626	13/15	TC71/TN111								
340, 340E "All Wave Duo"	Vol.	K69461-1	19	TM221-SS1				6609/6889	1	RS216					8	[2]58, 2A7, 2B7, 56, 53, 80	445	5-141, 148
	Tone	6892	21	UC505				6626	13/15	TC71/TN111								
	Phono.	69915-1	‡	Order from	Mfr.													
341, 342	Vol.	72291-4	19	TM221-SS1				7790	1	HD684					8	[2]6D6, 6A7, 75, 76, [2]42, 5Z3	460	5-157, 164
	Tone	72291-5	41	MR53	M26			4626	13/15	3S579	B177							
	Sen.	4618	7	UC500				4619	15	TC22/TP431								
	Phono.	69915-1	‡	Order from	Mfr.													
Duo 380, Duo 380 HR	Vol.	67656-1	100	TRP622	6			6571	2	HD684					12	[4]58, 56, 55, [2]59, 5Z3	175	5-171, 188
	T. Tone	6449	41	UC505				6574	13/14	2N518								
	B. Tone	6448	‡	Y200MP				6797	15	TC22								
	Supp.	6450	7	A5MP														
	Phono.	6799	‡	Order from	Mfr.													
Duo 381	Vol.	67656-4	100	TRP622				7790	1	HD684					12	[4]6D6, 6A7, [2]76, 85, [2]42, 5Z3	460	5-189, 202
	T. Tone	65469-2	41	UM165-SS16				7788	1	RS216								
	B. Tone	7795	‡	Y200MP				7789	13/19	2S567/TC32	B179							
	Supp.	7804	7	UC500														
V405 (RC521B)	Vol.	36337	20	MRT449				25433	1/19	FP339					9	[2]6SK7, 6SA7, 6H6, [2]6SF5, [2]6F6G, 5U4G	455	12-83
	Treble	36339	22	MR53	M26			32105	13	TC44								
VHR407 (RC547A)	Vol.	37019	124	MRT427	M26			34889	1	FP234					11	[2]6SK7, 6SA7, 6Q7, 6SJ7, [2]6F6G, 12K7GT, 6H6, 6U5/6G5, 5U4G	455	12-54-57
	Mike	84779-22	127	MR48				31584	19	TC29								
	Bass	37023	‡	MR55	M26			36589	13	FP143								
	Treble	37024	22	MR53				32105	13	TC44								
Radiola 500, 501	Vol.	35330	18	MR44	M26		A106	39124-1	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-60
510 (3rd Prod.) Ch. RC1003D	Vol.	35344	18	MR48	M26		A106	35348	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-61,62
Radiola 510, 511, 512, 513	Vol.	84701-30	18	MR48	M26		A106	35348	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-67
515	Vol.	36242	18	MR48	M26		A106	36301	77	2N520					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	
516, 517 Ch. RC1001C	Vol.	36584	18	MR48	M26		A106	36301	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-83
520 (1st. Prod.) Ch. RC1003D	Vol.	35344	18	MR48	M26		A106	35348	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-61,62
522 (2nd Prod.) Ch. RC1022A	Vol.	35344	18	MR48	M26		A106	35348	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-63
526, 527 Ch. RC1001E	Vol.	36584	18	MR48	M26		A106	36301	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-84
R560P Ch. RC517F	Vol.	37977	18	MR48				36301	77	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-85
R566P	Vol.	38409	18	MR48				39500	9	TC45					5	12SA7, 12SK7, 12SQ7, 35L6GT, 50Y6GT or 50L6GT, 35Z5GT	455	13-86
								39501	9	Order from	Mfr.							
810K, 810K1, 810T	Vol.	14335	20	MRT449				14531	25	RS223					10	[2]6K7, 6L7, 6J7, 6H6, 6N7, [2]6F6, 6G5, 5T4	460	9-175, 179
810T4	Vol.	14335	20	MRT449				5212	25	RS216								
								14531	25	RS223					10	[2]6K7, 6L7, 6J7, 6H6, 6N7, [2]6F6, 6G5, 5U4G	460	9-181, 184
								5212	25	RS216								
811K	Vol.	72558-44	20	MRT449				14531	25	RS223					11	[2]6K7, 6L7, [2]6J7, 6H6, 6N7, [2]6F6, 6G5, 5T4	460	8-153, 159
	Fid.	14764	22	MR48				5212	25	RS216								
								14829	13/14	3S579								
812K	Vol.	12861	20	DTM295-SS1				14531	25	RS223					12	[2]6K7, 6L7, [2]6J7, 6H6, 6N7, 6G5, [2]6F6, 5T4	460	8-161, 166
	Fid.	14703	22	Order from	Mfr.			5212	25	RS216								
								14829	13/14	3S579								
813K	Vol.	12861	20	DTM295-SS1				14531	30	RS223					13	[2]6K7, 6L7, [2]6J7, 6H6, 6C5, [2]6F6, 6G5, 5T4	460	9-185, 193
	Fid.	14703	22	Order from	Mfr.			5212	30	RS216								
								14377	14	RS216								
								13611	19	TC26								
								11902	15	TN111								

‡ Data not substantiated.

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MANUFACTURER AND MODEL*	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
816K	Vol.	12861	20	DTM295-SS1				14531	30	RS223					16	[4]6K7, 6L7, [2]6J7, [2]6H6, 6C5, 6F6, [2]6L6, 6G5, [2]5T4	460	9-192, 200
	Fid.	14703	22	Order from	Mfr.			5212	30	RS216								
								14377	14	RS216								
								14902	15	TN111								
								13611	19	TC26								
910KG	Vol.	31450	20	MRT449			A59	14531	25	RS223					10	6A8, 6K7, 6J7, 6U5, 6H6, [2]6F5, [2]6F6, 5T4	455	9-201, 206
	Tone	72357-43	22	MR53	M26			5212	25	RS216								
911K	Vol.	72357-44	18	MRT449			A59	14531	25	RS223					11	[2]6K7, 6A8, 6J7, 6H6, 6U5, [2]6F5, [2]6F6, 5T4	455	9-207, 210
	Tone	72357-43	22	MR53	M26			5212	25	RS216								
ER-1240-A2	Vol.		7	SRP134				10	4	HD681					12	[2]35, [2]27, 24A, [2]45, 80, [2]81, [2]50	175	3-63, 67
	Tone		41	MR48				4	4	HD684								
	Mike		‡	V														
AC3789 (Nash)	Vol.	32295	‡	MR48				10-10-20	24/15	FP332		13688	859	C3	5	6A8, 6K7, 6Q7, 6F6G, 6X5G	‡	
								.0075		Buffer	B14							
AR-4229	Vol.	K67967	18	SRP251	6			4-4	1	2N518	B169	7689	271	C15	4	78, 6A7, 6B7, 41	175	5-203, 206
								6492	13	Order from	Mfr.							
								3536	15	[2]TC32								
MI-4816, MI-4817, MI-4818	Vol.	12392	50	V														13-89
MI-4829	Vol.	36182	50	MR48														13-90
MI-4829A	Vol.	37047	50	A														13-90
MI-4839	Vol.	35473	‡	MR48				46708	46/13/15	Order from	Mfr.				6	[2]6SC7, 6N7, [2]6L6, 5V4G		14-84, 85
	Tone	31637	‡	MR48	M26			46707	13	TC22								
MI-8122 (Vib. Power Sup.)								33879	1	TC72		31795	246A	C22				14-4
								.02-.02		Buffer	B14							
MI-12224, MI-12224A	Vol.	35473	15	MR48				34065	12	FP145					8	[2]6J7, [2]6C5, [2]6L6, 5U4G		14-75-78
	Tone	35474	21	MR53				31323	13	TC45								
								18530	13	FP227								
								34061	15	FP211								
MI-12232	Vol.	35473	141	MR48				46731	46/15	Order from	Mfr.	46735	Order from	Mfr.	5	6SJ7, 6SC7, [2]6L6, 6X5		14-79, 80
	Tone	31637	‡	MR48	M26			46707	15	TC22								
								.001		Buffer	B14							
MI-12233	Vol.	35473	‡	MR48				46708	46/13/15	Order from	Mfr.				6	[2]6SC7, 6N7, [2]6L6, 5V4G		14-84, 85
	Tone	31637	‡	MR48	M26			46707	13	TC22								
MI-12236-A, MI-12237-A	Vol.	35317	15	MR48				32240	14/13/15	FP339					4	[2]6J7, 6L6, 5Y3G		14-81, 83
	Tone	35319	57	E12	6			31323	15	TC45								
								31568	24	RS223								
MI-12238-A, MI-12239-A	Vol.	35317	15/16	MR48				32240	13/14/15	FP339					4	[2]6J7, 6L6, 5Y3G		14-82, 83
	Tone	35319	57	E12	6			31323	15	TC45								
								31568	24	RS223								
MI-12754, P-A Equipment	Vol.	30164	‡	MR44	M28			32019	13	FP434		18010	725C	C3	7	[2]1612, [2]6N7, [2]6L6, 5Z3		13-91-94
	Tone	30452	41	MR53				32020	13	FP145								
								32021	12	FP144								
								32018	15	FP354								
								.005		Buffer	B14							
MI-12763	Vol.	35473	141	MR48				46731	46/15	Order from	Mfr.	46735	Order from	Mfr.	5	6SJ7, 6SC7, [2]6L6, 6X5		14-79, 80
	Tone	31637	‡	MR48	M26			46707	15	TC22								
								.001		Buffer	B14							
23590-2	Vol.	4702	9	A5MP	6			6728	25/15	3S582/TN111	B172				5	78, 6A7, 77, 43, 12Z3	175	5-207, 209
RADIO MFG. ENGINEERS, INC.																		
ME-14	Vol. (Audio Gain)	A209	2/12	Order from	Mfr.										6	[3]1N5G, 1A7G, 1H5G, 1A5G	525	11-1, 2
		1.8	18	MR44	M26													
DM-30X								10-15	1	FP227	B3				4	1852, 6SJ7, 6J5, 80	1550	11-6
41-43	Vol.		15	MR44				15-15-10	3	FP390					9	[3]7B7, 7J7, 7B6, 7C7, 7A6, 7C5, 80	455	13-1-7
	Tone		21	MR53	M26			20	15	TC26								
	RF Gain		7	Order from	Mfr.													
RME 69A AC	Vol.		83	MR44	M27			8, 8	3	ST595					9	[2]6D6, 6C6, 6B7, 42, 80	465	8-1
	Tone		21	MR53	M26			12	3	ST597								
	Sen.		7	MR38				20	15	TC26								
	Meter		‡	C200P														
RME 69B Battery	Vol.		83	MR44	M27			20	15	TC26					8	[2]6D6, 6C6, 6B7, 42	465	8-1
	Tone		21	MR53														
	Sen.		7	MR28														
	Meter		‡	C200P														

‡ Data not substantiated.

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† Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS: Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	CONDENSERS: Original Part	Circuit	Correct Replacement	*Note	VIBRATORS: Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
RADIO MFG. ENGINEERS, INC.— Continued																		
RME70	Vol.	1.19	83	Order from	Mfr.			15-15-10-40.	3/15	FP444					11	²6K7G, 6J7G, 6H6, 6A6, 6F6, 80, 6K7	465	11-12-14
	Gain	1.1	8	MR28	M26													12-8-10
	Tone	1.24	21	MR53	M26													
	Meter	1.28	8	X														
RME99	Vol.		15	MR44	M26			15-15-10-20.	3/15	FP424					12	²7A7, 7B8, 7F7, 7C5, 7A6, ²7A4, VR150, 80	465	12-13-15
	RF Gain		7	Order from	Mfr.			20	15	TC26								
	Limiter		‡	Order from	Mfr.													
	Meter		‡	Order from	Mfr.													
RME99, Late	Vol.		15	MR44	M26			15-15-10-20.	3/15	FP424					12	²7B7, 7B8, 7F7, 7C5, 7A6, ²7A4, VR150, 80	465	13-8,9
	RF Gain		7	Order from	Mfr.			20	15	TC26								
	Limiter		‡	Order from	Mfr.													
	Meter		‡	Order from	Mfr.													
R. P. C. (Radio Products Corp.)																		
A1	Vol.	P934	18	MR48	M26			P950	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5W4	456	7-1,2
	Tone	P943	34	MR48														
A3	Vol.	P934	45	MR48	M26			4	32	ST595					6	6A7, 6D6, 76, 75, 42, 80	456	10-1
	Tone	P943	34	MR39				8-4	32	2N518								
B2	Vol.	P912	18	MR48	M26			P337	6	2N509					5	6A7, 6D6, 75, 43, 25Z5, L49B	456	7-3,4
								P304	15	TC22								
L2	Vol.		75	Order from	Mfr.			4	32	HD684					6	6A7, 6K7, 6H6, 6F5, 6F6, 80	456	7-5
	Tone		34	MR53	M26			8-4	32	2N518								
L4	Vol.		75	Order from	Mfr.			4	32	HD684					7	6A8, 6K7, 6H6, 6A6, ²6F6, 80	456	7-6
	Tone		44	MR39	M26			8-4	32	2N518								
L5	Vol.	P660	18	MR48	M26			P474	32	HD684					7	6F5, 6F6, 6H6, 6K7, 6L7, 5Z4, 6C5	456	9-6
	Tone	P661	34	MR39				P160	32	2N518								
								P304	15	TC22								
L6	Vol.	P660	18	MR48	M26			P474	32	HD684					8	6C5,²6F6, 6K7, 6L7, ²6Q7, 5Z4	456	8-1
	Tone	P661	44	MR39				P160	32	2N518								
								P304	15	TC22								
L7	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, 19,²30,²34	456	8-2
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
M1	Vol.	P660	18	MR48	M26			P160	1	2N518					6	6A8, 6Q7, ²6K7, 6F6, 5Y3	456	8-3
	Tone	P661	34	MR39														
U6	Vol.	P801	17	UM163-SS3	M26			P795	4	TCS71		P816	294	C3	6	6D6, 6A7, 75, 6F6, 84, 6K7	175	
	Tone	P828	22	MR39				G864	15	TC32								
								.0075		Buffer	B14							
X8	Vol.		18	MR48	M26			8-4	1	2N518					5	6A7, 6D6, 75, 42, 80	456	10-5
Z2	Vol.	P630	45	MR48	M26			P160	1	2N518					6	6A7, 6D6, 6H6, 6F5, 42, 80	456	8-4
	Tone	P633	34	MR39														
Z3	Vol.	P934	45	MR48	M26			P950	1	2N518					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	456	7-7,8
	Tone	P995	34	MR39														
Z4	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 19,²30, 32, 34	456	9-2
	Tone	P682	44	MR39				.01-.01		Buffer	B14							
Z5	Vol.	P961	45	Order from	Mfr.			P958	1	2N516		P402	245C	C3	6	1C6, 19,²30, 32, 34	456	7-9,10
	Tone	P962	44	MR39				.01-.01		Buffer	B14							
4A	Vol.	P2600	18	MR48	M27			P2602	19	TC26					4	1A7G, 1N5G, 1H5G, 1C5G	456	9-1
4H	Vol.	P2498	6	MR36	M26			P2434	1	TC47					4	6K7, 6J7, 25L6, 25Z6		10-2
								P2500	1	TC44								
5A	Vol.	P2392	18	MR53	M26			P2397	23	2S567					5	6A7, 6D6, 75, 41, 5Y3G	456	9-3
5C, 5CPH	Vol.	P2213	6	MR36	M26			P2216	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, L55B		9-4
5E	Vol.	P2432A	18	MR48	M26		A58	P2434	25	TC47					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	9-5
								P2427	25	TC44								
5F	Vol.	P2450A	18	MR48	M26			8-8	23	2S567					5	6A7, 6D6, 75, 41, 80	456	10-3
5G	Vol.	P2450	6	MR33	M26			8-8	25	2S567					5	6D6, 6C6, 41, 76, 80	456	10-3
6D	Vol.	P2271	18	Order from	Mfr.			P2251	1	2N518		P1414	859	C3	6	6A8G, 6U7G, 6Q7G, 6G6G, 6J5G, 6ZY5G	456	9-7
								.015		Buffer	B14							
7A	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P2147	859	C3	7	6D8G, 6S7G, 6T7G, 6G6G, 6L5G, 6AR5, 6ZY5G	456	9-8
	Tone	P2137	34	MR39	M27			.015		Buffer	B14							
7G	Vol.	P2558A	80	MK401	M26			P2575	25	ST597					7	6A7, 6D6, 75, 41, 6G5, 80, 76	456	9-9
	Tone	P2559A	80	MK401														
55 (Auto)	Vol.	P2321	18	UM154-SS3	M26			8-8	23	2S567		P1414	859	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	9-10
								.006		Buffer	B14							
69	Vol.	P1371	18	UM154-SS3	M26			8-6	23	2S567		P1414	859	C3	6	²6K7, 6A8G, 6Q7G, 6K6G, 6X5G	456	9-6
	Tone	P828	22	MR39				.0075		Buffer	B14						175	10-6
RADIO PRODUCT SALES CO.																		
140, 170	Vol.		6	MR18				4-4	23	2S567					4	6D6, 76, 42, 80		§8-7
178 (No. 78143 and up)	Vol.		6	MR18				4-4	23	2S567					5	6A7, 6K7, 76, 42	450	§8-7
RADIOTROPE (Also see U. S. Radio and Television)																		
G Console	Vol.		6	F7	6			8, 8, 8	28	RS213					8	²24A,²27,²45, 80		3-2
	Tone		41	MR48														
R Console	Vol.		7	MR19				8, 8, 8	28	RS213					8	²24A,²27,²45, 80		3-2
	Tone		41	MR48														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
RADIOTROPE (Also see U. S. S2 (Two Types)	Vol.	Radio and Te	8	levisio A400P	n)—Continue	d		1-3-1	3	See Note	B1				8	§24A,§27,§45, 80		3-1
	Tone		41	MR18														
27R (Early & Late)	Vol.		8	UC500		See No	te A27	8, 8	1	RS213					5	§24A, 27, 45, 80		1-2
	Vol.		6	F7		See No	te A4											
62, 64	Vol.		6	F7				8, 8, 8	28	RS213					7	§24A, 27,§45, 80		3-3
	Tone		41	MR18														
70R	Vol.		15	MR53				2803	1	TC71					10	§35,§27,§47, 80	262	
	Tone		44	MR42				2719	13	TC71								
								2852	14	TC71								
71R, 72R, 73R	Vol.		15	MR53				2803	1	TC71					8	§35,§27, 47, 80	262	
	Tone		34	MR42				2852	17	TC71								
74R (First Type)	Vol.		6	F7				8, 8	1	RS213					5	§24A, 45, 80		3-4
74R (Second Type)	Vol.		6	F7				8, 8	1	RS213					5	§24A, 47, 80		1-1
RADIO VISION CORP. AX	Vol.	2009B	45	MR18	M26			317	4	RS213					6	6A7, 6D6, 76, 6F5G, 42, 80	456	§8-10
	Tone	2021	22	MR39														
RADOLEK																		
Marvelo & Monroe "6-7"	Vol.		10	D12				2-1-1-2-1	3	See Note	B1				7	§26, 27, 71A, 80		4-1
Marvelo 8-9	Vol.		10	D12				1-2-1-1-2	3	See Note	B1				9	§26,§27,§71A, 80		3-1
Marvelo 30, SR222, Monroe	Vol.		12	A5MP				4-4-2	3	See Note	B1				7	§35,§56,§47, 80		2-1
SR223 Marvelo & Monroe (Trio Tone Dynamic)	Vol.		12	A5MP				2-3-2-2	3	See Note	B1				9	§35,§56,§47,§80		3-1
SR224 Little Leader	Vol.		6	E7		4		4-4	1	2N518					4	§24A, 47, 80		3-4
SR225 Marvelo "6" Midget	Vol.		12	A5MP				4-4-4	3	3S584					6	§35,§56, 47, 80		2-1
	Tone		22	MR18														
SR227 Batt. Super	Vol.		62	MR18											9	§34,§30	456	3-2
	Tone		22	MR42														
SR228 Marvelo	Vol.		8	F			A14	8-8	1	See Note	B3				7	§35,§24A, 47, 80, 27	175	3-2
	Tone		22	MR33														
SR229 10 Tube Super	Vol.		6	MR18				10-10	1	See Note	B3				10	§56,§57,§58, 47,§80	175	3-1
	Tone		22	MR33														
SR230 (1933—12 Tube Super)	Vol.		45	MR33				8-8-4	3	See Note	B3				12	§58,§56,§57,§46, 82	175	4-1
	Tone		41	MR42				8	19	TC32								
	Supp.		12	E12														
SR231 "1933" Compact 5 Tube	Vol.		6	G7		2		8-4	25	TCS71					5	57, 58, 55, 47, 80	‡	3-3
SR232 "Little Master"	Vol.		7	G		2		8-4	4	TCS71					4	58, 57, 47, 80		3-4
SR233 (1933—12 Tube Super)	Vol.		16	MR18				8-8-8	3	3S581	B3				12	§56,§57,§58,§47,§80	‡	4-2
	Tone		22	MR33				4	15	TC32								
SR234 (1933—10 Tube Super)	Vol.		15	MR48				8-8-8	3	3S584	B3				10	§56,§58, 55,§47, 80, 57	‡	4-2
	Tone		44	MR33														
	Supp.		12	MR18														
SR235 (1933—5 Tube Super)	Vol.		17	MR48				8-8	1	2N518					5	57, 58, 55, 47, 80	‡	2-1
SR236 Marvelo (1932 9 Tube)	Vol.		62	MR18				12-8	34	See Note	B3				9	§35,§24A,§27,§47, 80	‡	4-2
	Tone		22	MR33														
SR237 DeLuxe 5 Tube	Vol.		6	G7		2		8-4	4	2S567					5	§57, 58, 47, 80	‡	3-3
	Tone		22	MR33														
SR241	Vol.		16	MR48				8, 8	1	ST595					4	58,§47, 80		8-2
SR243 "1933" 7 Tube Super	Vol.		17	MR48				8-8	1	2N518					7	56, 57,§58, 55, 47, 80	‡	3-3
	Tone		22	MR33														
SR247								8, 8	2	ST595					5	§21,§46, 83		8-2
SR248 Monroe	Vol.		10	D12				1-2-1-1-2	3	See Note	B1				9	§26,§27,§71A, 80		3-1
SR249 Marvelo	Vol.		1	D12				‡	‡	See Note	B4				10	§26,§27,§50,§80		3-2
	Tone		22	MR18														
SR270 (1934) 15 Watt Amp. (AC)	Vol.		16	MR41				8, 8, 8	30	RS213					5	57, 56,§2A3, 5Z3		6-1
	Tone		41	MR44				10	15	TC22								
SR271 (1934—30 Watt Amp.)	Vol.		16	MR44				8-8-8	30	See Note	B3				7	57, 56,§2A3, 5Z3		6-2
	Tone		41	MR41				10	15	TC22								
SR274 (1934) 15 Watt Amp. (DC)	Vol.		16	MR41				8, 8	24	RS213					4	39, 37,§2A3		6-1
								10	15	TC22								
SR280 (3 Watt Amp.)	Vol.		16	MR44				8-8	1	RS213					3	57, 2A5, 80		6-2
	Phono.		16	MR33				10	15	TC22								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
RADOLEK—Continued																		
SR287 Octomatic	Vol.		17	MR44				8, 8	1	See Note	B3				6	§8, 2A7, 2A6, 2A5, 80	‡	6-1
	Tone		22	MR33				10	20	TC22								
								25	15	TC26								
951	Vol.	9331	6	H7	6	2		9442	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5	265	5-1
956, 958	Vol.	9666	17	MR44	M26			9659	1	RM262					6	§57, 58, 2A6, 2A5, 80	465	5-3,6
	Tone	9174	22	MR33				8876	15	TC22								
10926	Vol.		*18	MR48	M26			16-12-8	11	UR182	B3				5	6A7, 6D6, 75, 43, 25Z5	456	7-1
10927	Vol.		75	MR48	M26			8-8	23	TCS71	B3				6	6A8, 6K7, 6H6, 6F5, 6F6, 80	456	7-2
10928	Vol.		18	MR48				6-10	23	TCS71	B3				5	6A7, 6D6, 75, 42, 80	456	7-3
10931	Vol.		6	MR21	M26	EX200		16-12	23	TCS41					4	6D6, 6C6, 43, 25Z5		7-4
10943, 10944, 10946	Vol.		75	MR48				4	32	HD684					6	6A7, 6K7, 6H6, 6F5, 6F6, 80	456	7-5
	Tone		34	MR48				8-4	32	2N518								
10951	Vol.	9331	6	H7	6	2		9442	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5	262	5-7,8
10953	Vol.		7	MR31		EX150		7-4	1	2N518					4	58, 57, 2A5, 80		5-9
								5	15	TC22								
10956	Vol.	9666	17	MR44	M26			9659	1	RM262					6	§57, 58, 2A6, 2A5, 80	465	5-9,10
	Tone	9174	22	MR33				8876	15	TC22								
10962	Vol.		6	G7		2		4-4	4	See Note	B3				4	78, 77, 42, 80		5-12
	Tone		22	MR39														
10963, 10964	Vol.		15	MR44				4-4	4	See Note	B3				5	6A7, 78, 75, 42, 80	465	5-13
	Tone		22	MR39				5	19	TC32								
								5	15	TC22								
10966	Vol.		6	G7		2		4-4	4	See Note	B3				5	§6D6, 6C6, 42, 80		5-14
								5	19	TC32								
								5	15	TC22								
10967	Vol.		6	MR39		EX400		20-4-5-5	6/15	3S582/TN111	B98				5	78, 44, 43, 25Z5, 77	456	5-12
10968 (32 Volt)	Vol.		15	MR44				6-10	1	2N518			Order from Mfr.		5	6A7, 78, 75, 42, 84	456	5-13
	Tone		22	MR39				5-5	15	TN111								
								.05-.05		Buffer	B14							
10969	Vol.		54	MR44				5	19	TC32					5	1A6, 34, 32, 30, 19	456	5-11
	Tone		22	MR39														
10970	Vol.		17	MR18				4-8-4	26	3S584	B3				8	§78, 37, 85, §42, 80	456	5-14
	Tone		41	MR39														
11908	Vol.	1039	6	MR18		EX250		2027	11/15	2N516/2N509	B120				5	6A8, 6K7, 6J7, 43, 25Z5	456	7-6
11910	Vol.		6	MR21		EX200		16-12	23	TCS41					4	6D6, 6C6, 43, 25Z5	456	7-7
11911	Vol.		6	MR21		EX250		8, 8	23	ST595					5	6A7, 6D6, 76, 42, 80	456	7-8
	Tone		22	SRP263														
11935	Vol.		18	MR18											5	1C6, 34, 1B5, 30, 19	465	7-9
11947	Vol.		15	MR18				8, 8	‡	ST595					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	456	7-10
	Tone		22	MR39														
K16700	Vol.	4102A	6	MR21	M26			4801A	27	2S556					3	6D6, 6C6, 25A7		
K16701	Vol.	4106A	18	MR48	M26			4801B	27	TCS45					4	6A7, 6D6, 75, 25A7	456	
K16702	Vol.		18	MR18	M27			8-8	1	See Note	B3		See Note	C8	5	1C6, 1A4, 75, 30, 19	456	
								.005		Buffer	B14							
K16703	Vol.		45	MR48	M27			8-8	1	See Note	B3		See Note	C8	7	1C6, §34, §30, 19	456	
								.005		Buffer	B14							
K16705	Vol.	2009	17	MR18	M26			311	27	ST599					6	6A7, 6D6, 75, 43, 25Z5, 6E5	456	
								312	27	TC44								
K16706	Vol.	2007	45	MR18	M26			302	1/15	3S579					7	6A7, 6D6, 76, 42, 80, 75, 6E5	456	
	Tone	2008	22	MR39														
K16722	Vol.		15	MR48				8-8	4	TCS71					6	6A7, 6K7, 76, 6F5, 42, 80	456	
	Tone		34	MR39				5	15	TC32								
K16725	Vol.		45	MR48				4-8-8	1/14	3S584					10	§6K7, 6A8, 6D6, §76, §6B5, 80, 75, 6G5	456	
	Tone		22	MR48				5	15	TC32								
K16728	Vol.		17	MR48				20-4-5-5	6/15	3S582/TN111	B98				5	6A7, 6K7, 75, 43, 25Z5	456	
	Tone		22	MR39														
K16740	Vol.	P912	17	MR48	M26			P337	6	2N509					5	6A7, 6D6, 75, 43, 25Z5	456	
								P304	15	TC32								
K16743	Vol.	P961	45	Order from	Mfr.			P958	1	2N516		P402	245C	C3	6	1C6, 34, §30, 32, 19	456	
	Tone	P962	44	MR39				.01-.01		Buffer	B14							
K16746	Vol.	P1131	45	MR48	M27			P958	1	2N516		P402	245C	C3	7	1C6, §34, §30, 19	456	
	Tone	P1026	22	MR53				.01-.01		Buffer	B14							
K16747	Vol.	P934	18	MR48	M26			P950	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5W4	456	
	Tone		34	MR48														
K16748	Vol.	P912	18	MR48	M26			P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	
K16749	Vol.	P405	18	MR48	M27			P958	1	2N516		P1101	245	C3	4	1C6, 34, 1B5, 1F4	456	
K16751	Vol.		17	MR48	M26			8	3	RS213					10	§6K7, 6A8, 6Q7, §6L6, 6G5, §5W4	456	
	Tone		22	MR53				4-8	3	2N518								
								4	13	TC71								
								5	15	TC22								
K16753	Vol.	P1158	15	MRT436	M26			Tuner Section							19	§6K7, 6A8, 6H6, 6C5, 6G5, §5W4, 85, 6D6, 42, §45, 80, 83V	456	
	Tone	P1159	22	MR39				P1156	3	RS223								
								P1158	14	RS223								
								P1155	3	TC74								
								P1043	13	TC70								
								P304	15	TC22								
								Amplifier Section										
								P1156	2	RS223								
								P950	13	2N518								
								P1208	‡	TN129	B8							
								P304	15	TC22								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
RADOLEK—Continued																		
K16756	Vol.	P934	75	MR48	M26			P950	1	2N518					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	456	
	Tone	P995	34	MR39														
K16759	Vol.		17	MR48	M26			8	3	RS213					8	§6K7, 6A8, 6Q7, 6L6, §5W4, 6G5	456	
	Tone		22	MR53				4-8	3	2N518								
								5	15	TC32								
K16772	Vol.	2198	18	UM164-SS16				1477	25	RS215					8	6A7, 6K7, 75, 6C5, §6F6, 80, 6G5	465	
	Tone	2199	44	MR33	M26			1476	25	RS216								
K16773	Vol.	2239	18	MR48											6	6A7, 6D6, 75, 76, §48	465	
	Tone	2199	22	MR39	M26													
K16777	Vol.	2699	20	TM228-SS16				3167	25	RS223					10	§6K7, 6L7, 6J7, 6H6, 6C5, §6F6, 5Z3, 6E5	465	
	Tone	2700	22	MR33	M26			1476	25	RS216								
								3170	19	TC32								
								1110	13	TC70								
								8876	15	TC32								
K16780	Vol.	2966	45	TM234-SS16				3060	1	2N518		3069	245A	C3	8	§15, 6A7, §76, 19, 6E5	465	
	Tone	2965	44	MR33	M26			3159	13	TC70								
								8876	15	TC22								
K16790	Vol.		18	MR48	M26			8-8	23	2S567					7	6C6, 6D6, 75, 42, 76, 6G5, 80	465	
K16825	Vol.	P801	17	UM161-SS1	M26			P795	4	TCS71		P816	294	C3	6	6D6, 6A7, 6K7, 75, 6F6, 84	175	
	Tone	P828	22	MR39				G864	15	TC22								
								.0075		Buffer	B14							
N16700	Vol.		6	MR21	M26	EX500	A4	4801A	74	2S556					4	6D6, 6C6, 25A7, 25A6		
	Vol.		6	MR21		EX500	A27											
N16702	Vol.		18	MR48	M27			8-8	1	2N518			See Note	C8	5	1C6, 1A4, 75, 30, 19	456	
				MR48				.005		Buffer	B14							
N16704	Vol.		45	MR48	M27			8-8	1	2N518			245C	C3	7	1C6, §34, §30, 19	‡	
								.005		Buffer	B14							
N16729	Vol.	5-1	6	MR21	M26			7-1	4/20	UR182					4	6A7, 6C6, 43, 25Z5	456	
N16730	Vol.	A-5-1	6	MR21	M26			A-7-1	4/13	TCS44/TC42					4	6D6, 6C6, 43, 25Z5		
N16731	Vol.	5-32	17	MR48	M26			7-1	4/15	UR182	B259				6	6A7, 6D6, 75, 25B6G, 25Z5, 6G5	456	
N16762, N16763	Vol.	P1821	140	MRT436				P1825	1/13	3S584					8	6A7, 6D6, 75, §76, §42, 80	456	
	Tone	P1822	140	MR53				P1783	15	TC22								
N16765	Vol.	P1515	18	MR53	M26			P1511	23	RM262					5	6A7, 6D6, 75, 41, 80	456	
N16782	Vol.	3403	20	TM251-SS16				3167	25	RS223					11	§6K7, 6A8, 6J7, 6H6, §6C5, §6F6, 80	465	
								3041	25/13	2N518								
								1110	13	TC70								
								1693	20	TC22								
RELIANCE																		
L5	Vol.	P660	18	MR48	M26			P474	32	HD684					6	6F5, 6F6, 6H6, 6K7, 6L7, 5Z4	456	
	Tone	P661	34	MR39				P160	32	2N518								
								P304	15	TC22								
L6	Vol.	P660	18	MR48	M26			P474	32	HD684					8	6C5, §6F6, 6K7, 6L7, §6Q7, 5Z4	456	
	Tone	P661	44	MR39				P160	32	2N518								
								P304	15	TC22								
L7	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 19, §30, §34	456	
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
Z4	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 19, §30, 32, 34	456	
	Tone	P682	44	MR39				.01-.01		Buffer	B14							
Z5	Vol.	P691	45	Order from	Mfr.			P958	1	2N516		P402	245C	C3	6	1C6, §30, 19, 32, 34	456	
	Tone	P962	44	MR39				.01-.01		Buffer	B14							
REMLER																		
M50	Vol.		15	MR48				4, 4	4	TC70					3	6N7, 6F6, 5Z4		8-3
10	Vol.		58	II	6			8-8	4	See Note	B3				6	35, §24A, 27, 47, 80	180	3-2
10-3 "Cameo"	Vol.		6	MR21	M26	EX300		8-8	4	See Note	B3				6	27, §58, 57, 47, 80	250	4-1
	Tone		22	MR21														
10-3 "Cameo" (With 2A5 Output)	Vol.		6	MR21	M26		A14	8-8	4	See Note	B3				6	27, §58, 57, 2A5, 80	250	
	Tone		22	MR24														
10-4	Vol.		76	MR48	M26			8-8	4	TCS71	B3				6	6A7, §78, 6B7, 42, 80	450	5-1
	Tone		76	MR48														
11	Vol.		6	MR24		EX400		8-4-2	3	3S584					5	§24A, 47, 80		3-4
	Tone		34	MR21														
14	Vol.		6	MR24		EX400		8-4-2	3	3S584					6	§24A, 27, 45, 80		1-1
	Tone		34	MR21														
15	Vol.		7	II		3		8, 8	4	See Note	B3				7	§51, §24A, 27, 47, 80	180	3-3
15-3	Vol.		13	MR48				8, 8	4	RS213					9	§56, §58, §57, 47, 82	180	2-2
	Tone		22	MR21	M26			4	13	TC70								
	Supp.		12	MR48														
17	Vol.		6	MR24				8-4-2	1/17	3S584					8	§24A, §27, 45, 80	180	3-5
	Tone		34	MR21														
19	Vol.		15	MR48				8-6-8	3	3S584					10	§35, §24A, §27, §47, 80	180	3-2
	Tone		44	MR21														
	Sen.		7	II														
21 Minuette	Vol.		6	II7	6	3		8-8	4	TCS71	B3				4	35, 24A, 47, 80		3-3
21-3	Vol.		14	MR48	M26			8-4	4	TCS71	B3				4	§57, 47, 82	250	3-6
	Tone		22	MR24														
21-4	Vol.		18	MR48	M26			8-8	4	TCS71	B3				5	2A7, 58, 2B7, 2A5, 80	450	5-2
	Tone		76	‡		See Note	A5											

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
REMLER—Continued																		
26 (First Type) "Scotty"	Vol.		6	MR21	M26		A14	8-8	1	2N516					5	[2]77, 78, 43, 25Z5	450	3-6
								10	15	TC22								
26 (Above 54760) "Scotty"	Vol.		6	MR21	M26		A14	8-8	6	2N516					5	6A7, 78, 77, 43, 25Z5	450	6-1
								10	15	TC22								
27 "Scotty"	Vol.		17	MR48	M26			8-8	1	2N518			292		6	6A7, 78, 6B7, 89, 1V, 84	465	4-2
								10	15	TC22								
28	Vol.		6	MR18	M26	See Note	A14	10-10	4	TC44/TC42					5	6A8, 6K7, 6J7, 25A6, 25Z6, K49B	450	9-1
30	Vol.		6	MR21	M26			4-4	1	2N518					4	6A7, 6F7, 41, 84	450	4-3
35 Auto	Vol.		18	UM154		See Note	A96	8-4	1	2N518			292		6	6A7, [2]78, 75, 41, 84	450	5-3
	Tone		22	‡		See Note	A5	10-10	15	TN111								
36 Auto Radio	Vol.		18	UM154-SS17	M26			4-4	4	TCS71					6	[2]6D6, 6A7, 75, 76, 41	250	6-2
	Tone		22	MR24				8	14	TC71								
37 Police	Vol.		18	UM154-SS17	M26			4-4	4	TCS71					6	[2]6K7, 6A8, 6Q7, 6C5, 6F6	250	7-1
	Tone		22	MR24				8	13	TC71								
39	Vol.		18	MR48	M26			16-4	4	See Note	B3				5	6A7, 6K7, 75, 42, 80	450	10-1
	Tone		21	MR48														
40	Vol.		6	MR21	M26			4-4	1	2N516					4	6A7, 6F7, 41, 84	450	4-3,6-3
41	Vol.		6	MR18	M26			4-4	1	2N518					5	6A8, 6K7, 6J7, 6F6, 5Z4	450	7-2
42	Vol.		18	MR48	M26			8-8	4	TCS71	B3				6	[2]6D6, 6A7, 75, 42, 80	450	6-4
43	Vol.		17	MR48				8-8-10	1/19	3S579					7	[2]6K7, 6A8, 6H6, 6J7, 6F6, 5Z4	450	7-3
	Tone		22	MR24														
44	Vol.		18	MR39				8-8	25	2S567					7	[2]6K7, 6L7, 6C5, 6Q7, 6F6, 5Z4	450	7-4
	Tone		22	117				10	19	TC32	B10							
45	Vol.		15	MR48	M26			10-10	25	TCS71	B3				7	6L7, 6C5, 6K7, 6H6, 6F5, 6F6, 5Z4	450	7-5
	Tone		22	MR33				10	15	TC22								
46	Vol.		6	MR18	M26	EX200		4-4	23	TCS71					5	6A8, 6K7, 6J7, 6F6, 5Z4	450	8-1
46 (Above 107767)	Vol.		18	MR48	M26			16-4	4	See Note	B3				5	6A8, 6K7, 6Q7, 6F6, 5W4	450	9-1
	Tone		34	MR24														
47	Vol.		17	MR48	M26			4-4	25	TCS71					5	6A8, 6K7, 6Q7, 6F6, 5Z4	450	9-2
49	Vol.		6	MR18	M26	EX200		8-4	4	2S567					4	6D6, 6C6, 41, 80		9-3
51	Vol.		6	MR18	M26			4-4	23	TCS71					4	78, 77, 42, 80		7-5
53 (Above 54862)	Vol.		6	MR21	M26			8-4	1	2N518					5	6A7, 6D6, 53, 42, 80	450	6-5
53C (Above 56208)	Vol.		6	MR21	M26			8-4	1	2N518					5	6A7, 6D6, 76, 42, 80	450	6-6
55	Vol.		18	MR48	M26			16-4	4	See Note	B3				5	6A7, 6K7, 75, 42, 80	450	
60	Vol.		17	MR48	M26			4-4	23	TCS71					5	6A7, 6D6, 75, 42, 80	450	7-6
61	Vol.		18	MR48	M26			8-4	23	2S567					6	6A7, 6K7, 76, 6D6, 42, 80	450	9-4
	Tone		21	MR48				10	19	TC22								
62	Vol.		6	MR18	M26	EX200		10, 10	1	ST597					5	6A8, 6K7, 6J7, 6F6, 5Z4	‡	7-6
	Tone		22	MR33														
63	Vol.		17	MR48				10, 10	1	ST597					6	6A8, 6K7, 6H6, 6F6, 6F5, 5Z4	450	7-7
	Tone		22	MR33				10	15	TC22								
64	Vol.		15	MR48	M26			10, 10	25	ST597					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	450	7-7
								10	15	TC22								
65	Vol.		18	MR48	M26			8-4	1	2N518					7	6D6, 6K7, 76, 75, 42, 80, 6G5	450	9-4
	Tone		34	MR24				10	19	TC22								
71	Vol.		15	MR48	M26			10, 10	25	ST597					8	[2]6K7, 6L7, 6C5, 6F6, 6H6, 5Z4	450	7-2
	Tone		22	MR24														
72	Vol.		18	500M No. 1		See Note	A19	10, 10	25	ST597					10	[2]6K7, 6L7, 6C5, 6G5, 6H6, 6N7, [2]6F6, 5Z4	450	9-5
	Tone		34	MR33				10	15	TC22								
73	Vol.		62	UM154		See Note	A96	16-4	23	See Note	B3				6	6K8, [2]6SK7, 76, 42, 80	450	10-3
	Tone		34	MR24														
88	Vol.		17	MR48				8	25	ST595					10	[2]6K7, 6A8, 6H6, 6J7, [2]6A6, [2]2A3, 5Z4	450	7-8
	Tone		44	MR48				4	13	TC70								
								10	15	TC22								
89	Vol.		15	MR48				10, 10, 10	30	ST597					11	[2]6K7, 6L7, 6C5, 6H6, 6E5, [2]6F5, [2]6V6G, 5X4G	450	9-6
	Tone		‡	‡		See Note	A5	20	13	TC55								
91	Vol.		18	MR48				10	20	TC22					4	1C6, 1A1, 1F6, 33, 1A1	450	7-8
140, 170	Vol.		6	MR18	M26			4-4	23	2S567					4	6D6, 76, 42, 80		8-8
171	Vol.		6	MR18	M26	EX200		8-4	23	2S567					4	6D6, 6C6, 41, 80		
178 (Above No. 78142)	Vol.		6	MR18				4-4	23	2S567					5	6A7, 6K6, 76, 42, 80	450	8-8
179	Vol.		62	UM154		See Note	A96	8-4	23	2S567					6	6A7, 6K7, 76, 6D6, 42, 80		
								10	15	TC22								
180	Vol.		62	UM154		See Note	A96	16-16	29	TCS55					8	6D6, 6K7, [2]76, [2]41, 25Z5, L90B		
								8	29	TC52								
462	Vol.		18	MR48	M26			16-4	23	3S584					5	6A8GT, 6SK7, 6Q7GT, 6K6GT, 6X5G	455	11-1
REPUBLIC INDUSTRIES																		
Sky Hawk Patrician	Vol.	853	6	MR18	M26			965	8	UR182	B3				5	78, [2]77, 43, 25Z5	175	§6-12
								928	15	TC26								
MS & Jr	Vol.	534	6	MR18				4-4	4	See Note	B3				5	[2]57, 58, 47, 80	175	§3-7
RC5, RC6 "Skyhawk"	Vol.		18	MR48				4-4-4-8-8-4	‡	See Note	B3				7	[2]78, 6A7, 75, 42, [2]25Z5	175	4-1
	Tone		76	MR44														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
REPUBLIC INDUSTRIES — Continued																		
SL5D "Skyhawk"	Vol.	535	76	MR48	M26			496	4	2S567					5	6A7, 78, 75, 42, 80	175	4-2
	Tone	534	76	MR44				928	19	TC26								
SL6 "Skyhawk"	Vol.	512	6	MR18	M26	EX200		1085	8	UR182	B3				5	[2]77, 78, 43, 25Z5	115	5-3
	Tone	534	22	MR41				928	15	TC26								
SL6D "Skyhawk"	Vol.	535	18	MR48	M26			1085	8	UR182	B3				6	[2]78, 6A7, 75, 43, 25Z5	175	4-4
	Tone	534	21	MR41				928	15	TC26								
BP5E	Vol.		6	MR18	M26			4-10-4	8	UR182	B182				5	[2]77, 78, 43, 25Z5	115	4-1
								25	15	TC26								
CS6	Vol.		17	MR48	M26			4-4	4	2S567					6	77, 78, 76, 75, 42, 80	115	5-2
	Tone		21	MR41				25	19	TC26								
TL6C	Vol.		17	MR48				4-4	4	2S567					6	[2]78, 6A7, 75, 42, 80	175	5-3
	Tone		21	MR44				25	19	TC26								
TR5B	Vol.		17	MR48	M26			8-4	25	2S567					5	6A7, 78, 75, 42, 80	175	5-4
								25	19	TC26								
42	Vol.	19-1291	17	MR48	M26			18-2003	8	UR182					5	6A7, 78, 75, 43, 25Z5	175	7-1
								18-928	15	TC26								
51	Vol.	19-1291	17	MR48	M26			18-2003	8	UR182					5	6A7, 78, 75, 43, 25Z5	175	7-2
								18-928	15	TC26								
56C, 56T	Vol.		15	MR48	M26			12-6	1	3S584	B8		245C	C3	5	34, 6A7, 32, 30, 38	465	
								10	15	TC22								
								.01-.01		Buffer	B14							
76C, 76T	Vol.		15	MR48				12-6	1	3S584	B8		245C	C3	7	[2]34, 30, 6A7, 32, 76, 19	465	
								10	15	TC22								
								.01-.01		Buffer	B14							
632C, 632T	Vol.		18	MR48	M26										6	6C6, 6A7, 6D6, 85, [2]38		
732C, 732T	Vol.		15	MR48	M26			12-6	1	3S584	B8		F294	C3	7	[2]6D6, 6A7, 6C6, 76, 42, 84	465	
								10	15	TC22								
								.01-.01		Buffer	B14							
REX—See Airking																		
RK RADIO LABORATORIES																		
4 Tube B'cast & Long Wave	Vol.		6	SRP263	6	EX500		12-8-5	6/15	3N527					4	6D6, 6C6, 43, 25Z5		5-1
RK14 (AC-DC)	Vol.		6	SRP263		EX500		12-8-5	6/15	3N527					4	6D6, 6C6, 43, 25Z5		5-4
RK55 Radio Keg	Vol.		6	G7	6	3		12-8-5	6/15	3N527					5	6C6, 6D6, 85, 43, 25Z5	175	§4-9
RK60G	Vol.		15	MR48				8-8	1	2N518					6	2A7, 58, 55, 56, 2B6, 80	175	5-2
RK60L	Vol.		17	MR48	M26			8-8	1	2N518					6	2A7, 58, 55, 56, 2B6, 80	115	5-3
421, 422, 423, 424	Vol.		6	SRP263		EX500		25-10	27	TCS47					4	6D6, 6C6, 43, 25Z5		6-1
425, 426, 427, 428	Vol.		6	SRP263		EX500		4-4	1	2N548					4	6D6, 6C6, 42, 80		6-1
521, 522	Vol.		18	MR48				25-10-5	27/15	UR182	B95				5	6A7, 6D6, 75, 43, 25Z5	465	6-1
	Tone		34	MR39														
534	Vol.		18	MR48				8-8	4	TCS71	B3				5	6A7, 6D6, 75, 42, 80	465	6-2
	Tone		22	MR18														
631, 633	Vol.		18	MR48				8-8	4	TCS71	B3				6	6A7, [2]6D6, 75, 42, 80	465	6-2
	Tone		22	MR18														
SEA PAL																		
Marine Portable	Vol.	36X289	18	MK401	M27			45X297	46	TN129					6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, —35Z5GT	456	13-1,2
								45X301	78	FP304	B117							
6P21	Vol.	101256	11	MK402	M27			119-125	24/13/78	FP407					6	1A7GT, [2]1N5GT, 1H5GT, 1T5GT, 117Z6GT	455	
101, 102 (Radio Compass)	Vol.	101212	11	MR18				119-107	24/78	FP304					6	[2]1N5GT, 1A7GT, 1H5GT, 1A5GT, 117L7GT	465	12-1,2
								119-113	78	Order from	Mfr.							
SEARS-ROEBUCK CO. "Silvertone" (Also see Colonial).																		
FF	Vol.	R4351	4	MR18				‡	‡	See Note	B1				6	[2]6, 27, 12A, 80		3-15
FY434 Ch. FY	Vol.	9YR459	50	MR57	M26			8JC-513B	46	TN129					3	12SQ7, 50L6, 35Z5		14-93
H	Vol.	R4351	2	MR18				1-1-2	46	See Note	B1				7	[2]6, 27, 71A, 80		
J	Vol.	R4351	4	MB18				3-2	1	See Note	B1				8	[2]6, 27, [2]71A, 80		3-16
N6 Early	Vol.	P4089	.18	TM231-SS22	M26			P4130	1/15	FP339					6	6SA7, [2]6SK7, 6SQ7, 6K6GT, 5Y3G	455	14-1
	Tone	P4531	‡	MK401														
N6 Late	Vol.	P5701	139	TM243-SS25	M26			P5072	1/15	FP339					6	6SA7, [2]6SK7, 6SQ7, 6K6GT, 5Y3G	455	14-1
	Tone	P4531	139	MK401				P5271	13	TC42								
P6	Vol.	P4820	18	MK402				P4860A	1/78	FP309					6	[2]1N5, 1A7, 1H5, 3Q5, 117Z6	455	14-2
R71 (101.612, 101.612A)	Vol.	1012442951	127	MR48				1012042994	1/15	FP339					7	6K8G, [2]6U7G, 6J5G, 6Q7G, 6F6G, 5Y3G	455	12-3
R81 (101.613)	Vol.	1012443108	20	Order from	Mfr.			1012043107	1	[2]ST598					8	6K8G, [2]6U7G, [2]6Q7G, 5Y3G, [2]6F6G	455	12-4
R101 (101.614)	Vol.	1012443065	124	Order from	Mfr.			1012043064	3	FP444					10	[2]6U7G, 6K8G, 6J5G, 6U5, [2]6Q7G, [2]6V6G, 5Y3G	455	12-5,6

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
R111 (101.615)	Vol.	1012443157.	124	Order from	Mfr.			1012013903.	3	RS223					11	26U7G, 6K8G, 26J5G, 26Q7G, 26V6G, 6U5, 5X4G	455	12-7
	Tone	1012543123.	22	MR53	M26			1012043153.	3	FP234								
R121 (101.616)	Vol.	1012443158.	124	Order from	Mfr.			1012013903.	3	RS223					12	26U7G, 6K8G, 26J5G, 6H6G, 6L5, 26Q7G, 26V6G, 5X4G	455	12-8
	Tone	1012543123.	22	MR53	M26			1012043153.	3	FP234								
R301 (101.574-2B)	Vol.	1012443065.	124	Order from	Mfr.			1012013903.	1	RS223					10	6K8G, 6U7G, 6Q7G, 26P5G, 26AC5G, 6U5, 5Y3G	455	13-1,2
								1012014808.	1	RS223								
R381 (101.639)	Vol.		127	UM154			A96	20-20-25	1/15	FP339					8	6K8G, 26U7G, 6J5G, 6Q7G, 6F6G, 6U5, 5Y3G	455	12-9,3
R1021 (110.989-1A)	Vol.	1102433	75	MR18	M26			1102058	46	TN129					6	12A8GT, 12K7GT, 6H6GT, 12J7GT, 35L6GT, 35Z5GT	455	
R1061 (110.400)	Vol.	1102433	75	MR48	M26			1102058	46	TN129					6	12A8GT, 12K7GT, 6H6GT, 12J7GT, 35L6GT, 35Z5GT	455	12-10
								1102046	46	2N513	B12							
R1161 (101.609)	Vol.	1012442645.	18	MR53				1012042425.	9	2N514	B8				6	6K8G, 26U7G, 6Q7G, 25C6G, 35Z6G	455	12-11,12
R1171 (101.610-1)	Vol.	1012443200.	45	TM233-SS1				1012042439.	9/15	Order from	Mfr.				7	6K8G, 26U7G, 6J5G, 6F5G, 25C6G, 35Z4G	455	12-13
								1012042125.	9	2N511	B8							
								1012042653.	9,15	Order from	Mfr.							
R1181 (101.611)	Vol.	1012442988.	124	Order from	Mfr.			1012042994.	1/15	FP339					8	6K8G, 26U7G, 6J5G, 6Q7G, 6F6G, 6U5, 5Y3G	455	12-14
R1261 (100.351)	Vol.	10023160006	18	MR48				10020160095	4	FP145	B197				6	6K8G, 26U7G, 6Q7G, 25C6G, 5Y3G	455	12-15,16
								10020160096	4	ST598								
R5501, R5501A (101.618), (101.618-1A)	Vol.	1012443157.	124	Order from	Mfr.			1012043064.	3	FP111					10	26U7G, 6K8G, 6J5G, 26Q7G, 26V6G, 5Y3G, 6U5	455	12-37,38
	Tone	1012543583.	22	MR53	M26													
R5561 (101.617)	Vol.	1012443437.	124	MRT440				1012043441	1/15	FP346	B117				6	6K8G, 26U7G, 6Q7G, 6V6G, 5Y3G	455	12-42
	Tone	1012543434.	22	UM161	M26		A96	1012043441.	1/15	FP316	B12							
R5854 (135.241)	Vol.	135243690.	50	MK401														
S61 (100.350)	Vol.	10024119634	124	MRT443				10020118421	23	2S569					6	6A8G, 6P5G, 6K7G, 6Q7G, 6F6G, 5Y3G	455	12-1,2
XP6	Vol.	P4820	18	MK402				P4860A	1/78	FP309					6	21N5, 1A7, 1H5, 3Q5, 117Z6	455	14-2
9 Tube Super_AVC	Vol.	7864	15	MR48	M26			7051	34	RS213					9	235, 24, 27, 47, 80	175	
	Tone	7037	44	MR33				7078	34	RS216								
36	Hum.	R5390	66	Order from	Mfr.			8	1	HD684					6	21, 45, 80		
36P	Hum.		66	Order from	Mfr.			D4758P	1	HD681					6	35, 24A, 45, 80		
37								5734A	4	RS216					7	35, 24A, 45, 80		
37P								16	4	RS216					7	35, 24A, 45, 80		
39-125								4758P	4	HD684					5	35, 24A, 45, 80		
41, 41P, 42								5734A	4	RS216					6	24A, 45, 80		
44, 45	Vol.		29	R											5	01A, 12A		7-3
44 (Late)	Vol.	R6025A	6	H7		1		4758	4	HD684					6	35, 24A, 27, 47, 80	175	
47, 48	Vol.	R6025A	6	H7		2		4758	4	HD684					8	35, 24A, 47, 27, 80	175	
49, 50	Vol.		‡	MR18				1-2-1-1	3/13	See Note	B1				7	26, 27, 71A, 80		5-1
50 AVC	Vol.		7	H				4758P	4	HD684					10	35, 24A, 27, 47, 80	175	
51	Vol.		6	MR18				1-2-2-2	3/14	See Note	B1				8	27, 26, 71A, 80		7-3
52	Vol.		6	G7				1-2-1-2	3/14	See Note	B1				9	27, 45, 80		6-1
53, 54 (Factory Model 94)	Vol.		6	G7				1-2-1-2	3/14	See Note	B1				9	27, 45, 80		6-1
56	Vol.		6	MR18				1-2-1-2	3/14	See Note	B1				7	24A, 27, 45, 80		6-2
62	Vol.		6	H7	6			8	25	RS213					7	57, 58, 24A, 47, 80, 56	175	
	Tone		57	MR48				4	13	TC70								
65, 69	Tone		34	MR48				8	12	TC52					7	30, 32, 33, Ballast No. 31	175	
								20	19	TC26								
90	Vol.	R4223A	29	R											5	01A, 12A		
91	Vol.	R4684A	29	R											6	01A, 12A or 71A		
92	Vol.	R4640	6	MR18				1-2-1-1	3/13	See Note	B1				7	26, 27, 71A, 80		
93, 93T	Vol.	R4640	6	MR18				1-2-2-2	3/14	See Note	B1				7	27, 26, 71A, 80		
94, 95, 99	Vol.	R4640	6	G7				1-2-1-2	3/14	See Note	B1				9	27, 45, 80		6-1
100 Ch. 152.100								20-20	24	2N509					2	501.6GT, 35Z5GT		14-30
100	Vol.	R4640	6	MR18				1-2-1-2	3/14	See Note	B1				7	24A, 27, 45, 80		6-2
107HA62	Vol.		18	UM154-SS3				8-8	1	2N518	B3		249	C3	6	6D6, 6L7, 76, 75, 6B5	465	6-3
	Tone		22	MR39				.005		Buffer	B14							
108	Vol.	R4640	6	MR18				2-2-2-2-2	3/14	See Note	B1				8	27, 26, 71A, 80		6-2
109	Vol.	R5202	6	MR21				8-8-8	46	3S584					7	24A, 27, 45, 80		2-17
110	Vol.	R5045	71	H7				8-8-8	46	3S584					9	27, 45, 80		6-3
111, 112	Vol.	R5045	6	MR21				8-8-8	46	3S584					9	24A, 27, 45, 80		6-4
112	Vol.	R5046A	6	MR21	M26			8-8-8	46	3S584					8	24A, 27, 45, 80		6-4
114, 116	Hum.	R5390	66	Order from	Mfr.			4758P	1	HD684					6	24A, 45, 80		
218	Vol.		6	‡		See Note A5		8-8-8	46	3S584					7	24A, 27, 45, 80		2-17
550	Vol.		6	‡		See Note A5		9327	1	2N516					5	36, 39, 38, 80	265	9-3
								9328	15	TN111								
566	Vol.	101-41	18	UM154/SS13	M26			119-20	4	TCS71		126-1	294	C3	5	6A8, 6K7, 75, 41, 84-6Z4	465	
								.01		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
666	Vol.	101-42	18	UM151-SS3				119-21	1	2N518		126-1	294	C3	6	§6K7, 6A8, 6Q7, 6N6, 84-6X5	465	
								.01		Buffer	B14							
671 (101.612, 101.612A)	Vol.	1012442951	127	MR18				1012042994	1/15	FP339					7	6K8G, §6U7G, 6J5G, 6Q7G, 6F6G, 5Y3G	455	12-3
701 (101.574-1A)	Vol.	1012440330	127	Order from	Mfr.			1012013903	1	RS223					10	6K8G, 6U7G, 6Q7G, §6P5G, §6AC5G, 6U5, 5Y3G	455	
								1012014808	1	RS223								
721 (101.616)	Vol.	1012443158	124	Order from	Mfr.			1012013903	3	RS223					12	§6U7G, 6K8G, §6J5G, 6H6G, 6U5, §6Q7G, §6V6G, 5X4G	455	12-8
	Tone	1012543123	22	MR53	M26			1012043153	3	FP231								
771 (101.645-1)	Vol.	1012444892	18	TM233-SS1				1012044553	1/15	FP346					7	§6J5GT, §6U7G, 6Q7G, 6F6G, 5Y3G	455	
802, 812	Vol.		46	‡		See Note A19		40, 40	1	RS224					12	§6K7G, 6H6, 6L7, 6J7G, 6C5, 6G5, 6F6G, §6L6, 5Z3	465	9-5
	Tone		22	MR48				5	15	TC22								
1130, 1132	Vol.	2616	6	MR18				15-5	2	3S584	B8				7	§24A, 27, §45, 80		
1134	Vol.	2359	6	MR21				2-1-1-1-1	3/13	See Note	B1				8	§24, 27, §45, 80		
1150	Hum.	R5390	66	Order from	Mfr.			D4758P	1	HD684					6	§24A, §45, 80		2-1,2
1152, 1154								R5734A	4	RS216					6	§24A, §45, 80		2-3,4
1170	Hum.	R5390	66	Order from	Mfr.			D4758P	1	HD684					6	§24A, §45, 80		2-1,2
1174								R5734A	4	RS216					6	§45, §24A, 80		2-3
1250								R4758P	4	HD684					5	§24A, 45, 80		2-3
1252								4758A	4	HD684					5	24A, §35, 47, 80		2-5,6
								4758P	4	HD684								
1260	Hum.	R5390	66	Order from	Mfr.			D4758P	1	HD684					6	§24A, §45, 80		2-1
1280, 1282	Vol.	7121	6	MR18				8-16	31	See Note	B3				7	§24A, 27, 45, 80	175	
	Tone	7037	22	MR33														
1310, 1312								R5734A	4	RS216					7	§35, 24A, §45, 80		2-9,10
1320, 1322, 1324 (101)	Vol.	R6025	6	H7		1		4758A	4	HD684					8	§35, 24A, §47, 27, 80	175	2-11,12
								4758P	4	HD684								
1320 (106)	Vol.	7613	26	F	6			7078	4	RS216					8	§35, §24, 27, §47, 80	175	
	Tone	7037	22	MR33				7051	4	RS213								
1324 (106)	Vol.	7613	26	F	6			7078	4	RS216					8	§35, §24, 27, §47, 80	175	
	Tone	7037	22	MR33				7051	4	RS213								
1326 (101)	Vol.	R6025	6	H7		1		4758	4	HD684					8	§35, 24A, §47, 27, 80	175	2-11
1326X (106)	Vol.	7613	26	F	6			7078	4	RS216					8	§35, §24, 27, §47, 80	175	
	Tone	7037	22	MR33				7051	4	RS213								
1330								R5734A	4	RS216					7	§35, 24A, §45, 80		2-9
1340	Vol.	63-141	12	Order from	Mfr.			22-84	1	TC70					6	§24, §45, 80	175	
	Tone	63-142	34	Order from	Mfr.			22-87	1	RS213								
1360	Vol.	7121	6	MR18				16-8	31	See Note	B3				7	§24A, 27, 45, 80	175	
	Tone	7037	22	MR33														
1370 (101)	Vol.	R6172	7	H				R6122	1	RS213					4	35, 24A, 47, 80		2-13
1370, 1371 /W/ Tap Field (106)	Vol.	7613	7	F				7617	4	2S567					4	24A, 35, 47, 80		
1380 (106)	Vol.	7613	8	F	6			7051	34	RS213					7	§51, §24, 27, 47, 80	175	
	Tone		22	MR33														
1382 (106)	Vol.	7613	8	F	6			7051	34	RS213					7	§51, §24, 27, 47, 80	175	
	Tone		22	MR33														
1386 (106)	Vol.	7613	26	F	6			7078	4	RS216					8	§35, §24, 27, §47, 80	175	
	Tone	7037	22	MR33				7051	4	RS213								
1390, 1400, 1402, 1404, 1406 (101)	Vol.	R6025	6	H7		1		4758	4	HD684					6	§24A, 35, 47, 27, 80	175	2-14
1404 (106)	Vol.	7613	8	F	6			7051	34	RS213					7	§51, §24, 27, 47, 80	175	
	Tone		22	MR33														
1406 (106)	Vol.	7613	8	F	6			7051	34	RS213					7	§51, §24, 27, 47, 80	175	
	Tone		22	MR33														
1408 (106)	Vol.	7613	8	F	6			7051	34	RS213					7	§51, §24, 27, 47, 80	175	
	Tone		22	MR33														
1408 (106) (§47 Output)	Vol.	7864	109	MR48	M26			7078	34	RS216					10	§35, §24, §27, §47, 80	175	
	Tone	7037	22	MR33				7051	34	RS213								
1420								5734A	1	RS216					6	§24A or §35, §45, 80		2-3,4
1430	Vol.	R6242	7	H				4758	4	HD684					10	24A, 27, §35, §47, 80	175	2-15,16
1430 (106) (9 Tubes)	Vol.	7864	62	MR48	M26			7078	34	RS216					9	§35, §24, §27, §47, 80	175	
	Tone	7037	22	MR33				7051	34	RS213								
1430 (106) (10 Tubes)	Vol.	7864	109	MR48	M26			7078	34	RS216					10	§35, §24, §27, §47, 80	175	
	Tone	7037	22	MR33				7051	34	RS213								
1442 (106)	Vol.	7613	8	F	6			7051	34	RS213					7	§51, §24, 27, 47, 80	175	
	Tone		22	MR33														
1446 (106)	Vol.	7613	8	F	6			7051	34	RS213					7	§51, §24, 27, 47, 80	175	
	Tone		22	MR33														
1450	Vol.	R6025	6	H7		1		4758	4	HD684					8	§35, 24A, §47, 27, 80	175	2-11,12
1454 (106)	Vol.	7613	26	F	6			7078	34	RS216					8	§35, §24, 27, §47, 80	175	
	Tone	7037	22	MR33				7051	34	RS213								
1456 (106)	Vol.	7613	26	F	6			7078	34	RS216					8	§35, §24, 27, §47, 80	175	
	Tone	7037	22	MR33				7051	34	RS213								
1462	Tone	R6420	21	MR48				4758	25	HD684					8	§35, 24A, 47, §27, 80	175	2-18,19
1470 (101)	Vol.	R6025	6	H7		1		4758	4	HD684					6	§24A, 35, 47, 27, 80	175	2-14

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—	Continued																	
1480, 1482, 1484	Vol.	R6456	7	H				4758	23	HD684					7	[3]35, 24A, 27, 47, 80	175	2-19,20
	Tone	R6454	57	MR48														
1482 (106)	Vol.	7613	8	F	6			7051	34	RS213					7	[2]51,[3]24, 27, 47, 80	175	
	Tone		22	MR33														
1490 (45 Output)	Vol.	7121	6	MR18				16-8	31	See Note	B3				7	[3]24A, 27, 45, 80	175	
	Tone	7037	22	MR33														
1490 (47 Output)	Vol.	7613	8	F	6			7051	34	RS213					7	[2]51,[3]24, 27, 47, 80	175	
	Tone		22	MR33														
1500, 1502	Vol.	7732	6	F7	6	2		7077	4	RS213					5	[3]24, 35, 47, 80	175	
	Tone	7037	22	MR33														
1506	Vol.	P4035	8	E	6	2		1-1-1	26	See Note	B1				6	[2]51,[3]24A, 47, 80	175	6-5,6
1506A (106)	Vol.	9070	15	MR48	M26			9110	1	2S567					6	[2]58, 57, 55, 47, 80	175	
1510 (101)	Vol.	R6242	7	H	6			4758	4	HD684					10	27,[4]35, 24A,[3]47, 80	175	2-15,16
1510 (106)	Vol.	7864	109	MR48	M26			7078	34	RS216					10	[3]35,[2]24,[3]27,[3]47, 80	175	
	Tone	7037	22	MR33				7051	34	RS213								
1512X, 1520, 1522, 1522X	Vol.	7864	109	MR48				7078	4	RS216					10	[3]27,[3]35,[2]24A,[3]47, 80	175	
	Tone	7037	22	MR33				7051	4	RS213								
1521 (109.354 [A, B, C])	Vol.	109248524	18	MR48	M26			109208525	24	2N514					6	12SA7GT, [2]12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-30
1531 (106)	Vol.	7613	26	F	6			7078	34	RS216					8	[3]35,[2]24, 27,[3]47, 80	175	
	Tone	7037	22	MR33				7051	34	RS213								
1560, 1562, 1564	Vol.		15	MR48				8	12	TC52					7	[3]30,[3]32, 33	175	
	Tone		57	MR48				5	17	TC22								
1561 (100.351)	Vol.	10023160006	18	MR48				10020160095	4	FP145	B197				6	6K8G, [2]6U7G, 6Q7G, 25C6G, 5Y3G	455	12-15,16
								10020160096	4	ST598								
1570, 1572, 1574, 1575, 1576	Tone	R6570	22	MR48				8	12	TC52					7	[3]30,[3]32, 33	175	3-6,7
								R7069	19	TC26								
1571 (101.610)	Vol.	1012442656	45	TM233-SS1				1012042425	9	2N514	B8				7	6K8G, [2]6U7G, 6J5G, 6F5G, 25C6G, 35Z6G	455	12-13
								1012042653	9/15	Order from	Mfr.							
1580, 1582, 1584, 1585, 1586, 1588, 1589	Vol.	R7240	6	MR21				8, 8	25	RS213					7	57,[2]58, 24A, 47, 56, 80	175	3-2,3
	Tone	R6570	57	MR48				4	13	TC70								
1581 (101.572-2A)	Vol.	1012443049	127	Order from	Mfr.			1012043254	1/15	FP339					8	6K8G, 6U7G, [2]6J5G, 6F5G, 6F6G, 5Y3G, 6U5	455	12-6
1590, 1592 (101)	Vol.	R6762	6	MR21				4758P	23	HD684					6	57, 58,[3]24A, 47, 80	175	3-8
	Tone	R6454	57	MR48														
1590 (106)	Vol.	9070	15	MR48	M26			9110	1	2S567					6	[2]58, 57, 55, 47, 80	175	
								8876	17	TC22								
1590A (106)	Vol.	9070	15	MR48	M26			9110	1	2S567					6	[2]58, 57, 55, 47, 80	175	
								8876	17	TC22								
1591 (100.353)	Vol.	10024160558	124	MRT443				10020160975	23	Order from	Mfr.				9	[2]6U7G, 6K8G, [2]6Q7G, [2]6F6G, 5Y3G, 6U5	455	12-17,18
								10020110377	13	TC32								
1592 (106)	Vol.	9070	15	MR48	M26			9110	1	2S567					6	[2]58, 57, 55, 47, 80	175	
								8876	17	TC22								
1592A, 1592B	Vol.	9070	15	MR48	M26			9110	1	2S567					6	[2]58, 57, 55, 47, 80	175	
								8876	17	TC22								
1594 (101)	Vol.	R6762	6	MR21				4758P	23	HD684					6	57, 58,[3]24A, 47, 80	175	3-8
	Tone	R6454	57	MR48														
1596 (101)	Vol.	R6762	6	MR21				4758P	23	HD684					6	57, 58,[3]24A, 47, 80	175	3-8
	Tone	R6454	22	MR48														
1597, 1598	Vol.	R6762	6	MR21				8, 8	23	HD684					6	39,[2]36,[2]89, 80	175	7-1,2
	Tone	R6570	57	MR48														
1600								4-4	1	See Note	B3				4	24A,[2]27, 80	1000	3-1
1620, 1622	Vol.	R7002	29	U	6										4	[3]32 or 34, 33		3-4,5
1621 (109.355)	Vol.	109248524	18	MR48	M26			109208525	24	2N514					6	12SA7GT, [2]12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-4
								109208525	24	2N514	B12							
1626	Vol.		15	MR48				8876	15	TC22					5	[2]39, 36, 85, 41	175	3-2
1630	Vol.	R6944	6	MR21				7236	23	RS216					9	[2]57, 58,[3]46, 56,[2]80	175	3-9,11
	Tone	R6570	57	MR48				4958	23	HD684								
1640, 1641	Tone	R6570	22	MR48				R7325	34	HD684					12	[2]57,[2]58,[3]46, 83, 56	175	3-12,13
	Phantom	R7295	7	W				4758P	34	HD684								
1650	Vol.	R7385	15	MR53				4758	23	HD684					10	[2]58,[2]56, 27,[3]47, 80	175	6-7,9
	Tone	R6571	57	MR48														
1652, 1654	Vol.	R7385	15	MR53				7236	‡	RS216					12	[3]58,[2]56, 27,[3]46,[2]80	175	6-10,12
	Tone	R6571	57	MR48				4758	‡	HD684								
1660	Vol.	R6944	6	MR21				4758	23	HD684					5	39,[2]36, 89, 80	175	6-13,15
1661 (110.414), (110.415), (110.414)	Vol.	1102433	75	MR48	M26			1102058	46	TN129					6	12A8GT, 12K7GT, 6H4GT, 12J7GT, 35L6GT, 35Z5GT	455	12-19
								1102046	46	2N513	B12							
1670 (Early)	Vol.	R7385	15	MR53				4758	23	HD684					11	[3]58,[2]56, 27,[3]47,[2]80	175	6-16,19
	Tone	R6571	57	MR48														
1670 (Late) "B"	Vol.	R7385	15	MR53				4758	23	HD684					11	[2]58,[2]56, 27,[3]47, 24A,[2]80	175	6-16,19
	Tone	R6571	57	MR48														

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
1675	Vol.	R7385	15	MR53				4758	23	HD684					11	²58,²56, 27,²47, 24A,²80	175	6-18
	Tone	R6571	57	MR48														
1700	Vol.	R8059	68	D12	6			8053	29	TC571/TC71					5	6A7, 6B7, 77, 43, 25Z5	175	4-1,2
1702	Vol.	421	7	D	6			8058	15	TC22					4	78, 77, 43, 25Z5		
1703	Vol.	R8304	6	MR45	M26	EX300		405	6	3N527					4	78, 77, 43, 1V		4-3
1704	Vol.	R8433	56	MR48	6			R8313	23	²TC42					5	6A7, 78, 6B7, 43, 1V	480	4-4,5
1705	Vol.	R8515	19/7	Order from	Mfr.			R8431	4	²TC42					6	6A7,²78, 41, 85, 84	175	4-6,7
	Tone	R8598	57	MR53				R8624	23	RS213								
1706, 1707	Vol.	R8414	18	MR48	M26			R8483	23	HD684					5	41, 75, 78, 6A7, 84	480	4-8,9
1708, 1709	Vol.	R8679	7/18	DRP317				R7236	23	RS216					8	²78, 6A7, 75,²45, 37, 80	175	4-10,13
	Tone	R6570	57	MR48				R8488	23	HD684								
1708A	Vol.	R6570	62	MR48				R8488	23	HD684					8	6A7,²78,²37, 42, 83V	175	5-61,62
	Tone	R6570	147	MR48														
1710	Vol.	R8402	29	U				R8389	13/19	TC42/TC26					5	30, 950, ²951	175	4-15,16
1711	Vol.	R8359	29	U				R8357	13/19	TC42/TC26					5	950, ²951, 30	175	4-17
1711A	Vol.		29	U				R8357	13/19	TC42/TC26					5	²951, 30, 950	480	5-5,6
1711X	Vol.	9611	6	H7											5	²32, 34, 30, 33, 5E1	465	
1712, 1713	Tone	R6570	22	MR48				R8449	12/13/19	2N516, TC29	B183				7	²951, ²30, 33	175	4-18,19
1714	Vol.	R7385	15	MR53				R8707	12/13/19	2N516/TC29	B183				8	²951, ²30, ²950	175	4-20,21
	Tone	R6570	34	MR48														
1715	Vol.	R8679	7/18	DRP317											6	²78, 6A7, 75,²41	175	5-7,8
	Tone	R6571	57	MR48	M26													
1716	Vol.	A111	9	MR39				A117	1/15	3S579					5	²36, 39, 38, 37	175	
	Tone	A110	22	MR39	M26													
1720	Vol.	R8679	7/18	DRP317				R7236	23	RS216					10	²78, 6A7, 75, ²45, 37, 83V	175	4-22,23
	Tone	R6571	57	MR48				D4758P	23	HD684								
								R1114	‡	TC70								
1721	Vol.	R8934	7/15	DRP317				R7236	4	RS216					11	²78,²37,²2A3, 56, 83V	175	4-24,25
	Tone	R6570	34	MR48				R8780	13/14	2N518								
1721 Ch. 110,415-1	Vol.	1102433	18	MR48	M26			1102058	46	TN129					6	12A8GT, 12K7GT, 6H8GT, 12J7GT, 35L6GT, 35Z5GT	455	14-3
1722	Vol.	R8934	7/15	DRP317				R7236	4	RS216					12	²78, ²37, ²2A3-H, ²6B7, 56, 83V	175	4-26,28
	Tone	R6570	34	MR48				R8780	13	2N518								
	Hum.	R9062	‡	Order from	Mfr.													
1722 (Revised)	Vol.	R8934	7/17	DRP317				R7236	4	RS216					12	²78, 85, 56, 37, ²2A3, ²6B7, 5Z3	175	5-9,10
	Tone	R6570	34	MR48				R8780	13/14	2N518								
	Hum.	R9062	‡	Order from	Mfr.													
1722X	Vol.	R8934	7/17	DRP317				R7236	4	RS216					12	²78, 85, 56, 37, ²2A3, ²6B7, 83V		4-29,30
	Tone	R6570	34	MR48				R8780	13/14	2N518								
	Hum.	R9062	‡	Order from	Mfr.													
1724	Vol.	R7240	6	MR21				R9150	29	3S582					4	78, 77, 43, 25Z5		5-11,19
	Tone	R6571	57	MR48	M26													
1725	Vol.	R8679	7/18	DRP317				R7236	23	RS216					10	²78, 75, 37, ²45, 6A7, 83V	175	4-22,23
	Tone	R6571	57	MR48				D4758P	23	HD684								
								R1114	‡	TC70								
1726	Vol.	R8934	7/15	DRP317				R7236	4	RS216					11	²78, ²37, ²2A3, 56, 83V	175	4-24,25
	Tone	R6570	34	MR48				R8780	13/15	2N518								
1726X	Vol.	R9255	7/17	DRP317				R7236	4	RS216					11	²78, 56, 85, ²37, ²2A3, 5Z3	175	5-15,16
	Tone	R6570	34	MR48				R8780	13/14	2N518								
	Hum.	R9062	‡	Order from	Mfr.													
1727	Vol.	554	1	MR18				560	4	2S567					5	²58, 57, 47, 80		
1728	Vol.	R8304	6	MR45	M26	EX300		R8313	23	²TC42					4	78, 77, 43, 1V		4-3
1728A	Vol.	E60	58	MR45				5-12-5	8	TN125					4	78, 77, 43, 25Z5		5-17
								10	15	TC22	B6							
1729	Vol.	R9296	64	MR51				D4758P	23	HD684					7	²78, 6A7,²37, 41, 80	175	5-19,20
	Tone	R6571	22	MR18	M26													
1730	Vol.	R10172	56	UM154	6	See Note A96		R10086	‡	TC70					5	²78, 6A7, 85, 41	175	5-21,22
	Tone	R9711	22	MR48														
1731	Vol.	256	18	MR48				156	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	5-18
1732	Vol.	R8934	7/15	DRP317				R7236	4	RS216					12	²78, ²37, ²2A3-H, ²6B7, 56, 83V	175	4-26,28
	Tone	R6570	34	MR48				R8780	13	2N518								
	Hum.	R9062	‡	Order from	Mfr.													
1732 (Revised)	Vol.	R8934	7/17	DRP317				R7236	4	RS216					12	²78, 56, 85, 37, ²2A3, ²6B7, 5Z3	175	5-9,10
	Tone	R6570	34	MR48				R8780	13	2N518								
	Hum.	R9062	‡	Order from	Mfr.													
1732X	Vol.	R8934	7/17	DRP317				R7236	4	RS216					12	²78, 56, 85, 37, ²2A3, ²6B7, 83V	175	4-29,30
	Tone	R6570	34	MR48				R8780	13	2N518								
	Hum.	R9062	‡	Order from	Mfr.													
1733	Vol.	R6570	56	MR48	M26			R8488	40	HD684			Order from Mfr.		5	6A7, 78, 6B7, 38, 1V	480	5-23,24
	Tone	R6571	107	MR48														
1743	Vol.	1004	18	MR48	M26			9659	1	2N518					5	2A7, 58, 2A6, 2A5, 80	465	
								1108	13	TC70								
1743A	Vol.	452	18	MR48	M26			156	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	7-64
								307	15	TC22								
1744, 1745	Vol.		29	U				R8357	13/19	TC42/TC26					5	²951, 30, 950	480	5-5,6
1750	Vol.	R6570	56	MR48	M26			R9070	29	RS207					7	6A7, 78, 6B7, 37,²43, 25Z5	175	4-31,32
	Tone	R6571	56	MR48				R9071	29	RS215								
								R9072	29	RS215								
1760	Vol.	R6571	62	MR48	M26			R4758P	23	HD684					8	6A7, ²78, ²37, 42, 83V	480	5-26,28

‡ Data not substantiated. — * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—	Continued																	
1771 (101.645)	Vol.	1012444892	18	TM233-SS1				1012044553	1/15	FP346					7	[26]J5GT, [26]U7G, 6Q7G, 6F6G, 5Y3G	455	13-3,4
1781, 1781A (101.646, -1)	Vol.	1012442988	124	Order from	Mfr.			1012044581	1/13	FP380					8	[26]G5GT,[26]U7G, 6Q7G, 6F6G, 6U5, 5Y3G	455	13-5
								1012044791	15	TC26								
1800	Vol.	105	6	SRP263	6	EX300		156	1	2N518					4	58, 57, 2A5, [3]80		5-29
								307	15	TC22								
1801, 1801A	Vol.	256	18	MR48	M26			5-16-5	11	UR182					5	6A7, 78, 75, 43, 25Z5	456	5-30
1802, 1802A, 1803, 1803A	Vol.	R10839	18	MR48	M26			R10836	1	RM262					5	2A7, 58, 2A5, 2A6, 80	445	5-3,5-31
								R10837	13	TC70								
1804, 1805	Vol.	R10458	106	MR48	M26			D4758P	23	HD684					7	[3]78, 75, 47, 41, 80	480	5-33,34
	Tone	R10457	106	MR48				R8488	23	HD684								
1805A	Vol.	R11161	106	MR48				R7236	23	RS216					7	[3]58, 2A6, 47, [3]56, 80	175	6-20,21
	Tone	R10742	106	MR48	M26			R8488	23	HD684								
1806	Vol.	R10648	18	MR48				R7236	23	RS216					8	[3]78, 6A7, 75, 37, [3]47, 80	445	5-35,36
	Tone	R10740	107	MR53				R8488	23	HD684								
								R9237	13	TC70								
1807	Vol.	R10839	18	MR48	M26			R10836	1	RM262					5	2A7, 58, 2A6, 2A5, 80	445	5-31,32
								R10837	13	TC70								
1808	Vol.	R10458	106	MR48	M26			D4758P	23	HD684					7	[3]78, 75, 41, 47, 80	480	5-33,34
	Tone	R10457	106	MR48				R8488	23	HD684								
1808A	Vol.	R11161	106	MR48				R7236	23	RS216					7	[3]58, 2A6, 47, [3]56, 80	175	6-20,21
	Tone	R10742	106	MR48	M26			R8488	23	HD684								
1809, 1811	Vol.	R11161A	106	MR48				R7236	23	RS216					7	[3]58, 2A6, 47, [3]56, 80	175	6-22,23
	Tone	R10742	106	MR48	M26			R8488	23	HD684								
1810 (104)	Vol.	256	18	MR48	M26			106	11	UR193					5	6A7, 78, 75, 43, 25Z5	456	5-30
1820	Vol.	R10458	106	MR48	M26			D4758P	23	HD684					7	[3]78, 75, 47, 41, 80	480	5-33,34
	Tone	R10457	106	MR48				R8488	23	HD684								
1821	Vol.	R10458	106	MR48	M26			R7236	23	RS216					11	[3]78, 85, [3]37, [3]47, 41, 80	480	5-37,38
	Tone	R10457	106	MR48				R8488	23	HD684								
1822	Vol.	R10740	106	MR53				4758P	28	HD684					14	[3]78, 75, [6]45, [3]37, 41, 5Z3	445	6-24,25
	Tone	R10740	106	MR53				R9237	13	TC70								
1823	Vol.	R10648	18	MR48				R7236	23	RS216					8	6A7, [3]78, 75, [3]47, 37, 80	445	5-35
	Tone	R10740	107	MR53				R8488	23	HD684								
								R9237	13	TC70								
1824	Vol.	R10740	106	MR53				D4758P	28	HD684					11	[3]78, 75, [6]45, 37, 41, 80	445	6-27,29
	Tone	R10740	106	MR53				R9237	13	TC70								
1825	Vol.	R10458	106	MR48	M26			R7236	23	RS216					14	41, [3]78, 75, [6]45, [3]37, 5Z3	480	5-39,40
	Tone	R10457	106	MR48				R8488	23	HD684								
								R8217	17	TC70								
1825A	Vol.	R10458	106	MR48	M26			R7236	23	RS216					14	[3]78, 75, [6]45, [3]76, 5Z3	175	6-30,31
	Tone	R10457A	106	MR48				R8488	23	HD684								
1826	Vol.	R10458	106	MR48	M26			D4758P	23	HD684					7	[3]78, 75, 41, 47, 80	480	5-33,34
	Tone	R10457	106	MR48				R8488	23	HD684								
1826A	Vol.	R11161	106	MR48				R7236	23	RS216					7	[3]58, 2A6, 47, [3]56, 80	175	6-20,21
	Tone	R10742	106	MR48	M26			R8488	23	HD684								
1827	Vol.	R10458	106	MR48	M26			R7236	23	RS216					11	[3]78, 85, [3]37, [3]47, 41, 80	480	5-37,38
	Tone	R10457	106	MR48				R8488	23	HD684								
1828	Vol.	R10458	106	MR48	M26			R7236	23	RS216					14	[3]78, 75, [6]45, [3]37, 41, 5Z3	480	5-39,40
	Tone	R10457	106	MR48				R8488	23	HD684								
								R8217	13	TC70								
1829	Vol.	R10648	18	MR48				R7236	23	RS216					8	[3]78, 75, [3]47, 37, 6A7, 80	445	5-35,36
	Tone	R10740	107	MR53				R8488	23	HD684								
								R9237	13	TC70								
1830	Vol.	R10740	106	MR53				D4758P	28	HD684					11	[3]78, 75, [6]45, 37, 41, 80	445	6-27,29
	Tone	R10740	106	MR53				R9237	13	TC70								
1831	Vol.	R10740	106	MR53				4758P	28	HD684					14	[3]78, 75, [6]45, [3]37, 41, 5Z3	445	6-24,26
	Tone	R10740	106	MR53				R9237	13	TC70								
1832	Vol.	R10458	106	MR48	M26			R7236	23	RS216					11	[3]78, [3]37, [3]47, 85, 41, 80	480	6-32,34
	Tone	R10457A	106	MR48				R8488	23	HD684								
1832A	Vol.	R10458	106	MR48	M26			R7236	23	RS216					11	[3]78, 85, [3]37, [3]47, 41, 80	445	6-35,36
	Tone	R10457A	106	MR48				R8488	23	HD684								
1833	Vol.	R11161A	106	MR48				R7236	23	RS216					7	[3]58, 2A6, 47, [3]56, 80	175	6-22,23
	Tone	R10742	106	MR48	M26			R8488	23	HD684								
1835	Vol.	R10458	45	MR48				R7236	23	RS216					9	[3]58, [3]56, 57, 2A5, 80	456	7-5,6
	Tone	R10457A	147	MR48				R11153	23	RS216								
1840	Vol.	R10458	106	MR48	M26			R7236	23	RS216					9	[3]58, [3]56, 57, 2A5, 80	480	6-37,39
	Tone	R10457	106	MR48				R8488	23	HD684								
1841	Vol.	R11161	106	MR48				R7236	23	RS216					7	[3]58, 2A6, 47, [3]56, 80	175	6-20,21
	Tone	R10742	106	MR48	M26			R8488	23	HD684								
1842	Vol.	R10458	106	MR48	M26			R7236	23	RS216					8	[3]58, [3]56, 57, 2A5, 80	480	6-37
	Tone	R10457	106	MR48				R11153	23	RS216								
1845	Vol.	R11161A	106	MR48				R7236	23	RS216					7	[3]58, [3]56, 2A6, 47, 80	175	6-22,23
	Tone	R10742A	106	MR48	M26			R8488	23	HD684								
1850	Vol.	R10712	29	U				R10673	13/19	2N516/TC29					5	[3]951, 32, 33, 30	175	5-41,42
	Tone	R10648	34	MR48														
1850A	Vol.	R12101	29	U				R12117	13/19	2N516/TC29					5	[3]951, 32, 33, 30	175	5-41
	Tone	R12100	34	MR48	M27													
1851	Vol.	R10712	29	U				R10673	13/19	2N516/TC29					5	[3]951, 32, 33, 30	175	5-41
	Tone	R10648	34	MR48														
1852, 1853	Vol.		29	U				R8357	13/19	TC42/TC26					5	[3]951, 30, 950	480	5-5,6

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
1854	Vol.	R10556	64	MR48				R10555	13/19	2N516/TC22					9	[3]951, [2]950, [3]30, Ballast No. 31	175	5-43,44
	Tone	R10529	44	MR48	M27													
1854A	Vol.	R11161	45	MR48				R11300	13/19	2N516/TC26					9	[2]951, [3]30, [2]950, Ballast No. 31	175	7-7
	Tone	R11174	44	MR48	M26													
1855, 1856 ('38 Output)	Vol.	R6570	56	MR48				R8488	40	HD684			F294	C13	5	6A7, 78, 6B7, 38, 84	480	5-45,46
	Tone	R6571	107	MR48	M26			.03-.03		Buffer	B14		F297	C14				
1856 ('33 Output)	Tone	R6570	22	MR48				R8449	12/13/19	2N516/TC29					7	[4]951, [3]30, 33, Ballast No. 31	175	4-18,19
1857	Tone	R10529	34	MR48	M27			R10546	13/19	2N516/TC22					7	[4]951, [3]30, 33, Ballast No. 31	175	5-47,48
1857A	Vol.	R11175A	68	D12				R11178	13/19	2N516/TC26					7	[3]951, 32, 33, [3]30, Ballast No. 31	175	6-40,41
	Tone	R11174	34	MR48	M26													
1858	Vol.	R10172	56	UM154	M26	See Note A96		R10086	12	TC70					5	[2]78, 6A7, 85, 41	175	5-49,50
	Tone	R9711	22	MR48														
1859	Vol.	1145	17	UM154	M26	See Note A96		1138	1	2N518			271		4	6A7, 6D6, 6B7, 41	370	
								9328	15	TN111								
1859A	Vol.	1145	17	UM154	M26	See Note A96		1138	1	2N518			271		4	6A7, 6D6, 6B7, 41	370	5-59,60
								9328	15	TN111								
1860	Vol.	1322	18	MR48				1258	1	RS213			F291	C3	5	6A7, 6D6, 78, 38, 84	465	
	Tone	1382	22	SRP263	6			9328	15	TN111								
								.01-.01		Buffer	B14							
1862	Vol.	R10712	29	U				R10673	13/19	2N516/TC29					5	[2]951, 32, 33, 30, Ballast No. 30	175	5-41,42
	Tone	R10648	34	MR48														
1863	Vol.	608	17	MR48	M26										6	[2]6D6, 6A7, 85, [2]48	175	7-9,10
	Tone	609	149	MR33														
1864	Vol.	R11638	17	UM163		See Note A96		R11909	12/15	TC70/TC22					5	[2]78, 6A7, 85, 41	175	6-42,43
	Tone	R9711	22	MR48														
1865	Vol.	608	17	MR48	M26										6	[2]6D6, 6A7, 85, [2]48	175	7-10
	Tone	609	149	MR33														
1866	Vol.	R10556	64	MR48				R10555	13/19	2N516/TC22					9	[3]951, [2]950, [3]30, Ballast No. 31	175	5-43
	Tone	R10529	44	MR48	M27													
1867	Vol.	R11175A	68	D12				R11178	13/19	2N516/TC26					7	[3]951, 32, 33, [3]30, Ballast No. 31	175	6-41
	Tone	R11174	34	MR48	M26													
1868	Vol.	R10712	29	U				R10673	13/19	2N516/TC29					5	[2]951, 32, 30, 33, Ballast No. 30	175	5-41,42
	Tone	R10648	34	MR48														
1868A	Vol.	R12101	29	U				R12117	13/19	2N516/TC29					5	[2]951, 32, 30, 33, Ballast No. 30	175	5-42
	Tone	R12100	34	MR48	M27													
1869	Vol.	P5035	18	UM154		See Note A96		P34	1/15	3S579		3260B	294	C3	5	77, 78, 75, 41, 84	456	
								.02		Buffer	B14							
1869X	Vol.	2B	18	UM154		See Note A96		23B	1	2N518			294	C3	5	77, 78, 75, 41, 84	456	7-4
1870	Vol.	R10712	29	U				R10673	13/19	2N516/TC29					5	[2]951, 32, 30, 33, Ballast No. 30	175	5-41,42
	Tone	R10648	34	MR48														
1871	Vol.	P5035	18	UM154		See Note A96		P34	1/15	3S579			294	C3	6	[2]78, 77, 75, 41, 84 or 6Z4	262	
								.02		Buffer	B14							
1900	Vol.	452	18	MR48	M26			656	1	2N518					6	6A7, 6D6, 75, [2]42, 80	456	
	Tone	47A	22	MR48	M26			56A	15	TC22								
1903	Vol.	64A	18	MR48	M26			68A	8	TC42					5	6A7, 6D6, 75, 43, 25Z5	456	7-11
								69A	8	TC41								
1903X	Vol.	104B	18	MR48	M26			16-16	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5	456	
1904, 1904A	Tone	R13467	21	MR48	M26		A4	R12478	23	RS213					6	6A7, 6K7G, 75, 6F6G, 6C5G, 84	175	6-44,45
								R12451	23	RS213								
1905	Vol.	R12648	18	MR48				R7236	23	RS216					8	6D6, 41, 6K7MG, 75, 6C5MG, [2]6F6MG, 80	175	7-12,14
								R12840	23	RS216								
1906	Tone	R13467	21	MR48	M26		A4	R12478	23	RS213					6	6A7, 6K7G, 75, 6F6G, 6C5G, 84	175	6-44,45
								R12451	23	RS213								
1907	Vol.	P385	18	MR48				P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	
1908	Tone	R13467	21	MR48	M26		A4	R12478	23	RS213					6	6A7, 6K7G, 75, 6F6G, 6C5G, 84	175	6-44,45
								R12451	23	RS213								
1909	Vol.	R12648	18	MR48				R12656	23	RS216					7	6A8MG, 6K7MG, 6Q7MG, 6C5MG, [2]6F6MG, 5Z4MG	175	7-15,16
								R12840	23	RS216								
1910	Vol.	452	18	MR48	M26			656	1	2N518					6	6A7, 6D6, 75, [2]42, 80	456	
	Tone	47A	22	MR48				56A	15	TC22								
1911	Tone	R13467	21	MR48	M26		A4	R12478	23	RS213					6	6A7, 6K7G, 75, 6F6G, 6C5G, 84	175	6-45,44
								R12451	23	RS213								
1912	Vol.	R12648	18	MR48				R12656	23	RS216					7	6A8MG, 6K7MG, 6Q7MG, 6C5MG, [2]6F6MG, 5Z4MG	175	7-15,16
								R12840	23	RS216								
1914	Tone	R13467	21	MR48	M26		A4	R12478	23	RS213					6	6A7, 6K7G, 75, 6F6G, 6C5G, 84	175	6-44,45
								R12451	23	RS213								
1915	Vol.	R12648	18	MR48				R7236	23	RS216					8	6D6, 41, 6K7MG, 75, 6C5MG, [2]6F6MG, 80	175	7-13,14
								R12840	23	RS216								
1917	Vol.	R12633	127	MR53				R7236	23	RS216					10	[2]78, [2]6K7G, 76, 75, 6C5G, [2]6F6G, 5Z3	385	7-17,19
1918	Vol.	R12595	108	MR53				R11153	23	RS216								
	Tone	R12596	108	MR53	M26			R12656	30	RS216					12	6D6, 6A7, [2]6K7G, 75, [2]6C5G, [4]45, 5Z3	385	7-20,22
1918A	Vol.	R12595	108	MR53				R12656	30	RS216					12	[2]6K7MG, 6A8MG, 75, [4]45, [2]6C5MG, 5Z3	385	7-23,25
	Tone	R12596	108	MR53	6													

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
1919	Vol.	R13911	15	Order from	Mfr.			R12117	19	2N516/TC26					5	1C6, 1A4, 1B5, 230, 950, 1G1	175	8-5
	Tone	R13583	21	MR53	M27													
1920	Vol.	R12163	9	MR21											4	1C6, 1A4, 32, 950, 1B1 Ballast	480	6-46,47
1921	Vol.	R10712	29	U				R10673	13/19	2N516/TC29					5	[3]951, 32, 30, 33, Ballast No. 30	175	5-42
	Tone	R10648	34	MR48														
1922	Vol.	R12101	29	U											5	[3]951, 232, 233, 230, 1A2	175	
	Tone	R12100	34	MR48	M27													
1922A	Vol.	R12741	68	Order from	Mfr.			R12117	13/19	2N516/TC26					5	1C6, 1A4, 32, 950, 30, 1G1 Ballast	175	6-48,49
	Tone	R13077	34	MR48	M27													
1923	Vol.	R12371	68	Order from	Mfr.			R12117	13/19	2N516/TC26					6	1C6, [2]1A4, 32, 30, 950, 1E1	175	7-26,27
	Tone	R12457	34	MR48														
1924	Vol.	2198	45	UM154-SS16				2272	1	TCD55		2269	245A	C3	6	1C6,[2]34,[2]30, 19	465	
	Tone	2282	22	MR33	M27			.02		Buffer	B14							
1925	Vol.	R12177	18	MR48											6	6A7, 6D6, 75, 76,[2]48	456	7-28,29
	Tone	R12195	44	MR48	M26													
1926	Vol.	R12163	9	MR21											4	1C6, 1A4, 32, 950, 1B1 Ballast	480	6-46
1927, 1927X	Vol.	2198	45	UM154-SS16				2289	12	TC42					6	1C6,[2]34,[2]30, 19	456	7-31
	Tone	2331	22	MR33	M24													
1928	Vol.	R12163	‡	MR29											4	1C6, 1A4, 951 or 32, 950, 1B1	480	7-30
1929	Vol.	R13911	56	UM154		See No	te A96	R12117	13/19	2N516/TC26					5	1C6, 1A4, 1B5, 230, 950, 1G1	175	8-5
	Tone	R13583	21	MR53	M27													
1930	Vol.	RC410	18	MR48				CC21	23	RS213					7	6A7, 6K7, 76, 6C5, 75, 6F6, 80	456	7-32
	Tone	RC405	34	MR33				10	19	TC22								
1931	Vol.	R10712	29	U				R10673	13/19	2N516/TC29					5	[3]951, 32, 30, 33, Ballast No. 30	175	5-42
	Tone	R10648	34	MR48														
1932	Vol.	R12101	29	U											5	[3]951, 232, 233, 230, 1A2	175	
	Tone	R12100	34	MR48	M27													
1932A	Vol.	R12741	68	Order from	Mfr.			R12117	13/19	2N516/TC26					5	1C6, 1A4, 32, 950, 30, 1G1 Ballast	175	6-48,49
	Tone	R13077	34	MR48														
1933	Vol.	R12371	68	Order from	Mfr.			R12117	13/19	2N516/TC26					6	1C6, [2]1A4, 32, 30, 950, 1E1	175	7-26,27
	Tone	R12457	34	MR48														
1933A	Vol.	R14066	15	Order from	Mfr.			R12117	13/19	2N516/TC26					6	1C6, 1A4, 1B5, [2]30, 950, 1E1	175	7-33,34
	Tone	R14065	57	MR53														
1934	Vol.	2198	45	MR48				2272	1	TCD55		2269	245A	C3	6	1C6,[2]34,[2]30, 19	465	
	Tone	2282	22	MR33	M27			.02		Buffer	B14							
1935	Vol.	R12177	18	MR48											6	6A7, 6D6, 75, 76,[2]48	456	7-28,29
	Tone	R12195	44	MR48	M26													
1936	Vol.	R12371	68	Order from	Mfr.			R12488	13/19	2N516/TC22					9	1C6, [2]1A4, [2]30, 32 or 951,[2]950	175	7-35,36
	Tone	R12457	44	MR48			A27											
1937, 1937X	Vol.	2198	45	UM154-SS16				2289	12	TC42					6	1C6,[2]34,[2]30, 19	456	7-31
	Tone	2331	22	MR33	M24													
1938	Tone	R13467	21	MR48	M26		A4	R12478	23	RS213					6	6A7, 6K7G, 75, 6F6G, 6C5G, 84	175	6-44,45
								R12451	23	RS213								
1939	Vol.	P385	18	MR48				P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	
1940	Vol.	RC410	18	MR48				8, 8	23	RS213					7	6A7, 6K7, 76, 6C5, 75, 6F6, 80	456	7-32
	Tone	RC405	34	MR33				10	19	TC22								
1941	Vol.	A15253	15	MR53	M26			A15236	25	RS223					9	[2]6K7, 6L7, 6H6, 6C5, [2]6F6, 5Y3	262.5	7-43,44
	Sen.	A15377	7	A				A15237	25	HD684								
								A15258	14/15	2N518								
1942	Vol.	R12648	18	MR48				R12656	23	RS216					8	6A8MG, 6K7MG, 6Q7MG, 6E5, 6C5MG, [2]6F6MG, 5Z4MG	175	7-15,16
	Tone	R14029	22	MR48	M26			R12840	23	RS216								
1943	Vol.	R12371	68	Order from	Mfr.			R12117	13/19	2N516/TC26					6	1C6, [2]1A4, 32, 30, 950, 1E1	175	7-26
	Tone	R12457	34	MR48														
1944	Vol.	R12648	18	MR48				R12656	23	RS216					8	6A8MG, 6K7MG, 6Q7MG, 6E5, 6C5MG, [2]6F6MG, 5Z4MG	175	7-15,16
	Tone	R14029	22	MR48	M26			R12840	23	RS216								
1945	Vol.	R12595	127	MR53				R13903	23	RS223					10	[2]6K7MG, 6L7MG, 6Q7MG, [2]6C5MG, 6E5, [2]6F6MG, 5Z4MG	385	7-37,38
	Tone	R13467	22	MR48	M26			R13901	23	RS216								
1946	Vol.	R13843	20	MRT440				R12656	30	RS216					13	[2]6K7MG, 6L7MG, [4]6C5MG, 6E5, 6F5MG,[2]6F6MG, 5Z4MG	385	7-39,40
	Tone	R14228	22	MR42	M26		A4	R13806	15/19	TN111								
	Sen.	R13801	105	X														
1947, 1948	Vol.	R13911	15	Order from	Mfr.			R12117	13/19	2N516/TC26					5	1C6, 1A4, 1B5, 230, 950, 1G1	175	8-7
	Tone	R13583	21	MR53	M27													
1949	Vol.	105B	18	UM154	M26		A96	130E	1/15	3S579			294	C3	5	6A7, 6D6, 75, 41, 84	...‡	8-9
								.03		Buffer	B14							
1949A	Vol.	105B	18	UM154	M26		A96	130E	1/15	3S579			294	C3	5	6A7, 6D6, 75, 41, 84	...‡	8-10
								.015		Buffer	B14							
1953	Vol.	64A	18	MR48	M26			68A	8	TC42					5	6A7, 6D6, 75, 43, 25Z5	456	7-11
								69A	8	TC44								
1953X	Vol.	104B	18	MR48	M26			16-16	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5	456	
1954	Tone	R13467	21	MR48	M26		A4	R12478	23	RS213					6	6A7, 6K7G, 75, 6F6G, 6C5G, 84	175	6-45
								R12451	23	RS213								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
1954X	Vol.	P517	45	MR48				P474	32	HD684					6	6A7, 6K7G, 6C5G, 75, 6F6G, 80	456	7-41,42
								P160	32	2N516								
1955	Vol.	R12648	18	MR48				R7236	23	RS216					8	6D6, 41, 6K7MG, 75, 6C5MG, [2]6F6MG, 80	175	7-13,14
								R12840	23	RS216								
1956	Vol.	RC410	18	MR48				CC21	23	RS216					7	6A7, 6K7, 76, 6C5, 75, 6F6, 80	175	7-32
	Tone	RC405	34	MR33				C20	19	TC22								
1956X	Vol.	P385	75	MR48				P474	32	HD684					7	6A8, 6K7, 6H6, 6A6, [2]6F6, 80	456	
								P160	32	2N518								
1957	Vol.	P385	18	MR48				P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	
1962	Vol.	R12648	18	MR48				R12656	23	RS216					7	6A8MG, 6K7MG, 6Q7MG, 6C5MG, [2]6F6MG, 5Z4MG	175	7-15,16
								R12840	23	RS216								
1964, 1964A	Tone	R13467	21	MR48	M26		A4	R12478	23	RS213					6	6A7, 6K7G, 75, 6F6G, 6C5G, 84	175	7-44,45
								R12451	23	HD684								
								R13058	13	TC42								
1965	Vol.	R12648	18	MR48				R7236	23	RS216					8	6D6, 41, 6K7MG, 75, 6C5MG, [2]6F6MG, 80	175	7-13,14
								R12840	23	RS216								
1967	Vol.	R12633	127	MR53				R7236	23	RS216					10	[2]78, [2]6K7G, 76, 75, 6C5G, [2]6F6G, 5Z3	385	7-17,19
								R11153	23	RS216								
1967A, 1967C	Vol.	R12633	127	MR53				R7236	23	RS216					10	6K7MG, 6L7MG, 6C5MG, [2]6K7G, 75, 6C5G, [2]6F6G, 5Z3	385	7-17,19
								R11153	23	RS216								
1968	Vol.	R12595	108	MR53				R12656	30	RS216					12	6D6, 6A7, [2]6K7G, 75, [2]6C5G, [4]5, 5Z3	385	7-20,22
	Tone	R12596	108	MR53														
1968A	Vol.	R12595	108	MR53				R12656	30	RS216					12	[2]6K7MG, 6A8MG, 75, [2]6C5MG, [4]5, 5Z3	385	7-23,25
	Tone	R12596	108	MR53	M26													
1970	Vol.	95A	18	MR48	M26			94A	23	RS213					7	6A7, 76, 6K7, 6C5, 75, 6F6, 80	456	8-11
	Tone	96A	34	MR33														
1970A	Vol.	RC410	18	MR48				CC21	23	RS213					7	6A7, 6K7, 76, 6C5, 75, 6F6, 80	456	7-32
	Tone	RC405	34	MR33				C20	19	TC22								
1971	Vol.	R11638	17	UM163		See Note A96		R11909	12/15	TC70/TC22					5	[2]78, 6A7, 85, 41	175	6-42
	Tone	R9711	22	MR48														
1972	Vol.	R12648	18	MR48				R12656	23	RS216					8	6A8MG, 6K7MG, 6Q7MG, 6E5, 6C5MG, [2]6F6MG, 5Z4MG	175	7-15,16
	Tone	R14029	22	MR48	M26			R12840	23	RS216								
1978, 1980A	Vol.	R12163	‡	MR21											4	1C6, 1A4, 951 or 32, 950, 1B1	480	7-30
1981, 1981C, 1981CX	Vol.	A15253	15	MR53	M26			A15236	25	RS223					9	[2]6K7, 6L7, 6H6, 6C5, [2]6F6, 5Y3	262.5	7-43,44
	Sen.	A15377	7	A				A15237	25	HD684								
								A15258	14/15	2N518								
1982	Vol.	R12101	29	Order from	Mfr.										5	[3]951, 232, 233, 230, 1A2	175	
	Tone	R12100	34	MR48	M27													
1982A (345)	Vol.	R12741	68	Order from	Mfr.			R12117	13/19	2N516/TC26					5	1C6, 1A4, 32, 950, 30, 1G1 Ballast	175	6-48,49
	Tone	R13047	34	MR48	M27													
1982A (345X)	Vol.	R13911	56	Order from	Mfr.			R12117	13/19	2N516/TC26					5	1C6, 1A4, 1B5, 230, 950, 1G1	175	8-5
	Tone	R13583	21	MR53	M27													
1983	Vol.	R12371	68	D12				R12117	13/19	2N516/TC26					6	1C6, [2]1A4, 32, 30, 950, 1E1	175	7-26,27
	Tone	R12457	34	MR48			A27											
1983A	Vol.	R14066	15	MR48				R12117	13/19	2N516/TC26					6	1C6, 1A4, 1B5, [2]30, 950, 1E1	175	7-33,34
	Tone	R14065	57	MR53														
1984	Tone	R13467	21	MR48	M26		A4	R12478	23	RS213					6	6A7, 6K7G, 75, 6F6G, 6C5G, 84	175	6-44,45
								R12451	23	RS213								
1985	Vol.	R12177	18	Order from	Mfr.										6	6A7, 6D6, 75, 76, [2]48	456	7-28,29
	Tone	R12195	44	MR48	M26													
1986, 1987 (100.150)	Vol.	1002488676	18	MR48	M26			1002088679	25	RS216					6	6A7, 6D6, 6H6G, 6F5G, 6B5, 80	262	8-13
	Tone	1002588677	57	MR48				1002088680	25	RS213								
1986, 1987 (101.407)	Vol.	1012414184	75	MR44	M26		A27	1012014573	23	RS216					6	6A7, 78, 6H6H, 6F5G, 6B5, 84	262	7-45,46
	Vol.	1012414303	15	MR53	M26		A4	1012012451	23	RS213								
	Tone	1012514183	57	MR48														
1988 (101.408)	Vol.	1012414214	17	MR53				1012014213	1	TCD71					5	6A7, 6D6, 75, 6B5, 1V	465	7-47,48
								1012014573	1	RS216	B12							
1989 (101.414)	Vol.	1012414083	12	MR29	M27			101209144	19	TC22					4	1C6, 1A4, 951, 1F1	465	7-49,50
1992	Vol.	R12101	29	Order from	Mfr.			R12117	13/19	2N516/TC26					5	[3]951, 232, 233, 230, 1A2	175	
	Tone	R12100	34	MR48	M27													
1992A (101.345)	Vol.	R12741	68	Order from	Mfr.			R12117	13/19	2N516/TC26					5	1C6, 1A4, 32, 950, 30, 1G1	175	6-48,49
	Tone	R13077	34	MR48	M27													
1992X	Vol.	2290	18	MR48	M24			2289	12	TC42					5	1C6, 34, 1B5, 30, 19	456	7-51
	Tone	2162	22	MR29														
1993 (101.334)	Vol.	R12371	68	D12				R12117	13/19	2N516/TC26					6	1C6, [2]1A4, 32, 30, 950, 1E1	175	7-26,27
	Tone	R12457	34	MR48			A27											
1993X (101.334X)	Vol.	2198	45	UM154-SS16				2289	13	TC42					6	1C6, [2]34, [2]30, 19	465	7-52
	Tone	2331	22	MR33	M24													
1995	Vol.	R12177	18	Order from	Mfr.										6	6A7, 6D6, 75, 76, [2]48	456	7-28,29
	Tone	R12195	44	MR48	M26													
1996 (101.359, 101.359X)	Vol.	R12371	68	D12				R12488	13/19	2N516/TC22					9	1C6, [2]1A4, [2]30, 32 or 951, [2]950	175	7-35,36
	Tone	R12457	44	MR48			A27											

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—	Continued																	
1998	Vol.	R13930	18	MR44				R12656	23	RS216					7	6A8MG, 6K7MG, 6Q7MG, 6C5MG,		
								R12840	23	RS216						‡6F6MG, 5Z4MG	262	7-53,54
1999 (101.345X)	Vol.	R13911	15	Order from	Mfr.			R12117	13/19	2N516/TC26					5	1C6, 1A4, 1B5, 230,		
	Tone	R13583	57	MR53	M27											950, 1G1	175	8-5
2011 (101.642)	Vol.	1012444452	18	Order from	Mfr.			1012019891	12	TC44					5	1A7GT, ‡1N5GT, 1H5GT, 1A5G/GT	455	13-6
2051 (101.642)	Vol.	1012444452	18	Order from	Mfr.			1012019891	12	TC44					5	1A7GT, ‡1N5GT, 1H5GT, 1A5G/GT	455	13-6
2061 (101.602)	Vol.	1012443234	17	MR55				1012018184	1/15	2N516/TC22		1015114840	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GH, 6G6G,		
								1012018672	78	TC26						6AB5	455	12-20
2312 (163.34)	Vol.	31A3107	15	MR39	M26			.009-.009		Buffer	B14				4	6J7, 6SF5, 6V6GT, 5Y3G		14-3
								30A3075	46	FP389								
2411 (101.642)	Vol.	1012444452	18	Order from	Mfr.			30A3067	15	TCD26					5	1A7GT, ‡1N5GT, 1H5GT, 1A5G/GT	455	13-6
								20	15	TC26								
2421 (101.602)	Vol.	1012443234	17	MR55				1012019891	12	TC44					5	1A7GT, ‡1N5GT, 1H5GT, 1A5G/GT	455	13-6
								1012018184	1/15	2N516/TC22		1015114840	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GH, 6G6G,		
2451 (101.641)	Vol.	1012442433	18	MR48				1012018672	78	TC26						6AB5	455	12-20
								.009-.009		Buffer	B14							
2461 (101.643)	Vol.	1012444528	18	MR48				1012019891	12	TC44					5	1A7GT, ‡1N5GT, 1H5GT, 1A5G/GT	455	13-7
2511 (101.605)	Vol.	1012442450	18	MR48				1012019891	12	TC44					6	1A7GT, ‡1N5GT, 1H5GT, ‡1A5GT/G	455	13-9,10
2511 (101.642)	Vol.	1012444452	18	Order from	Mfr.			1012019891	12	TC44					5	1A7G, ‡1N5G, 1H5G, 1A5G	455	12-21,22
2541 (101.603)	Vol.	1012440005	18	MR48	M27			1012019891	12	TC44					5	1A7GT, ‡1N5GT, 1H5GT, 1A5G/GT	455	13-6
2551 (101.604)	Vol.	1012442433	18	MR48				1012019891	12	TC44					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-23,24
2611 (101.605)	Vol.	1012442450	18	MR48				1012019891	12	TC44					5	1A7G, ‡1N5G, 1H5G, 1A5G	455	12-25,26
2641 (101.603)	Vol.	1012440005	18	MR48	M27			1012019891	12	TC44					5	1A7G, ‡1N5G, 1H5G, 1A5G	455	12-21,22
2651 (101.604)	Vol.	1012442433	18	MR48				1012019891	12	TC44					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-23,24
2711 (101.605)	Vol.	1012442450	18	MR48				1012019891	12	TC44					5	1A7G, ‡1N5G, 1H5G, 1A5G	455	.....
2741 (101.603)	Vol.	1012440005	18	MR48	M27			1012019891	12	TC44					5	1A7G, ‡1N5G, 1H5G, 1A5G	455	12-21,22
2751 (101.604)	Vol.	1012442433	18	MR48				1012019891	12	TC44					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-23,24
2761 (101.606)	Vol.	1012442872	18	MR48				1012019891	12	TC44					5	1A7G, ‡1N5G, 1H5G, 1A5G	455	12-25,26
2761 (101.643)	Vol.	1012444528	18	MR48				1012019891	12	TC44					6	1A7G, ‡1N5G, 1H5G, ‡1A5G	455	12-25-27
3011 (132.810)	Tone	1012544355	22	Order from	Mfr.										6	1A7GT, ‡1N5GT, 1H5GT, ‡1A5G/GT	455	13-9,10
	Vol.	1322417126	18	MR53	M26			1322017140	79/15	TN129					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-4,8
3041 (132.804)	Vol.	1322416763	18	Order from	Mfr.			1322016838	1/15	3N533					4	12K7GT, 12SQ7GT, 35L6GT, 35Z5GT		12-28,30
3051 (109.352)	Vol.	109248389	18	MR48	M26			109208391	24	FP211					5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	.....
3061 (109.354, A, B, C)	Vol.	109248524	18	MR48	M26			109208525	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-30
3111 (132.810)	Vol.	1322417126	18	MR53	M26			1322017140	79/15	TN129					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-4,8
3141 (132.804)	Vol.	1322416763	18	Order from	Mfr.			1322016838	1/15	3N533					4	12K7GT, 12SQ7GT, 35L6GT, 35Z5GT		12-28,30
3151 (109.352)	Vol.	109248389	18	MR48	M26			109208391	24	FP211					5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	.....
3161 (109.354, A, B, C)	Vol.	109248524	18	MR48	M26			109208525	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-30
3211 (132.810)	Vol.	1322417126	18	MR53	M26			1322017140	79/15	TN129					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-4,8
3211 (132.810-1)	Vol.	1322417126	18	MR53	M26			1322014403	79/15	3N533					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-19,20
3241 (132.804)	Vol.	1322416763	18	Order from	Mfr.			1322016838	1/15	3N533					4	12K7GT, 12SQ7GT, 35L6GT, 35Z5GT		12-28,30

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
3251 (109.352)	Vol.	109248389..	18	MR53	M26			109208391..	24	FP211					5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	
3261 (109.354, A, B, C)	Vol.	109248524..	18	MR48	M26			109208525..	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-30
3311 (132.803)	Vol.	1322416671.	18	MR53	M26			1322016707.	1	2N514					5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z4GT..	455	12-31
3321 (109.357)	Vol.	109248524..	18	MR48	M26			109208525..	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-32
								109208032..	24	TC47	B12							
								109208526..	24	2N516								
3341 (132.805)	Vol.	1322416763.	18	Order from	Mfr.			1322016838.	1/15	3N533					4	12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..		12-33
3351 (132.802)	Vol.	1322416671.	18	MR53	M26			1322016719.	1	2N516					5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z4GT..	455	12-34
3361 (109.356)	Vol.	109248524..	18	MR48	M26			109208525..	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-35
								109208526..	24	2N516								
3411 (132.803)	Vol.	1322416671.	18	MR53	M26			1322016707.	1	2N514					5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z4GT..	455	12-31
3421 (109.357)	Vol.	109248524..	18	MR48	M26			109208525..	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-32
								109208032..	24	TC47	B12							
								109208526..	24	2N516								
3441 (132.805)	Vol.	1322416763.	18	Order from	Mfr.			1322016838	1/15	3N533					4	12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..		12-33
3451 (132.802)	Vol.	1322416671.	18	MR53	M26			1322016791.	1	2N516					5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z4GT..	455	12-34
3461 (109.356)	Vol.	109248524..	18	MR48	M26			109208525..	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-35
								109208526..	24	2N516								
3511 (132.803)	Vol.	1322416671.	18	MR53	M26			1322016707.	1	2N514					5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z4GT..	455	12-31
3521 (109.357)	Vol.	109248524..	18	MR48	M26			109208525..	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-32
								109208032..	24	TC47	B12							
								109208526..	24	2N516								
3541 (132.805)	Vol.	1322416763.	18	Order from	Mfr.			1322016838.	1/15	3N533					4	12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..		12-33
3551 (132.802)	Vol.	1322416671.	18	MR53	M26			1322016719.	1	2N516					5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z4GT..	455	12-34
3561 (109.356)	Vol.	109248524..	18	MR48	M26			109208525..	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-35
								109208526..	24	2N516								
3611 (132.811)	Vol.	1322417126.	18	MR53	M26			1322014403.	79/15	3N533					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	13-11, 99
3621 (109.356)	Vol.	109248524..	18	MR48	M26			109208525..	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-35
								109208526..	24	2N516								
3651 (109.353)	Vol.	109248389..	18	MR48	M26			109208630..	24	2N509					5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-36
								109208663..	24	2N514	B12							
3661 (109.355)	Vol.	109248524..	18	MR48	M26			109208525..	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-41
								109208525..	24	2N514	B12							
3711 (132.811)	Vol.	1322417126.	18	MR53	M26			1322014403.	79/15	3N533					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	13-11, 99
3711 (132.811-1)	Vol.	1322417126.	18	MR53	M26			1322014403.	79/15	3N533					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-20,21
3721 (109.357)	Vol.	109248524..	18	MR48	M26			109208525..	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT.		
								109208032..	24	TC47	B12							
								109208526..	24	2N516						35L6GT, 35Z5GT..	455	12-32
3751 (109.353)	Vol.	109248389..	18	MR48	M26			109208630..	24	2N509					5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-36
								109208663..	24	2N514	B12							
3761 (109.355)	Vol.	109248524..	18	MR48	M26			109208525..	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-41
								109208529..	24	2N514	B12							
3811 (132.811)	Vol.	1322417126.	18	MR53	M26			1322014403.	79/15	3N533					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	13-11, 99
3851 (109.353)	Vol.	109248389..	18	MR48	M26			109208630..	24	2N509					5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-36
								109208663..	24	2N514	B12							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
3861 (109.355)	Vol.	109248524	18	MR48	M26			109208525	24	2N514					6	12SA7GT, ‡12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-41
								109208529	24	2N511	B12							
3972 (113.972)	Vol.	113249729	18	MR48	M26			1132097253	23	2S567					5	6A7, 6D6, 6Q7G, 41, 80	465	10-1,2
4104	Vol.	7777	12/2	DRP119	6			1-2	1	See Note	B1				5	‡24, 45, 80		
4400 (107HA6)	Vol.	107246220	18	UM154-SS3				107208825	1	2S567		107519600	249	C3	6	‡6D6, 6L7, 76, 75, 6B5	465	
	Tone	107256225	22	UM140-SS18				.005		Buffer	B14							
4400A (107HA62)	Vol.	107246227	18	UM157-SS3				107208826	1	2N518		107519600	249	C3	6	‡6D6, 6L7, 76, 75, 6B5	465	
	Tone	107256225	22	UM140-SS18				.005		Buffer	B14							
4401, 4402 (101.408)	Vol.	1012414214	17	MR53				1012014213	1	TCD71					5	6A7, 6D6, 75, 6B5, 1V	465	7-47,48
								1012014573	1	RS216								
4403 (101.407)	Vol.	1012414184	45	MR44	M26		A27	1012014573	23	RS216					6	6A7, 78, 6H6G, 6F5G, 6B5, 84	262	7-45,46
	Vol.	1012414303	15	MR53	M26		A4	1012012451	23	RS213								
	Tone	1012514183	57	MR48														
4404 (101.416)	Vol.	1012414252	15	MR48	M27			1012015136	13	2N516					6	‡1A4, 1C6, 1B5, 30, 1F4	465	7-55,56
	Tone	1012514183	57	MR48				1012015137	19	TC26								
4405 (101.149)	Vol.	1012414183	15	MR48				1012014289	1	TCD71		1015113004	294	C3	6	6A8G, 1D5G, ‡1H4G, 1F5G, 6X5G	465	7-57,58
	Tone	1012514252	57	MR48	M27			1012014478	13	TC62								
								.006		Buffer	B14							
4405A (101.432)	Vol.	1012414784	17	MR55				1012014874	1	TC74		1015114840	246	C3	6	‡6S7G, 6D8G, 6Q6G, 1H4G, 6K6G	465	9-7
	Tone	1012514252	57	MR48	M27			1012014574	1	TC71								
								1012014478	13	TC62								
								.012-.012		Buffer	B14							
4406 (101.416)	Vol.	1012414252	15	MR48	M27			1012015136	13	2N516					6	‡1A4, 1C6, 1B5, 30, 1F4	465	7-55,56
	Tone	1012514183	57	MR48				1012015137	19	TC26								
4407 (101.419)	Vol.	1012414183	15	MR48				1012014289	1	TCD71		1015113004	294	C3	6	6A8G, 1D5G, ‡1H4G, 1F5G, 6X5G	465	7-57,58
	Tone	1012514252	57	MR48	M27			1012014478	13	TC62								
								.006		Buffer	B14							
4408 (101.414)	Vol.	1012414083	12	MR29	M27			101209144	19	TC22					4	1C6, 1A4, 951, 1F4	465	7-49,50
4409 (101.415)	Vol.	1012414156	15	MR48	M27			1012014142	13/19	2N516/TC22					5	1C6, 1A4, 1B5, 1F4, 30, 1P1	465	7-59,60
	Tone	1012514144	57	MR48														
4410, 4411 (101.416)	Vol.	1012414252	15	MR48	M27			1012014250	13/19	TCD71/TC26					6	‡1A4, 1C6, 1B5, 30, 1F4	465	7-55,56
	Tone	1012514183	57	MR48														
4413 (101.415)	Vol.	1012414156	15	MR48	M27			1012014142	13/19	2N516/TC26					5	1C6, 1A4, 1B5, 1F4, 30, 1P1	465	7-59,60
	Tone	1012514144	57	MR48														
4414, 4415 (101.393)	Vol.	1012414034	6	MR29	M26			1012014036	1/15	3S579					5	‡6D6, 6C6, 43, 1V		8-15
4416 (101.446)	Vol.	1012415502	6	MR21	M26			1012015401	1/15	3S579					5	‡6D6, 6C6, 43, 1V		9-9
4418 (104.127)	Vol.	1042487	18	MR48	M26			1042011	1/15	3S579		1045113	246	C3	4	6D8G, 6S7G, 6Q6G, 6K6G	456	
								.01		Buffer	B14							
4419 (101.449)	Vol.	1012415818	17	Order from	Mfr.			1012015971	1/13	3S582		1015114840	246	C3	6	‡1D5GP, 6D8G, 6T7G, 1H4G, 1J6G	465	8-17
	Tone	1012515819	44	MR39	M26			1012015882	1	TC62								
								.02-.02		Buffer	B14							
4420 (101.414)	Vol.	1012414083	12	MR29	M27			101209144	19	TC22					4	1C6, 1A4, 951, 1F4	465	7-49,50
4421 (104.127)	Vol.	1042487	18	MR48	M26			1042011	1/15	3S579		1045113	246	C3	4	6K8G, 6S7G, 6Q6G, 6K6G or 6A8G, 6K7G, 6Q7G, 6K6G	456	8-19
								.01		Buffer	B14							
4422 (101.438)	Vol.	1012414252	15	MR48	M27			1012014250	13/19	TCD71/TC26					5	1C6, 1A4, 1B5, 230, 1F4	465	8-23
	Tone	1012514183	57	MR48														
4423 (101.438)	Vol.	1012414252	15	MR48	M27			1012014250	13/19	TCD71/TC26					5	1C6, 1A4, 1B5, 1F4, 230	465	8-23
	Tone	1012514183	57	MR48														
4424 (101.416)	Vol.	1012414252	15	MR48	M27			1012015136	13	2N516					6	‡1A4, 1C6, 1B5, 30, 1F4	465	7-55,56
	Tone	1012514183	57	MR48				1012015137	19	TC26								
4425 (101.416)	Vol.	1012414252	15	MR48	M27			1012014250	13/19	TCD71/TC26					6	‡1A4, 1C6, 1B5, 30, 1F4	465	7-55,56
	Tone	1012514183	57	MR48														
4426, 4426A (101.417A)	Vol.	1012414579	17	MR55				1012014578	12/13	2N516					8	‡1A4, 1C6, 1B5, ‡230, 19	465	8-25
	Tone	1012514144	41	MR48														
4427, 4427A (101.417A)	Vol.	1012414579	56	MR55				1012014578	12/13	2N516					8	‡1A4, 1C6, 1B5, ‡230, 19	465	8-25
	Tone	1012514144	41	MR48														
4428 (101.419)	Vol.	1012414183	15	MR48				1012014289	1	TCD71		1015113004	294	C3	6	6A8G, 1D5G, ‡1H4G, 1F5G, 6X5G	465	7-57,58
	Tone	1012514252	57	MR48	M27			1012014478	13	TC62								
								.006		Buffer	B14							
4228A (101.432)	Vol.	1012414784	17	MR55				1012014874	1	TC74		1015148401	246	C3	6	‡6S7G, 6D8G, 1H4G, 6Q6G, 6K6G	465	7-61,62
	Tone	1012514252	57	MR48	M27			1012014574	1	TC71								
								1012014478	13	TC62								
								.012-.012		Buffer	B14							
4429 (101.437)	Vol.	1012414303	18	MR53	M26										6	6A7, 6D6, 75, 76, ‡48	465	9-11
	Tone	1012514710	57	MR53														
4430 (104.127)	Vol.	1042487	18	MR48	M26			1042011	1/15	3S579		1045113	246	C3	4	6D8G, 6S7G, 6Q6G, 6K6G	456	
								.01		Buffer	B14							
4431, 4432 (101.443)	Vol.	1012415547	17	MR55	M27										4	1C7G, 1F7G, 1D5G, 1F5G	465	9-15
4433 (101.432)	Vol.	1012414784	17	MR55				1012014874	1	TC74		1015114840	246	C3	6	‡6S7G, 6D8G, 6Q6G, 1H4G, 6K6G	465	9-7
	Tone	1012514252	57	MR48	M26			1012014574	1	TC71								
								1012014478	13	TC62								
								.012-.012		Buffer	B14							
4434 (104.127)	Vol.	1042487	18	MR48	M26			1042011	1/15	3S579		1045113	246	C3	4	6K8G, 6S7G, 6Q6G, 6K6G or 6A8G, 6K7G, 6Q7G, 6K6G	456	8-19
								.01		Buffer	B14							

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
4435, 4436 (101.443)	Vol.	1012415547	17	MR55	M27										4	1C7G, 1F7G, 1D5G, 1F5G	465	9-15
4437, 4438 (101.447)	Vol.	1012415883	15	MR55				1012015576	12/13	2N509					6	1C7G, 1D5GP, [2]1H4G, 1H6G, 1E7G	465	9-19
	Tone	1012515507	149	MR39														
4439, 4440 (101.448)	Vol.	1012415748	17	Order from	Mfr.			1012015803	12/13	2N516					8	[3]1D5G, 1C7G, 1H6G, 1H4G, [3]1J6G	465	8-28
	Tone	1012515747	44	MR39														
4441 (101.450)	Vol.	1012415959	17	Order from	Mfr.			1012015882	1	TC62		1015114840	246	C3	8	[2]1D5GP, 1C7G, 1H6G, 6N5, [2]1H4G, 1J6G	465	8-31
	Tone	1012514726	21	MR48	M26			1012015726 .02-.02	1/13	ST599/TC52 Buffer	B14							
4442, 4443 (101.415)	Vol.	1012414156	15	MR48	M27			1012014142	13/19	2N516/TC26					5	1C6, 1A4, 1B5, 1F4, 30, 1P1	465	7-59,60
	Tone	1012514144	57	MR48														
4444 (101.416)	Vol.	1012414252	15	MR48	M27			1012015136	13	2N516					6	[2]1A4, 1C6, 1B5, 30, 1F4	465	7-55,56
	Tone	1012514183	57	MR48				1012015137	19	TC26								
4445 (101.416)	Vol.	1012414252	15	MR48	M27			1012015136	12/13	2N516					6	[2]1A4, 1C6, 1B5, 30, 1F4	465	7-55,56
	Tone	1012514183	57	MR48				1012015137	19	TC26								
4446, 4446A (101.417A)	Vol.	1012414579	17	MR55				1012014578	12/13	2N516					8	1C6, [2]1A4, 1B5, [2]30, 19	465	8-25
	Tone	1012514144	41	MR48														
4447 (101.417, 101.417A)	Vol.	1012414579	17	MR55				1012014578	12/13	2N516					8	[2]1A4, 1C6, 1B5, [2]30, 19	465	8-25
	Tone	1012514144	41	MR48														
4448 (101.419)	Vol.	1012414183	127	MR48				1012014289	1	TCD71		1015113004	294	C3	6	6A8G, 1D5G, [2]1H4G, 1F5G, 6X5G	465	7-57,58
	Tone	1012514252	57	MR48	M26			1012014478 .006	13	TC62 Buffer	B14							
4448A (101.432)	Vol.	1012414784	17	MR55				1012014874	1	TC74		1015114840	246	C3	6	[2]6S7G, 6D8G, 1H4G, 6Q6G, 6K6G	465	7-61,62
	Tone	1012514252	57	MR48	M26			1012014574	1	TC71								
								1012014478 .012-.012	13	TC62 Buffer	B14							
4449 (101.437)	Vol.	1012414303	18	MR53	M26										6	6A7, 6D6, 75, 76, [2]48	465	9-11
	Tone	1012514710	57	MR53														
4450 (101.420)	Vol.	1012414579	17	MR55				1012014874	1	TC74		1015114300	294	C3	9	[2]1D5G, 6A8G, 6G5, 1H6G, [3]1H4G, 1J6G	465	8-33
	Tone	1012514726	41	MR48	M26			1012014734 .006	‡	TCS55/TC22 Buffer	B14							
4451 (101.450)	Vol.	1012415959	17	Order from	Mfr.			1012015726	1/13	ST599/TC52		1015114840	246	C3	8	[2]1D5GP, 1C7G, 1H6G, 6N5, [2]1H4G, 1J6G	465	8-31
	Tone	1012514726	21	MR48	M26			1012015882 .02-.02	1	TC62 Buffer	B14							
4453	Vol.	1012414784	17	MR55				1012014874	1	TC74		1015114840	246	C3	6	[2]6S7G, 6D8G, 6Q6G, 1H4G, 6K6G	465	9-7
	Tone	1012514252	57	MR48	M26			1012014574	1	TC71								
								1012014478 .012-.012	3	TC62 Buffer	B14							
4455, 4456 (101.448)	Vol.	1012415748	17	Order from	Mfr.			1012015803	12/13	2N516					8	[2]1D5G, 1C7G, 1H6G, 1H4G, [2]1J6G	465	8-28
	Tone	1012515747	44	MR39														
4459 (101.449)	Vol.	1012415818	17	Order from	Mfr.			1012015971	1/13	3S582		1015114840	246	C3	6	[2]1D5GP, 6K8G, 6T7G, 1J4G, 1J6G	465	8-17
	Tone	1012515819	44	MR39	M26			1012015882 .02-.02	1	TC62 Buffer	B14							
4461, 4462 (101.408)	Vol.	1012414214	17	MR53				1012014213	1	TCD71					5	6A7, 6D6, 75, 6B5, 1V	465	7-47,48
								1012014573	1	RS216								
4463, 4464 (100.150)	Vol.	1002488676	18	MR48	M26			1002088679	25	RS216					6	6A7, 6D6, 6H6G, 6F5G, 6B5, 80	262	8-13
	Tone	1002588677	57	MR48				1002088680	25	RS213								
4463, 4464 (101.407)	Vol.	1012414184	45	MR44	M26		A27	1012014573	23	RS216					6	6A7, 78, 6H6G, 6F5G, 6B5, 84	262	7-45,46
	Vol.	1012414303	15	MR53	M26		A4	1012012451	23	RS213								
	Tone	1012514183	57	MR48														
4465 (100.151)	Vol.	1002488876	45	MR44	M26			1002088679	25	RS216					8	[2]6K7G, 6C5G, 6L7G, 6Q7G, 6N6G, 6G5, 5Y3	456	9-21
	Tone	1002588677	21	MR48				1002088680	25	RS213								
								1002088880	13	RS213								
4465 (101.410)	Vol.	1012414365	17	MR55	M26			1012013903	1	RS223					8	[2]6K7G, 6L7G, 6C5G, 6Q7G, 6G5, 6N6G, 5Y3	465	8-35,38
	Tone	1012514144	57	MR48				1012014360	1	RS216								
4466, 4467, 4469 (104.218)	Vol.	1042413	18	MR48	M26			1042012	23	3S584	B8				5	6A7, 6D6, 75, 42, 80	456	9-24
4468 (101.454)	Vol.	1012415663	127	MR55	M26			1012014573	1	RS216					6	6A8G, 6K7G, 6B6G, 6N6G, 6H5, 6X5G	262	8-39
	Tone	1012514183	57	MR48				1012012451	1	RS213								
4470 (101.454)	Vol.	1012415663	127	MR55	M26			1012014573	1	RS216					6	6A8G, 6K7G, 6B6G, 6N6G, 6H5, 6X5G	262	8-39
	Tone	1012514183	57	MR48				1012012451	1	RS213								
4471 (104.222)	Vol.	1042413	18	MR48	M26			1042020	4	TCS44					5	6A7, 6D6, 75, 43, 25Z5	456	
4472, 4473 (101.464)	Vol.	1012415763	17	MR55											4	1C7G, 1D5G, 1F7G, 1F5G	465	9-27
4477, 4478 (101.447)	Vol.	1012415883	17	MR55				1012015576	12/13	2N509					6	1C7G, 1D5GP, [2]1H4G, 1H6G, 1E7G	465	9-19
	Tone	1012515567	149	MR39														
4484 (100.150)	Vol.	1002488676	18	MR48	M26			1002088679	25	RS216					6	6A7, 6D6, 6H6G, 6F5G, 6B5, 80	262	7-45,46
	Tone	1002588677	57	MR48				1002088680	25	RS213								
4484 (101.407)	Vol.	1012414184	75	MR44	M26		A27	1012014573	23	RS216					6	6A7, 78, 6H6G, 6F5G, 6B5, 84	262	7-45,46
	Vol.	1012414303	75	MR53	M26		A4	1012012451	23	RS213								
	Tone	1012514183	57	MR48														
4485 (100.151)	Vol.	1002488876	45	MR44	M26			1002088679	25	RS216					8	[2]6K7G, 6C5G, 6L7G, 6Q7G, 6N6G, 6G5, 5Y3	456	9-21
	Tone	1002588677	21	MR48				1002088680	25	RS213								
								1002088880	13	RS213								
4485 (101.410)	Vol.	1012414365	17	MR55	M26			1012013903	1	RS223					8	[2]6K7G, 6L7G, 6C5G, 6Q7G, 6G5, 6N6G, 5Y3	465	8-35,38
	Tone	1012514144	57	MR48				1012014360	1	RS216								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
4486 (100.156)	Vol.	1002489521	124	MRT420	M26			1002088679	25	RS216					10	²⁶K7G, 6A8, 6H6G, 6F5G, 6C5G, ²⁶F6G, 5V4G, 6G5	456	
	Tone	1002588677	22	MR48				1002089542	25	RS213								
								1002089186	13	TC70								
								1002089614	13	RS213								
4486 (101.425)	Vol.	1012414516	124	MRT448	M26			1012013903	1	RS223					10	²⁶K7G, 6L7G, ²⁶C5G, 6G5, 6Q7G, ²⁶F6G, 5Y3	465	8-43
	Tone	1012514544	21	MR53				1012014808	1	RS223								
4487 (101.411A)	Vol.	1012414888	124	MRT448	M26			1012013903	28	RS216					11	²⁶K7G, 6L7G, ²⁶C5G, 6H6G, 6J7G, 6Q7G, 5Y3, ²⁶N6G	465	9-29
	Tone	1012514959	57	MR53				1012014808	28	RS223								
								1012015117	28	TC62								
4488, 4488A, 4488B (101.412)	Vol.	1012414888	15	MRT448	M26			1012014903	28	RS223					13	²⁶K7G, 6L7G, ²⁶C5G, 6J7G, 6R7G or 6Q7G, ²⁶N6G, 5X4G	465	8-45
	Tone	1012514887	21	MR48				1012014904	28	RS223								
								1012014808	13	RS223								
								1012014996	28/13	2N518								
4490 (101.454)	Vol.	1012415663	127	MR55	M26			1012014573	1	RS216					6	6A8G, 6K7G, 6B6G, 6N6G, 6H5, 6X5G	262	8-39
	Tone	1012514183	57	MR48				1012012451	1	RS213								
4492, 4493 (101.443)	Vol.	1012415547	17	MR55	M27										4	1C7G, 1F7G, 1D5G, 1F5G	465	9-15
4498, 4499 (101.465)	Vol.	1012415916	15	MR55	M27			1012015913	12/13	2N509					6	1C7G, 1D5GP, ²1H4G, 1H6G, 1E7G	465	8-59
	Tone	1012515910	22	MR39														
4500, 4500A (101.393)	Vol.	1012414034	6	MR29	M26			1012014036	1/15	3S579					5	²6D6, 6C6, 43, 1V		8-15
4501, 4501A (101.426)	Vol.	1012414034	6	MR29	M26			1012015401	1/15	3S579					5	²6D6, 6C6, 43, 1V		8-61
4502, 4502A (101.427)	Vol.	1013418344	6	MR20	M26	EX150		1012014415	9	TC42					5	²6D6, 6C6, 43, 25Z5		8-58
								1012014036	9/15	3S579								
4503 (101.426)	Vol.	1012414034	6	MR29	M26			1012015401	1/15	3S579					5	²6D6, 6C6, 43, 1V		8-61
4504 (101.427)	Vol.	1012418344	6	MR20	M26	EX150		1012014415	9	TC42					5	²6D6, 6C6, 43, 25Z5		8-58
								1012014036	9/15	3S579								
4505, 4505A, 4506 (101.393)	Vol.	1012414034	6	MR29	M26			1012014036	1/15	3S579					5	²6D6, 6C6, 43, 1V		8-15
4507 (101.426)	Vol.	1012414034	6	MR29	M26			1012015401	1/15	3S579					5	²6D6, 6C6, 43, 1V		8-61
4508 (101.427)	Vol.	1012418344	6	MR20	M26	EX150		1012014415	9	TC42					5	²6D6, 6C6, 43, 25Z5		8-58
								1012014036	9/15	3S579								
4509, 4510, 4511 (101.393)	Vol.	1012414034	6	MR29	M26			1012014036	1/15	3S579					5	²6D6, 6C6, 43, 1V		8-15
4512, 4513, 4514 (101.427)	Vol.	1012418344	6	MR20	M26	EX150		1012014415	9	TC42					5	²6D6, 6C6, 43, 25Z5		8-58
								1012014036	9/15	3S579								
4515, 4516, 4517 (101.426)	Vol.	1012414034	6	MR29	M26			1012015401	1/15	3S579					5	²6D6, 6C6, 43, 1V		8-61
4519 (101.449)	Vol.	1012415818	17	Order from	Mfr			1012015971	1/13	3S582		1015114840	246	C3	6	²1D5GP, 6K8G, 6T7G, 1H4G, 1J6G	456	8-17
	Tone	1012515819	44	MR39	M26			1012015882	1	TC62								
								.02-.02		Buffer	B14							
4520 (101.414)	Vol.	1012414083	12	MR29	M27			101209144	19	TC22					4	1C6, 1A4, 951, 1F4	465	7-49,50
4521 (104.127)	Vol.	1042487	18	MR48				1042011	1/15	3S579		1045113	246	C3	4	6K8G, 6S7G, 6Q6G, 6K6G or 6A8G, 6K7G, 6Q7G, 6K6G	456	8-19
								.01		Buffer	B14							
4522, 4523 (101.415)	Vol.	1012414156	15	MR48	M27			1012014142	13/19	2N516/TC26					5	1C6, 1A4, 1B5, 1F4, 30, 1P1	465	7-59,60
	Tone	1012514144	57	MR48														
4524 (101.416)	Vol.	1012414252	15	MR48	M27			1012015136	13	2N516					6	²1A4, 1C6, 1B5, 30, 1F4	465	7-55,56
	Tone	1012514183	57	MR48				1012015137	19	TC26								
4526, 4526A (101.417A)	Vol.	1012414579	56	MR55				1012014578	12,13	2N516					8	²1A4, 1C6, 1B5, ²230, 19	465	8-25
	Tone	1012514144	41	MR48														
4528 (101.419)	Vol.	1012414183	15	MR48				1012014289	1	TCD71		1015113004	294	C3	6	6A8G, 1D5G, ²1H4G, 1F5G, 6X5G	465	7-57,85
	Tone	1012514252	57	MR48	M26			.006		Buffer	B14							
4528A (101.432)	Vol.	1012414784	17	MR55				1012014874	1	TC74		1015114840	246	C3	6	²6S7G, 6D8G, 1H4G, 6Q6G, 6K6G	465	7-61,62
	Tone	1012514252	57	MR48	M27			1012014574	1	TC71								
								1012014478	13	TC62								
								.012-.012		Buffer	B14							
4529 (101.437)	Vol.	1012414303	18	MR53	M26										6	6A7, 6D6, 75, 76, ²48	465	9-11
	Tone	1012514710	57	MR53														
4531 (101.443)	Vol.	1012415547	17	MR55	M27										4	1C7G, 1F7G, 1D5G, 1F5G	465	9-15,16
4532 (101.438)	Vol.	1012414252	15	MR48	M27			1012014250	13/19	TCD71/TC26					5	1C6, 1A4, 1B5, 230, 1F4	465	8-23
	Tone	1012514183	57	MR48														
4533 (101.464)	Vol.	1012415763	17	MR55											4	1C7G, 1D5G, 1F7G, 1F5G	465	9-27
4537 (101.447)	Vol.	1012415883	15	MR55				1012015576	12/13	2N509					6	1C7G, 1D5GP, ²1H4G, 1H6G, 1E7G	465	
	Tone	1012515567	149	MR39														
4539 (101.448)	Vol.	1012415748	17	Order from	Mfr			1012015803	12/13	2N516					8	²1D5G, 1C8G, 1H6G, 1H4G, ²1J6G	465	8-28
	Tone	1012515747	44	MR39														
4542 (101.415)	Vol.	1012414156	15	MR48	M27			1012014142	13/19	2N516/TC26					5	1C6, 1A4, 1B5, 1F4, 30, 1P1	465	7-59,60
	Tone	1012514144	57	MR48														
4542A (101.438)	Vol.	1012414252	15	MR48	M27			1012014250	13/19	TCD71/TC26					5	1C6, 1A4, 1B5, 230, 1F4	465	8-23
	Tone	1012514183	57	MR48														
4544 (101.416)	Vol.	1012414252	15	MR48	M27			1012015136	13	2N516					6	²1A4, 1C6, 1B5, 30, 1F4	465	7-55,56
	Tone	1012514183	57	MR48				1012015137	19	TC26								

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
4546, 4546A (101.417A)	Vol.	1012414579.	17	MR55				1012014578.	12/13	2N516					8	[2]1A4, 1C6, 1B5, [3]230, 19	465	8-25
	Tone	1012514144.	41	MR48														
4548 (101.419)	Vol.	1012414183.	15	MR48				1012014289.	1	TCD71		1015113004.	294	C3	6	6A8G, 1D5G, [2]1H4G, 1F5G, 6X5G	465	7-57,58
	Tone	1012514252.	57	MR48	M27			.006		Buffer	B14							
4548A (101.432)	Vol.	1012414784.	17	MR55				1012014874.	1	TC74		1015114840.	246	C3	6	[2]6S7G, 6D8G, 1H4G, 6Q6G, 6K6G	465	7-61,62
	Tone	1012514252.	57	MR48	M27			1012014574.	1	TC71								
								1012014478.	13	TC62								
								.012-.012		Buffer	B14							
4549 (101.437)	Vol.	1012414303.	127	MR53	M26										6	6A7, 6D6, 76, 75, [3]48.	465	9-11
	Tone	1012514710.	21	MR53														
4550 (101.420)	Vol.	1012414579.	17	MR55				1012014874.	1	TC74		1015114300.	294	C3	9	[2]1D5G, 6A8G, 6G5, 1H6G, [2]1H4G, 1J6G	465	8-33
	Tone	1012514726.	41	MR48	M26			1012014734.	‡	TCS55/TC22								
								.006		Buffer	B14							
4559 (101.449)	Vol.	1012415818.	17	Order from	Mfr.			1012015971.	1/13	3S582		1015114840.	246	C3	6	[2]1D5GP, 6K8G, 6T7G, 1H4G, 1J6G	465	8-17
	Tone	1012515819.	44	MR39	M26			1012015882.	1	TC62								
								.02-.02		Buffer	B14							
4563, 4564 (100.150)	Vol.	1002488676.	18	MR48	M26			1002088679.	25	RS216					6	6A7, 6D6, 6H6G, 6F5G, 6B5, 80	262	8-13
	Tone	1002588677.	57	MR48				1002088680.	25	RS213								
4563, 4564 (101.407)	Vol.	1012414184.	75	MR44	M26		A27	1012014573.	23	RS216					6	6A7, 78, 6H6G, 6F5G, 6B5, 84	262	7-45,46
	Vol.	1012414303.	15	MR53	M26		A4	1012012451.	23	RS213								
	Tone	1012514183.	57	MR48														
4565 (100.151)	Vol.	1002488876.	45	MR44	M26			1002088679.	25	RS216					8	[2]6K7G, 6C5G, 6L7G, 6Q7G, 6N6G, 6G5, 5Y3	456	9-21
	Tone	1002588677.	21	MR48				1002088680.	25	RS213								
								1002088880.	13	RS213								
4565 (101.410)	Vol.	1012414365.	17	MR55	M26			1012013903.	1	RS223					8	[2]6K7G, 6L7G, 6C5G, 6Q7G, 6G5, 6N6G, 5Y3	465	8-35,38
	Tone	1012514144.	57	MR48				1012014360.	1	RS216								
4566 (101.442)	Vol.	1012414303.	15	MR53	M26			1012014573.	23	RS216					7	6A7, 78, 6H6G, 6F5G, 6B5, 6X5G, 6G5	262	9-31
	Tone	1012514183.	57	MR48				1012012451.	23	RS213								
4567 (104.218)	Vol.	1042413.	18	MR48	M26			1042012.	23	3S584	B8				5	6A7, 6D6, 75, 42, 80	456	9-24
4569 (101.445)	Vol.	1012415483.	45	MR53	M26			1012014573.	23	RS216					7	6A7, 78, 6H6G, 6F5G, 6G5, 6B5, 6X5G	262	8-63
	Tone	1012515482.	22	MR48				1012012451.	23	RS213								
4570, 4571, 4572 (100.150)	Vol.	1002488676.	18	MR48	M26			1002088679.	25	RS216					6	6A7, 6D6, 6H6G, 6F5G, 6B5, 80	262	8-13
	Tone	1002588677.	57	MR48				1002088680.	25	RS213								
4570, 4571, 4572 (101.407)	Vol.	1012414184.	45	MR44	M26		A27	1012014573.	23	RS216					6	6A7, 78, 6H6G, 6F5G, 6B5, 84	262	7-45,46
	Vol.	1012414303.	15	MR53	M26		A4	1012012451.	23	RS213								
	Tone	1012514183.	57	MR48														
4575 (101.454)	Vol.	1012415663.	127	MR55	M26			1012014573.	1	RS216					6	6A8G, 6K7G, 6B6G, 6N6G, 6I15, 6X5G	262	8-39
	Tone	1012514183.	57	MR48				1012013451.	1	RS213								
4577 (101.447)	Vol.	1012415883.	15	MR55				1012015576.	12/13	2N509					6	1C7G, 1D5GP, [2]1H4G, 1H6G, 1E7G	465	9-19
	Tone	1012515567.	149	MR39														
4584 (100.150)	Vol.	1002488676.	18	MR48	M26			1002088679.	25	RS216					6	6A7, 6D6, 6H6G, 6F5G, 6B5, 80	262	8-13
	Tone	1002588677.	57	MR48				1002088680.	25	RS213								
4584 (101.407)	Vol.	1012414184.	75	MR44	M26		A27	1012014573.	23	RS216					6	6A7, 78, 6H6G, 6F5G, 6B5, 84	262	7-45,46
	Vol.	1012414303.	15	MR53	M26		A4	1012012451.	23	RS213								
	Tone	1012514183.	57	MR48														
4585, 4585A (100.151)	Vol.	1002488876.	45	MR44	M26			1002088679.	25	RS216					8	[2]6K7G, 6C5G, 6L7G, 6Q7G, 6N7G, 6G5, 5Y3	456	9-21
	Tone	1002588677.	21	MR48				1002088680.	25	RS213								
								1002088880.	13	RS213								
4585, 4585A (101.410)	Vol.	1012414365.	17	MR55	M26			1012013903.	1	RS223					8	[2]6K7G, 6L7G, 6C5G, 6Q7G, 6G5, 6N6G, 5Y3	465	8-35,38
	Tone	1012514144.	57	MR48				1012014360.	1	RS216								
4586, 4586A (100.156)	Vol.	1002489524.	124	MRT420	M26			1002088679.	25	RS216					10	[2]6K7G, 6A8, 6H6G, 6F5G, 6C5G, [2]6F6G, 5V4G, 6G5	456	
	Tone	1002588677.	22	MR48				1002089542.	25	RS213								
								1002089186.	13	TC70								
								1002089614.	13	RS213								
4586, 4586A (101.425)	Vol.	1012414516.	124	MRT448	M26			1012013903.	1	RS223					10	[2]6K7G, 6L7G, [2]6C5G, 6G5, 6Q7G, [2]6F6G, 5Y3	465	8-43
	Tone	1012514544.	21	MR53				1012014808.	1	RS223								
4587, 4587A (101.411A)	Vol.	1012414888.	124	MRT448	M26			1012013903.	28	RS216					11	[2]6K7G, 6L7G, [2]6C5G, 6J7G, 6Q7G, 6H6G, [2]6N6G, 5Y3	465	8-65
	Tone	1012514959.	57	MR53				1012014808.	28	RS223								
								1012015117.	28	TC62								
4588, 4588A, 4588B (101.412)	Vol.	1012414888.	15	MRT448	M26			1012014903.	28	RS223					13	[2]6K7G, 6L7G, [2]6C5G, 6J7G, 6R7G or 6Q7G, [2]6N6G, 5X4G	465	8-45
	Tone	1012514887.	21	MR48				1012014904.	28	RS223								
								1012014808.	13	RS223								
								1012014996.	28/13	2N518								
4589 (101.445)	Vol.	1012415483.	45	MR53	M26			1012014573.	23	RS216					7	6A7, 78, 6H6G, 6F5G, 6G5, 6B5, 6X5G	262	8-63
	Tone	1012515482.	22	MR48				1012012451.	23	RS213								
4590 (101.411A)	Vol.	1012414888.	124	MRT448	M26			1012013903.	28	RS216					11	[2]6K7G, 6L7G, [2]6C5G, 6H6G, 6J7G, 6Q7G, [2]6N6G, 5Y3	465	9-29
	Tone	1012514959.	57	MR53				1012014808.	28	RS223								
								1012015117.	28	TC62								
4593 (101.451)	Vol.	1012415640.	127	MR55	M26			1012014573.	1	RS216					6	6A8G, 6K7G, 6B6G, 6N6G, 6I15, 6X5G	262	9-33
	Tone	1012515482.	57	MR48				1012012451.	1	RS213								

‡ Data not substantiated.

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; Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
4598 (101.465)	Vol.	1012415916.	15	MR55	M27			1012015913.	12/13	2N509					6	1C7G, 1D5GP, [2]1H4G, 1H6G, 1E7G	465	8-59
	Tone	1012515910.	22	MR39														
4600 (101.458)	Vol.	1012416101.	17	UM157		See Note A96		1012016105.	1	2N518		1015116034.	852	C3	6	[2]6U7G, 6A8G, 6Q7G, 6N5G, 6X5G	262	9-35
	Tone	1012516024.	22	MR18				.005		Buffer	B14							
4601 (101.463)	Vol.	1012416100.	17	TM224-SS12				1012016105.	1	2N518		1015116034.	852	C3	7	[2]6U7G 6A8G, 6V7G, 6J5G, 6N7G, 6X5G	262	8-75
								1012016102.	15	TN111								
								.005		Buffer	B14							
4602, 4603 (101.475)	Vol.	1012416232.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	465	8-77
4604, 4605 (101.474)	Vol.	1012416260.	15	MR55	M27			1012016259.	12/13	2N516					6	1C7G, [2]1D5GP, [2]1H4G, 1J6G	465	8-78
4606, 4607 (101.473)	Vol.	1012416298‡	15	Order from	Mfr.			1012016259.	12/13	2N516					6	1C7G, [2]1D5GP, [2]1H4G, 1J6G	465	9-37,38
4608, 4609, 4608A, 4609A (101.472, 101.472X)	Vol.	1012416445.	56	MR55	M27			1012015803.	12/13	2N516					8	[3]1D5GP, 1C7G, 6B6G, 6V6G, 6U5, 5Y3G	465	9-53-56
								1012014306.	1	RS216								
4608-9 (101.472)	Vol.	1012416445.	18	MR55	M27			1012015803.	13	2N516					8	[3]1D5GP, 1C7G, 1H6G, 1H4G, [2]1J6G	465	14-4,5
4608A-9A (101.472X)	Vol.	1012416445.	18	MR55	M27			1012015803.	13	2N516					8	[3]1D5GP, 1C7G, 1H6G, [2]1H4G, 4A6G	465	14-5,6
4610 (101.482)	Vol.	1012416815.	127	MR55	M26			1012013903.	1	RS223					8	[2]6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	9-53-56
								1012014360.	1	RS216								
4611 (101.487)	Vol.	1012417213.	127	MR55	M26			1012016355.	1/13/15	TN125/TC22					6	6A8G, 6K7G, 6B6G, 25L6G, 6X5G, 6U5	465	9-39
4612A (101.533)	Vol.	1012419219.	18	MR48											6	6A7, 6D6, 75, 76, [2]48	465	10-5
4613 (100.157)	Vol.	10024110672	17	MR53	M27			10020110804	1	2N518		10051110800	246	C3	6	1H4G, 6D8G, 1D5GP, 6T7G, 1F5G, 6AB5	465	
								10020110377	78	TC22								
								.01		Buffer	B14							
4614 (101.497)	Vol.	1012416907.	17	Order from	Mfr.			1012017603.	1/13/15	3N527/2N516		1015114300.	294	C3	8	[2]15, 6D8G, 6T7G or 6Q6G, 6L5G, 1J6G, 6AB5, 6ZY5G	465	9-41,42
								.012		Buffer	B14							
4619 (101.478)	Vol.	1012416951.	127	MR53	M26										6	6A7, 6D6, 76, 75, [2]48	465	9-43
	Tone	1012516893.	57	MR53														
4620, 4621 (101.475)	Vol.	1012416232.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	465	8-77
4620A (101.503)	Vol.	1012416232.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	465	
4620A (101.503-1)	Vol.	1012418877.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	455	13-15
4621A (101.503)	Vol.	1012416232.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	465	
4621A (101.503-1)	Vol.	1012418877.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	455	13-15
4622 (100.179)	Vol.	10024110672	17	MR53	M27			10020110804	1	2N518		10051110800	246	C3	4	1C7G, 1D5GP, 6T7G, 1F5G	465	9-45
								10020110377	78	TC22								
								.01		Buffer	B14							
4623 (100.157)	Vol.	10024110672	17	MR55	M27			10020110804	1	2N518		10051110800	246	C3	6	1H4G, 6D8G, 1D5GP, 6T7G, 1F5G, 6AB5	465	9-47,48
								10020110377	78	TC22								
								.01		Buffer	B14							
4624, 4625 (101.474)	Vol.	1012416260.	15	MR55	M27			1012016259.	12/13	2N516					6	1C7G, [2]1D5GP, [2]1H4G, 1J6G	465	8-78
4626, 4627 (101.473)	Vol.	1012416298.	15	Order from	Mfr.			1012016259.	12/13	2N516					6	1C7G, [2]1D5GP, [2]1H4G, 1J6G	465	
4628, 4629 (101.472)	Vol.	1012416445.	56	MR55	M27			1012015803.	12/13	2N516					8	[3]1D5GP, 1C7G, 1H6G, 1H4G, [2]1J6G	465	14-4,5
4628A-9A (101.472X)	Vol.	1012416445.	18	MR55	M27			1012015803.	13	2N516					8	[3]1D5GP, 1C7G, 1H6G, [2]1H4G, 4A6G	465	14-5,6
4630, 4631 (101.475)	Vol.	1012416232.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	465	8-77
4632A, 4633A (101.505)	Vol.	1012418350.	17	Order from	Mfr.			1012016259.	13	2N516					6	1C7G, 1F7GH, [2]1H4G, 4A6G	465 455	10-7,8
4634, 4635 (101.474)	Vol.	1012416260.	45	MR55	M27			1012016259.	12/13	2N516					6	1C7G, [2]1D5GP, [2]1H4G, 1J6G	465	8-78
4636, 4637 (101.473)	Vol.	101246298.	15	Order from	Mfr.			1012016259.	12/13	2N516					6	1C7G, [2]1D5GP, [2]1H4G, 1J6G	465	
4638, 4639 (101.472)	Vol.	1012416445.	56	MR55	M27			1012015803.	12/13	2N516					8	[3]1D5GP, 1C7G, 1H6G, 1H4G, [2]1J6G	465	
4638A-9A (101.472X)	Vol.	1012416445.	18	MR55	M27			1012015803.	13	2N516					8	[3]1D5GP, 1C7G, 1H6G, [2]1H4G, 4A6G	465	14-5,6
4640 (101.476)	Vol.	1012416907.	17	MR55	M27			1012016473.	1/13	3S582/TC52		1015114840.	246	C3	7	[2]1D5GP, 1C7G, 1F7G, 1H4G, 1J6G, 6AB5	465	
								.012		Buffer	B14							
4641A (101.503)	Vol.	1012416232.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	465	
4641A (101.503-1)	Vol.	1012418877.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	455	13-15

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—	Continued																	
4642A (101.503)	Vol.	1012416232.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	465	
4642 (101.503-1)	Vol.	1012418877.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	455	13-15
4643 (100.157)	Vol.	10024110672	17	MR55	M27			10020110804 10020110377 .01	1 78	2N518 TC22 Buffer	B14	10051110800	246	C3	6	1H4G, 6D8G, 1D5GP, 6T7G, 1F5G, 6AB5	465	
4644A (101.504)	Vol.	1012417919.	15	MR55				1012016259.	12/13	2N516					6	1C7G, [1]1H4G, 1F7GH, 1G5G	455 465	10-9,10
4645A (100.504-1-2)	Vol.	1012417919.	15	MR55				1012016259.	12/13	2N516					6	1C7G, [1]1H4G, 1F7GH, 1G5G	455	10-9,10
4646, 4647 (101.473)	Vol.	1012416298.	15	Order from	Mfr.			1012016259.	12/13	2N516					6	1C7G, [1]1D5GP, [1]1H4G, 1J6G	465	
4648, 4649 (101.472)	Vol.	1012416445.	56	MR55	M27			1012015803.	12/13	2N516					8	[1]1D5GP, 1C7G, 1H6G, 1H4G, [1]1J6G	465	14-4,5
4648A-9A (101.472X)	Vol.	1012416445.	18	MR55	M27			1012015803.	13	2N516					8	[1]1D5GP, 1C7G, 1H6G, [1]1H4G, 4A6G	465	14-5,6
4650 (101.476)	Vol.	1012416907.	17	MR55	M27			1012015473. .012	1/13	3S582/TC52 Buffer	B14	1015114840.	246	C3	7	[1]1D5GP, 1C7G, 1F7G, 1H4G, 1J6G, 6AB5	465	
4651 (101.497)	Vol.	1012416907.	17	MR55	M27			1012017603. .012	1/13/15	3N527/2N516 Buffer	B14	1015114300.	294	C3	8	[2]15, 6D8G, 6T7G or 6Q6G, 6L5G, 1J6G, 6AB5, 6ZY5G	465	9-41
4660 (101.487)	Vol.	1012417213.	127	MR55	M26			1012016355.	1/13/15	TN125/TC22					6	6A8G, 6K7G, 6B6G, 25L6G, 6X5G, 6U5	465	9-39
4663 (100.158)	Vol.	10024110939	17	MR53	M26			1002089937. 10020110974 10020110377	25 25/13 19/20	RS223 2N518 TC22					6	6A8G, 6U7G, 6Q7G, 6K6G, 5W4G, 6U5	465	
4663 (101.471)	Vol.	1012416452.	127	MR55	M26			1012014573. 1012016570.	25 25/13	RS216 2N518					6	6A8G, 6K7G, 6B6G, 6V6G, 6U5, 6X5G	465	
4664 (101.480)	Vol.	1012416452.	127	MR55	M26			1012014573. 1012016570.	25 25/13	RS216 2N518					7	[2]6K7G, 6A8G, 6B6G, 6V6G, 6U5, 6X5G	465	9-51,52
4665 (101.488)	Vol.	1012416962.	18	MR55	M26			1012013903. 1012014360.	1 1	RS223 RS216					8	[2]6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4666 (100.483)	Vol. Sil.	1012416975. 1012616704.	124 ‡	TM248-SS16 A1MP	M26			1012013903. 1012014808. 1012016703.	1 1 ‡	RS223 RS223 TC32					10	[2]6K7G, 6A8G, [2]6Q7G, 6U5, 6J5G, [2]6V6G, 5Y3G	465	
4667 (101.498)	Vol.	1012416815.	127	MR55	M26			1012013903. 1012014360.	1 1	RS223 RS216					8	[2]6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	10-11-13
4668 (103AR166)	Vol.	3ZR288	45	MR48	M26			2NC246 2NC247	23 23	RS216 RS216					6	6A7, 6D6, [2]76, 41, 80	456	10-15,16
4669 (101.482)	Vol.	1012416815.	127	MR55	M26			1012013903. 1012014360.	1 1	RS223 RS216					8	[2]6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4677 (101.498)	Vol.	1012416815.	127	MR55	M26			1012013903. 1012014360.	1 1	RS223 RS216					8	[2]6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4680 (101.479)	Vol. Sen.	1012416705. 1012616704.	124 8	MRT448 A1MP	M26			1012013903. 1012014808. 1012016703.	1 1 15	RS223 RS223 TC32					10	[2]6K7G, 6A8G, [2]6Q7G, 6J5G, [2]6V6G, 6U5, 5Y3G	465	9-57
4681 (101.499)	Vol.	1012416975.	124	TM248-SS16	M26			1012013903. 1012014808.	1 1	RS223 RS223					10	[2]6K7G, 6L7G, 6J5G, 6Q7G, 6J5G, [2]6V6G, 6U5, 5Y3G	465	10-17-20
4684 (101.502)	Vol.	1012416452.	127	MR55	M26			1012014573. 1012016570.	25 25/13	RS216 2N518					7	[2]6K7G, 6A8G, 6B6G, 6V6G, 6U5, 6X5G	465	9-59
4685 (101.488)	Vol.	1012416962.	18	MR55	M26			1012013903. 1012014360.	1 1	RS223 RS216					8	[2]6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4686 (101.483)	Vol. Sil.	1012416975. 1012616704.	124 ‡	TM248-SS16 A1MP	M26			1012013903. 1012014808. 1012016703.	1 1 ‡	RS223 RS223 TC32					10	[2]6K7G, 6A8G, [2]6Q7G, 6U5, 6J5G, [2]6V6G, 5Y3G	465	
4687 (101.484)	Vol.	1012417004.	20	TM248-SS16	M26			1012013903. 1012014808. 1012015117.	3 3 ‡	RS223 RS223 TC62					12	6B8G, 6L7G, 6J5G, 6J7G, [2]6K7G, 6H6G, 6U5, 6C8G, [2]6V6G, 5X4G	465	
4688 (100.159)	Vol.	10024111533	20	TM240-SS16	M26			1002088679. 1002089937. 10020111689 10020110377	3 3 15 15	RS216 RS223 TC26 TC22					14	[2]6K7G, 6L7G, [2]6C5G, [2]6H6G, 6J7G, 6U5, [2]6V6G, 5U4G	465	9-61,74
4700 (104.235)	Vol.	1042423.	18	UM158-SS12				1042021. .01	1	2N518 Buffer	B14	104512.	294	C3	5	6A8G, 6K7G, 6Q7G, 6V6G, 6X5G	456	9-80
4701 Power Shifter (139.450)								1391005 1391007 1391006	1 3 3	FP217 WP200 TC610						25Z6GT		
4708 (139.200)								1391005 1391007 1391006	1 3 3	FP217 WP200 TC610						25Z6GT		
4720 (101.475)	Vol.	1012416232.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	465	8-77

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
4722 (100.179)	Vol.	10024110672	17	MR53	M27			10020110804 10020110377 .01	1 78 —	2N518 TC22 Buffer	— — B14	10051110800	246	C3	4	1C7G, 1D5GP, 6T7G, 1F5G	465	9-45
4723 (100.157)	Vol.	10024110672	17	MR55	M27			10020110804 10020110377 .01	1 78 —	2N518 TC22 Buffer	— — B14	10051110800	246	C3	6	1H4G, 6D8G, 1D5GP, 6T7G, 1F5G, 6AB5	465	
4724 (101.474)	Vol.	1012416260.	45	MR55	M27										6	1C7G, [2]1D5GP, [2]1H4G, 1J6G	465	8-78
4726 (101.473)	Vol.	1012416298.	15	Order from	Mfr.			1012016259.	12/13	2N516					6	1C7G, [2]1D5GP, [2]1H4G, 1J6G	465	
4728 (101.472)	Vol.	1012416445.	56	MR55	M27			1012015803.	12/13	2N516					8	[2]1D5GP, 1C7G, 1H6G, 1H4G, [2]1J6G	465	14-4,5
4728A, (101.472X)	Vol.	1012416445.	18	MR55	M27			1012015803.	13	2N516					8	[2]1D5GP, 1C7G, 1H6G, [2]1H4G, 4A6G	465	14-6,5
4730 (101.475)	Vol.	1012416232.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	465	8-77
4740 (101.476)	Vol.	1012416907.	17	MR55	M27			16473 .012	1/13 —	3S582/TC52 Buffer	— B14	1015114840.	246	C3	7	[2]1D5GP, 1C7G, 1F7G, 1H4G, 1J6G, 6AB5	465	
4743 (100.157)	Vol.	10024110672	17	MR55	M27			10020110804 10020110377 .01	1 78 —	2N518 TC22 Buffer	— — B14	10151110800	246	C3	6	1H4G, 6D8G, 1D5GP, 6T7G, 1F5G, 6AB5	465	
4746 (101.473)	Vol.	1012416298.	15	Order from	Mfr.			1012016259.	12/13	2N516					6	1C7G, [2]1D5GP, [2]1H4G, 1J6G	465	
4748 (101.472)	Vol.	1012416445.	56	MR55	M27			1012015803.	12/13	2N516					8	[2]1D5GP, 1C7G, 1H6G, 1H4G, [2]1J6G	465	14-4,5
4748A (101.472X)	Vol.	1012416445.	18	MR55	M27			1012015803.	13	2N516					8	[2]1D5GP, 1C7G, 1H6G, [2]1H4G, 4A6G	465	14-5,6
4750 (101.476)	Vol.	1012416907.	17	MR55	M27			1012016473. .012	1/13 —	3S582/TC52 Buffer	— B14	1015114840.	246	C3	7	[2]1D5GP, 1C7G, 1F7G, 1H4G, 1J6G, 6AB5	465	
4760 (101.453)	Vol.	1012417212.	18	MR55	M26			1012016355.	1/13/15	TN125/TC22					5	6A8G, 6K7G, 6B6G, 25L6G, 6X5G	465	
4761 (101.490)	Vol.	1012416343.	18	MR55	M26			1012016355.	1/13/15	TN125/TC22					5	6A8G, 6K7G, 6B6G, 25L6G, 6X5G	465	9-75
4762 (101.489)	Vol.	1012416343.	18	MR55	M26			1012016892. 1012017053.	9/13/15 9	TCS64/TCS61 TC55					5	6A8G, 6K7G, 6B6G, 25L6G, 25Z6G	465	
4763 (101.471)	Vol.	1012416452.	127	MR55	M26			1012014573. 1012016570.	25 25/13	RS216 2N518					6	5A8G, 6K7G, 6B6G, 6V6G, 6U5, 6X5G	465	
4763 (100.158)	Vol.	10024110939	17	MR53	M26			1002089937. 10020110974 10020110377	25 25/13 19/20	RS223 2N518 TC22					6	6A8G, 6U7G, 6Q7G, 6K6G, 6U5, 5W4G	465	
4764 (101.480)	Vol.	1012416452.	127	MR55	M26			1012014573. 1012016570.	25 25/13	RS216 2N518					7	[2]6K7G, 6A8G, 6B6G, 6V6G, 6U5, 6X5G	465	
4765 (101.488)	Vol.	1012416962.	18	MR55	M26			1012013903. 1012014360.	1 1	RS223 RS216					8	[2]6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4766 (101.483)	Vol. Sil.	1012416975. 1012616704.	124 ‡	TM248-SS16 A1MP	M26			1012013903. 1012014808. 1012016703.	1 1 ‡	RS223 RS223 TC32					10	[2]6K7G, 6A8G, [2]6Q7G, 6U5, 6J5G, [2]6V6G, 5Y3G	465	
4767 (101.498)	Vol.	1012416815.	127	MR55	M26			1012013903. 1012014360.	1 1	RS223 RS216					8	[2]6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4769 (101.482)	Vol.	1012416815.	127	MR55	M26			1012013903. 1012014360.	1 1	RS223 RS216					8	[2]6K7G, 6J5G, 6L7G, 6B8G, 6V6G, 6U5, 5Y3G	465	
4770 (101.453)	Vol.	1012417212.	18	MR55	M26			1012016355.	1/13/15	TN125/TC22					5	6A8G, 6K7G, 6B6G, 25L6G, 6X5G	465	
4771 (101.490)	Vol.	1012416343.	18	MR55	M26			1012016355.	1/13/15	TN125/TC22					5	6A8G, 6K7G, 6B6G, 25L6G, 6X5G	465	9-75
4772 (101.489)	Vol.	1012416343.	18	MR55	M26			1012016892. 1012017053.	9/13/15 9	TCS64/TCS61 TC55					5	6A8G, 6K7G, 6B6G, 25L6G, 25Z6G	465	
4776 (126-200)	Vol.	1262430704.	20	‡		See Note A19		1262011203. 126205212. 1262014377.	25 25 13	HD684 RS216 RS216					6	6A8G, 6K7G, 6Q7G, 6P6G, 5Y3G, 6U5	460	9-77
4777 (101.498)	Vol.	1012416815.	127	MR55	M26			1012013903. 1012014360.	1 1	RS223 RS216					8	[2]6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4781 (101.499)	Vol.	1012416975.	124	TM248-SS16	M26			1012013903. 1012014808.	1 1	RS223 RS223					10	[2]6K7G, 6L7G, [2]6J5G, 6Q7G, [2]6V6G, 6U5, 5Y3G	465	
4783 (101.502)	Vol.	1012416452.	127	MR55	M26			1012014573. 1012016570.	25 25/13	RS216 2N518					7	[2]6K7G, 6A8G, 6B6G, 6V6G, 6U5, 6X5G	465	9-59
4784 (101.480)	Vol.	1012416452.	127	MR55	M26			1012014573. 1012016570.	1 1/13	RS216 2N518					7	[2]6K7G, 6A8G, 6B6G, 6V6G, 6U5, 6X5G	465	
4785 (101.488)	Vol.	1012416962.	18	MR55	M26			1012013903. 1012014360.	1 1	RS223 RS216					8	[2]6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4786 (100.196)	Vol. Sil.	10024111736 10026111734	124 8	TM248-SS16 A1MP	M26			10020111726 10020111727 10020111708	1 1 ‡	RS223 RS223 TC32					10	[2]6K7G, 6A8G, [2]6Q7G, 6J5G, [2]6V6G, 5Y3G, 6U5	465	

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
4786 (101.483)	Vol.	1012416975	124	TM248-SS16	M26			1012013903	1	RS223					10	‡6K7G, 6A8G, ‡6Q7G, 6U5, 6J5G, ‡6V6G, 5Y3G	465	
	Sil.	1012616704	‡	A1MP				1012014808	1	RS223								
								1670310120	‡	TC32								
4787 (101.484)	Vol.	1012417004	20	MRT448	M26			1012013903	3	RS223					12	6B8G, 6L7G, 6J5G, 6J7G, ‡6K7G, 6H6G, 6U5, 6C8G, ‡6V6G, 5X4G	465	
								1012014808	3	RS223								
								1012015117	‡	TC52								
4788 (100.159)	Vol.	10024111533	20	TM240-SS16	M26			1002088679	3	RS216					14	‡6K7G, 6L7G, ‡6C5G, ‡6H6G, 6J7G, 6U5, ‡6V6G, 5U4G	465	9-61,74
								1002089937	3	RS223								
								10020111689	15	TC26								
								10020110377	15	TC22								
4789 (101.482)	Vol.	1012416815	127	MR55	M26			1012013903	1	RS223					8	‡6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
								1012014360	1	RS216								
4790 (101.479)	Vol.	1012416705	124	MRT448	M26			1012013903	1	RS223					10	‡6K7G, 6A8G, ‡6Q7G, 6J5G, ‡6V6G, 5Y3G, 6U5	465	9-57
	Sen.	1012616704	8	A1MP				1012014808	1	RS223								
								1012016703	15	TC32								
4791, 4792 (101.483)	Vol.	1012416975	124	TM248-SS16	M26			1012013903	1	RS223					10	‡6K7G, 6A8G, ‡6Q7G, 6U5, 6J5G, ‡6V6G, 5Y3G	465	
	Sil.	1012616704	‡	A1MP				1012014808	1	RS223								
								1012016703	‡	TC32								
4796 (126.201)	Vol.	1262430704	17	‡		See Note A19		1262014814	25	HD684					6	6A8G, 6K7G, 6Q7G, 6F6G, 6U5, 5Y3G	460	
								1262014813	25/13	2S569								
4798 (101.498)	Vol.	1012416815	127	MR55	M26			1012013903	1	RS223					8	‡6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
								1012014360	1	RS216								
4799 (100.159)	Vol.	10024111533	20	TM240-SS16	M26			1002088679	3	RS216					14	‡6K7G, 6L7G, ‡6C5G, ‡6H6G, 6J7G, 6U5, ‡6V6G, 5U4G	465	9-61,74
								1002089937	3	RS223								
								10020111689	15	TC32								
								10020110377	15	TC22								
5275	Vol.	135241247	63	MR48														
5280, 5281, 5282 (130.282)	Mic.	130243111	15	MR48				8-8	24	2N518					7	‡6N7, ‡6J7, ‡6V6, 5V4		
	Phono.	130243103	63	MR39				12-12	24	2S569								
	Tone	130243107	22	MR39														
5302 (Ch. 139,210)								1392017	1	2N516						6P5GT		13-18
								1392016	1	TC610								
5502 (101.687)	Vol.	R47240	18	DTM296-SS1				R45829	79	FP331	B117/192				8	7H7, 7E6, 6SK7GT, ‡6SQ7GT, ‡6K6GT, 5Y3G	455	14-17,18
	Tone	R47235	22	MR53	M26		A105											
5511, 5511A (Ch. 101.619, 101.619A)	Vol.	1012443157	124	Order from	Mfr.			1012013903	3	RS223					11	‡6U7G, 6K8G, ‡6J5G, ‡6Q7G, ‡6V6, 6U5, 5X4G	455	12-38,40
	Tone	1012543123	22	MR53	M26			1012043153	3	FP234								
5571, 5571A (Ch. 101.631, 101.631A)	Vol.	1012443157	124	Order from	Mfr.			1012044225	3	FP444					11	‡6U7G, 6K8G, 6J5G, ‡6Q7G, ‡6V6G, 6U5, 6J7G, 5X4G	455	13-35, 36
	Tone	1012543892	22	MR53				1012043888	13	RS215								
5581 (101.634)	Vol.	1012443437	124	MRT440				1012043995	1	FP238					8	6K8G, ‡6U7G, ‡6Q7G, ‡6F6G, 5Y3G	455	12-43
	Tone	1012543434	22	MR53	M26													
5601A (Ch. 101.628, 101.628-1A)	Vol.	1012443157	124	Order from	Mfr.		A27	1012043064	3	FP444					10	‡6U7G, 6K8G, ‡6Q7G, ‡6V6G, 6U5, 6J7G, 5Y3	455	
	Tone	1012543892	22	MR53				1012043888	13	RS215								
	Vol.	1012444110	124	Order from	Mfr.		A4											
5601A (101.629-1A)	Vol.	1012444110	124	Order from	Mfr.			1012043064	3	FP444	B8				10	‡6U7G, 6K8G, ‡6Q7G, 6U5, 6J7G, ‡6V6G, 5Y3G	455	13-37-39
	Tone	1012543892	22	MR53				1012043888	13	TC72								
5621 (101.632)	Vol.	1012444631	124	MRT440				1012044032	1/13	FP444					8	6K8G, 6U7G, 6B8G, 6Q7G, 6V6G, 6J7G, 6U5, 5Y3G	455	
	Tone	1012541939	22	UM160-SS1	M26													
5656A	Vol.		15	MR53				8	1	HD684					8	‡6K7MG, 6L7MG, 6Q7MG, 6C5MG, 6F6MG, 5Y3	465	10-33
	Tone		34	MR48				16	1	RS216								
	Sen.		7	C				12-12	15	TN111								
5661 (101.633)	Vol.	1012444029	18	MRT440				1012043441	1/15	FP346	B117				6	6K8G, ‡6U7G, 6Q7G, 6V6G, 5Y3G	455	12-44
	Tone	1012544027	22	UM160-SS1	M26													
5689, 5690 (116SA10)	Mic.	116242521	16	MR33				116204250	1	HD684					3	77, 6B5, 80		
	Tone	116252517	21	MR53	M26			116204238	1	HD684								
	Phono.	116242520	50	MR39				116204165	15/‡	TC26								
5691, 5692 (116SA20)	Mic.	116242518	50	MR53				116204194	1	HD684					5	‡6C6, ‡6B5, 80		
	Phono.	116242519	50	MR48				116204165	15	TC26								
	Tone	116252517	21	MR53	M26													
5693, 5694 (116SA40)	Mic.	116242520	15	MR39				116204165	15	TC26					7	‡6J7, 6C5, ‡6L6, 5Z3		
	Phono.	116242519	50	MR48														
	Tone	116252517	21	MR53	M26			116204224	15	TC63/TC26								
5695 (116RT3)	Vol.	116242519	50	MR48														
	Tone	116252562	‡	MR48	M26													

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—	Continued																	
5697, 5698 (116SA30)	Mic.	116242518	15	MR53				4194	1	HD684					6	²6J7, ²6N7, 5Z3		
	Tone	116252517	21	MR53	M26			4165	15	TC26								
	Phono.	116242519	50	MR48														
5701 (132.809)	Vol.	1322416780	18	‡			A5	1322014370	46/15	TN129/TC22					4	12K7GT, 12SQ7GT, 35L6GT, 35Z4GT		12-45
5710, 5710A, 5711, 5711A (107.450)	Vol.	1072426281	18	MR53				29-266	1/13	2S567					10	²6K7, 6L7, 6J5G, 6Q7G, 6V6G, 80, 6J7G, 6U5	465	11-1,2
	Tone	1072513278	21	MR48				17-266	1	RS213								
	BFO.	1072427281	‡	MR48														
	Gain	1072428281	7	E														
5711 (110.409)	Vol.	1102446	18	MR48	M26			1102053	46	FP357	B117				5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-46
								1102046	46	2N513	B12							
5721 (110.418)	Vol.	1102454	18	MRT427				1102063	46	ST598/2S569					6	6SA7GT, 6SK7GT, 6SQ7GT, 6SJ7GT, 6F6GT, 6X5GT	455	13-32
	Tone	1102515	22	MR54	M26													
5727, 5728 (107.A450)	Vol.	1072426281	18	MR53				1072017266	1	RS213					12	²6K7, 6L7, ²6J5G, 6Q7G, ²6V6G, ²6J7G, 80	465	11-3-6
	Tone	1072513278	22	MR48				1072029266	1/13	2S567								
	BFO.	1072427281	‡	MR48														
	Gain	1072428281	7	E	6													
	Meter	1072430381	7	E														
5731 (109.359)	Vol.	109288260	106	‡			A5	109208339	1/15	FP332					7	6A8G, 6U7G, ²6Q7G, 6V6G, 5Y3G, 6U5	455	12-47,48
	Tone	109258519	106	‡			A5											
5732, 5732B (109.371, 109.371-1)	Vol.	109248910	18	MR53	M26			109208425	1/13	FP360					8	12SA7GT, 12K7GT, ²12SQ7GT, ²35L6GT, 35Z6G, 6U5	455	
5732 (116SA2232)	Mic.	116252518	15	MR53				116204194	1	HD684					5	6C5, 6J7, 5U4, ²6L6		14-16
	Phono.	116242948	50	MR48				116204165	15	TC26								
	Tone	116252518	21	MR53				116204224	15	TC36/TC26								
5737 (130.637)	Mic.	130253103	15	MR39				130203056	24	2N518					6	6J7, ²6N7, ²6L6, 6W5		
	Tone	130243111	‡	MR48				130203064	24	2S569								
	Phono.	130243124	63	MR33				130203061	15	TN111								
								130203059	15	TC22								
5741 (132.808)	Vol.	1322416780	18	‡			A5	1322014370	46/15	TN129/TC22					4	12K7GT, 12SQ7GT, 35L6GT, 35Z4GT		12-49
5750 (Ch. 107.A450-S4)	Vol.	1072426281	18	MR53				1072017266	1	RS213					12	²6K7, 6L7, 6Q7G, ²6V6G, ²6J5, ²6J7G, 80	1560	
	Tone	1072513278	22	MR48				1072029266	1/13	2N518							465	11-3
	BFO.	1072427281	‡	MR48														
	RF Gain	1072427281	7	E	6													
	R Meter	1072430381	7	E														
5751 (110.403)	Vol.	1102446	18	MR48	M26			1102053	46	FP357	B117				5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-50
								1102046	46	2N513	B12							
5752, 5753 (107.440-S1)	Vol.	1072426281	18	MR53				1072030266	1	FP231					9	²6K7, 6K8G, 6Q7G, 6V6G, ²6J7G, 80	465	11-7-9
	Tone	1072513278	22	MR48				1072031266	13	FP231								
	Gain	1072428281	7	E														
	Meter	1072435281	7	MR14														
5761 (109.359)	Vol.	109288260	106	‡			A5	109208339	1/15	FP332					7	6A8G, 6U7G, ²6Q7G, 6V6G, 5Y3G, 6U5	455	12-47,48
	Tone	109258519	106	‡			A5											
5771 (109.358)	Vol.	109248421	18	‡			A5	109208425	1/13	FP360					7	12SA7GT, 12K7GT, ²12SQ7GT, ²35L6GT, 35Z6G	455	12-51,52
5789 (116SA3041)	Mic.	116242757	‡	MR18	M26			116204194	‡	HD684					3	²6L6, 5Z3		
								116201002	15	TC36								
5790 (116SA40)	Mic.	116242520	15	MR39				116204194	1	HD684					7	²6J7, 6C5, ²6L6, 5Z3		
	Phono.	116242519	63	MR48				116204165	15	TC26								
	Tone	116252517	21	MR53	M26			116204224	15	TC36/TC26								
5791, 5792 (116SA20)	Mic.	116242518	50	MR53				116204194	1	HD684					5	²6C6, ²6B5, 80		
	Phono.	116242519	63	MR48				116204165	15	TC26								
	Tone	116252517	21	MR53	M26													
5793 (116SA40)	Mic.	116242520	15	MR39				116204194	1	HD684					7	²6J7, 6C5, ²6L6, 5Z3		
	Phono.	116242519	63	MR48				116204165	15	TC26								
	Tone	116252517	21	MR53	M26			116204224	15	TC36/TC26								
5797 (116SA30)	Mic.	116242518	15	MR53				116204194	1	HD684					6	²6J7, ²6N7, 5Z3		
	Tone	116252517	21	MR53	M26			116204165	15	TC26								
	Phono.	116242519	63	MR48														
5812 (138.905)	Vol.	138242014	15	MR48	M26			30-30-20	24/15	3N533					2	35Z4GT, 35L6GT		13-41
5815 (145.815)	Vol.	B301	50	MR48				B259	24	2N514					2	35L6GT, 35Z4GT		13-42
	Tone	B300	‡	MR48	M26			B208	15	TC22								
5818 (184.5818)	Vol.	1842465	50	MR48				1842065	24	2N511					2	35L6GT, 35Z5GT		14-93
	Tone	1842520	22	MR48	M26			1842070	15	TC22								
5819 (178.5819)	Vol.	2465	50	MR48				2065	24	2N511					2	35L6GT, 35Z5GT		14-93
	Tone	2520	22	MR48	M26			2070	15	TC22								
5827 (138.903)	Vol.	138242013	50	MR44	M26			138202012	1/15	3S584/TC22	B8				3	6Q7G, 6K6G, 6X5G		14-94
	Tone	138242012	21	MR45	M26			20	15	TC26								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
5827 (134.903)	Phono.	134192013	50	MR44	M26			134182015	1	TC71					3	6Q7G, 6K6G, 80		14-94
	Tone	134192013	21	MR44	M26			134182014	1	TC71								
								134182012	15	TC22								
5828 (138.906)	Vol.	138242014	15	MR48				30-20-20	24/15	3N533					2	35L6GT, 35Z5GT		14-95
	Tone		‡	MR48	M26													
5829 (138.904)	Vol.	138242013	15	MR44	M26			138202012	1/15	TCD74/TC26					3	6J5GT, 6K6GT, 6X5GT		14-95
	Tone	138242014	21	MR44	M26			20	15	TC26								
5833 (138.907)	Vol.	138242013	15	MR48				8-8-20	1/15	TCD74/TC26					3	6N7GT, 6V6GT, 6X5GT		14-96
	Tone	138242014	21	MR48	M26			20	15	TC26								
5841 (100.335)	Phono.	10023170768	50	MR44	M26													13-44
5848 (100.356)	Phono.	10024160743	50	MR44	M26			10020116470	24	2N509					2	35L6GT, 35Z5GT		
5849 (100.356)	Vol.	10024160743	50	MR44	M26			10020116470	24	FP211					2	35L6GT, 35Z5GT		13-46
R5854 (135.211)	Vol.	135243690	50	MK401														
6000 (101.495X)	Vol.	1012416101	18	UM157		See Note A96		1012017567	24/13	3S584		R16034	852	C3	6	[2]6U7G, 6A8G, 6B8G, 6V6G, 0Z4G or 6X5G	262	
								.005		Buffer	B14							
6001 (101.496X)	Vol.	1012416100	18	TM224-SS12				1012017576	24/13/15	3S584/TN111		R16034	852	C3	7	[3]6U7G, 6A8G, 6R7G, 6N7G, 0Z4G or 6X5G	262	
								.005		Buffer	B14							
6002 (100.195)	Vol.	10024113889	127	MR48	M26			10020112883	60	3S584					6	6A8G, 6K7G, 6Q7G, 6K6G, 5W4G, 6U5	465	
6003, 6004 (101.510)	Vol.	1012418394	15	MR55				1012013903	1	RS223					8	6A8G, 6J5G, 6U7G, 6H6G, 6F5G, 6V6G, 6U5, 5Y3G	465 455	
								1012014808	1	RS223								
6005 (101.507)	Vol.	1012418163	17	MR55				1012018184	1/15	2N516/TC22		1015114840	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6G, 6AB5	465	
								1012818672	78	TC26								
								.009-.009		Buffer	B14							
6008, 6009 (101.524)	Vol.	1012418335	15	Order from	Mfr.			1012018559	13	TC42					7	1C7G, 1D5GP, 1F7GH, [1]1H4G, 4A6G	465	
								1012018560	13	TC42								
6010 (101.519)	Vol.	1012418418	17	MR55	M27										4	1C7G, 1D5GP, 1F7GH, 1G5G	465	
6012, 6013 (101.509)	Vol.	1012417919	15	MR55				1012016259	12/13	2N516					6	1C7G, [1]1H4G, 1F7GH, 1G5G	465 455	
6014, 6015 (101.505)	Vol.	1012418108	17	MR55	M27			1012016259	12/13	2N516					6	1C7G, 1F7GH, [1]1H4G, 4A6G	465 455	
6016, 6017 (101.512)	Vol.	1012418335	17	Order from	Mfr.			1012016259	12/13	2N516					6	1C7G, 1F7GH, [1]1H4G, 4A6G	465	
6018, 6019 (101.524)	Vol.	1012418335	15	Order from	Mfr.			1012018559	13	TC42					7	1C7G, 1D5GP, 1F7GH, [1]1H4G, 4A6G	465	
								1012018560	13	TC42								
6021 (100.195)	Vol.	10024113889	127	MR48	M26			10020112883	60	3S584					6	6A8G, 6K7G, 6Q7G, 6K6G, 5W4G, 6U5	465	
6022 (101.509.1-2)	Vol.	1012418257	127	MR55				1012018256	1/15	TCD55/2N509	B181				7	6J8G, 6U7G, 6H6G, 6B6G, 25L6G, 6U5, 25Z6G	465 455	
6023 (101.506)	Vol.	1012418163	17	MR55				1012018161	1/15	TN129					6	6J8G, 6U7G, 6B6G, 25L6G, 6U5, 25Z6G	465	
6024 (101.510)	Vol.	1012418394	15	MR55				1012013903	1	RS223					8	6A8G, 6J5G, 6U7G, 6H6G, 6F5G, 6V6G, 6U5, 5Y3G	465 455	
								1012014808	1	RS223								
6025 (101.547)	Vol.	1012418881	127	MR55				1012018869	1/15	TCD55/2N509	B181				7	6J8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G	455	11-11,12
6028 (126.204)	Vol.	1262430891	18	MR44	M26T			1262031099	1	2S569					5	6A8, 6K7, 6Q7G, 6K6G, 5Y3G	455	
6031 (100.195)	Vol.	10024113889	127	MR48	M26			10020112883	60	3S584					6	6A8G, 6K7G, 6Q7G, 6K6G, 5W4G, 6U5	465	
6034 (101.510)	Vol.	1012418394	15	MR55				1012013903	1	RS223					8	6A8G, 6J5G, 6U7G, 6H6G, 6F5G, 6V6G, 6U5, 5Y3G	465 455	
								1012014808	1	RS223								
6036 (101.511)	Vol.	1012418616	17	MRT448				1012013903	1	RS223					10	[2]6U7G, 6A8G, [2]6J5G, 6Q7G, [2]6V6G, 7G5, 5Y3G	465 455	
								1012014808	1	RS223								
6038 (101.517)	Vol.	1012418616	20	MRT448				13903	3	RS223					13	[2]6B8G, [2]6J5G, 6A8G, [2]6U7G, 6H6G, [2]6V6G, 6AE6G, 6AD6G, 5X4G	455	
								14808	3	RS223								
								18764	13/15	TC52/TC26								
6040 (101.519)	Vol.	1012418418	17	MR55	M27										4	1C7G, 1D5GP, 1F7GH, 1G5G	465	
6042, 6043 (101.504)	Vol.	1012417919	15	MR55				1012016259	12/13	2N516					6	1C7G, [1]1H4G, 1F7GH, 1G5G	465 455	
6044	Vol.	1012418108	17	MR55	M27			1012016259	12/13	2N516					6	1C7G, 1F7GH, [1]1H4G, 4A6G	465 455	
6045	Vol.	1012418108	17	MR55	M27			1012016259	12/13	2N516					6	1C7G, 1F7GH, [1]1H4G, 4A6G	465 455	
6046, 6047 (101.512)	Vol.	1012418335	17	Order from	Mfr.			1012016259	12/13	2N516					6	1C7G, 1F7GH, [1]1H4G, 4A6G	465	
6048, 6049 (101.524)	Vol.	1012418335	15	Order from	Mfr.			1012018559	13	TC42					7	1C7G, 1D5GP, 1F7GH, [1]1H4G, 4A6G	465	
								1012018560	13	TC42								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
6050, 6051 (Ch. 101.503-1)	Vol.	1012418877.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	455	
6052, 6053 (101.525)	Vol.	1012418808.	15	MR55				1012016259.	12/13	2N516					6	1C7G, 1F7GH, [3]1H4G, 1G5G	465 455	
6054, 6055 (101.532)	Vol.	1012419021.	17	MR55	M27										4	1C7G, 1D5GP, 1F7GH, 1G5G	465	10-65
6056, 6057 (101.548)	Vol.	1012419892.	15	MR55				1012019891.	12	TC44					5	1C7G, 1F7GH, [3]1H4G, 1G5G	455	11-13
6058, 6059 (101.505)	Vol.	1012418108.	17	MR55	M27			1012016259.	12/13	2N516					6	1C7G, 1F7GH, [3]1H4G, 4A6G	455	
6064 (101.505)	Vol.	1012418108.	17	MR55	M27			1012016259.	12/13	2N516					6	1C7G, 1F7GH, [3]1H4G, 4A6G	465 455	
6065 (101.505)	Vol.	1012418108.	17	MR55	M27			1012016259.	12/13	2N516					6	1C7G, 1F7GH, [3]1H4G, 4A6G	455	
6068, 6069 (101.504)	Vol.	1012418335.	15	Order from	Mfr.			1012018559. 1012018560.	13 12	TC42 TC42					7	1C7G, 1D5GP, 1F7GH, [3]1H4G, 4A6G	465	
6070 (100.189)	Vol.	10024113419	18	MR44	M27			10020113422 10020110377 .01	4 78	2N516 TC22 Buffer	 B14	10151110800	246	C3	5	1C7G, 1D5GP, 6T7G, 1F5G, 6AB5	465	10-63,64
6071 (101.507)	Vol.	1012418163.	17	MR55				1012018184. 1012018672. .009-.009	1/15 ‡ 	2N516/TC22 TC26 Buffer	 B14	1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6G, 6AB5	465	
6072 (101.513)	Vol.	1012418259.	17	MR55				1012018493. 1012018672. .009-.009	1/15 78 	3N527 TC26 Buffer	 B14	1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6G, 6AB5	465	
6073 (101.528)	Vol.	1012418939.	18	Order from	Mfr.			1012018938. .012	1/15 	TCS64/TC26 Buffer	 B14	1015114300.	294	C3	6	6D8G, 6S7G, 6T7G, 6AB5, 6G6G, 6ZY5G	465	10-67,68
6074 (101.515)	Vol.	1012418715.	17	Order from	Mfr.			1012018714. .012	1/13/15 	TCD55/TCD52 Buffer	 B14	1015114300.	294	C3	7	6D8G, 15, 6T7G, 6ZY5G, 6L5G, 1J6G, 6AB5	465	10-71
6076 (101.507)	Vol.	1012418163.	17	MR55				1012018184. 1012018672. .009-.009	1/15 78 	2N516/TC22 TC26 Buffer	 B14	1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6, 6AB5	465	
6077 (101.513)	Vol.	1012418259.	17	MR55				1012018493. 1012018672. .009-.009	1/15 78 	3N527 TC26 Buffer	 B14	1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6G, 6AB5	465	
6079 (101.515)	Vol.	1012418715.	17	Order from	Mfr.			1012018714. .012	1/13/15 	TCD55/TCD52 Buffer	 B14	1015114300.	294	C3	6	6D8G, 15, 6T7G, 6L5G, 1J6G, 6AB5	465	
6100 (101.495)	Vol.	1012416101.	15	UM157		See Note A96		1012017567. .005	24/13 	3S584 Buffer	 B14	R16034	852	C3	6	[3]6U7G, 6A8G, 6B8G, 6V6G, 0Z4G or 6X5G	262	10-69,70
6101 (101.496)	Vol.	1012416100.	20	TM224-SS12				1012017576. .005	24/13/15 	3S584/TN111 Buffer	 B14	R16034	852	C3	7	[3]6U7G, 6A8G, 6R7G, 6N7G, 0Z4G or 6X5G	262	10-72
6102, 6102A, 6103, 6103A (101.526)	Vol.	1012418344.	6	MR20	M26	EX150		1012017761.	1/15	TN129					5	[3]6D6, 6F5G, 25L6G, 12Z3		10-73,74
6104 (126.203)	Vol	1262431637.	18	MR48	M26			1262031598. .0075	24/15 	3S579 Buffer	 B14	80985-3	859	C3	5	6A8, 6K7, 6Q7, 6F6, 6X5	455	10-75-77
6105, 6105A (101.526)	Vol.	1012418344.	6	MR20	M26	EX150		1012017761.	1/15	TN129					5	[3]6D6, 6F5G, 25L6G, 12Z3		
6106, 6107, 6108 (109.278)	Vol.	109245912.	8	MR22	M26			109205780. 109205779.	25 25	TC47 TC42					4	12K7GT, 12F5GT, 35L6GT, 35Z4GT		11-14
6109, 6110, 6111 (101.508)	Vol.	1012418827.	6	MR21	M26	EX150		1012018823.	1/15	3S579					5	[3]6K7, 6J7, 25A6G, 1V		
6112, 6113 (101.521)	Vol.	1012418827.	6	MR21	M26	EX150		1012018823.	1/15	3S579					5	[3]6K7, 6J7, 25A6G, 1V		10-79
6114, 6115 (101.522)	Vol.	1012418827.	6	MR21	M26	EX150		1012018823. 8	9 9	3S579 TC32					5	[3]6K7, 6J7, 25A6G, 25Z6G		10-80
6116 (109.278)	Vol.	109245912.	8	MR22	M26			109205780. 109205779.	25 25	TC47 TC42					4	12K7GT, 12F5GT, 35L6GT, 35Z4GT		11-14
6118 (101.521)	Vol.	1012418827.	6	MR21	M26	EX150		1012018823.	1/15	3S579					5	[3]6K7, 6J7, 25A6G, 1V		
6119, 6120 (101.546)	Vol.	1012419856.	18	MR48				1012019845. 1012019913.	9/15 9	TN129 TC44					6	6J8G, 6U7G, 6B6G, 25B6G, 6U5, Bk42B, 25Z6G	455	
6121 (100.195)	Vol.	10024113889	127	MR48	M26			10020112883	60	3S581					6	6A8G, 6K7G, 6Q7G, 6K6G, 6U5, 5W4G	465	
6122 (101.509-1-2)	Vol.	1012418259.	127	MR55				1012018256.	1/15	TCD55/2N509	B181				7	6J8G, 6U7G, 6H6G, 6B6G, 25L6G, 6U5, 25Z6G	465 455	
6123 (101.506)	Vol.	1012418163.	17	MR55				1012018161.	1/15	TN129					6	6J8G, 6U7G, 6B6G, 25L6G, 6U5, 25Z6G	465	
6124 (101.510)	Vol.	1012418394.	15	MR55				1012013903. 1012014808.	1 1	RS223 RS223					8	6A8G, 6J5G, 6U7G, 6H6G, 6F5G, 6V6G, 6U5, 5Y3G	465 455	
6125 (101.527)	Vol.	1012418881.	127	MR55				1012018869.	1/15	TCD55/2N509	B181				6	6J8G, 6U7G, 6B6G, 25L6G, 6U5, 25Z6G	465	10-81

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
6126, 6127 (101.546)	Vol.	1012419856.	18	MR48				1012019845. 1012019913.	9/15 9	TN129 TC44					6	6J8G, 6U7G, 6B6G, 25B6G, 6U5, 25Z6G, BK42B	455	
6128 (101.547)	Vol.	1012418881.	127	MR55				1012018869.	1/15	TCD55/2N509	B181				7	6J8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G	455	
6130 (101.557)	Vol.	1012419856.	18	MR48				1012019845. 1012019913.	9/15 9	3N533 TC44					6	6J8G, 6U7G, 6B6G, 25B6G, 6U5, 25Z6G, BK42B	455	11-17,18
6131 (100.195)	Vol.	10024113889	127	MR48	M26			10020112883	60	3S584					6	6A8G, 6K7G, 6Q7G, 6K6G, 5W4G, 6U5	465	
6132 (101.509-1-2)	Vol.	1012418259.	127	MR55				1012018256.	1/15	TCD55/2N509	B181				7	6J8G, 6U7G, 6H6G, 6B6G, 25L6G, 6U5, 25Z6G	465 455	
6133 (101.535)	Vol.	1012418259.	127	MR55				1012019192.	1/15	Order from	Mfr.				8	6J8G, 6U7G, ‡6J5G, 6F5G, 6Y5G, 6U5, 6W5G	455	11-19,20
6134 (101.510)	Vol.	1012418394.	15	MR55				13903 14808	1 1	RS223 RS223					8	6A8G, 6J5G, 6U7G, 6H6G, 6F5G,6V6G, 6U5, 5Y3G	465 455	
6136 (101.511)	Vol.	1012418616.	17	MRT448				1012013903. 1012014808.	1 1	RS223 RS223					10	‡6U7G, 6A8G, ‡6H6G, 6Q7G,‡6V6G, 6G5, 5Y3G	465 455	10-56,57
6137 (101.535)	Vol.	1012418259.	127	MR55				1012019192.	1/15	Order from	Mfr.				8	6J8G, 6U7G, ‡6J5G, 6F5G, 6Y5G, 6U5, 6W5G	455	11-10, 19,20,27
6138 (101.517)	Vol.	1012418616.	20	MRT448				1012013903. 1012014808. 1012018764.	3 3 13/15	RS223 RS223 TC52/TC26					13	‡6B8G, ‡6J5G, 6A8G, ‡6U7G, 6H6G, ‡6V6G, 6AE6G, 6AD6G, 5X4G	465 455	10-44 55,58
6139 (101.535)	Vol.	1012418259.	127	MR55				1012019192.	1/15	Order from	Mfr.				8	6K8G, 6U7G, ‡6J5G, 6F5G, 6Y5G, 6U5, 6W5G	455	11-10, 19,20,27
6140 (101.534)	Vol.	1012419076.	20	MRT448				1012013903. 1012019079.	1 1	RS223 RS216					10	6A8G, ‡6J5G, 6U7G, 6H6G, 6Q7G, ‡6V6G, 6U5, 5Y3G	465	10-82-84
6141 (101.535)	Vol.	1012418259.	127	MR55				1012019192.	1/15	Order from	Mfr.				8	6J8G, 6U7G, ‡6J5G, 6F5G, 6Y5G, 6U5, 6W5G	455	11-10, 19,20,27
6142 (101.504)	Vol.	1012417919.	15	MR55				1012016259.	12/13	2N516					6	1C7G, ‡1H4G, 1F7GH, 1G5G	465 455	
6144 (101.505)	Vol.	1012418108.	17	MR55	M27			1012016259.	13	2N516					6	1C7G, 1F7GH, ‡1H4G, 4A6G	465 455	10-6-8
6146 (101.512)	Vol.	1012418335.	17	Order from	Mfr.			1012016259.	12/13	2N516					6	1C7G, 1F7GH, ‡1H4G, 4A6G	465	10,47,48
6148 (101.524)	Vol.	1012418335.	15	Order from	Mfr.			1012018559. 1012018560.	13 12	TC42 TC42					7	1C7G, 1D5GP, 1F7GH, ‡1H4G, 4A6G	465	10-44,45
6150 (101.503-1)	Vol.	1012418877.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	455	
6151 (101.556)	Vol.	1012419856.	18	MR48				1012020721. 1012020722.	9 9/15	TC47 3N533					6	6J8G, 6U7G, 6B6G, 25B6G, 6U5, 25Z6G	455	11-21,22
6152, 6153 (101.537)	Vol.	1012419207.	20	MRT448				1012013903. 1012019079.	1 1	RS223 RS216					10	6A8G, ‡6J5G, 6U7G, 6H6G, 6Q7G, ‡6V6G, 6U5, 5Y3G	465	10-82,84
6155, 6156 (101.549)	Vol.	1012419207.	20	MRT448				1012013903. 1012019079.	1 1	RS223 RS216					11	6A8G, ‡6J5G, 6U7G, 6Q7G, ‡6V6G, 6U5, 5Y3G	455	11-23
6157 (100.198)	Vol.	10024114651	20	TM243-S816	M26			10020113261 1002089937. 10020110377	25 25 15	RS223 RS223 TC22					11	6A8G, ‡6J5G, ‡6K7G, 6H6G, 6F5G, ‡6F6G, 5Y3G, 6U5	465	10-85-88
6158, 6159 (101.555)	Vol.	1012418616.	20	MRT448				1012013903. 1012014808.	1 1	RS223 RS223					11	‡6U7G, 6A8G, ‡6J5G, 6Q7G, ‡6V6G, 6U5, 5Y3G	455	11-25
6160, 6161 (109.199)	Vol.	109244872.	18	MR48	M26			5780. 5893.	4 4	TC47 TC44					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	11-26
6162 (101.533)	Vol.	1012419219.	18	MR48											6	6A7, 6D6, 75, 76, ‡48	465	
6163 (109.199)	Vol.	109244872.	18	MR48	M26			109205780. 109205893.	4 4	TC47 TC44					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	11-26
6164 (101.505)	Vol.	1012418108.	17	MR55	M27			1012016259.	12/13	2N516					6	1C7G, 1F7GH, ‡1H4G, 4A6G	465 455	10-6-8
6165, 6166, 6167 (109.216-1)	Vol.	109245912.	8	MR22	M26			109205780. 109205779.	23 23	TC47 TC42					4	6K7, 6F5, 25L6, 25Z6		
6168 (Ch. 101.524)	Vol.	1012418335.	15	Order from	Mfr.			1012018559. 1012018560.	13 12	TC42 TC42					7	1C7G, 1D5GP, 1F7GH, ‡1H4G, 4A6G	465	10-45
6170 (100.189)	Vol.	10024113419	18	MR44	M27			10020113422 10020110377 .01	1 78	2N516 TC22 Buffer	B14	10051110800	246	C3	5	1C7G, 1D5GP, 6T7G, 1F5G, 6AB5	465	10-63
6171 (101.507)	Vol.	1012418163.	17	MR55				1012018184. 1012018672. .009-.009	1/15 78	2N516/TC22 TC26 Buffer	B14	1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6G, 6AB5	465	10-6

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
6172 (101.513)	Vol.	1012418259.	17	MR55				1012018493.	1/15	2N516/TC22		1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6G, 6AB5	465	10-66
								1012018672.	‡	TC26								
								.009-.009		Buffer	B14							
6173 (101.528)	Vol.	1012418939.	18	Order from	Mfr.			1012018938.	1/15	TCS64/TC26		1015114300.	294	C3	6	6D8G, 6S7G, 6T7G, 6AB5, 6G6G, 6ZY5G	465	10-67
								.012		Buffer	B14							
6175 (109.199)	Vol.	109244872.	18	MR48	M26			109205780.	4	TC47					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	11-26
6176 (101.507)	Vol.	1012418163.	17	MR55				109205893.	4	TC44								
								18184	1/15	2N516/TC22		1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6G, 6AB5	465	10-6
								18672	‡	TC26								
								.009-.009		Buffer	B14							
6177, 6178, 6179 (109.279)	Vol.	109244872.	18	MR48	M26			109205780.	4	TC47					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-28
								109205893.	4	TC44								
6177A, 6178A, 6179A (101.279-1)	Vol.	109244872.	18	MR48	M26			109205780.	4	TC47					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-22
								109205893.	4	TC44								
6185 (109.279)	Vol.	109244872.	18	MR48	M26			109205780.	4	TC47					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-28
								109205893.	4	TC44								
6185A (109.279-1)	Vol.	109244872.	18	MR48	M26			109205780.	4	TC47					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-22
								109205893.	4	TC44								
6190 (126.209)	Vol.	1262433393.	18	MR44	M26			10-10-20	24/15	FP332		1265113688.	859	C3	6	6K7, 6A8, 6SK7, 6SQ7, 6V6G, 0Z4G	260	11-29-31
								.0075		Buffer	B14							
6192 (101.555)	Vol.	1012418616.	20	MRT448				1012016259.	12/13	2N516					11	[2]6U7G, 6A8G, [2]6J5G, 6Q7G, [2]6V6G, 6U5, 5Y3G	455	11-25
6193 (101.517)	Vol.	1012418616.	20	MRT448				1012013903.	3	RS223					13	[2]6B8G, [2]6J5G, 6A8G, [2]6U7G, 6H6G, [2]6V6G, 6AE6G, 6AD6G, 5X4G	455	
								1012014808.	3	RS223								
								1012018764.	13/15	TC52/TC26								
6195, 6196, 6197 (109.216)	Vol.	109245252.	8	MR22	M26			109205295.	23	TCS45					4	6K7, 6J7, 25L6, 25Z6		10-91
6199 (101.535)	Vol.	1012418259.	127	MR55				1012019192.	1/15	Order from	Mfr.				8	6K8G, 6U7G, [2]6J5G, 6F5G, 6Y5G, 6U5, 6W5G	455	11-10, 19,20,27
6200 (101.546)	Vol.	1012419856.	18	MR48				1012019845.	9/15	TN129					6	6J8G, 6U7G, 6B6G, 25B6G, 6U5, 25Z6G, BK42B	455	11-15
								1012019913.	9	TC44								
6201 (101.547)	Vol.	1012418881.	127	MR55				1012018869.	1/15	TCD55/2N509	B181				7	6J8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G	455	11-11
6202, 6203 (101.535)	Vol.	1012418259.	127	MR55				1012019192.	1/15	Order from	Mfr.				8	6J8G, 6U7G, [2]6J5G, 6F5G, 6Y5G, 6U5, 6W5G	455	11-10, 19,20,27
6208, 6209 (101.554)	Vol.	1012418335.	18	Order from	Mfr.			1012016259.	12/13	2N516					7	1D7G, [3]1H4G, 1F7GH, 1H6G, 4A6G	455	11-32
6210 (100.189)	Vol.	10024113419	18	MR44	M27			10020113422	1	2N516		10051110800	246	C3	5	1C7G, 1D5GP, 6T7G, 1F5G, 6AB5	465	
								10020110377	78	TC22	‡							
								.01		Buffer	B14							
6214 (101.552, A)	Vol.	1012419789.	17	Order from	Mfr.			1012019788.	1/15	3S579		1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GH, 6G6G, 6AB5	455	11-33
								1012018672.	78	TC26								
								.009-.009		Buffer	B14							
6218 (101.553, A)	Vol.	1012418939.	18	Order from	Mfr.			1012018938.	1/15	TCS64/TC26		1015114300.	294	C3	7	6D8G, 6S7G, 6T7G, 6L5G, 6AB5, 6G6G, 6ZY5G	455	11-34,45
								.012		Buffer	B14							
6225 (133.333)	Vol.	13324181003	6	MR 8	M26			1332001482.	24	2N514					3	6K8, 6B8, 25Z6	1570	11-35-37
6226 (134.802-1)	Vol.	134192013.	50	MR44	M26			16	24	TC44					2	6A7, 25Z5		14-96
								8	24	TC42								
6227, 6228 (126.212)	Vol.	1262432499.	50	MR44	M26T													
6229 (126.210)	Vol.	1262432499.	50	MR44	M26T			1262032152.	24	FP217					2	6A8, 25Z6G		11-38,36
6233 (Ch. 126.222)	Vol.	1262434804.	50	MR44	M26			86027-1	24	FP211					2	12A8GT, 35Z4GT		11-40
6250 (101.546)	Vol.	1012419856.	18	MR48				1012019845.	9/15	TN129					6	6J8G, 6U7G, 6B6G, 25B6G, 6U5, 25Z6G, BK42B	455	11-15,16
								1012019913.	9	TC44								
6251 (101.547)	Vol.	1012418881.	127	MR55				1012018869.	1/15	TCD55/2N509	B181				7	6J8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G	455	11-11
6252, 6253 (101.535)	Vol.	1012418259.	127	MR55				1012019192.	1/15	Order from	Mfr.				8	6J8G, 6U7G, [2]6J5G, 6F5G, 6Y5G, 6U5, 6W5G	455	11-10, 19,20,27
6254 (101.549)	Vol.	1012419207.	20	MRT448				1012013903.	1	RS223					11	6A8G, [2]6J5G, 6U7G, 6Q7G, [2]6V6G, 6U5, 5Y3G	455	11-23
								1012019079.	1	RS216								
6256 (101.290)	Vol.		18	MR48	M27			8	12	TC42					4	1A7, 1B5, 1H5, 1C5	455	11-41
6260 (101.558)	Vol.	1012420813.	18	MR48	M27			1012018560.	12	TC42					4	1A7G, 1N5G, 1H5G, 1A5G	455	11-42
6261 (101.561)	Vol.	1012420715.	18	MR48				1012019891.	12	TC44					5	1A7G, [2]1N5G, 1H5G, 1A5G	455	11-43

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	*Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
6262 (101.550)	Vol.	1012420515.	18	MR48				1012019891.	12	TC44					5	1A7G, [2]1N5G, 1H5G, 1A5G	455	11-44
6263 (101.562)	Vol.	1012420807.	18	Order from	Mfr.			1012019891.	24	TC44					6	1A7G, [2]1N5G, 1H5G, 1G4G, 1G6G	455	11-45
6264, 6265 (101.551)	Vol.	1012420807.	18	Order from	Mfr.			1012019891.	24	TC44					6	1A7G, 1H5G, [2]1N5G, 1G4G, 1G6G	455	11-46
6266 (101.563)	Vol.	1012420819.	18	MR48	M27			1012019891.	12	TC44					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-47
6270 (101.552, A)	Vol.	1012419789.	17	Order from	Mfr.			1012019788.	1/15	3S579		1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GH, 6G6G, 6AB5	455	11-33
								1012018672.	78	TC26								
								.009-.009		Buffer	B14							
6271, 6272 (101.553, A)	Vol.	1012418939.	18	Order from	Mfr.			1012018938.	1/15	TCS64/TC26		1015114300.	294	C3	7	6D8G, 6S7G, 6T7G, 6L5G, 6AB5, 6G6G, 6ZY5G	455	11-34,45
								.012		Buffer	B14							
6301 (126.211)	Vol. & Tone	1262432978.	80	Order from	Mfr.			1262032240.	1/15	FP332		1265113688.	294	C3	7	6K7, 6A8, 6SK7, 6R7, [3]6V6G, 0Z4G	260	11-49,50
								.0075		Buffer	B14							
6302 (101.598)	Vol.	1012442244.	18	‡		See Note A19		1012042243.	24/15	FP328		1015142249.	870	C3	6	[3]6K7GT, 6A8GT, 6Q7GT, 6V6G, 0Z4G	455	11-51
								.004		Buffer	B14							
6303 (126.223)	Vol.	1262435550.	18	MR53	M26			86031-4	24/15	FP332		80783-6	742	C3	4	6SA7, 6SK7, 6SQ7, 6V6GT	455	11-53
								.008		Buffer	B14							
6320 (101.585)	Vol.	1012420911.	18	Order from	Mfr.			1012020935.	1	2N514					6	12A8GT, 12K7GT, 12Q7GT, 6H4GT, 35L6GT, 35Z5GT	455	11-55,56
6321, 6322, 6323 (101.471, 1A, 1B)	Vol.	1012440078.	45	MR48				1012040101.	1/15	3N533					6	6K8G, 6U7G, 6J5G, 6F5G, 25L6G, 25Z6G	455	11-57
6324 (101.570)	Vol.	1012440078.	45	MR48				1012040101.	1/15	3N533					7	6K8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G	455	11-58
6325 (101.572)	Vol.	1012440208.	127	MR55				1012040158.	9/15	FP331					8	6K8G, 6U7G, [3]6J5G, 6F5G, 25B6G, 6U5, 25Z6G	455	11-59,60
								1012040157.	15	TC47								
6326 (110.987, 1)	Vol.	1102428.	6	MR28	M26			1102053.	46	FP357	B117				5	12K7GT, 12J5GT or 12J7GT, 12F5GT, or 12J7GT, 35L6GT, 35Z5GT		12-53
	Phono.	1102429.	50	MR44	M26			1102046.	46	2N513	B12							
6327 (110.990)	Vol.	1102433.	75	MR48	M26			1102049.	24	FP214					6	12A8GT, 12K7GT, 6H4GT, 12J7GT, 35L6GT, 35Z5GT	455	11-62
								1102046.	24	2N513	B12							
6329 (110.989)	Vol.	1102433.	75	MR48	M26			1102050.	24	FP214					6	12A8GT, 12K7GT, 6H4GT, 12J7GT, 35L6GT, 35Z5GT	455	11-76
								1102046.	24	2N513	B12							
6335 (101.573)	Vol.	1012440708.	127	MR55				1012040274.	46	See Note	B3				8	6K8G, 6U7G, 6Q7G, [3]25L6G, 6U5, 25Z6G, 6J5G	455	11-63
6336 (101.574)	Vol.	1012440330.	127	Order from	Mfr.			1012013903.	1	RS223					10	6K8G, 6U7G, 6Q7G, [3]6P5G, [3]6AC5G, 5Y3G, 6U5	455	11-65
								1012014808.	1	RS223								
6337 (101.576)	Vol.	1012440381.	124	SM307				1012041502.	1	RS223					13	[3]6U7G, 6K8G, [3]6P5G, 6F5G, [3]6AC5G, 6U5, 5X4G	455	11-67
								1012041503.	1	RS223								
6345 (110.982, 2, 3)	Vol.	1102431.	76	MR48	M26			1102028.	1	TC65					6	6A8G, 6K7G, 6H6G, 6F5G, 6V6G, 6X5G	455	11-69
	Tone	1102571.	76	MR48				1102029.	15	TC65								
6346, 6346A (101.584, 1, 2)	Vol.	1012440789.	124	Order from	Mfr.			1012013903.	1	RS223					11	[3]6U7G, 6K8G, 6Q7G, [3]6P5G, [3]6AC5G, 6U5, 5X4G	455	11-71,72
								1012014808.	1	RS223								
6350, 6351, 6352 (101.580)	Vol.	1012440005.	18	MR48	M27			1012019891.	12	TC44					4	1A7G, 1N5G, 1H5G, 1A5G	455	11-77
6353, 6354, 6355 (101.577)	Vol.	1012440087.	18	MR48				1012019891.	12	TC44					5	1A7G, [2]1N5G, 1H5G, 1A5G	455	11-78
6356, 6357, 6358 (101.578)	Vol.	1012420515.	18	MR48				1012019891.	12	TC44					5	1A7G, [2]1N5G, 1H5G, 1A5G	455	11-79
6359, 6360, 6361 (101.579)	Vol.	1012440271.	18	Order from	Mfr.			1012019891.	12	TC44					6	1A7G, [2]1N5G, 1H5G, 1G4G, 1G6G	455	11-81,82
6362, 6363, 6364 (101.581)	Vol.	1012440271.	18	Order from	Mfr.			1012019891.	12	TC44					6	1A7G, [2]1N5G, 1H5G, 1G4G, 1G6G	455	11-80,82
6368 (Ch. 101.582)	Vol.	1012441753.	18	Order from	Mfr.			1012041756.	1/15	FP360	B117	1015114300.	859	C3	7	6D8G, 6S7G, 6T7G, 6L5G, 6AB5, 6G6G, 6ZY5G	455	11-82,83
								.012		Buffer	B14							
6372, 6373 (110.991)	Vol.	1102423.	18	MR48	M27			1102025.	12	TC42					4	1A7G, 1N5G, 1H5G, 1A5G	455	11-84

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
6379, 6380, 6381 (101.579)	Vol.	1012440271.	18	Order from	Mfr.			1012019891.	12	TC44					6	1A7G, ‡1N5G, 1H5G, 1G3G, 1G6G	455	11-81,82
6382 (Ch. 101.594)	Vol.	1012441753.	18	Order from	Mfr.			1012041756.	1/15	FP360	B117	1015114300.	294	C3	7	6D8G, 6S7G, 6T7G, 6L5G, 6AB5, 6G6G, 6ZY5G	455	11-82,83
								.012		Buffer	B14							
6400, 6401, 6402 (101.565)	Vol.	1012420889.	8	MR22	M26			30-20	1	2N514					4	12K7GT, 12F5GT, 35L6GT, 35Z5GT		11-91
6400A, 6401A, 6402A (101.593, A, B)	Vol.	1012420889.	8	MR22	M26			30-20	1	2N514					4	12K7GT, 12F5GT, 35L6GT, 35Z5GT		11-91
6403, 6404, 6405, 6406 (101.566)	Vol.	1012420911.	18	Order from	Mfr.			1012020935.	1	2N514					5	12A8GT, 12Q7GT, 12K7GT, 35L6GT, 35Z5GT	455	11-85,86
6407, 6408, 6409 (101.567)	Vol.	1012420911.	18	Order from	Mfr.			1012020935.	1	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	11-86,87
6121 (101.471)	Vol.	1012440078.	45	MR48				1012040101.	1/15	3N533					6	6K8G, 6U7G, 6J5G, 6F5G, 25L6G, 25Z6G	455	11-57
6424 (101.570)	Vol.	1012440078.	45	MR48				1012040101.	1/15	3N533					7	6K8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G	455	11-58
6425 (101.572)	Vol.	1012440208.	127	MR55				1012040158.	9/15	See Note	B3				8	6K8G, 6U7G, ‡6J5G, 6F5G, 25B6G, 6U5, 25Z6G	455	11-59,60
6435 (101.573)	Vol.	1012440208.	127	MR55				1012040157.	15	TC47								
								75-30-16	46	See Note	B3				8	6K8G, 6U7G, 6Q7G, ‡25L6G, 6U5, 6J5G, 25Z6G	455	11-63
6436 (101.574)	Vol.	1012440330.	127	Order from	Mfr.			1012013903.	1	RS223					10	6K8G, 6U7G, 6Q7G, ‡6P5G, ‡6AC5G, 6U5, 5Y3G	455	11-65
								1012014808.	1	RS223								
6437, 6437A (101.576)	Vol.	1012440381.	124	SM307				1012041502.	1	RS223					13	‡6U7G, 6K8G, ‡6P5G, 6F5G, ‡6AC5G, 6U5, 5X4G	455	11-67
								1012041503.	1	RS223								
6438, 6438A, 6438B, 6439, 6439A, 6440 (101.583)	Vol.	1012440381.	124	SM307				1012013903.	1	RS223					11	‡6U7G, 6K8G, 6Q7G, ‡6P5G, ‡6AC5G, 6U5, 5X4G	455	11-89
								1012014808.	1	RS223								
6441 (101.599)	Vol.	1012440381.	124	SM307				1012042113.	46	Order from	Mfr.				9	‡6U7G, 6K8G, 6Q7G, 6J5G, ‡25C6G, 6U5, 25Z6G	455	11-92
6446 (101.584, 1, 2)	Vol.	1012440789.	124	Order from	Mfr.			1012013903.	1	RS223					11	‡6U7G, 6K8G, 6Q7G, ‡6P5G, ‡6AC5G, 6U5, 5X4G	455	11-71,72
								1012014808.	1	RS223								
6447 (Ch. 101.590, 1)	Vol.	1012441616.	124	MRT449				1012041596.	1	FP228	B117				6	6K8G, 6U7G, 6B6G, 6AF5G, 25AC5G, 25Z6G	455	11-93,94
6447 (Ch. 101.590, 2, 3, 4, 5)	Vol.	1012441616.	124	MRT449				1012041596.	1	FP228	B117				6	6K8G, 6U7G, 6B6G, 6AF5G, 25AC5G, 25Z6G	455	.....
	Tone	1012541939.	22	UM160-SS1	M26													
6449 (Ch. 101.628)	Vol.	1012443157.	124	Order from	Mfr.			1012043064.	3	FP441	B69				10	‡6U7G, 6K8G, ‡6Q7G, ‡6V6G, 6U5, 6J7G, 5Y3	455	.....
	Tone	1012543892.	22	MR53				1012043888.	13	RS215								
6490 (101.573)	Vol.	1012440208.	127	MR55				75-30-16	46	See Note	B3				8	6K8G, 6U7G, 6Q7G, ‡25L6G, 6U5, 6J5G, 25Z6G	455	11-63
6491 (110.982-1A)	Vol.	1102431	76	MR48			A4	1102028	1	TC65					6	6A8G, 6K7G, 6H6G, 6F5G, 6V6G, 6X5G	455	11-69
	Tone	1102571	76	MR48				1102029	1	TC65								
	Vol.	1102444	76	MR48	M26		A27	1102018	15	TC29								
6491A (110.410)	Vol.		75	MRT427				12, 12	46	TC71					6	6A8G, 6U7G, 6H4GT, 6F5G, 6V6G, 5Y3G	455	12-54
	Tone		34	MR24				20	46	ST598								
6492 (101.566)	Vol.	1012420911.	18	Order from	Mfr.			1012020935.	1	2N514					5	12A8GT, 12Q7GT, 12K7GT, 35L6GT, 35Z6GT	455	11-85
6493 (Ch. 101.570, 1A, 1B)	Vol.	1012440078.	45	MR48				1012040101.	1/15	3N533					7	6K8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G	455	11-58
6493A (101.610-2A)	Vol.	1012442656.	45	TM233-SS1				1012043653.	9/15	Order from	Mfr.				7	6K8G, ‡6U7G, 6J5G, 6F5G, 25C6G, 35Z4G	455	11-58
								1012042425.	9	TC50								
6494 (110.982-1A)	Vol.	1102431	76	MR48			A4	1102028	1	TC65					6	6A8G, 6K7G, 6H6G, 6F5G, 6V6G, 6X5G	455	11-69
	Tone	1102571	76	MR48				1102029	1	TC65								
	Vol.	1102444	76	MR48	M26		A27	1102018	15	TC29								

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
6495 (101.573)	Vol.	1012440208.	127	MR55				75-30-16	46	See Note	B3				8	6K8G, 6U7G, 6Q7G, [2]5L6G, 6U5, 6J5G, 25Z6G	455	11-63
6496 (101.566)	Vol.	1012420911.	18	Order from	Mfr.			1012020935.	1	2N514					5	12A8GT, 12Q7GT, 12K7GT, 35L6GT, 35Z5GT	455	11-85
6497 (101.595)	Vol.	1012440381.	124	SM307				1012041502.	1	RS223					11	[2]6U7G, 6K8G, 6Q7G, [2]6P5G, [2]6AC5G, 6U5, 5X4G	455	11-95
								1012041503.	1	RS223								
6521 (101.621, 1, 1A, 1B, 1C)	Vol.	1012442622.	18	MR53	M27			1012042644.	1/78	Order from	Mfr.				6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 50Y6GT	455	12-55, 56,58
6541 (110.401)	Vol.	1102439	18	MR48	M27			1102025	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	455	12-59
6551 (101.620, 1, 2)	Vol.	1012442622.	18	MR53	M27			1012042644.	1/78	Order from	Mfr.				5	1A7GT, 1N5GT, 1H5GT, 1A5G, 50Y6GT	455	12-57,58
6561 (101.621-1, A, 1A, 1B, 1C, 2)	Vol.	1012442622.	18	MR53	M27			1012042644.	1/78	Order from	Mfr.				6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 50Y6GT	455	12-55,56
6621 (101.637)	Vol.	1012444265.	18	Order from	Mfr.			1012042033.	1	2N511	B8				6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 117Z6GT	455	12-60
								1012042031.	1/78	FP357	B8							
6641 (136.410)	Vol.	1363525	18	‡		See Note	A3	1362521	12	TC42					4	1R5, 1T4, 1S5, 1S4	455	
6651 (110.402)	Vol.	1102439	18	MR48	M27			1102025	12	TC42					5	1A7GT, 1N5GT, 1H5GT, [2]1A5GT	455	12-59
6661 (101.621, A-1, 1A, 1B, 1C)	Vol.	1012442622.	18	MR53	M27			1012042644.	1/78	Order from	Mfr.				6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 50Y6GT	455	12-55,56
6721 (101.622-A, 101.622, 1, 1A)	Vol.	1012442976.	18	Order from	Mfr.			1012042644.	1/78	Order from	Mfr.				6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 25Z6GT	455	12-61
6751 (101.623, 1)	Vol.	1012442976.	18	Order from	Mfr.			1012042644.	1/78	Order from	Mfr.				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 25Z6GT	455	12-62
6751A (101.636)	Vol.	1012444265.	18	Order from	Mfr.			1012042033.	1	2N511	B8				5	1A7GT, 1N5GT, 1H5GT, 1A5G/GT, 117Z6GT	455	12-63
								1012044264.	1/78	FP357	B8							
6761 (101.622-A, 101.622, 1, 1A)	Vol.	1012442976.	18	Order from	Mfr.			42644	1/78	Order from	Mfr.				6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 25Z6GT	455	12-61
6761A (101.637, 1)	Vol.	1012444265.	18	Order from	Mfr.			1012042033.	1	2N511	B8				6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 117Z6GT	455	12-60
								1012042031.	1/78	FP357	B8							
6921 (101.637)	Vol.	1012444265.	18	Order from	Mfr.			1012042033.	1	2N511	B8				6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 117Z6GT	455	12-60
								1012042031.	1/78	FP357	B8							
7000, 7001, 7002	Vol.	7864	109	MR48	M26			7078	4	RS216					10	[2]27, [2]35, [2]24A, [2]47, 80	175	
	Tone	7037	22	MR33				7051	4	RS213								
7000 (132.810-1)	Vol.	1322417126.	18	MR53	M26			1322014403.	79/15	3N533					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-19-20
7001	Vol.	1322417126.	18	MR53	M26			1322014403.	79/15	3N533					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-20,21
7001 (132.811-1)	Vol.	1322417126.	18	MR53	M26			1322014403.	79/15	3N533					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-20.21
7002 (132.810-1)	Vol.	1322417126.	18	MR53	M26			1322014403.	79/15	3N533					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-19-20
7003	Vol.	P4081	8	G	6	EX150		P1632	28	RS213	B3				10	[2]51, [2]27, [2]47, 80	‡	
	Tone	P4079	44	MR39	M26													
7003 (132.811-1)	Vol.	1322417126.	18	MR53	M26			1322014403.	79/15	3N533					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-20,21
7004 (106)	Vol.	7613	26	F	6			7078	34	RS216					8	[2]35, [2]24, 27, [2]47, 80	175	
	Tone	7037	22	MR33				7051	34	RS213								
7004, 7006, 7008 (132.812)	Vol.	1322416671.	18	MR53	M26			1322016719.	1	FP354	B69				5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-49.50
7005, 7007, 7009 (132.813) A-B	Vol.	1322416671	18	MR53	M26			1322016707.	1	FP354	B69				5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-51.52
7006	Vol.	7613	8	F	6			7051	34	RS213					7	[2]51, [2]24, 27, 47, 80	175	
	Tone		22	MR33														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
7009 (101)	Vol.	R6025	6	H7		1		4758P	4	HD684					6	‡24, 35, 47, 27, 80	175	2-14
7010 (100.363)	Vol.	W500482	18	MR53	M26			W500256	24	FP354	B69				6	14H7, 12J5GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-53-55
								W500744	24	FP357	B69							
											B12							
7010, 7012, 7016 (106)	Vol.	7864	109	MR48	M26			7078	34	RS216					10	‡27, ‡35, ‡24, ‡47, 80	175	
	Tone	7037	22	MR33				7051	34	RS213								
7011 (100.380)	Vol.	W500482	18	MR53	M26			W500256	24	FP354	B69				6	14H7, 12J5GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-56
								W500744	24	FP357	B69							
											B12							
7016 (100.364)	Vol.	W500482	18	MR53	M26			W500256	24	FP354	B69				6	14H7, 12J5GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-57
								W500744	24	FP357	B69							
											B12							
7017 (100.381-1)	Vol.	W500482	18	MR53	M26			W500256	24	FP354	B69				6	14H7, 12J5GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-60
								W500744	24	FP357	B69							
											B12							
7020	Vol.	7732	6	F7	6	2		7077	4	RS213					5	‡24, 35, 47, 80	175	
	Tone	7037	22	MR33														
7020 (132.814)	Vol.	N16671	18	MR53	M26			16719	1	FP354	B69				5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-23,24
7021 (132.815)	Vol.	N16671	18	MR53	M26			16707	1	FP354	B69				5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-25,26
7021, 7022, 7023, 7024, 7025, 7026	Vol.	7613	8	F	6			7051	34	RS213					7	‡51, ‡24, 27, 47, 80	175	
	Tone		22	MR33														
7022 (132.814)	Vol.	N16671	18	MR53	M26			16707	1	FP354	B69				5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-23,24
7023 (132.815)	Vol.	N16671	18	MR53	M26			16707	1	FP354	B69				5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-25,26
7024, 7026 (132.806)	Vol.	N16671	18	MR53	M26			N16719	1	FP354	B69				5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-61,62
7024, 7026 (132.806-1)	Vol.	N16671	18	MR53	M26			N16719	1	FP354	B69				5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-62
7025 (132.807)	Vol.	N16671	18	MR53	M26			N16707	1	FP354	B69				5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-63
7030 (106)	Vol.	7864	109	MR48	M26			7078	34	RS216					9	‡35, ‡24, ‡27, ‡47, 80	175	
	Tone	7037	22	MR33				7051	34	RS213								
7031, 7032, 7033, 7034, 7035, 7036, 7037	Vol.	7864	109	MR48	M26			7078	34	RS216					10	‡27, ‡35, ‡24A, ‡47, 80	175	
	Tone	7037	22	MR33				7051	34	RS213								
7031A (100.364-1)	Vol.	W500482	18	MR53	M26			W500256	77	FP354	B69				6	14H7, 12SK7GT, 12J5GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-57,58
								W500744	77	FP357	B69							
											B12							
7032 (100.381-1)	Vol.	W500482	18	MR53	M26			W500256	24	FP354	B69				6	14H7, 12J5GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-60
								W500744	24	FP357	B69							
											B12							
7034 (100.363-1)	Vol.	W500482	18	MR53	M26			W500256	24	FP354	B69				6	14H7, 12J5GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-53-55
								W500744	24	FP357	B69							
											B12							
7035 (100.380-1)	Vol.	W500482	18	MR53	M26			W500256	24	FP354	B69				6	7H7, 6SK7GT, 6SQ7GT, 6J5GT, 6K6GT, 6X5GT	455	13-65,66
								W500744	24	FP357	B69							
											B12							
7036 (110.421)	Vol.	A2457	18	MR48	M26			A2067	46	Order from	Mfr.				7	6J5GT, 7H7, 6SK7GT, ‡6SQ7GT, 6K6GT, 5Y3G	455	13-64,86
7037 (141.415)	Vol.	M1103	18			See Note A19		M550	1	TC74					8	7H7, ‡6J5GT, 6SK7GT, 6SQ7GT, ‡6K6GT, 5Y3G	455	13-67,68
7038 (101.653)	Vol.	R45627	18	MRT449				R45108 or R45658	1/15	FP331	B117				9	‡6SK7GT, 7H7, 6J5GT, ‡6SQ7GT, ‡6K6GT, 5Y3G	455	13-69,70
									1/15	FP331	B12							
7039 (100.359)	Vol.	W116558	18			See Note A19		W500807	1	FP234					5	55, 57, 58, 47, 80	175	
7042	Vol.		6	G7	6	2		9110-0	25	2S567								

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—	Continued																	
7043, 7044, 7045, 7046, 7047	Vol.	P4260	15	MR51				1-2-8	26	See Note	B1				10	[3]35, 57, [3]27, 56, [3]47, 80	175	5-51,52
	Tone	P4259	22	MR39	M26													
7046 (141.416)	Vol.	M1193	18			See Note	A19	M482	1	TC74					6	6J5GT, 7H7, 6SK7GT, 6SQ7GT, 6K6GT, 5Y3G	455	
								M550	1	TC74								
7048 (101.657)	Vol.	R45470	18	MRT449				R45392	1	FP228					8	6J5GT, 7J7, 6SK7GT, [6]SQ7GT, [2]6K6G/GT, 5Y3G	455	13-68,71
								R45664	1	FP228	B12							
7048	Vol.		6	MR18				P4443	23	2S567					5	[3]57, 58, 47, 80	175	5-53
7049	Vol.	P4273	8	E				‡	26	See Note	B1				6	[3]51, 24A, 57, 47, 80	175	5-55,56
	Tone	P4259	22	MR39	M26													
7049 (101.672)	Vol.	R47240	18	DTM296-SS1				R45829	1	[2]TC77					8	7E6, 7H7, 6SK7GT, [6]SQ7GT, [6]K6GT or 6K6G, 5Y3G	455	14-22
	Tone	R47235	22	MR53	M26		A105											
7050 (101.674)	Vol.	R45910	18	Order from	Mfr.			R45779	3	FP444	B69				10	[3]6J5GT, 7H7, 6SK7GT, [3]6SQ7GT [2]6V6G/GT, 5Y3G	455	14-27
	Tone	R45909	22	MR53	M26		A105											
7050	Vol.	R6762	6	MR21				4758P	23	HD684					6	39, [3]36, [3]89, 80	175	7-1,2
	Tone	R6570	57	MR48														
7051 (101.684)	Vol.	R47240	18	DTM296-SS1				R45829	1	[2]TC77					8	7H7, 7E6, 6SK7GT, [6]SQ7GT, [6]K6GT, 5Y3G	455	14-28,29
	Tone	R47235	22	MR53	M26		A105											
7054 (110.426)	Vol.	A2456	18	MR48	M26			A2066	46	FP357	B117				5	12SA7GT, 12SKGT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-44,72
								A2056	‡	TCD47	B12							
7055 (110.427)	Vol.	A2456	18	MR48	M26			A2066	46	FP357					5	12SQ7GT, 12SA7GT, 12SK7GT, 35L6GT, 35Z5GT	455	13-72,73
7055, 7055A, 7055L	Vol.	9331	6	H7	6	2		9327	8	2N516					5	[3]38, 39, 36, 25Z5	262	
								9372	8	TC40								
								9328	15	TN111								
7056 (141.417)	Vol.	M1239	18			See Note	A19	M550	1	TC74					7	6J5GT, 7H7, 6SK7GT, [6]SQ7GT, 6K6GT, 5Y3G	455	13-75,76
7056	Vol.	R6944	6	MR21				4758P	23	HD684					5	39, [3]36, 89, 80	175	6-13
7057, 7058	Vol.	9331	6	H7	6	2		9442	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5	265 or 465	
7057 (141.418)	Vol.	M1676	20			See Note	A19	M550	1	TC74					7	6J5GT, 7H7, [2]6SK7GT, 6SQ7GT, 6K6GT, 5Y3GT	455	13-77,78
	Phono.	M1533	‡	MR55														
7058 (110.428)	Vol.	A24060	18	MRT427				A2067	46	Order from	Mfr.				7	7H7, 6J5GT, 6SK7GT, [6]SQ7GT, 6K6GT, 6X5GT	455	13-79,80
	Tone	A25017	22	MR48	M26			A2069	24	TCS64	B12							
7059 (100.382)	Vol.	W500723	50	MR53	M26													13-74
7060, 7060A	Vol.	9331	6	H7	6	2		9327	8	2N516					5	[3]38, 39, 36, 25Z5	262	
								9372	8	TC40								
								9328	15	TN111								
7061 (100.383)	Vol.	W500723	50	MR53	M26			W116470	24	2N509					2	35L6GT, 35Z5GT		13-74
7061, 7062	Vol.	R8059	68	D12	6			8053	29	TCS52/TCS2	B51				5	6A7, 6B7, 77, 43, 25Z5	175	4-1,2
								5	15	TC22								
7063	Vol.	1026-Z	15	UM154	M26		A96	1028-2	1	2N518		10704	Order from	Mfr.	5	6A8, 6E7, 6B7, 41, 84	456	
	Tone	1026-3	22	UM133		See Note	A96	1067-4	15	TC22								
7063 (110.430)	Vol.	A24059	50	MR48	M26			A2065	24	2N511					2	12SA7GT, 35Z4GT or 35Z5GT		13-81
								A2056	24	2N513	B12							
7064	Vol.	R8304	6	MR45	M26	EX300		R8313	23	[2]TC42					4	78, 77, 43, 1V		4-3
7065	Vol.	R8679	7/18	Order from	Mfr.			R7236	23	RS216					10	[3]78, 75, 37, [4]5, 6A7, 83V	175	4-22,23
	Tone	R6571	57	MR48				D4758P	23	HD684								
								R1114	‡	TC70								
7065 (101.660)	Vol.	R54414	18	MR55	M26			R45421	1/15	2S569/TC26					6	6SA7GT, 6SK7GT, 6K6GT, [6]SQ7GT, 6X5GT	455	13-83,84
7066	Vol.		15	MR51				8-12	34	See Note	B3				10	[3]58, 57, [3]56, [3]46, 80	175	5-57
	Tone		21	MR39														
7066 (101.680)	Vol.	R45414	18	MR55	M26			16-16-25	1/15	2S569/TC26					6	6SA7GT, 6SK7GT, 6SQ7GT, 6Q7GT, 6K6G/GT, 6X5G/GT	455	14-31,32
7067 (101.662)	Vol.	R45827	124	DTM296-SS1				R45829	1	[2]TC77					8	7E6, 7H7, 6SK7GT, [6]SQ7GT, [6]K6G/GT, 5Y3G	455	13-82
	Tone	R45828	22	MR53	M26		A105											
7068	Vol.	9776	15	UM154	M26		A96	9532	1	3S584	B8	9536	292	C3	6	[2]78, 6A7, 75, 41, 84	265	
								9328	15	TC22								
								.02		Buffer	B14							
7068 (101.681)	Vol.	R45827	18	DTM296-SS1				R46021	1/15	Order from	Mfr.				9	7E6, 7H7, 6SK7GT, 6SQ7GT, 6Q7GT, [6]K6GT, 5Y3G, 6U5	455	14-33-35
	Tone	R46489	‡	MR53	M26													
7069 (101.658)	Vol.	R45910	18	Order from	Mfr.			R45779	3	FP444	B69				10	[3]6J5GT, 7H7, 6SK7GT, [3]6SQ7GT, [2]6V6G/GT, 5Y3G	455	13-85,86
	Tone	R45909	22	MR53	M26		A105											

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
7070 (101.682) (101.682-1)	Vol.	R45910	124	Order from	Mfr.			30-20-20	1/13	FP444	B69				10	6J5GT, 7H7, 6SK7GT, [2]6SQ7GT, 6Q7GT, [2]6V6GT, 5Y3G, 6U5	455	14-37-39
	Tone	R46490	22	MR48	M26													
7070, 7071, 7072, 7073, 7074	Vol.	R8433	56	MR48	M26			R8431	4	[2]TC42					5	6A7, 78, 6B7, 43, 1V	480	4-4.5
7071	Vol.	W119634	124	MRT443				W501060	1/19	TCD75/TC26					7	7H7, [2]6J5GT, 6SK7GT, 6SQ7GT, 6K6GT, 5Y3G	455	13-87,88
7072 (100.385)	Vol.	W501237	139	‡		See Note A19		W501060	1/15	TCD75/TC26					8	7H7, 6J5GT, 6SK7, 6Q7GT, 6U5, 6SQ7GT, 6K6GT, 5Y3G	455	14-41,42
7075, 7076, 7077, 7078	Vol.	R8433	56	MR48	M26			R8952	29	3S582					5	6A7, 78, 6B7, 43, 25Z5	480	4-33,34
7075 (109.383)	Vol.	D9179	18	Order from	Mfr.			D9175	24/78	FP309					5	1A7GT, [2]1N5GT, 1A5GT, 35Z5GT	455	14-43,44
7076 (101.662)	Vol.	R45827	18	DTM296-SS1				D9218	24	TC44					8	7E6, 7H7, 6SK7GT, [2]6SQ7GT, [2]6K6GT, 5Y3G	455	
	Tone	R45828	22	MR53	M26		A105	R45829	1	[2]TC77								
7077 (109.409)	Vol.	D9394	18	Order from	Mfr.			D9218	24	TC44					5	1A7GT, [2]1N5GT, 1A5GT, 35Z5GT	455	14-44,45
7079 (101.620-3)	Vol.		18	MR53	M27			D9395	24/78	FP309	B117				5	1A7GT, 1N5GT, 1H5GT, 1A5GT/G, 50Y6GT	155	11-36
								80-30-40	1/78	Order from	Mfr.							
7080, 7081	Vol.	P4365	20	MRT427				6-8	34	See Note	B3				14	[4]58, [3]56, [3]46, 82	175	
	Tone	P4259	22	MR39	M26													
7081 (101.636-1)	Vol.		18	MR53	M27			80-80-40	1/78	Order from	Mfr.				5	1A7GT, 1N5GT, 1H5GT, 1A5G/GT, 117Z6GT	455	11-36
7082	Vol.	P4260	15	MR51				P4514	23	3S584	B8				10	[2]58, 57, [3]56, [3]46, 80	175	
	Tone	P4259	21	MR39	M26													
7083, 7083A, B, C, D	Vol.		15	MR44				50-10-8	11	See Note	B3				12	[2]6D6, 85, [2]47, [4]43, [2]25Z5	175	
	Tone		44	MR33				8	13	TC42								
	Sen.		7	MR28														
7083, 7087, 7089	Vol.	R42622	18	MR53	M27			R43897	1/78	Order from	Mfr.				6	1A7GT, [2]1P5GT, 1H5GT, 3Q5GT, 50Y6GT	455	13-89,90
7084	Vol.	9042	6	MR33				651	‡	UR182					4	6D7, 6E7, 43, 25Z5		
7085	Vol.		6	MR33				21-8-4	11	UR182					5	[2]6E7, 6D7, 43, 25Z5		
7085, 7090 (101.688) (101.688A)	Vol.	R45694	18	Order from	Mfr.			R42031	1/78	FP357	B69				6	1A7GT, [2]1P5GT, 1H5GT, 3Q5GT, 117Z6GT	455	13-91,92
								R42033	1	FP116								
7088	Vol.		15	UM147	M27		A96	9337	4	2S567			Order from Mfr.		6	G57AS, G58AS, G75, G89, G6Z5	456	
7090	Vol.	R8359	29	U				R8357	13/19	TC42/TC26					5	[3]951, 30, 950, Ballast No. 52	175	4-17
7090A	Vol.		29	U				R8357	13/19	TC42/TC26					5	[3]951, 30, 950, Ballast No. 52	480	5-5
7091 (101.665)	Vol.	R45235	18	Order from	Mfr.			10-15-20	24/15	FP328		R45160	870	C3	5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 0Z4G	455	14-46,47
								.004		Buffer	B14							
7093 (101.666)	Vol.	R45139	18/22	Order from	Mfr.			R45167	24/15	FP328		R45160	870	C3	6	[2]6SK7GT, 6SA7GT, 6SQ7GT, 6V6GT, 0Z4G	260	14-40.47
								.004		Buffer	B14							
7094, 6306-3G (101.667 & 101.667-A)	Vol.	R42244	18	Order from	Mfr.			10-15-20	24/15	FP328		R45160	870	C3	6	6K7GT, 6A8GT, 6SK7GT, 6SQ7GT, 6V6GT, 0Z4G	455	14-49,50
								.004		Buffer	B14							
7091, 7092, 7093, 7094	Vol.	R8433	56	MR48	M26			R8952	29	3S582					5	6B7, 43, 78, 6A7, 25Z5	480	4-33,34
7099 (164.158)	Vol.	F505	18	MRT438				F2710	1	RS224					15	[3]7H7, [2]6K8GT, [2]6J5GT, 6SJ7GT, 6H6GT, 6SK7GT, 6SQ7GT, 6U5, [2]6Y6G, 5X4G	AM 462 kc. FM 1.3 mc.	14-52,53
	Bass	F511	22	MR44	M26			F277	67	TC71								
	Treble		‡	MRT438				F271	67	TC26								
7100	Vol.	R7240	6	MR21				4758P	25	HD684					7	57, [2]58, 24A, 47, 56, 80	175	3-2
	Tone	R6570	57	MR48														
7100 (101.661)	Vol.	R45055	18	MR53	M27			R19891	13	TC42					4	1A7GT, 1N5GT, 1H5GT, 1A5GT/G	455	13-93,94
7101	Vol.		15	MR44				50-10-8	11	See Note	B3				12	[2]6D6, 85, [2]47, [4]43, [2]25Z5	175	
	Tone		44	MR33				8	13	TC42								
	Sen.		7	MR28														
7102	Vol.		6	MR33				8-4	1	2N518					5	[2]58, 57, 47, 80	456	
	Tone		22	MR33				10	17	TC22								
7103	Vol.	R8679	7/18	DRP317				R7236	23	RS216					10	[2]78, 6A7, 75, [4]45, 37, 83V	175	4-22
	Tone	R6571	57	MR48				D4758P	23	HD684								
								R1114	‡	TC70								

‡ Data not substantiated. *IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
7104 (101.644)	Vol.		18	MR48	M27			R19891	13	TC44					5	1A7GT, [2]1P5GT, 1H5GT, 1A5GT/G	455	13-101
7106	Vol.	9611	6	H7											5	[3]32, 34, 30, 33, 5E1		
7106 (101.663)	Vol.	R44898	18	MR48				R19891	13	TC41					5	1A7GT, [2]1P5GT, 1H5GT, 1A5GT/G	455	14-55.56
7108	Vol.	9611	6	MR21				9925	12	TC71					5	[2]78, 77, 38, 37	465	5-63
								9328	15	TN111								
7108 (101.648)	Vol.	R44898	18	MR48				R19891	13	TC44					5	1A7GT, [2]1P5GT, 1H5GT, 1A5GT/G	455	14-49.51
7109	Vol.		15	MR44				50-10-8	11	See Note	B3				12	[3]6D6, 85, [2]47, [4]43, [2]25Z5	175	
	Tone		44	MR33				8	13	TC42								
	Sen.		7	MR28														
7110	Vol.	452	7	MR45	M26			12-8-10-10	24/15	TN125/TC22					4	78, 77, 38, 12Z3		5-58
7110 (101.649)	Vol.	R45083	18	MR53				10, 10	13	TC44					5	[2]1P5GT, 1A7GT, 1H5GT, 1A5GT/G	455	14-48
7111	Vol.	P4979	18	MR48				P4961	28	38584					8	[3]58, 55, [3]56, 53, 80	175	
	Tone	P4978	22	MR21	M26													
7111X, 7112, 7114	Vol.	105	6	SRP263	6			106	11	UR182	B31				5	6A7, 75, 6D6, 43, 25Z5	456	5-63
7112 (101.664)	Vol.	R45267	18	MR53				R45368	1/78	Order from	Mfr.				6	[2]1P5GT, 1A7GT, 1H5GT, 1A5GT/G, 117Z6GT	455	14-54
								R19891	13	TC44								
7114 (101.661)	Vol.	R45055	18	MR53	M27			R19891	13	TC44					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	455	13-93.94
7115	Vol.	R8679	7/18	DRP317				R7236	23	RS216					10	[2]78, 6A7, 75, [4]45, 37, 83V	175	4-22
	Tone	R6571	57	MR48				D4758P	23	HD684								
								R1114	‡	TC70								
7116	Vol.	582	18	MR48				569	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	
7117	Vol.	1145	17	UM154	M26	See Note A96		1138	1	2N518			271	C3	4	6A7, 6D6, 6B7, 41	370	5-59,60
								9328	15	TN111								
7118	Vol.	R6570	62	MR48				R8488	23	HD684					8	[2]78, [3]37, 42, 6A7, 83V	175	5-61,62
	Tone	R6570	147	MR48														
7119, 7120	Vol.	9666	17	MR44	M26			9659	1	2N518					6	2A7, [3]58, 2A6, 2A5, 80	465	
	Tone	9174	22	MR33				1110	13	TC70								
								8876	15	TC22								
7121, 7122	Vol.	105	6	SRP263	6	EX300		156	1	2N518					4	58, 57, 2A5, 80		5-64
7123	Vol.	256	18	MR48	M26			106	11	UR182					5	6A7, 78, 75, 43, 25Z5	456	5-30
7124	Vol.	256	18	MR48	M26			156	1	2N518					7	[3]58, 57, 2A6, 56, 2A5, 80	456	5-65
	Tone	306	22	MR33	M26			307	15	TC22								
7125	Vol.	9296	15	MR48	M26			9739	31	RS215					10	[3]58, 2B7, 57, [3]56, [2]2A3, 5Z3	465	
	Tone	9295	22	MR33				9738	31/15	4S718								
	Sen.	9834	7	G	8													
7126	Vol.	60	7	MR45				12-8-10-10	24/15	TN125/TC22					4	77, 78, 38, 12Z3		5-66
7127	Vol.	256	18	MR48				156	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	7-63
	Tone	306	22	MR33	M26			307	15	TC22								
7127 (revised)	Vol.	462	18	MR48				461	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	10-5
	Tone	464	‡	‡		See Note A5		307	15	TC22								
7128	Vol.	R9710	56	SRP251	6			R10264	23	TCS71			294	C20	6	[2]78, 6A7, 85, 41, 84	175	5-67,68
								.01-.01		Ruffer	B14		296	C20				
7129	Vol.	R6571	62	MR48				4758P	23	HD684					8	6A7, [2]78, [3]37, 42, 83	480	
7130	Vol.	60	7	MR45	M26			70	24/15	TN125					4	78, 77, 38, 12Z3		5-66
7132	Vol.	256	18	MR48				156	1	2N518					7	[3]58, 57, 2A6, 56, 2A5, 80	456	5-65
	Tone	306	22	MR33	M26			307	15	TC22								
7133	Vol.	462	18	MR48				461	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	10-5
	Tone	464	‡	‡		See Note A5		307	15	TC22								
7134	Vol.	105	6	SRP263	6	EX300		156	1	2N518					4	58, 57, 2A5, 80		
								307	15	TC22								
7134 (110.448)	Vol.	A2463	18	MR48	M26			A2065	24	2N511					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	14-57
7135	Vol.	E60	58	MR45				205	8	TN125/TC22					4	78, 77, 43, 25Z5		5-17
7136, 7137	Vol.	452	18	MR48	M26			E156	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	7-64
7138	Vol.	R6571	62	MR48				4758P	23	HD684					8	6A7, [2]78, [3]37, 42, 83	480	
7139	Vol.	470	18	MR48	M26			461	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	10-5
	Tone	464	‡	‡		See Note A5		307	15	TC22								
7140	Vol.	E452	18	MR48	M26			156	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	7-64
								307	15	TC22								
7141, 7142	Vol.	24A	18	MR48				28A	8	TN125					6	43, 75, [3]6D6, 6A7, 25Z5	456	6-50
7143	Vol.	256	18	MR48	M26			156	1	2N518					9	[3]58, 57, [3]56, [2]A5, 80	456	8-79
	Tone	306	149	MR33														
7143A	Vol.	E452	18	MR48	M26			E156	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	7-64
								307	15	TC22								
7144	Vol.	452	18	MR48				656	1	2N518					6	6A7, 6D6, 75, [2]42, 80	456	7-65
7145	Vol.	R10201	18	MR48	M26			R9204	23	RS213					5	6A7, 78, 75, 41, 84	480	
								R9397	23	RS213								
7146	Vol.	R10604	18	MR48	M26			R10601	29	[2]TCS52					5	6A7, 78, 75, 43, 25Z5	480	
7147	Vol.	R10712	29	U				R10673	13/19	2N516/TC29					5	[3]951, 32, 30, 33, Ballast No. 30	175	5-42
	Tone	R10648	34	MR48														
7148	Vol.	R10648	18	MR48				4758P	23	HD684					6	[2]78, 75, 42, 41, 80	480	
	Tone	R10711	107	MR48														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
7149	Vol.	R9710	18	SRP251	6			R9743	1	2N518		R9723	Order from Mfr.		6	2-78, 6B7, 41, 6A7, 84	175	
	Tone	R9711	22	MR48				R9144	15	TC22		R10073	296	C14				
								.01-.01		Buffer	B14							
7150	Vol.	452	18	MR48	M26			656	1	3S584	B8				5	6A7, 6D6, 75, 42, 80	456	7-66
								10	15	TC22								
7151	Vol.	1572	17	MR53				1624A	1	2N518					6	6A7,2-78, 75, 42, 80	370	
	Tone	1573	34	MR44	M26													
7152	Vol.	E60	7	MR45				205	8/15	TN125/TC22					4	78, 77, 43, 25Z5		
7153	Vol.	87A	6	MR24	M26			156	1	2N518					4	58, 57, 2A5, 80		7-9
								307	15	TC22								
7154	Vol.	452	18	MR48	M26			504	1	2N518					6	6A7, 6D6, 75, 2-42, 80	456	7-66
								10	15	TC22								
7155	Vol.	452	18	MR48	M26			650	1	2N518					6	6A7, 6D6, 75, 2-42, 80	456	7-67
	Tone	47A	22	MR33				10	15	TC22								
7156	Vol.	2410	18	SRP251	6			1809	4	2S567		9600	294	C3	6	2-6D6, 6A7, 75, 41, 84	175	
								.015		Buffer	B14							
7157	Vol.	2B	18	UM154		See Note A96		8-4	1	2N518		22B	294	C3	5	77, 78, 75, 41, 84	456	7-4
								.02		Buffer	B14							
7158	Vol.	452	18	MR48	M26			656	1	3S584	B8				6	6A7, 6D6, 75, 2-42, 80	456	7-68
								10	15	TC22								
7158 (101.648-1)	Vol.	R44898	18	MR48				R19891	13	TC44					5	1A7GT, 2-1P5GT, 1H5GT, 1A5GT/G	455	14-49,51
7159	Vol.	1572	17	MR53				1624A	1	2N518					6	6A7,2-78, 75, 42, 80	370	
	Tone	1573	34	MR44	M26													
7160	Vol.	256	56	MR48	M26			106	8	UR182					5	6A7, 78, 75, 43, 25Z5	456	5-30
7161, 7162	Vol.	452	18	MR48	M26			656	1	3S584	B8				6	6A7, 6D6, 75, 2-42, 80	456	
	Tone	47A	22	MR48				56A	15	TC22								
7163	Vol.	1145	17	UM154	M26		A96	1188	1	2N518		1893	294	C3	5	6A7, 6D6, 6B7, 41, 84	370	
								8876	15	TC22								
								.02		Buffer	B14							
7164	Vol.	R10740	106	MR53				4758P	28	HD684					14	2-78, 75, 2-45, 2-37, 41, 5Z3	445	6-25
	Tone	R10740	106	MR53				R9237	13	RS216								
7165, 7165X	Vol.	RA408	7	MR45	M26		A14	CA23	24/15	4S715					4	6D6, 6C6, 38, 12Z3		7-65
7166, 7166X	Vol.	RB408	98	MR45	M26			CB23	6/15	4S715					4	6k7 or 6D6, 6C6, 43, 25Z5		7-63
7166A	Vol.	102A-B	6	MR45	M26			102	1/15	4S715					5	2-6D6, 6J7, 43, 25Z5		
7167	Vol.	78B	18	UM154	M26		A96	79B	1/15	3S579			294	C3	5	6A7, 6D6, 75, 41, 84	456	7-70
								.03		Buffer	B14							
7167 (101.662-1A)	Vol.	R47240	124	DTM296-SS1				R45829	1	‡TC77					8	7E6, 7H7, 6SK7GT, 2-6SQ7GT, 2-6K6G/GT, 5Y3G	455	14-60,61
	Tone	R47235	22	MR53	M26		A105								5	2-6D6, 6J7, 43, 25Z5		7-69
7168	Vol.	6207A	6	MR21	M26	EX300		8812	4	TCS44								
								3003	15	TC22								
7168 (101.681)	Vol.	R45827	18	DTM296-SS1				R46021	1/15	Order from	Mfr.				9	7E6, 7H7, 6SK7GT, 6SQ7GT, 6Q7GT, 2-6K6GT, 5Y3G, 6U5	455	14-33-35
	Tone	R46489	‡	MR53	M26													
7168 (101.681-1A)	Vol.	R45827	18	DTM296-SS1				R46021	1/15	Order from	Mfr.				9	7H7, 7E6, 6SK7GT, 6SQ7GT, 6Q7GT, 2-6K6GT/G, 5Y3G, 6U5	455	14-62,63
	Tone	R46489	22	MR53	M26													
7169	Vol.	P385	75	MR48	M26			P160	1	2N518					6	6A7, 6D6, 6H6, 6F5, 42, 80	456	
7170, 7170A	Vol.	A15368	18	MR44	M26			A15313	25	RS216					7	6K7, 6D6, 6L7, 75, 76, 42, 80	262.5	10-93
	Tone	A15357	34	MR39				A15237	25	RS215								
7171	Vol.	6212	75	MR48	M26			8817	1	2N518					6	6A7, 6D6, 6H6, 6F5G, 42, 80	465	10-94,96
								3003	15	TC22								
7172	Vol.	110B	18	MR48				110E	23	3S584	B8				5	6A7, 6D6, 75, 42, 80	456	8-80
	Tone	110C	34	MR33	M26													
7172X	Vol.	108B	18	MR48	M26			108E	4	TC44					5	6A7, 6D6, 75, 43, 25Z5	456	8-80
	Tone	108C	34	MR33														
7173	Vol.	106B	7	MR45	M26			106E	24/15	UR182					4	6D6, 6C6, 38, 12Z3		9-81
7175	Vol.	R10458	106	MR48	M26			R7236	23	RS216					11	2-78,2-37, 85,2-47, 41, 80	480	6-32
	Tone	R10457A	106	MR48				R8488	23	HD684								
7175A	Vol.	R10458	106	MR48	M26			R7236	23	RS216					11	2-78,2-37, 85,2-47, 41, 80	445	6-35
	Tone	R10457A	106	MR48				R8488	23	HD684								
7176	Vol.	RE408	6	MR44	M26			16-8-5	40/15	UR182					5	6K7,2-76, 43, 25Z5		10-98
7177	Vol.	1042420	6	MR18				206	4/15	TCS44/TC22					5	2-6D6, 6J7, 43, 25Z5		10-99
7178	Vol.	104	6	‡	6	See Note A5		106	4	UR182					4	6D6, 6C6, 43, 25Z5, 50B2		
7179, 7180	Vol.		15	MR48				8	1	TC71					7	6A7, 6D6, 6H6, 6C5, 41, 6E5, 80	480	
7181, 7182	Vol.	T6222	17	MR53	M26			5	5	TC22								
	Tone	T6223	34	MR48				8819	1	RS216					7	2-6K7, 6L7, 6Q7, 6F6, 6C5, 5Y3	465	9-82,84
								8822	1	ST595								
								8821	15	TN111								
								8820	13	RS213								
7183	Vol.	106B	7	MR45	M26			106E	24/15	UR182					4	6D6, 6C6, 38, 12Z3		9-81
7184	Vol.	110B	18	MR48				110E	23	3S584	B8				5	6A7, 6D6, 75, 42, 80	456	
	Tone	110C	34	MR33	M26													
7185, 7185A	Vol.		6	SRP263				8-8-5	24/15	3N527					4	6D6, 6C6, 38, 76		
7186	Vol.	1042414	6	‡		See Note A5		1042013	24/15	3N527					4	6D6, 6C6, 38, 76		

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
7188 (109.117)	Vol.	D10038	18	MK101	M26			D9363	1	2N514					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	14-65,66
7189 (109.378)	Vol.	D8958	18			See Note A3		D8952	78/24	FP309					5	1R5, 1T4, 1S5, 3S4, 45Z3	455	14-67,68
7210 (101.472, X)	Vol.	1012116445	56	Order from Mfr.				1012015803	12/13	2N516					8	[1]D5GP, 1C7G, 1H6G, 1H4G, [1]1J6G	465	
7211 (110.7211)	Vol.	1102417	7	MR28	M26			1102016	24/15	3N527					4	6D6, 6C6, 38, 76		10-100
7212, 7212A (110.7212)	Vol.	1102417	7	MR28	M26			1102097	1	2N509					4	6D6, 6C6, 25L6G, 25Z5		
7213 (101.7213)	Vol.	1012417	7	MR28	M26			10120101	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, M55HG		10-101
7214 (110.7214)	Vol.	1102441	18	MR48	M26			1102042	1	2S569					5	6A7, 6D6, 75, 25L6G, 1V	456	10-101
7215	Vol.	1102414	15	MR48	M26			1102043	1	2N514					5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	456	10-110
	Tone	1102571	21	MR48														
7216 (100.184)	Vol.		15	‡		See Note A19		1002089937	51	RS223					10	[3]6K7, 6L7, 6C5, 6H6, 6F5, 6L6, 6J7, 5U4G	465	
								10020111469	51	RS216								
								10020112113	15	TC32								
								10020110377	15	TC22								
								10020111298	13	TC70								
7217 (100.185)	Vol.	10024111358	20	TM240-SS16	M26			1002089937	3	RS223					11	[3]6K7, 6L7, [3]6C5, 6H6, [3]6V6, 6J7, 5U4	465	
								1002088680	3	RS213								
								10020112467	13	TC70								
								10020110377	15	TC22								
								10020112113	15	TC32								
7218 (100.186)	Vol.	10024111358	20	TM240-SS16	M26			1002089937	3	RS223					14	[3]6K7, 6L7, [3]6C5, [3]6H6, [3]6V6, 6J7, [5]W4	465	
								10020111469	3	RS216								
								10020112476	‡	TC44								
								10020111689	15	TC26								
7219 (110.7219)	Vol.	1102421	7	MR28	M26			1102011	1	2N514					4	6D6, 6C6, 25L6G, 25Z5, M55HG		11-96
7220 (110.7220)	Vol.	1102441	18	MR48	M26			1102043	1	2N514					5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	456	10-103, 104
7221 (126.202)	Vol.	1262131517	124	MRT449				1262014531	25	RS223					10	[3]6K7G, 6A8G, 6H6G, [3]6F5G, [3]6F6G, 6U5, 5U4G	465	10-105, 106
								126205212	25	RS216								
7225 (110.255)	Vol.	1102445	127	MR48	M26			1102010	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	456	10-111
7226 (110.880)	Vol.	1102411	76	MR48				1102014	12	FP115					6	6A7, 6D6, 75, 25L6G, [3]25Z5, M22HG	456	10-112
	Tone	1102510	76	MR48				1102012	1	2N514								
7227 (110.258)	Vol.	1102444	18	MR48	M26			1102012	1	2N514					5	6A8G, 6U7G, 6Q7G, 25L6G, 25Z6G, M49HG	455	11-97
7228 (126.206)	Vol.	1262432402	124	MRT449		See Note A59		32400	25	FP144					10	[3]6K7G, 6A8G, 6J7G, 6Q7G, 6F5G, [3]6F6G, 6U5, 5U4G	455	11-99
								32405	25	TC74								
7230 (126.208)	Vol. & Tone	1262431366	45/22	SMD503				1262032485	1/15/14	FP424					6	6K8, 6K7G, 6H6G, 6F5G, 6F6G, 5Y3G	455	11-104, 105
7231 (105.6H)	Vol.	P1555	18	MR48	M26			P1561	23	TCS45					5	6A7, 6D6, 75, 25B6G, 25Z5, L49BJ	456	11-107
7232 (105.6L)	Vol.	P1555	18	MR48	M26			P1561	4	TCS45					5	6A7, 6D6, 75, 25B6, 25Z5, L49BJ	456	11-108
7233 (105.6PU)	Vol.	P1677	18	MR48	M27			P958	1	2S567		P402	245C	C3	6	6D8G, 6S7G, 6T7G, [3]30, 19	456	11-109
	Tone	P1764	44	MR39				.01-.01		Buffer	B14							
7234 (105.7MU)	Vol.	P1749	139	MRT427	M26			P1755	23	3S584	B8				7	6A7, 6D6, 76, 75, 42, 6U5, 80	456	11-110
	Tone	P1750	139	UM160-SS1				P304	19	TC22								
7235 (105.8KU)	Vol.	P1821	45	MRT436	M26			P1825	46	3S584					8	6A7, 6D6, [3]76, 75, [3]42, 80	456	11-111
	Tone	P1822	22	UM160-SS1				P1783	15	TC22								
7236 (105.8TU)	Vol.	P1821	20	MRT436	M26			P1853	1	2N514					7	6A7, 6D6, 75, 76, [3]43, 25Z5, 17AJ	456	
	Tone	P1822	22	UM160-SS1				P1783	15	TC22								
7241, 7241A (109.246)	Vol.	109245100	45	MR48				109202733	1	RS213					7	6D8G, 6D6, 76, 6K5G, 6V6G, 80	455	11-115, 116
	Tone	109255511	22	MR39	M26			109205101	1	RS216								
7242, 7242A (109.190)	Vol.	109242726	76	MR48	M26			109203375	23	RS216					8	6A8G, 6D6, 75, 76, [3]42, 80, 6U5	455	11-118
	Tone	109242737	76	MR55				109203351	23	RS213								
7243 (110.255)	Vol.	1102444	18	MR48	M26			1102012	1	2N514					5	6A8G, 6U7G, 6Q7G, 25L6G, 25Z6G, M49HG	455	11-97
7244 (110.907)	Vol.	1102417	7	MR28	M26			1102012	1	2N514					5	6D6, 6C6, 25L6G, 25Z5, M49HG, 76		11-119
	Phono.	1102416	50	MR44	M26			1102018	15	TC29								
								1102019	15	TC22								
7245 (107.375)	Vol.	1072447281	18	MR53				10172030266	1	FP231					7	6K8G, 6A7, 6D6, 75, 6U5, 6V6G, 80	465	11-133, 134
	Tone	1072511278	21	MR48	M26			107205321	15	TC22								
7246 (110.988, 1A, 2A)	Vol.	1102444	75	MR48	M26			1102034	24	2N521					6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT	‡	11-120
								1102032	24	TC48								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
7250 (110.558-1)	Vol.	1102444	18	MR48	M26			1102012	1	2N514					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G, M49HG	455	11-97
7251 (110.988-1A, 2A)	Vol.		75	MR48	M26			1102034 1102032	24 24	2N521 TC48	 B12				6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT	‡	11-20
7300 (Export) (126.216)	Vol. & Tone	1262434110	18/‡	Order from Mfr.				1262032240	1/15	FP332					5	6SA7, 6K7, 6SQ7, 6F6G, 5Y3G	455	11-121
7305 (Ch. 126.217)	Vol.	1262433814	18	Order from Mfr.				1262033014	1/13/15	FP424					7	6SA7, ²6SK7, 6SQ7,		11-125-
	Tone	1262534186	22	MR53												6F6G, 6U5, 5Y3G	455	128
7306 (Ch. 126.218)	Vol.	1262433814	18	Order from Mfr.				1262033014	1/13/15	FP424					7	6SA7, ²6SK7, 6SQ7,		
	Tone	1262534186	22	MR53												6F6G, 6U5, 5Y3G	455	11-124
7307 (Ch. 126.220)	Vol.	1262433814	18	Order from Mfr.				1262033014	1/13/15	FP424					7	6SA7, ²6SK7, 6SQ7,		11-125-
	Tone	1262534186	22	MR53												6F6G, 6U5, 5Y3G	455	128
7310 (Ch. 126.219)	Vol.	1262433814	18	Order from Mfr.				1262034185	1/19	FP339					9	²6SK7, 6SA7, 6SQ7,		
	Tone	1262534186	22	MR53												6SF5, ²6F6G, 6U5, 5Y3G	455	11-129- 131
7312 (Ch. 126.221)	Vol.	1262433814	18	Order from Mfr.				1262034185	1/19	FP339					9	²6SK7, 6SA7, 6SQ7,		
	Tone	1262534186	22	MR53												6SF5, ²6F6G, 6U5, 5Y3G	455	11-129- 131
7315 (Export) (126.224)	Vol.	1262436564	18	MR53	M26			1262035761	77	ST598/TC72					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	12-65,66
7318 (109.369)	Vol.		18	MR48	M26			20 40-100	1 1/78	TC47 TC48/TC250(					6	1A7GT, ²1N5GT, 1H5GT, 3Q5GT, 117M7GT	455	12-67,68
7320 (Export) (126.225)	Vol.	1262436702	18	MR53	M26			1262032240	1/15	FP332					5	6SA7, 6K7, 6SQ7,		13-39,
	Tone	1262436703	‡	MR48												6F6G, 5Y3G	455	95,96
7321 (Export) (126.229)	Vol.	1262436706	18	MR53	M27			1262033790	12/13	FP211					4	1A7G, 1N5G, 1H5G,		
	Tone	1262436707	‡	MR55												1C5G	455	12-69,70
7322 (Export) (126.231)	Vol.	1262436705	18	MRT438	M26			1262035747	77/15	Order from	Mfr.				5	12SA7,12SK7,12SQ7,		
	Tone	1262436703	‡	MR48												50L6GT, 35Z5GT	455	13-97,98
7325 (126.226)	Vol.	1262437051	124	Order from Mfr.				1262033014	1/13/15	FP424					6	²6SK7, 6SA7, 6SQ7,		
	Tone	1262537052	22	MR53												6F6G, 5Y3G	455	12-72-74
7327 (109.370)	Vol.	109248524	18	MR48	M26			109208525	24	2N514					6	12A8G, ²12SK7GT, 12SQ7GT, 25L6GT, 25Z6GT	455	13-99, 100
7330 (Export) (126.227)	Vol.	1262437183	124	MRT440	M26			1262033014	1/13/15	FP424					8	²6SK7, 6SA7, 6SQ7,		
	Tone	1262537184	22	MR53												6AD7G, 6F6G, 6U5, 5Y3G	455	13-102, 104
7356 (138.250)	Vol.	N103	50	MR48				35	46	RS224					7	6J5G, 6H6G,		
	Treble	N118	‡	MR50				16	46	TC75						6SA7GT, 6N7G,		
	Bass	N103	‡	MR48				8-8	46/13	TCD71						²6L6G, 5V4G		14-64
	Exp.	N103	‡	MR48				20	15	TC26								
7807 (113.414)	Vol.	113244149	127	MR55	M26			1132041453	1/15	FP332					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G	465	11-132
7814 (113.504)	Vol.	1135049	18	MR53				11350453	76	FP304					5	1A7G, 1N5G, 1H5G, 1A5G, 35Z4GT	465	12-75
7900 (126.233)	Vol.	1262438406	18	MR53	M26			1262039195	1	TCD74					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	13-105- 107
7905 Export (126.234)	Vol.	1262438412	18	MRT427	M26			1262033014	1/13/15	FP424					6	6SA7, 6SK7, 6SQ7,		
	Tone	1262538409	22	MR48												6AD7G, 6F6G, 5Y3G	455	14-69-71
7906 Export (126.235)	Vol.	1262438410	18	MRT430	M26			1262037250 1262037867 .008	24 24 	TC55 TC77 Buffer	 B14	1265135543	249	C3	5	6SA7, 6SS7, 6T7G, 6W7G, 6Z7G	455	14-72-74
7910 Export (126.237)	Vol.	1262437051	18	Order from Mfr.				1262033014	1/15	FP424					7	²6SK7, 6SA7, 6U5,		
	Tone	1262537052	22	Order from Mfr.												6SQ7, 6F6G, 5Y3G	455	14-75-77
7915 Export (126.238)	Vol.	1262438934	18	MRT420	M26			1262033014	1/13/15	FP424					9	6SK7, ²6SA7, 6SF7,		
	Tone	1262438405	22	MR53												6U5, 6SC7, ²6F6G, 5Y3G	455	14-78-80
7984 (138.250)	Vol.	N103	50	MR48				35	46	RS224					7	6J5G, 6H6G,		
	Treble	N118	‡	MR50				16	46	TC75						6SA7GT, 6N7G,		
	Bass	N103	‡	MR48				8-8	46/13	TCD71						²6L6G, ²5V4G		14-64
	Exp.	N103	‡	MR48				20	15	TC26								
8900 (138.130)	Vol.	13824201	50	MR48														
	Tone	13824203	21	MR48	M26													
8903 (138.210)	Mike	13824500M6	15	MR48				13820113	46/13	2S567					7	6Q7G, 6SC7G, 6N7G,		
	Bass	13824500M6	57	MR48				13820102	15	2N509						²6L6G, ²6W5G		13-109
	Phono.	13824500M6	50	MR48														
	Treble	13824250M1	57	MR44														
	Master	13824500M6	15	MR48														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—	Continued																	
8904 (138.230)	Mike	13824500M6	15	MR48				13820121	46	HD684					8	[36]Q7GT, [26]SC7, 6J5GT, [26]L6G, 5V4G		13-40
	Tone	138241000M1	‡	UM159-SS1				13820108	46/13	3S584								
	Phono.	13824500M6	50	MR48				13820102	15	2N509								
								1382025	15	TC26								
8906, 8907, 8908, 8909, 8910, 8911 8912, 8913, 8914 (Ch. 138.100)	Mike	13824201	15	MR48				13820107	46	TC71					5	6J7G, 6Y7G, [26]V6G, 5V4G		14-97
	Phono.	13824201	50	MR48				13820115	46	2N518								
	Tone	13825204	21	MR48				13820106	15	TC26								
8915, 8916, 8917, 8918, 8919, 8920 (138.120)	Mike		15	MR48				13820113	46	RM262			Order from Mfr.		6	6J7G, [26]N7G, 6W5G, [26]L6G		14-81
	Phono.		50	MR48														
	Tone		57	MR33														
8922, 8923, 8924, 8925 (138.110)	Vol.	13824202	15	MR48				13820107	46	TC71					7	[26]J7G, [26]N7G, [26]L6G, 5V4G		
	Phono.	13824201	50	MR48				13820108	46	3S584								
	Tone	13824201	‡	MR48				13820102	15	TN111								
								13620106	15	TC26								
8928, 8930, 8950 (138.190, 1, 2, 3)	Mike	13824500M6	15	MR48				13820113	3/13	2S567		490	Order from Mfr.		10	[26]J7, 6N7, [26]C5, [26]L6, [26]W5		13-111, 112
	Tone	13824250M1	21	MR44				13820102	15	2N509								
	Phono.	1382450M1	50	MR33														
8935, 8936, 8937, 8938, 8939, 8940, 8941, 8942 (138.180)	Mike	13824500M6	15	MR48				13820121	46	RS224					9	[26]J7G, 6N7G, 5V4G, [26]C5G, [26]L6G		14-82
	Phono.	13824500M6	50	MR48				13820108	46/13	3S584								
	Tone	1382450M1	21	MR33				13820102	15	TN111								
	Tone	13824250M1	21	MR44														
8960 (Amplifier) (138.140)	Mike		15	MR48				13820108	46	3S584					5	[26]J7, 6Y7, 6L6, 80		13-110
	Inst. Vol.		15	MR48				13820106	15	TC22								
12816, 12817, 12818, 12819, 12820, 12821, 12822, 12823 (138.210)	Mike	13824500M6	15	MR48				13820113	46/13	2S567					7	6Q7G, 6SC7G, 6N7G, [26]L6G, [26]W5G		13-109
	Bass	13824500M6	57	MR48				13820102	15	2N509								
	Phono.	13824500M6	50	MR48														
	Treble	13824250M1	57	MR44														
	Master	13824500M6	15	MR48														
12860, 12861, 12862 (138.150)	Vol.	N103	15	MR48				8-8	46	TCD71					5	6J7G, 6Y7G, [26]V6G, 5V4G		14-98
	Tone	P118	21	MR50	M26			8-8	46	TCD71								
	Phono.	P103	50	MR48	M26													
12865, 12866, 12867 (138.111)	Vol.	N103	15	MR48				8-8	46	TCD71					7	[26]J7G, 6SC7, 6N7G, [26]L6G, 5V4G		14-83
	Tone	NT121	121	MRT443				8-8	46/13	TCD71								
	Phono.	N103	50	MR48														
	Mic.	N103	15	MR48														
12870 (138.250)	Vol.	N103	‡	MRT460				20	15	TC26					7	6J5G, 6H6G, 6SA7GT, 6N7G, [26]L6G, 5V4G		14-64
	Tone	P118	21	MR50														
12874, 12875 (138.007)	Vol.	N103	‡	MRT460				8-8	1	TCD71					3	6SC7, 6L6G, 5Y3G		14-83
	Tone	P118	21	MR50				20	15	TC26								
SENTINEL RADIO CORP. (Also see Erla)																		
5-Tube Battery	Vol.	9611	71	MR21		EX250									5	[32], 34, 33, 30	465	
	Fil.	9624	29	R														
6A	Vol.	1495	18	MR48	M26			1477	1	RS215					9	[26]D6, [26]76, 75, [24]1, 80	465	8-1,2
	Tone	1732	44	MR44				1476	1	RS216								
								1110	13	TC70								
								1693	15	TC22								
8, 9	Vol.		6	MR21				2-1-1	3	See Note	B1				8	[24]A, 27, [24]5, 80		3-1
10M	Vol.	1145	17	UM154	M26		A96	1188	1	2N518		1893	294	C3	5	6A7, 6D6, 6B7, 41, 84	370	8-5
								8876	15	TC22								
								.02		Buffer	B14							
10MF	Vol.	1145	17	UM154	M26		A96	1188	1	2N518		1893	294	C3	5	6A7, 6D6, 6B7, 41, 84	370	8-3,4
								8876	15	TC22								
								.02		Buffer	B14							
11, 12, 15, 16	Vol.		6	MR18				15-5	2	3S584	B8				7	27, [24]5, [24]A, 80		1-1
11M	Vol.	1145	18	UM154	M26		A96	1973	4	TCS71		1974	294	C3	6	[26]D6, 6A7, 75, 41, 84	465	8-6
	Tone	1950	34	MR44				.026		Buffer	B14							
14A	Vol.	2220	18/7	DRP314	6			1477	1	RS215					9	[26]D6, [26]76, 75, [24]1, 80	465	9-1,2
	Tone	1732	44	MR44				1476	1	RS216								
								1110	13	TC70								
								1693	15	TC22								
19A	Vol.	2055	18	MR48	M26			1477	24	RS215					6	6A7, 6D6, 75, [24]2, 80	465	8-7
	Tone	2056	34	MR33				1476	24	RS216								
								1110	13	TC70								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SENTINEL RADIO CORP.—Continued																		
20A	Vol.	2055	18	MR48	M26			1477	25	RS215					5	6A7, 6D6, 75, 42, 80	465	7-1
	Tone	2162	22	MR29				1476	25	RS216								
30A	Vol.	1835	6	MR24	M26	EX200		1258	25	RS213					4	6D6, 6C6, 42, 80		8-8
								1260	25	RS213								
								8876	15	TC22								
31, 33	Vol.		10	D12				.5-1-2	3	See Note	B1				7	‡26, 27, 45, 80		2-8
31B	Vol.	2198	45	UM154-SS16				2272	1	TCD55		2269	245A	C3	6	1C6,‡34,‡30, 19	465	6-1,2
	Tone	2282	22	MR33	M27			.02		Buffer	B14							
32B	Vol.	2239	18	MR48											4	1C6, 34, 1B5, 33	465	8-9
33B	Vol.	2290	18	MR48	M24			2289	12	TC42					5	1C6, 34, 1B5, 30, 19	465	8-10
	Tone	2162	22	MR29														
34B	Vol.	2260	18	MR48	M27			2272	1	TCD55		2269	245A	C3	4	1C6, 34, 1B5, 38	465	8-11
	Tone	2239	57	MR48				.02		Buffer	B14							
35B	Vol.	2198	45	UM154-SS16				2289	12	TC42					6	1C6,‡34,‡30, 19	465	6-3,4
	Tone	2331	22	MR33	M24													
36L	Vol.	2055	18	MR48	M26										6	6A7, 6D6, 75, 76, ‡48	465	8-12
	Tone	2162	44	MR29														
37B	Vol.	2239	18	MR48											4	1C6, 34, 1B5, 33, 5E1	465	8-13
38B	Vol.	2290	18	MR48	M24			2289	13	TC42					5	1C6, 34, 1B5, 30, 19	465	8-14
	Tone	2162	22	MR29														
39B	Vol.	2198	18	UM154-SS16				2289	13	TC42					6	1C6,‡34,‡30, 19	465	8-15
	Tone	2131	22	MR33	M24													
40B	Vol.	2198	18	UM154-SS16				1477	25	RS215					6	6A7, 6D6, 6H6, 6F5, 42, 80	465	8-16
	Tone	2199	34	MR33	M26			1476	25	RS216								
44A	Vol.	2198	75	UM154-SS16				1477	25	RS215					6	6A7, 6D6, 6H6, 6F5, 42, 80	465	9-7,8
	Tone	2199	34	MR33	M26			1476	25	RS216								
								1110	14	TC70								
46A	Vol.	2198	18	UM154-SS16				1477	25	RS215					8	6A7, 6K7, 75, 6C5, 6E5,‡6F6, 80	465	9-9,10
	Tone	2199	44	MR33	M26			1476	25	RS216								
								1110	13	TC70								
47A, 47AE	Vol.	2699	20	TM228-SS16				3167	25	RS223					11	‡6K7, 6L7, 6J7, 6H6, 6G5, ‡6C5, ‡6F6, 5Z3	465	7-5,6
	Tone	2700	22	MR33	M26			1476	25	RS216								
								3170	19	TC32								
								8876	15	TC22								
								1110	13	TC70								
48A	Vol.	2624	7	E		3		2627	1/15	3S579					5	6A7, 6D6, 76, 41, 80	465	8-17
	Tone	2625	22	MR33	M26													
49B	Vol.	2239	18	MR48				2272	1	TCD55		2269	245A	C3	5	1C6, 34, 6B7, 30, 19	465	8-18
	Tone	2282	22	MR33	M27			.02		Buffer	B14							
50B	Vol.	2198	45	UM154-SS16				2272	1	TCD55		2269	245A	C3	7	1C6,‡34,‡30, 19	465	8-19,20
	Tone	2282	22	MR33	M27			.02		Buffer	B14							
52A	Vol.	2239	18	MR48				2627	1/15	3S579					5	6A7, 6D6, 75, 41, 80	465	8-21
	Tone	2199	22	MR33	M26													
53A	Vol.	2198	18	UM154-SS16				1477	1	RS215					8	6A7, 6K7, 75, 6E5, 6C5,‡6F6, 80	465	8-22
	Tone	2199	44	MR33	M26			1476	1	RS216								
54A	Vol.	2239	18	MR48				2627	1/15	3S579					5	6A7, 6D6, 75, 41, 80	465	8-23
	Tone	2199	22	MR33	M26													
55U	Vol.	2775	18	MR48	M26			12-20	27	TCS45					5	6A7, 6D6, 75, 43, 25Z5	465	8-24
56U	Vol.	2055	75	MR48	M26			2159	11	TCS45/TC42					8	6A8, 6K7, 6H6, 6E5, 6F5, 25A6, ‡25Z6	465	10-3
	Tone	2373	22	MR33														
60B	Vol.	2239	18	MR48											4	1C6, 34, 1F6, 33, 5E1	465	8-25
63B	Vol.	2239	18	MR48				3060	1	2N518		3069	245A	C3	4	‡15, 75, 41	465	8-26
	Tone	2239	22	MR48				1693	15	TC22								
								.01		Buffer	B14							
65B	Vol.	2239	18	MR48				3150	12	RS216					5	1C6, 34, 1F6, 30, 19, 5H1	465	8-27
	Tone	2331	22	MR33	M24													
66B	Vol.	2966	45	TM234-SS16				3060	1	2N518		3069	245A	C3	8	‡15, 6A7, ‡76, 6E5, 19	465	9-3,4
	Tone	2965	44	MR33	M26			3159	13	TC70								
								8876	15	TC22								
								.02		Buffer	B14							
67L	Vol.	2239	18	MR48											6	6A7, 6D6, 75, 76, ‡48	465	10-5
	Tone	2199	22	MR33	M26													
68B, 68BE	Vol.	2239	45	MR48				3060	1	2N518		3069	245A	C3	6	6A7, ‡15, ‡76, 19	465	10-6
	Tone	2199	22	MR33	M26			1693	15	TC22								
								.02		Buffer	B14							
69U	Vol.	3171	6	MR21	M26	EX250		3013	27	TCS45					4	6D6, 6C6, 43, 25Z5, L53B		
								1693	15	TC22								
70A	Vol.	3024	7	E	6	3		3041	1	2N518					5	6A7, 6D6, 76, 41, 80	465	8-28
71U	Vol.	2775	17	MR48	M26			20-12	27	TCS45					5	6A7, 6D6, 75, 43, 25Z5	465	8-31
72A, 72AE	Vol.	2775	17	MR48	M26			3041	1	2N518					6	6A7, 6D6, 75, 41, 80, 6G5	465	9-13
	Tone	3545	22	MR33														
73B	Vol.	3671	15	MR48				3060	1	2N518		3698	245A	C3	5	6D8G, ‡6S7G, 6L5G, 41	465	10-7
	Tone	3545	22	MR33				1693	15	TC22								
								.03		Buffer	B14							
74A, 74AE	Vol.	2775	15	MR48	M26			3718	1	2N518					6	6A7, 6D6, 75, 41, 6G5, 80	465	9-15
	Tone	3545	22	MR33				1693	15	TC22								
76A	Vol.	3403	20	TM251-SS16				3167	25	RS223					11	‡6K7, 6A8, 6J7, 6H6, ‡6C5, ‡6F6, 80	465	9-17,19
								3041	25/13	2N518								
								1110	13	TC70								
								1693	20	TC22								
78B, 78BE	Vol.	3761	15	UM154-SS16				3060	1	2N518		3698	245A	C3	7	6D8G, ‡6S7G, ‡6L5G, 19, 6N5	465	10-9
	Tone	2199	22	MR33	M26			1693	15	TC22								
								.03		Buffer	B14							

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SENTINEL RADIO C O R P.—	Continued																	
80B	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	10-11
82A, 82AE	Vol.	3761	17	UM154-SS16				3718	1	2N518					7	6A7, 6D6, 75, 41, 6G5, 80, 76	465	9-21,22
	Tone	2199	22	MR33	M26			1693	15	TC22								
83UE	Vol.	3761	15	UM154-SS16				3638	4	TC48 /TC42					7	6A7, 6D6, 76, 6C6, 43, 6G5, 25Z5	465	10-13
	Tone	2199	22	MR33	M26													
84A, 84AE	Vol.	3761	17	UM154-SS16				3718	1	2N518					6	6A7, 6D6, 75, 41, 6G5, 80	465	.....
	Tone	2199	22	MR33	M26			1693	15	TC22								
85U, 85UE	Vol.	2775	17	MR48	M26			3638	27	TC48 /TC42					5	6A7, 6D6, 75, 43, 25Z5, M49B, or 6A7, 6D6, 75, 6G5, 43, 25Z5, M42B	465	9-20
	Tone	3545	22	MR33														
86AE	Vol.	4078	17	TM251-SS16				3718	1	2N518					8	6A8G, 6K7G, 6Q7G, 6C5G, ‡6K6G, 6G5, 5Y4G	465	10-15
	Tone	2199	44	MR33	M26			1108	13	TC70								
87AE	Vol.	4186	20	TM251-SS16				4261	1	RS223					9	‡6K7, 6A8, 6Q7, 6C5, 6G5, ‡6F6, 5Y3G	465	10-17
								4262	1	RS216								
								1693	15	TC22								
88BE	Vol.	4186	15	TM251-SS16				4188	1	2S569		3698	245	C3	8	‡6S7G, 6D8G, ‡6L5G, 19, 6N5	465	10-19,20
								1693	15	TC22								
								.03		Buffer	B14							
90B	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	9-23,24
91B	Vol.	3761	17	UM154-SS16				3150	12	RS216					7	1C6, 34, ‡30, 1B4, 4H1	465	10-21
	Tone	2331	22	MR33				1693	19	TC22								
92AE	Vol.	3761	17	UM154-SS16				3718	1	2N518					6	6A7, 6D6, 75, 41, 6C5, 80	465	
	Tone	2199	22	MR33	M26			1693	15	TC22								
93L	Vol.	3761	17	UM154-SS16											6	6A7, 6D6, 75, 76, ‡48	465	9-25,26
	Tone	2199	22	MR33	M26													
95B	Vol.	3761	17	UM154-SS16				3150	12	RS216					6	1C6, 34, 1F6, ‡30, 4-1	465	10-24
	Tone	2331	44	MR33	M24			1693	19	TC22								
96BE	Vol.	2775	15	MR48	M26			3060	1	2N518		3698	245A	C3	6	6D8G, ‡6S7G, 6L5G, 41, 6N5	465	10-25
	Tone	3545	22	MR33				1693	15	TC22								
								.03		Buffer	B14							
97L	Vol.	3879	17	UM154-SS16											9	‡6D6, 6A7, 75 76, ‡48	465	9-27
	Tone	3880	44	MR33														
98AE	Vol.	2775	15	MR48	M26			3718	1	2N518					7	6A7, 6D6, 76, 75, 6G5, 41, 80	465	10-27,28
	Tone	3545	22	MR33														
99AE	Vol.	4304	20	TM251-SS16				4261	1	RS223					10	‡6K7, 6L7, 6J7, 6H6, 6C5, 6N7, ‡6L6, 5Z3	465	10-29
								4321	13/15	2N518/TC39								
								1110	13	TC70								
								1693	15	TC22								
100X	Vol.	3671	17	MR48				4096	1	2N518		4105	294	C3	5	6D8G, 6S7G, 6T7G, 41, 6ZY5G	465	9-29
	Tone	3545	22	MR33				1693	15	TC22								
								.02		Buffer	B14							
104	Vol.		6	MR18				15-5	2	3S584	B8				7	27,‡45,‡24A, 80		1-1
106A	Vol.	4144	18	MR48	M26			4140	23	2S567					5	6A8G, 6K7G, 6Q7G, 6K6G, 5Y4G	465	10-32
106B	Vol.		6	MR18				16-8	2	3S584	B8				8	‡24A,‡27,‡45, 80	175	1-2
	Tone		34	MR33														
107AE	Vol.	4408	17	MR48				3718	1	2N518					6	6A7, 6D6, 75, 41, 6G5, 80	465	10-34
	Tone	4409	22	MR33	M26													
108	Vol.		6	MR39				8-16	31	3S584	B8				7	‡24A, 27, 45, 80	175	1-3
	Tone		22	MR33														
108A	Vol.		7	F				8-8	34	See Note	B3				7	‡35, 27,‡24A, 47, 80	175	2-1,2
	Tone		22	MR33														
109	Vol.		7	F				16	34	RS216					8	‡24, 27,‡35,‡47, 80	175	2-3
	Tone		22	MR33				8	34	RS213								
110	Vol.		7	F				8, 8	34	RS213					7	27,‡35,‡24A, 47, 80	175	2-1,2
	Tone		22	MR33														
110A	Vol.	3403	20	TM251-SS16				3167	25	RS223					11	‡6K7, 6A8, 6J7, 6H6, ‡6C5,‡6F6, 80	465	10-37,38
								3041	25/13	2N518								
								1110	13	TC70								
								1693	20	TC22								
111	Vol.		7	F				8, 8	4	RS213					4	47, 24A, 35, 80		2-4
114	Vol.	7864	15	MR48	M26			7078	34	RS215					9	‡47,‡24A,‡35,‡27, 80	175	2-5 & 5-1
	Tone	7037	44	MR33				7051	34	RS213								
116	Vol.		6	MR15		EX200		8, 8	4	RS213	B3				5	‡24, 35, 47, 80	465	7-22
118	Vol.	7864	109	MR48	M26			7078	34	RS215					10	‡27,‡35,‡24A,‡47, 80	175	5-3,4
	Tone	7037	22	MR33				7051	34	RS213								
118B	Vol.	4803	18	MK401	M23			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	10-40
119B	Vol.	4839	18	MK401	M26			4841	24	2N509		3698	245	C3	4	6D8G, 6S7, 6T7G, 6G6G	455	10-41,42
								1693	15	TC22								
								.03		Buffer	B14							
124A, 124AE	Vol.	4839	18	MK401	M26			4772	1	2N518					6	6A8G, 6K7, 6Q7G, 6U5, 6K6G, 5Y4G	455	10-43,44
								1693	15	TC22								
125	Vol.		64	MR48				6-4-4	3	See Note	B3				8	‡24A,‡35, 27, 47, 80	175	5-5
	Tone		22	MR33				20	16	TC26								
125AE	Vol.	10012	18	MK401				3718	1	2N518					6	6K8, 6K7, 75, 41, 6U5, 80	455	10-45
	Tone	10013	22	UM133-SS25				1693	15	TC22								
127B	Vol.	4871	18	UM154-SS22				1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	10-47,48

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SENTINEL RADIO CORP.—Continued																		
128B	Vol.	4803	45	MK401	M23			1693	19	TC22					5	1C7G, 1D5GP, 1H4G, 1E5GP, 1G5G, 4-1	455	10-49
	Tone	4862	22	UM133-SS25														
130B, 130BE	Vol.	4871	45	UM154-SS22				4841	24	2N509		3698	245	C3	5	6D8G, 6S7, 6L5G, 6T7G, 6G6G	455	10-51,52
	Tone	4872	22	UM133-SS22	M26			1693	15	TC22								
								.03		Buffer	B14							
137U	Vol.	4894	6	UM133-SS18	M26	EX250		4895	4	TC47					4	6K8, 6J7, 25L6, 25Z6, L55B/L5A	455	10-61
								4896	4	TC42								
138AE	Vol.	10057	80	TM251-SS25				10102	1	3S584	B8				7	[2]6K7, 6K8, 6Q7G, 6V6G, 6U5, 5Y4G	455	10-53
	Tone	10058	80	TM261-SS25	M26			10245	14	TC71								
								10188	15	TC29								
139UE	Vol.	10057	80	TM251-SS25				50-32	25	See Note	B3				8	[2]6K7, 6K8, 6R7, [2]25L6G, 6U5, 25Z6G, 10233	455	10-55
	Tone	10058	80	TM261-SS25	M26													
140B, 140BE	Vol.	10057	124	TM251-SS25				10036	24	2S569		3698	245	C3	7	[2]6S7, 6K8, 6T7G, 6G6G, 6Z7G, 6N5	455	10-57
	Tone	10058	21	TM261-SS25	M26			1693	15	TC22								
								.03		Buffer	B14							
141AE	Vol.	4871	18	UM154-SS22				10158	23	2S567					6	6K8, 6K7, 6Q7G, 6K6G, 6U5, 5Y4G	455	10-59
	Tone	4872	22	UM133-SS22	M26													
142A, 142AE	Vol.	4871	18	UM154-SS22				10158	4	2S567					6	6K8, 6K7, 6Q7G, 6K6G, 6U5, 5Y4G	455	10-62
	Tone	4872	22	UM133-SS22	M26													
143L	Vol.	4871	127	UM154-SS22											5	6K8, 6K7, 6Q7G, 6C5G, 25L6G	455	10-63,64
	Tone	4872	22	UM133-SS22	M26													
144X, 144XE	Vol.	4871	18	UM154-SS22				4096	1	2N518		4105	294	C3	6	6D8G, 6S7G, 6T7G, 6D6G, 6ZY5G, 6U5	455	10-65
	Tone	10148	22	UM133-SS22	M27			1693	15	TC22								
								.03-.03		Buffer	B14							
145AE	Vol.	10227	124	TM251-SS25				10470	3	RS223					11	[2]6K7, 6K8, 6Q7G, 6C5G, [2]6L6, 6AE6G, [2]6AF6G, 5Z3	455	10-67
								10102	3	2S569								
								1693	15	TC22								
147U	Vol.	10204	18	UM154-SS18	M26			4895	25	TC47					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	10-69
148A	Vol.	4839	18	MK401	M26			10245	25	TC71					5	6A7, 6K7, 6Q7G, 41, 80	455	10-71,72
149A, 149AE	Vol.	4839	18	MK401	M26			10245	25	TC71					6	6A7, 6K7, 6Q7G, 41, 80, 6U5	455	10-79
151BL	Vol.	10441	18	MK401	M27			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	10-73
158AE	Vol.	10057	80	TM251-SS25				10102	1	3S584	B8				8	6K8, [2]6K7, 6C5G, 6F5G, 6V6G, 6U5, 5Y4G	455	10-75
	Tone	10058	80	TM261-SS25	M26			10245	13	TC71								
								10188	15	TC29								
163UL	Vol.	4839	18	MK401	M26			4895	4	TC47					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	455	10-77
167U	Vol.	10204	18	UM154-SS18	M26			10245	25	TC71					5	6A8, 6SK7, 6SQ7, 25L6, 25Z6	455	10-80
168B	Vol.	10441	18	MK401	M27			1693	19	TC22					5	1A7G, [2]1N5G, 1H5G, 1A5G	455	11-7,8
	Tone	11098	22	Order from	Mfr.													
175B	Vol.	11132	18	MK401	M27			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	11-9,10
176B	Vol.	10441	45	MK401	M27			1693	19	TC22					6	1A7G, [2]1N5G, [2]1A5G, 1H5G	455	11-11,12
	Tone	11098	22	Order from	Mfr.													
177U	Vol.	10204	18	UM154-SS18	M26			4895	25	TC47					5	6A8GT, 6K7GT, 6Q7, 25L6GT, 25Z6GT	455	10-82
178BL	Vol.	10441	18	MK401	M27			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	10-83
180XL	Vol.	4871	18	UM154-SS22				10847	1	FP214					5	1A7G, 1N5G, 1H5G, 1Q5G, 35Z4GT	455	11-13
								9196	78	TC26								
181BL	Vol.	10772	18	MK401	M27			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-15
184U, 184UE	Vol.	4871	18	UM154-SS22				11070	4	[2]TC49					6	12A8GT, 12SK7, 12SQ7, 35L6GT, 6AB5, 35Z5GT	455	11-17
	Tone	4872	22	UM133-SS22	M26													
185A, 185AE	Vol.	4871	18	UM154-SS22				11031	1	FP390	B69				6	6K8, 6SK7, 6SQ7, 6K6G, 6U5, 5Y4G	455	11-19
	Tone	4872	22	UM133-SS22	M26			1693	15	TC22								
186B, 186BE	Vol.	4871	45	UM154-SS22				11150	1	FP371		3698	245A	C3	6	6D8G, 6S7, 6L5G, 6T7G, 6G6G, 6AB5	455	11-21,22
	Tone	4872	22	UM133-SS22	M26			1693	15	TC22								
								.03		Buffer	B14							
189L	Vol.	4871	18	UM154-SS22				11080	12	TC39					6	6K8, 6SK7, 6SQ7, 6J5G, [2]25L6G	455	11-23,24
	Tone	4872	44	UM133-SS22	M26			1693	19	TC22								
191B, 191BE	Vol.	11301	124	TM251-SS22				30-10	1	FP228		3698	245A	C3	7	[2]6S7, 6K8, 6T7G, 6G6G, 6Z7G, 6AB5	455	11-27,28
	Tone		140	‡		See Note A19		10	15	TC22								
								.03		Buffer	B14							
194UL, C194UL, RC194UL	Vol.	11389	18	MK401	M26			11493	24	FP214					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-31
1UC194UL, RC1U194UL, 1U194UL	Vol.	11389	18	MK401	M26			11494	24	FP214					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-3
195UL	Vol.	11359	18	MK401	M26			11493	24	FP214					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465	11-33

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SENTINEL RADIO CORP.—Continued																		
1U195UL	Vol.	11359	18	MK401	M26			11493	24	FP214					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	465	11-5
197X	Vol.	4871	18	UM154-SS22				11150	1	FP371		4105	294	C3	5	6D8G, 6S7, 6T7G,		
	Tone	10148	22	UM133-SS22	M27			1693	15/19	TC22						6G6G, 6ZY5G	455	11-35,36
								.02		Buffer	B14							
198A, 198AE	Vol.	11434	124	TM251-SS22				11324	1	FP234					8	6SA7, 6SK7, 6SQ7,		
	Tone	11435	‡	TM248-SS22	M26											²6K6G, 6SF5, 5Y4G, 6AB5	455	11-37
199A, 199AE	Vol.	11789	124	TM251-SS25				20-20	1	FP234					12	6K8, 6SK7, 6H6,		
	Tone	11790	140	TM261-SS25	M26			8	13	TC42						²6C5, ²6SF5, ²6K6G, 6AB5, 5Y4G	455	11-39-41
200X	Vol.	10441	18	MK401	M27			11502	4	2N514	B8				5	1A7G, 1N5G, 1H5G,		
	Tone	11098	22	Order from	Mfr.			11508	4	FP214	B69					1A5G, 25Z6G	455	11-43,44
								1693	19	TC22								
201XL	Vol.	10441	18	MK401	M27			11493	1	FP214					5	1A7G, 1N5G, 1H5G,		
								9196	78	TC26						1A5G, 35Z5GT	455	11-45,46
202BL	Vol.	11631	18	MK401	M27			1693	15	TC22					5	1A7G, ²1N5G, 1H5G, 1A5G	455	11-47
203UL	Vol.	4839	18	MK401	M26			11411	4	TC47					6	12SA7,12SK7,²12SQ7,		
	Tone	4862	22	UM133-SS25												35L6GT, 35Z5GT	455	11-49
204A, 204AE, RC204A, RC204AE	Vol.	4839	18	MK401	M26			10625	4	TC71					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y4G	455	11-51,52
205BL	Vol.	11580	18	UM154-SS18	M27			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	11-53
206A, 206AE, RC206A, RC206AE	Vol.	4839	18	MK401	M26			10625	4	TC62					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y4G	455	11-55
207U, 207UE	Vol.	11301	124	TM251-SS22				10113	1	²TC49					8	²6SK7, 6K8, 6R7,		
	Tone	10058	140	TM261-SS25	M26			1108	13	TC70						²25L6G, 25Z6G, 6U5	455	12-9,10
210B	Vol.	11132	18	MK401	M27			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-11,12
211U	Vol.	11389	18	MK401	M26			11493	24	FP214					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-13,14
212UL, 1U212UL, 212, 1U212	Vol.	12033	18	MK401	M26			12001	1	2N521					6	²12SK7,12SA7,12SQ7, 50L6GT, 35Z5GT	455	12-1,2
213XL, 1U213XL, 213P	Vol.	12075	18	UM154-SS18	M27			12001	1	2N521					5	1A7GT, 1N5GT,		
								12179	78	TC29						1H5GT, 1T5GT, 117Z6G	455	12-3,4
214UL, 1U214UL, 214U, 1U214U	Vol.	11359	18	MK401	M26			12055	24	2N521					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-5
216, 216J	Vol.	10227	124	TM251-SS25				12139	1	FP214	B197				7	6SA7, 6SK7, ²6SQ7,		
	Tone	12131	‡	TM261-SS25	M26			9196	15	TC26						6U5, 6F6G, 5Y3G	455	12-15-17
	Mike	12132	‡	MK401														
217, 217P	Vol.	12525	18	Order from	Mfr.			12001	1	2N521					6	1P5GT, 1A7GT,		
								12179	78	TC29						1N5GT, 1H5GT, 3Q5GT, 117Z6G/GT	455	12-18,19
218UL, 1U218UL	Vol.	11359	18	MK401	M26			12055	24	2N521					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	12-7,8
219, 219P	Vol.	12525	18	Order from	Mfr.			12001	1	2N521					6	1P5GT, 1A7GT,		
								12179	78	TC29						1N5GT, 1H5GT, 3Q5GT, 117Z6G/GT	455	12-18,19
220	Vol.	12132	18	MK401				12355	1	FP390	B197				8	6SA7, 6SK7, 6SQ7,		
	Tone	12350	22	MK401	M26											6SF5, ²6K6G, 6U5, 5Y3G	455	12-20,21
221	Vol.	12132	18	MK401				12400	1	FP390	B224				9	6SA7, 6SK7, 6SQ7,		
	Tone	12350	22	MK401	M26											6SF5, ²6K6G, 6SJ7, 6U5/6G5, 5Y3G	455	12-22-24
226, 1U226	Vol.	11389	18	MK401	M26			11493	24	FP214					5	12SA7,12SK7,12SQ7,		
								11494	24	FP214						50L6GT, 35Z5GT	455	13-1,2
227	Vol.	12604	18	MK401			A27	12750	12	TC44					4	1R5, 1T4, 1S5, 1S4	455	13-3,4
	Vol.	13014	18	MK403			A4											
228	Vol.	11631	18	MK401	M27			12960	24	2N521					6	²1P5GT, 1A7GT,		
								12179	15	TC29						1H5GT, 3Q5GT, 50Z7G	455	13-5,6
230	Vol.	12537	124	TM251-SS25	M26			11324	1	FP234					9	²6SK7, 6K8, 6SQ7, 6SF5,²6V6G, 6U5/ 6G5, 5Y3G	455	13-7,8
231	Vol.	11035	18	Order from	Mfr.			12001	24	2N521					6	1A7GT, 1P5GT,		
								12179	78	TC29						1N5GT, 1H5GT, 3Q5GT, 35Z4GT	455	13-9,10
232	Vol.	12033	18	MK401	M26			11031	1	FP390	B69				6	6SA7, 6SK7, 6SQ7,		
								1693	19	TC22						6K6G, 5Y3G, 6U5/6G5	455	13-11,12
233	Vol.	13014	18	MK403				12750	12	TC44					4	1R5, 1T4, 1S5, 1S4	455	13-3,4,19
235	Vol.	12462	18	MK401				11031	1	FP228					6	6K8, 6SK7, 6SQ7,		
	Tone	12461	22	MK401	M26			1693	15	TC22						6K6G, 6U5/6G5, 5Y3G	455	12-27,28

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SENTINEL RADIO CORP.—Continued																		
236	Vol.	12462	18	MK401				11150	1	FP228		3698	245A	C3	6	6K8, 6S7, 6L5G,		
	Tone	12461	22	MK401	M26			1693	15	TC22						6T7G, 6G6G, 6AB5	455	12-29,
								.03		Buffer	B14							30,34
237	Vol.	12462	18	MK401				11150	1	FP228		4105	294	C3	6	6K8, 6S7, 6T7G,		
	Tone	12480	22	MK401	M27			1693	19/15	TC22						6G6G, 6AB5, 6ZY5G	455	12-30
								.02		Buffer	B14							31,34
238	Vol.	11359	18	MK401	M26			12055	24	2N521					5	12SA7, 12SK7, 12SQ7,		
																50L6GT, 35Z5GT	455	
240	Vol.	10772	18	MK401	M27			1693	19	TC44					4	1A7GT, 1N5GT,		
																1H5GT, 1A5G/GT	455	12-32,36
241	Vol.	12381	18	MK401	M27			1693	19	TC44					4	1A7GT, 1N5GT,		
																1H5GT, 1A5G/GT	455	12-35,36
249	Vol.	13229	18	MK401	M26		A106	12055	24	2N521					6	[2]12SK7, 12SA7, 12SQ7,		
																50L6GT, 35Z5GT	455	13-15,16
255	Vol.	12462	18	MK401				11031	1	FP390	B69				6	6K8, 6SK7, 6U5 or 6G5,		
	Tone	12461	22	MK401	M26			1693	15	TC22						6SQ7, 6K6G, 5Y3G	455	13-17,18
256	Vol.	12462	64	MK401				11150	1	FP390	B69	3698	245	C3	6	6K8, 6S7, 6L5G,		
	Tone	12461	22	MK401	M26			1693	15	TC22						6AB5, 6T7G, 6G6G	455	13-20,21
								.03		Buffer	B14							
257	Vol.	12462	18	MK401				11150	1	FP390	B69	4105	294	C3	6	6K8, 6S7, 6T7G,		
	Tone	12480	22	MK401	M27			1693	19/15	TC22						6AB5, 6G6G,		
								.02		Buffer	B14					6ZY5G	455	13-22
261, 262	Vol.	8883-0	15	MR48				8876	15	TC22					5	[2]39, 36, 85, 41	175	5-6,8
262 (Late)	Vol.	13324	18	Order from	Mfr.			13326	24	2N521					6	[2]1N5GT, 1A7GT,		
								13242	78	2N511						1H5GT, 3Q5GT,		
1U262	Vol.	13324	18	Order from	Mfr.			13326	24	2N521					6	117Z6GT	455	13-23,24
								13242	78	2N511						[2]1N5GT, 1A7GT,		
																1H5GT, 3Q5GT,		
																117Z6GT	455	13-23,24
263	Vol.	13441	18	MK401	M26		A106	13396	77	2N520					6	[2]12SK7, 12SA7, 12SQ7,		
																50L6GT, 35Z5GT	455	13-25,26
1U263	Vol.	13441	18	MK401	M26		A106	13396	77	2N520					6	[2]12SK7, 12SA7, 12SQ7,		
																50L6GT, 35Z5GT	455	13-25,26
264	Vol.	9070	15	MR48	M26			9110-0	1	2S567					6	[2]58, 57, 55, 47, 80	175	
								8876-0	17	TC22								
264 (Late)	Vol.	13441	18	MK401	M26		A106	13396	77	2N520					6	12SG7, 12SA7, 12SK7,		
																12SQ7, 50L6GT,		
																35Z5GT	455	13-27,28
1U264	Vol.	13441	18	MK401	M26		A106	13396	77	2N520					6	12SG7, 12SA7, 12SK7,		
																12SQ7, 50L6GT,		
																35Z5GT	455	13-27,28
265	Vol.	12381	18	MK401	M27			1619	12	TC42					4	1A7GT, 1N5GT,		
																1H5GT, 1A5GT	455	13-29,30
267	Vol.	12297	18	MK401	M27			1619	12	TC42					5	1A7GT, [2]1N5GT,		
																1H5GT, 3Q5GT	455	13-31,32
268	Vol.	12132	106	MK401				13492	4	TC78					7	6SG7, 6SA7, 6SK7,		
	Tone	12350	106	MK401	M26			13491	4	TC65						6SQ7, 6F6G,		
																6AD7G, 5Y3G	455	13-33,34
271	Vol.	12381	18	MK401	M27			1693	19	TC22					4	1A7GT, 1N5GT,		
																1H5GT, 1A5GT	455	13-35,36
273	Vol.	12297	18	MK401	M27			1693	19	TC22					5	1A7GT, [2]1N5GT,		
																1H5GT, 1A5GT	455	13-37,26
275	Vol.	12381	18	MK401	M27			1619	12	TC42					4	1A7GT, 1N5GT,		
																1H5GT, 1A5GT	455	13-38,39
440, 444	Vol.		6	MR18				‡	‡	See Note	B1				7	[2]24A, 27, 45, 80		1-5
501, 502	Vol.	9611	70	MR21											5	[2]32, 34, 33, 30	465	4-1
	Fil.	9624	29	R														
513	Vol.	9042-0	6	G7	6	2		9110-0	25	2S567					5	57, 58, 55, 47, 80	175	4-2,3
521	Vol.	8833-0	15	MR48				8876	15	TC22					5	[2]39, 36, 85, 41	175	5-6,8
550, 560, 561	Vol.	9331	6	H7	6	2		9355	8	3S582					5	[2]36, 39, 38, 25Z5	265	5-9 &
								9328	15	TN111								3-3
560TV	Vol.	9331	6	H7	6	2		9355	8	3S582					5	6A7 78, 77, 38, 25Z5	265	9-12
								9328	15	TN111								
570	Vol.	9331	6	H7	6	2		9442	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5	265 or	4-4,5
																	465	
590	Vol.	9331	6	H7	6	2		9442	11	UR182	B31				5	6A7, 75, 78, 43, 25Z5	465	4-6,7
599	Vol.	9331	6	H7	6	2		9442	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5	265	4-6,7
600, 602	Vol.	9776	17	UM154	M26	See Note	A96	9532	1	3S584	B8	9536	292	C3	6	[2]78, 6A7, 75, 41, 84	265	5-14 &
								9328	15	TN111								4-8
								.02		Buffer	B14							
603	Vol.	1229	17	MR48	M26			1247	1	2N518		1245	292	C3	6	[2]78, 6A7, 75, 41, 84	265	5-17,18
								9328	15	TN111								
								.02		Buffer	B14							
610	Vol.		7	F				8, 8	34	RS213					7	[2]51, 27, [2]24A, 47, 80	175	
	Tone		22	MR33														
614	Vol.	9033-0	15	MR48	M26			9110-0	1	2S567					6	[2]58, 57, 55, 47, 80	175	2-9
								8876	17	TC22								
622, 623	Vol.	9666	17	MR44	M26			9659	1	RM262					6	[2]57, 58, 2A6, 2A5, 80	465	4-10,11
	Tone	9174	22	MR33				8876	15	TC22								
630	Vol.	9666	17	MR44	M26			9659	1	RM262					6	[2]57, 58, 2A5, 2A6, 80	456	4-12,14
	Tone	9174	22	MR33				8876	15	TC22								
634, 635	Vol.	9666	17	MR44	M26			9659	1	RM262					6	[2]57, 58, 2A6, 2A5, 80	465	4-12,14
	Tone	9174	22	MR33				8876	15	TC22								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SENTINEL RADIO CORP.—Continued																		
660	Vol.	9611	70	MR21											5	[32], 34, 33, 30, 5B1	465	5-19
666C	Vol.		6	G7				‡	‡	See Note	B1				9	[24A], [27], [45], 80		1-6
810	Vol.	9128-0	46	MR48	M27										9	[32], [34], [30], [49]	175	7-5,6
1010	Vol.	9175-0	75	MR48	M26			9193-0	3	3S584					10	[58], [57], 55, [46], 80	175	7-5,6
	Tone	9174-0	22	MR33														
1020, 1030	Vol.	9296	127	MR48	M26			9193	3	3S584					10	[58], [57], 55, [59], 80	115	2-10 & 1-7
	Tone	9295	22	MR33				8876	15	TC22								
1020A, 1030A	Vol.	9296	15	MR48	M26			9739	3	RS215					10	[58], 57, [56], [2]A3, 80	115	4-15,18
	Tone	9295	22	MR33				9736	3/15	2N518/TN111								
	Supp.	9735	7	C	8													
1040	Vol.	9296	15	MR48	M26			9739	3	RS215					10	[58], 57, 2B7, [56], [2]A3, 5Z3	465	5-21,23
	Tone	9295	22	MR33				9736	3/15	2N518/TN111								
	Supp.	9834	7	G	8													
4100	Vol.	9331	6	H7	6	2		1395	6	2N509					4	6D6, 6C6, 43, 25Z5		7-5,6
4100B	Vol.	9331	6	H7	6	2		9982	11	UR182	B31				4	6D6, 6C6, 43, 25Z5		6-5
								1693	15	TC22								
4300	Vol.	9331	7	H	6			9982	11	UR182	B31				4	6A7, 6F7, 38, 25Z5	465	5-24
4500	Vol.	1262	6	SRP263	6	EX200		1258	25	RS213					4	42, 6C6, 6D6, 80		6-6
								1260	25	RS213								
4800	Vol.	9331	110	H7	6	2		9982	11	UR182	B31				4	6D6, 6C6, 43, 25Z5		6-8
								8876	15	TC22								
5000, 5100	Vol.	9611	6	MR21				9925	12	TC71					5	[78], 77, 38, 37	465	4-19,20
								9328	15	TN111								
5200	Vol.		18	MR48	M26			9982	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5	465	
5500	Vol.	1145	17	UM154	M26	See Note A96		1188	1	2N518		1187	294	C3	5	6A7, 6D6, 6B7, 41, 84	370	5-25,27
								9328	15	TN111								
								.01-.01		Buffer	B14							
5600	Vol.	1322	18	MR48				1258	1	RS213		1381	F294	C3	5	6A7, 6D6, 75, 38, 84	465	6-7
	Tone	1382	22	MR24	M26			1260	1	RS213								
								9328	15	TN111								
								.01-.01		Buffer	B14							
5700	Vol.	1104	18	MR48	M26			9659	1	RM262					5	58, 2A7, 2A6, 2A5, 80	465	5-27,28
								1100	13	TC70								
5700B	Vol.	1004	18	MR48	M26			9659	1	RM262					5	2A5, 2A6, 2A7, 58, 80	465	6-12
	Tone	1322	21	MR48				1108	13	TC70								
5721	Vol.	1104	18	MR48	M26			9659	1	RM262					5	58, 2A7, 2A6, 2A5, 80	465	5-27,28
								1100	13	TC70								
5800	Vol.	1004	18	MR48	M26			9659	1	RM262					5	2A7, 58, 2A6, 2A5, 80	465	7-11,12
6100, 6101, 6102	Vol.	9611	6	MR21				9925	12	TC71		8701	Order from Mfr.		7	77, [78], 38, 37, 25Z5, 84	465	5-29,31
								9328	15	TN111								
								.02-.02		Buffer	B14							
6200, 6234, 6241	Vol.	1322	45	MR48											5	1A6, 34, 30, 33, 32, 5B1	465	5-34
6300	Vol.	9666	17	MR44	M26			9659	1	RM262					6	2A7, 2A6, 2A5, [58], 80	465	
	Tone	9174	22	MR33				8876	15	TC22								
6315, 6317, 6321	Vol.	9666	17	MR44	M26			9659	1	RM262					6	2A7, [58], 2A6, 2A5, 80	465	5-31,33
	Tone	9174	22	MR33				1110	13	TC70								
								8876	15	TC22								
6700	Vol.	1004	45	MR48	M26			5	15	TC22					6	1C6, 34, [30], 15, 19	465	7-7
6800	Vol.	1004	17	MR48	M26			20-8-8	8	See Note	B3				6	[6]D6, 6A7, 75, 43, 25Z5	465	7-8
								5	15	TC22								
6900	Vol.	1004	18	MR48	M26										6	6A7, 6D6, 75, 76, [48]	465	8-29,30
7100	Vol.	1495	17	MR48	M26			1477	1	RS215					7	[6]D6, 6A7, 75, 76, 41, 80	465	7-9,10
	Tone	1450	22	MR33				1476	1	RS216								
								5	15	TC22								
7100B	Vol.	1495	17	MR48	M26			1477	1	RS215					7	[6]D6, 6A7, 75, 76, 41, 80	465	7-13,15
	Tone	1732	21	MR44				1476	1	RS216								
								8876	15	TC22								
7200	Vol.	1495	17	MR48	M26			1477	1	RS215					7	[6]D6, 6A7, 75, 76, 41, 80	465	8-32
	Tone	1450	22	MR33				1476	1	RS216								
7200B	Vol.	1495	17	MR48	M26			1477	1	RS215					7	[6]D6, 6A7, 75, 76, 41, 80	465	6-9,11
	Tone	1450	22	MR33				1476	1	RS216								
								1110	13	TC70								
								8876	15	TC22								
7700, 7732, 7741	Vol.	1289	45	MR48	M27			1291	12	ST595					6	1C6, 34, [30], 32, 19	465	5-35,36
8100B	Vol.	1495	15	MR48	M26			1477	3	RS215					8	[6]D6, 6A7, 76, 75, [41], 5Z3	465	7-16,18
	Tone	1732	21	MR44				9659	3	RM262								
								1110	14	TC70								
								8876	15	TC22								
8200B	Vol.	1495	15	MR48	M26			1477	3	RS215					8	[6]D6, 6A7, 76, 75, [41], 5Z3	465	6-13,15
	Tone	1732	21	MR44				9659	3	RM262								
								1110	14	TC70								
								8876	15	TC22								
9100	Vol.	1447	45	MR48											9	[34], 1C6, [30], 6-1	465	7-19,21
	Tone	1450	22	MR33														
5 Tube Superhet	Vol.	9042-0	6	G7	6	2		9110-0	25	2S567					5	57, 58, 55, 47, 80	262	
7 Tube Super-Het. (with 45)	Vol.		6	MR18				8	31	RS213					7	27, [24A], 45, 80	175	
	Tone		22	MR33				16	31	RS216								
7 Tube Superhet. (with 47)	Vol.		7	F				8, 8	34	RS213	B3				7	[51], 27, [24], 47, 80	175	
	Tone		22	MR33														
8 Tube Superhet	Vol.		7	F				16	34	RS216					8	[24], 27, [47], 80	175	
	Tone		22	MR33				8	34	RS213								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SETCHELL CARLSON																		
DM1								8-8	13	2N518					3	[2]19, 33		14-1
PA6	Vol.		15	MR48				8	3	HS693					8	[6]6F5, [2]37, [6]6A6, [6]6X5		
	Tone		22	MR48				10	15	TC32								
7B	Vol.		15	MR48				10, 10, 10	46	RS215					5	6F5, 6Y7G, [6]6V6G, 80		
	Tone		22	MR48				10, 10	15	TC32								
PA13	Vol.		15	MR53				8	46	HS693					5	6F5, 6N7, [6]6V6, 80		8-1
	Tone		22	MR53				10	15	TC32								
14 (Amplifier)	Vol.		141	UC506				10, 10, 10	46	RS215					6	[6]6F5, 6SC7, [6]6V6, 80		13-1
	Tone		22	MR48				10	15	TC32								
PA15	Phono.		63	MR48				8	3/13	HS693					7	[6]6F5, 42, [2]A3, 5Z3		
	Tone		34	MR48				10	15	TC32								
	Vol.		15	MR48				60	15	TC29								
PA25	Vol.		15	MR53				25	46	RS223					6	[6]6F5, 6N7, [6]6L6, 5Z3		8-1
	Tone		22	MR53				8	46/24	HD684								
	Phono.		63	MR53				60	15	TC29								
								10	15	TC32								
25B	Vol.		141	UC506				10, 10, 10, 10	1/24	RS215					7	[6]6F5, 6C5, [6]6L6G, 5Z3		
	Tone		22	UC506				10, 10	15	TC32								
26 (Amplifier)	Vol.		141	UC506				25	46	RS219					6	[6]6F5, 6SC7, 6L6, 5Z3		13-2
	Tone		22	MR48				10, 10	46	RS215								
								10, 10	15	TC32								
RA50	Vol.		141	UC506	6			25	46	RS219					13	6A8, 6B8, [6]6F5, [6]6SC7, [6]6L6, 5Z3	465	14-2
	Vol.		15	MR48				10, 10	46	RS215								
								10, 10, 10, 10	15	TC32								
55 (Portable)	Vol.		18	MR48	M27			20-20	24	2N509					5	1A7, 1N5, 1H5, 1A5, 6X5	465	§10-8
								75	78	TC2501								
65B	Vol.		141	MR55				24, 24	46	RS219					11	[6]6F5, 6C5, [6]6L6, [2]5Z3		14-1
	Tone		22	MR55				8, 8, 8	46/13	RS213								
								10, 10, 10	15	TC32								
66	Vol.		18	MR48				40	24	TC48			Order from Mfr.		5	1N5, 1A7, 3A8, 1T5, 35Z5	182	14-3
								20	24	TC45								
								10, 10	15	TC29								
								.005		Buffer	B14							
PA115	Mic.		15	MR53				8	24	HS693					14	[6]6F5, [6]6C5, [6]6L6, [3]83		8-2
	Phono.		63	MR53				10	15	TC32								
	Tone		22	MR53				75	15	TC29								
PA613	Mic.		15	MR53				8	46	HS693					6	[6]6F5, 6C5, [6]6V6, 80		
	Phono.		63	MR53				10	15	TC32								
	Tone		22	MR53														
221, 225	Vol.		17	MR48				8, 8	1	RS213			744	C3	7	6A8, 6K7, 6Q7, [6]6V6, 6J5, 6X5	465	14-4
								10, 10, 10	15	TC32								
332	Vol.		15	MR48											9	6A8, [6]6K7, [6]6J7, [25]L6	465	9-1
401	Vol.		18	MR48				10	15	TC22					5	1N5, 1A7, 1N5/1P5, 1H5, 1T5/1Q5	175	11-2
405	Vol.		18	MR48				10	15	TC22					5	1N5, 1A7, 1N5/1P5, 1H5, 1T5/1Q5	175	11-2
411 ("Radio-Dor-Phone")	Vol.		18	MR48	M26			50-20	24	TN129	B8				5	12A8, 12K7, 12SQ7, 50L6, 35Z5	465	12-2
412	Vol.		18	MR48				50-20	24	TN129	B8				7	12A8, 12K7, 12SQ7, 12J5, [2]50L6, 35Z5	465	12-3
413	Vol.		18	MR48	M27			8-8	1	2N518			Order from Mfr.		6	[2]7A7, 7J7, 7B6, 7R5, 7Y4	465	12-3
	Tone		147	MR48				10	15	TC22								
421RD Radio-Dor-A-Fone	Vol.		18	MR48	M26			50-20	24	2N520					5	12A8, 12K7, 12SQ7, 50L6, 35Z5	465	14-5
501	Vol.		12	MR40	M27			10	19	TC32					5	[2]1LC5, 1LA6, 1LH4, 3Q5	152	14-6
588	Vol.	VS588	18	MR48	M26			8-8	1	2N518					5	6A8, 6K7, 6Q7, 6K6, 6X5	456	11-1
								10	15	TC22								
589	Vol.		18	MR48				8-8	1	2N518					5	6A8, 6K7, 6SQ7, 6K6, 6X5	465	12-4
								10	15	TC22								
600	Vol.		17	UM154		See Note A96									5	1C7, 1D5, 1F7, 1H4, 1J6	465	9-2
602	Vol.		17	UM154		See Note A96									6	1C7, 1F7, [2]1D5, [2]1G5	465	9-2
	Tone		21	UM154		See Note A96												
613B	Vol.		141	UC506				10, 10, 10	46	RS215					5	6F5, 6Y7, 6V6G, 6X5G		
	Tone		22	MR48				10, 10	15	TC32								
620	Vol.		17	UM154		See Note A96		8-8-10	1/15	3S579			744		6	6D8, 6S7, 6T7, 6N5, 6K6, 19	465	9-2
	Tone		57	UM154		See Note A96												
622	Vol.		17	UM154		See Note A96		8-8-10	1/15	3S579			744		7	6D8, 6S7, 6T7, 6N5, 6L5, 6Z7, 19	465	9-1
	Tone		21	UM154		See Note A96												
SHAMROCK																		
28-29	Vol.		26	‡		See Note A73		‡	1	See Note	B1				7	[2]7, [2]71A, 80		§4-10
SHELLY																		
5 Kompak	Vol.		6	G7	6	3		4-4	23	2S567					5	6J7, 6K7, 6C5, 6F6, 5W4		7-1
25	Vol.		6	SRP263				20-20	4	TCS45					4	6D6, 76, 25B6G, 25Z5		§9-3

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SHELLY—Continued																		
35C	Vol.		18	MR48				4-4	23	2S567					5	6A7, 6D6, 75, 42, 80	465	8-1
35C-AW, 37C	Vol.		18	MR48				8-4	23	2S567					6	6A7, 6D6, 75, 42, 80, 6G5, Ballast	465	8-2
48	Vol.		45	MR48				8-8-8	25/13	See Note	B3				7	6A8, 6K7, 6H6, 6G5, 6K7, 6K6, 5Z4	458	7-1
	Tone		22	MR33														
48A	Vol.		45	‡		See Note	A19	8-8-8	25/13	See Note	B3				7	6A8, [2]6K7, 6G5, 6H6, 6F6, 5Z4	460	8-1
65	Vol.		18	UM154		See Note	A96	8-8	74	2S567			294	C3	5	6A7, 6D6, 75, 42, 84	460	7-2
67 Auto	Vol.		45	UM154		See Note	A96	8-8	4	2S567			294	C3	7	[3]6K7, 6A8, 6H6, 6F6, 84	460	7-2
	Tone		22	UM133		See Note	A96											
75 Auto	Vol.		18	‡		See Note	A19	8-8	74	2S567			294	C3	5	6A8G, 6K7G, 6Q7G, 6K6G, 6X5G	460	8-2
								.005		Buffer	B14							
SILVER KING (See Appel & Henderson)																		
SILVER-MARSHALL																		
A	Vol.		8	A5MP	6			13177	46	TC70					8	24A, [3]35, 47, 80, [3]27	175	1-30
	Tone		22	MR48				13181	46	TC71								
B	Vol.	4492	8	MR20				13181	46	TC71					6	[3]24A, 27, 35, 47, 80	175	2-6
	Tone	14403	57	MR48				13177	46	TC70								
								13203	17	TC22								
C	Vol.	14419	8	A5MP				13181	3	TC71					12	24A, [3]27, [3]35, [3]47, 80	175	2-7,8
	Tone	14427	‡	MR24				13177	3	TC70								
C w/AVC	Vol.	14427	‡	MR24				13177	34	TC70					12	[3]35, 24A, [3]27, [3]47, 80	175	4-3
	Tone	4507	‡	MR48				13181	34	TC71								
D, E	Vol.		8	A5MP				4-4-4	3	3S584					9	24A, [3]27, [3]35, [3]47, 80	175	1-31
	Tone		34	MR48														
F	Vol.		8	A5MP				4-4-4	3	3S584					7	24A, [3]35, 47, 80, [3]27	175	1-30
	Tone		22	MR48														
G	Vol.	14323	8	A5MP	6			13120	3	3S584					10	24A, [3]27, [3]35, [3]47, 80	175	2-9
	Tone	14371	‡	MR53				13177	13	TC70								
J, JT	Vol.		8	A5MP	6			13181	3	TC71					10	24A, [3]27, [3]35, [3]47, 80	175	2-10
	Tone		22	MR48				13177	3	TC70								
KB (21)	Vol.		9	MR39											8	[3]30, 32, [3]34	175	§9-5
	Tone		57	MR48														
Q with push-pull 47's	Vol.		100	MR39	M26			13181	7	TC71					10	24A, [3]27, [3]35, [3]47, 80	465	4-4
	Tone		22	MR48				13177	7	TC70								
Q with parallel 47's	Vol.		15	MR44	M26			3162	28	TC74					10	24A, [3]27, [3]35, [3]47, 80	465	4-5
	Tone		‡	MR39				13181	28	TC71								
								13177	28	TC70								
Q DeLuxe	Vol.	4360	15	MR44	M26			3162	34	TC74					12	[3]56, [3]58, [3]45, 82	465	2-11,12
	Tone	14438	95	MR39				13177	34	TC70								
	Sen.	4430	7	D				13326	19	TC71								
R, RT	Vol.	4360	15	MR44	M26			3162	4	TC74					10	24A, [3]27, [3]35, [3]47, 80	465	2-13,14
	Tone	14438	95	MR39				13181	4	TC71								
								13177	14	TC70								
V	Vol.	4360	15	MR44	M26			3162	34	TC74					10	[3]56, [3]58, [3]45, 82	465	3-4,5
	Tone	14438	95	MR39				13177	34	TC70								
	Sen.	4430	7	D				13326	19	TC71								
X	Vol.		15	MR44	M26			3162	34	TC74					10	[3]58, [3]56, [3]45, 82	465	
	Tone		95	MR39				13177	34	TC70								
								13326	19	TC71								
Y	Vol.		56	MR44	M26			13181	4	TC71					8	[3]51, 56, 55, [3]47, 80	465	§6-29
	Tone		57	MR48				13177	4	TC70								
Z10	Vol.		15	MR48				8-8	2	2N518					7	2A7, 58, 2B7, 56, [2]2A5, 5Z3	465	4-7
	Tone		57	MR44	M26			8	14	TC71								
								4	15	TC32								
Z13	Vol.		45	MR48	M26			8	34	TC71					13	[3]58, [3]56, [3]59, 5Z3, 57	472.5	4-8
	Tone		85	E12				12	34	TC74								
Z DeLuxe	Vol.		45	MR48				12	34	TC74					13	[3]56, [3]58, [2]2A5, 5Z3, 57	472.5	4-6
	Tone		85	E12				8	34	TC71								
Bearcat Midget	Vol.		8	G				8, 8	1	RS213					8	[3]24A, [3]27, [3]45, 80	175	1-8
	Tone		22	MR53														
30	Vol.		12	A10MP				2-2-4-1	3	See Note	B1				8	[4]24A, 27, [3]45, 80		1-1
30B	Vol.		12	A10MP				2-1-2-4	3	See Note	B1				7	[3]24A, 27, [3]45, 80		1-2
34A (with 33A Pwr. Unit)	Vol.		9	A3MP				4-4-4	34/40	TCS71/TC71					7	[3]24A, [3]45, 80, 27		1-5,6
	Tone		34	MR18				12-8-4	2/19	3S584	B12							
35A (with 33A Pwr. Supply)	Vol.		‡	‡		See Note	A74	4-4-4	34/40	TCS71/TC71					9	[4]24A, [3]27, [3]45, 80		1-5,6
								12-8-4	2/19	3S584	B12							
36A	Vol.		58	D				4-4-4	3	2S567					9	[3]24A, 27, [3]45, 80	175	1-7
37, 38, 39 Midget	Vol.		8	A10MP				8, 8	1	RS213					8	[3]24A, [3]27, [3]45, 80	175	1-8
	Tone		22	MR53														
684 P.E. Amplifier	Vol.	14371	15	MR53				13181	3	TC71					5	24A, 27, [3]47, 80		2-1
								13203	19	TC22								
685 P.A. Amplifier	Vol.		16	MR48				2-6-4	2/19	See Note	B1				5	27, 26, 50, [3]81		1-15
686 Portable P.A. Amplifier	Vol.	14371	15	MR53				13181	3	TC71					5	24A, 27, [3]47, 80		
								13203	19	TC22								
690 Amplifier	Vol.		16	MR39				‡	3	See Note	B1				7	27, [3]26, [3]50, [3]81		1-15
692 Amplifier	Vol.	4491	15	MR48				‡	‡	See Note	B1				6	24A, 45, [3]50, [3]81		1-15

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SILVER-MARSHALL—Continued																		
710 Sargent-Rayment	Vol.		12	A3MP											7	[422,]01A, 12A or 71A		1-16
712 Tuner	Vol.		12	A10MP											4	[3]24A, 27		1-17
714 Tuner	Vol.		58	D											6	[4]24A,[2]27	175	1-18
716 Tuner with 683 Amplifier	Vol.		8	A5MP				13181	3	TC71					10	24A,[2]27,[3]35,[3]47, 80	175	2-2
	Tone		...‡..	MR18				13177	3	TC70								
								13023	15	TC22								
720 AC	Vol.		12	A3MP											6	[3]24A,[3]27, 45		1-19
720 Battery	Vol.		12	A3MP											6	[3]22,[3]01A, 12A		1-19
722	Vol.		12	A10MP				‡	3	See Note	B1				7	[3]24A, 27,[3]45, 80		1-20
722 DC (Battery)	Vol.		12	A10MP											6	[3]22, 01A,[3]12A		1-21
724 AC	Vol.		58	A3MP				4-4-4	3	3S584					9	[3]24A, 27,[3]45, 80	175	1-22
724 DC	Vol.		9	MR35				2-2	12	See Note	B3				8	[4]32,[3]30,[3]31	175	1-23
726 (S.W. & Broadcast)	Vol.	14367	8	A5MP	6			13120	3	3S584					11	[3]24A,[3]35,[3]27,[3]47, 80	175	1-24
727 DC	Vol.		9	MR39											8	[3]30, 32,[3]34	175	
	Tone		57	MR48														
727 SW	Vol.	4360	15	MR44	M26			3162	4	TC74					10	24A,[3]35,[4]27,[3]47, 80	465	2-3,4
	Tone	14438	...‡..	MR39				13181	4	TC71								
728 SW	Vol.		15	MR48	M26			3162	34	TC74					12	[3]58,[3]56,[3]45, 82	465	3-1
	Tone		95	MR39				13177	34	TC70								
	Sen.		7	D				13326	19	TC71								
729 SW	Vol.		45	MR48	M26			8	34	TC71					13	[3]58,[3]56,[2]A5, 5Z3, 57	465	4-2
	Tone		22	E12				12	34	TC74								
738 Converter								8-8	1	2N518					3	24A, 27, 26	1000	1-26
739 Converter								4-4	1	2N518					3	24A, 27, 80	650	1-27
Sheridan 750, 750BS	Vol.		4	D12				2-2-.5	3	See Note	B1				8	[3]26,[3]27,[3]45, 80		
750	Vol.		4	D12				1-1-1-.5	...‡..	See Note	B1				7	[3]26,[3]27, 45, 80		
770 Auto Set	Vol.		7	MR28											5	[3]24A, 12A, 71A		1-29
773 B'cast/Long Wave	Vol.	14342	8	A5MP	6			13120	3	3S584					8	24A,[3]35,[3]27,[3]45, 80	115	2-5
	Tone	4507	22	MR48														
782 Midget	Vol.		8	A10MP				8, 8	1	RS213					8	[3]24A,[3]27,[3]45, 80	175	1-8
	Tone		22	MR53														
1022 (724 AC)	Vol.		58	A3MP				4-4-4	3	3S584					9	[3]24A, 27,[3]45, 80	175	
4801, 4802	Vol.	P4260	15	MR51				P4514	34	TCS71/TC71					10	[3]58,[3]56,[3]59, 5Z3	Early 465	5-1
	Tone	P4259	21	MR39	M26			P4585	15	TN111								
	Sen.	P4923	12	MR24													Late 175	
McMURDO SILVER																		
5D	Vol.		15	MR48				16	3	RS216					10	6B7, 6C6, [4]6D6, [3]76, 42, 5Z3	465	
	Tone		21	MR53				18	3	RS216								
	Sen.		7	G				12	3	RS215								
World Wide Nine	Vol.		18	MR53				8	2	See Note	R3				9	2A7,[4]58, 55,[2]A5, 5Z3	465	§5-12
	Tone		57	MR36				12	2	See Note	B3							
								4	14	See Note	B3							
SILVERTONE (See Sears-Roebuck Co.)																		
SIMPLEX RADIO CO.																		
AA	Vol.		...‡..	UC513				2	12	TC70					4	1A6,[3]1B4, 1F4	456	7-2
								5	19	TC22								
D	Vol.		4	MR21	M26			‡	‡	See Note	B2				8	[3]10, 27,[4]26, 80		1-1
	Sen.		...‡..	‡		See Note	A5											
D (420,001 and up)	Vol.		17	MR48				20-4-5	6/15	TN125					5	6A7, 6K7, 75, 43, 25Z5	456	7-1
	Tone		22	MR39														
D (428,001 and up)	Vol.		17	MR48				20-20	6	2N509					6	6A7, 6K7, 75, 6G5, 43, 25Z5	456	
	Tone		22	MR39				5	15	TC22								
DB, DF (500,001 and up)	Vol.		17	MR48				4-8	1	2N518			245C	C3	5	6D8G, 6S7G, 6Q6G, 6G5, 38	456	
	Tone		22	MR39	M26			.01		Buffer	B14							
DB, DF (775,001 and up)	Vol.		17	MR48				10-20	1	2S569			245C	C3	4	1C6, 34, 1B5, 38	456	
	Tone		22	MR39	M26			.01		Buffer	B14							
G	Vol.		...‡..	Order from	Mfr.			‡	3	See Note	B3				4	45, 27, 24A, 80		1-1
	Tone		44	‡		See Note	A5											
G (703,001 and up)	Vol.		15	MR48				8-8	4	TCS71	B3				6	6A7, 6K7, 76, 6F5, 42, 80	456	7-2
	Tone		34	MR39				5	15	TC22								
G (707,001 and up)	Vol.		15	MR48				16-16-8-4	9/13	See Note	B3				7	6L7, 6D6, 6H6, 6G5, 75, 25B5, 25Z5	456	
	Tone		34	MR39				5	15	TC22								
GB (779,001 and up)	Vol.		17	MR48				8-8	1	2N518			245C	C3	5	1C6, 1A4, 1B5, 30, 19	456	7-2
	Tone		22	MR48				.01		Buffer	B14							
GH (691,001 and up)	Vol.		15	MR48				24-8	‡	2N513					6	6A7, 6K7, 76, 6F5, 43, 25Z5	456	7-2
	Tone		34	MR39				5	15	TC22								
H	Vol.		12	A20MP	6			8-8	1	See Note	B3				5	[3]24A, 45, 80		
	Tone		22	MR48														
H (AC)	Vol.		7	D	6			8-8	1	See Note	B3				5	[3]24A, 45, 80		3-1
	Tone		...‡..	MR48														
HA	Vol.		8	A3MP	6			8-8	1	2N518					5	[3]24, 45, 80		§11-7
	Tone		95	MR48														

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SIMPLEX—Continued																		
J	Vol.		6	D12	6			8-8	1	See Note	B3				6	‡35, ‡24A, 47, 80		3-2
	Tone		22	MR39														
K	Vol.		6	MR18				8-4	4	See Note	B3				5	‡24A, 35, 47, 80	175	3-1
L	Vol.		‡	MR35				4-4-4	26	TCS71/TC71					7	‡35, ‡24A, 47, 80	175	3-2
	Tone		22	MR39														
N	Vol.		6	MR18				8-4	4	See Note	B3				5	‡24A, 35, 47, 80	175	8-1
	Tone		22	MR39														
N (DC)	Vol.		6	MR18											5	‡39, 36, ‡38	175	2-1
	Tone		22	MR39														
NT (902,001 and up)	Vol.		20	MRT431				8, 8	2	TC71					10	6K7, 6L7, 6D6, ‡76, 75, ‡6B5, 80, 6G5	456	
	Tone		34	MR48				5	15	TC22								
OP (550,001 and up)	Vol.		16	MR48				8-8	1	2N518					3	6C6, 6B5, 80		7-1
								50	‡	TC29								
P AC	Vol.		15	MR48				4-4-10	4/19	See Note	B3				5	57, 58, 55, 47, 80	175	2-2
	Tone		22	MR39	‡													
P AC (Above serial No. I62500)	Vol.		15	MR48				4-4	4	TCS71					5	57, 58, 55, 47, 80	175	8-1
	Tone		22	MR39	‡			10	19	TC22								
P AC (Above serial No. 330001)	Vol.		15	MR44				4-4	4	TCS71					5	6A7, 78, 75, 42, 80	456	4-2
	Tone		22	MR39	M27		A75	5	19	TC32								
P Battery	Vol.		9	MR20				8	12	TC52					5	‡34, ‡32, 33	175	4-1, 2-2
	Tone		22	MR39				10	19	TC22								
PB, PF (Serial No. 352001 and up)	Vol.		‡	MR48				20-10-4	1/13	TCD55/TC52		9A	245C	C3	4	6D6, 6A7, 75, 38	‡	
	Tone		‡	MR39	M26			.01		Buffer	B14							
PH (690,001 and up)	Vol.		17	MR48				15-8-8	11	2N509/TC42	B3				5	6A7, 6D6, 75, 43, 25Z5	‡	
	Tone		22	MR39				5	15	TC22								
P 32V (No. 350001 and up)	Vol.		15	MR44				6-10	1	See Note	B3		Order from Mfr.		5	6A7, 78, 75, 42, 84	456	4-2
	Tone		22	MR39	M27		A75	5	15	TC22								
								.05-.05		Buffer	B14							
P Dual Band (Above serial No. 600001)	Vol.		17	MR48				8-8-4	4/13	3S584					5	6A7, 6D6, 75, 42, 80	456	6-1
	Tone		22	MR39	M26			5	15	TC32								
P Battery (Above serial No. 173501)	Vol.		9	Y250MP				5	19	TC32					5	1A6, 34, 32, 19, 30	456	4-4
	Tone		22	MR39														
P 1931	Vol.		6	MR18				8-4	4	See Note	B3				5	‡24A, 35, 47, 80	175	4-3
	*Tone		22	MR39	M28													
Q 1931	Vol.		6	MR18		EX350		8-4	4	See Note	B3				5	‡24A, 35, 47, 80	175	4-3
	Tone		22	MR39														
Q (378,001 and up)	Vol.		17	UM154		See Note	A96	10-6	1	2N518	B3		294	C3	6	6K7, 6A8, 78, 75, 6N6, 0Z4	175	7-2
								5	15	TC22								
								.01-.01		Buffer	B14							
R	Vol.		6	MR18		EX350		8-4	4	See Note	B3				4	58, 57, 47, 80		4-1
	Tone		22	MR39	M27		A75											
R AC (Above No. 320001)	Vol.		6	MR18				AB108	4	TCS71					4	78, 77, 42, 80		4-4
	Tone		22	MR39	M27		A75											
R DC	Vol.		6	MR18			A14								4	39, 36, ‡38		8-2
	Tone		22	MR39	M27		A75											
RJH (300,001 and up)	Vol.		17	MR48				20-20	1	2N509					5	6A7, 6K7, 6Q7, 25B5, 25Z5MG	456	
								5	15	TC22								
RK, RKE, RKS (760,001 and up)	Vol.		6	MR39		EX300		15-8	6	2N509					4	6D6, 6C6, 43, 25Z5MG		7-1
								5	15	TC22								
T	Vol.		17	UM154		See Note	A96	6-10	1	TCD62			292	C3	6	‡78, 6A7, 75, 41, 84	‡	4-5
								5	15	TC22			245C	C14				
								.05-.05		Buffer	B14							
TA	Vol.		17	UM154	M26	See Note	A96	8-8	1	See Note	B3	V7	248	C3	4	6A7, 78, 6B7, 41	456	
								5	15	TC22								
								.0125-.0125		Buffer	B14							
U AC-DC Receiver	Vol.		6	MR42			A14	20-4	6	2N509					5	78, 44, 77, 43, 25Z5	456	4-6
								5	15	TC22								
U AC-DC (Late)	Vol.		17	MR48				5-20-8	11	UR182	B3				5	75, 6A7, 6D6, 43, 25Z5	456	6-2
								5	15	TC22								
UE, AC-DC Serial 215001	Vol.		17	MR48				5-20-8	11	UR182					5	6A7, 6D6, 75, 43, 25Z5	456	6-2
								5	15	TC22								
UX52	Vol.		17	MR48				4-8	30	TCS71					8	‡6D6, 6A7, 75, ‡42, 80	‡	
	Tone		22	MR39				8-8	30	TCS71								
								5	15	TC22								
V AC-DC Receiver	Vol.		7	MR40				20-4	6	2N509					4	44, 77, 43, 25Z5		4-6
								5	15	TC22								
V All-Wave	Vol.		12	MR48				40-8	6	2N514					4	6F7, 77, 43, 25Z5		
								5	15	TC22								
W All-Wave	Vol.		17	MR48				4-8-4	26	See Note	B3				8	‡78, 85, 37, ‡42, 80	456	5-1
	Tone		41	MR39														
X	Vol.		6	MR18		EX200		4-4	4	TCS71					5	‡6D6, 6C6, 42, 80		5-1
								5	15	TC32								
								5	19	TC32								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SIMPLEX—Continued																		
Z, ZS, ZE (321,001 and up)	Vol.		6	MR39		EX300		15-8-5-5	24/15	3S582/TN111	B5				3	6D6, 6C6, 12A7		7-1
4Z	Vol.		6	MR39	M26			15-8-5-5	24/15	3S582/TN111					4	6C6, 78, 38, 76		
5DE (780,001 and up)	Vol.		17	MR48				20-4-5-5	6/15	3S582/TN111	B5				5	6A7, 6D6, 75, 43, 25Z5	456	
	Tone		22	MR39	M26													
6A	Vol.		12	‡	6	See Note	A5	‡	3	See Note	B1				6	45, 27, [1]24A, 80		1-2
6GH (691,000 and up)	Vol.		‡	MR48				8-8-24	‡	See Note	B3				5	6A7, 6D6, 85, 76, 43, 25Z5	456	
	Tone		‡	MR39	M26			5	15	TC22								
8J (765,001 and up)	Vol.		17	MR48				4-8	30	2N518					8	[2]6D6, 6A7, 75, [1]42, 80	‡	
	Tone		22	MR39				8	30	TC71								
								5	15	TC22								
8J (765,361 and up)	Vol.		17	MR48				4-8	1	2N518					8	[2]6D6, 6A7, 75, 76, [2]6B5, 80	456	
	Tone		22	MR39				8	13	TC71								
								5	15	TC22								
8JM	Vol.		‡	MR39			A17	4-8	1	2N518					8	[2]6K7, [1]6A8, [2]6F6, 5Z4	‡	
	Tone		22	MR39				8	13	TC71								
								5	15	TC22								
SKY HAWK—See Airking																		
SKY KING—See Airking																		
SKY ROVER	Vol.		6	MR18				4-8	4	TCS71					4	35, 24, 47, 80		§4-11
SOLAR																		
062	Vol.		45	MR48				4	15	TC32			Order from Mfr.		6	[3]39, 36, 37, 38	262	§5-18
062A, 3622A	Vol.		45	MR48				4	15	TC32			Order from Mfr.		6	[3]39, 36, 37, 41	262	
	Tone		34	MR42														
SONGBIRD—See Airking																		
SONORA																		
A11	Vol.	V6	6	MR28	M26	EX200		235	8	Order from	Mfr.				4	6D6, 6C6, 25L6G, 25Z5, K55B		
A30, A32	Vol.		10	Order from	Mfr.			2-1-1-3	3/13	See Note	B1					‡		1-4,5
	Sen.		7	2M		See Note	A3											
A36	Vol.		10	Order from	Mfr.			2-2-1-3	37	See Note	B1					‡		1-7
	Sen.		7	2M		See Note	A3											
A40	Vol.		10	Order from	Mfr.			2-1-1-3	3/13	See Note	B1					‡		1-8,9
	Sen.		7	2M		See Note	A3											
	Phono.		63	‡		See Note	A5											
A46	Vol.		10	Order from	Mfr.			2-3-1-3	37	See Note	B1					‡		1-7
	Sen.		7	2M		See Note	A3											
B31 (25 cycle)	Vol.		12	A2MP				8-8	1	See Note	B3				8	[1]24, 27, [3]45, 80		1-6
E AC	Vol.		14	MR48				2-2-7	3	See Note	B1				7	[1]26, 27, 71A, 80		
P101	Vol.		‡	MR48				16-8	1	3S584	B8				3	6C6, 6A3, 83		8-2
	Tone		57	MR39				10	15	TC44								
P300	Vol.		50	MR48				60	1	FP115					5	6C5, [3]25L6, [3]25Z5		8-2
	Tone		57	MR39				16	1	TC44								
								8	13	TC42								
PR101, PR202 (AC)	Vol.		18	MR48				5-5	23	TCS71	B3				5	6A7, 6D6, 75, 41, 84	456	8-1
PR101, PR300, PR400 (AC-DC)	Vol.		17	MR48				8-16	1	3S584	B8				5	6A7, 6D6, 75, 25L6, 25Z5		
	Tone		147	MR53				5	15	TC22							456	8-1
2RP (25 cycle)	Vol.		10	Order from	Mfr.			2-1-1-3	3/13	See Note	B1					‡		1-12
	Sen.		7	2M		See Note	A3											
	Phono.		63	‡		See Note	A5											
3RP	Vol.		10	Order from	Mfr.			3-2-1-3	37	See Note	B1					‡		
	Sen.		7	2M		See Note	A3											
	Phono.		63	‡		See Note	A5											
3R, 4R	Vol.		10	Order from	Mfr.			2-1-1-3	3/13	See Note	B1					‡		1-1
	Sen.		7	2M		See Note	A3											
5R (Arcturus Tubes)	Vol.		10	Order from	Mfr.			2-3-1-3	37	See Note	B1					‡		1-2
	Sen.		7	2M		See Note	A3											
7P Elec. Phonograph	Phono.		63	‡		See Note	A5	2-3-1-3	37	See Note	B1					‡		1-3
DeLuxe 44	Vol.		10	Order from	Mfr.			2-3-1-3	37	See Note	B1				10	[1]RA1, [2]DE1, [2]SO2, [2]RE2		1-10
	Sen.		7	2M		See Note	A3											
	Phono.		63	‡		See Note	A5											
64	Vol.		6	MR15		EX350		8-8-8	28	RM265					7	[2]24A, 27, [2]45, 80		3-1
	Tone		41	MR48														
70	Vol.		15	MR53				8-8	1	2N518					8	[2]35, [2]27, 47, 80	262	3-3,4
	Tone		34	MR42														
71, 72, 73	Vol.		15	MR53				8-8	1	2N518					10	[1]27, [2]35, [2]47, 80	262	2-1
	Tone		44	MR42				8	15	TC71								
								8	13	TC71								
74	Vol.		6	MR15		EX350		8, 8	1	RS213					5	[2]24, 47, 80		3-2
84, 85	Vol.		6	MR15		EX350		4-8	1	2N518					5	[2]24A, 35, 47, 80	262	2-2,3
86, 87	Vol.		15	MR48				4-2-4	28	3S584					7	[2]35, [2]24A, 27, 47, 80	262	2-4,5
	Loc'lzr.		‡	Y200MP														
	Tone		34	MR42														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SONORA RADIO & TELEVISION																		
A11	Vol.	V6	6	MR28	M26	EX200		235	8	Order from Mfr.					4	6D6, 6C6, 25L6G, 25Z5		
AU10	Vol.	N1238	18	Order from Mfr.				N1236 .008-.008	24/15	FP328 Buffer	B117 B14	N1236	264	C3	4	6A8GT, 6K7GT, 6Q7GT, 6K6GT	456	11-1
B	Vol.	V20	18	MR53	M26			C237	46	FP357					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G, K49B/165R4G	456	
BA (Ch. A, B, D-D)	Vol.	V20	18	MR53	M26			C237	46	FP357					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G, K49B/165R4G	456	
BA (Ch. D)	Vol.	V20	18	MR53	M26			C237	46	FP357					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G, K49B/165R4G	456	
	Tone	V109	22	MR28			A90											
BE	Vol.	V20	18	MR53	M26			C237	46	FP357					5	6K8, 6K7, 6Q7G, 25L6G, 25Z6G	456	11-2
BJE	Vol.	N2257	18	MR48	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-3
BJI	Vol.	N2257	18	MR48	M26			N2015	24	2N514					5	12SA7/12SA7GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-4
BS	Vol.	V20	18	MR53	M26			C237	46	FP357					5	6K8, 6K7, 6Q7G, 25L6G, 25Z6G	456	11-2
E, EA (1938)	Vol.	V20	18	MR53	M26			C238	1/19	FP332					5	6K8, 6K7, 6Q7G, 25A6G, 25Z6G, K49C/165R8G	456	
	Tone	V15	‡	MR48														
F	Vol.	V20	18	MR53	M26			C239	1/13	FP367					7	6K8, 6K7, 6Q7G, 6J5G, ‡25A6G, 25Z6G	456	
	Tone	V15	‡	MR48														
G, GA	Vol.	V22	124	MRT427	M26			C246	54	RS215					9	6K8, 6H6, 6K7, ‡6J5G, ‡6F6G, 5Y3G	456	
	Tone	V111	22	MR48				C245	54	See Note	B3							
								C247	20	TC26								
KB73	Vol.	N2623	18	UM161-SS18				N2748	24/12	FP304					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	456	11-5
KD75	Vol.	N2623	18	UM161-SS18				N2627	46/78	FP304/TC47	B128				6	1A7GT, 1N5GT, 1H5GT, 1A5GT, 50L6GT, 35Z5GT	456	11-6
KE78	Vol.	N2876	18	UM154-SS18	M26			N2915	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-7
KF, KFU	Vol.	N3728	‡	UM129-SS25	M26	EX100		N3734	24/15	3N533					4	12SK7GT, 12SJ7GT, 50L6GT, 35Z5GT		12-4
KL185	Vol.	N4462	18	MRT427	M26			N2947	1	FP234					9	6SA7, 6SK7, 6J7, 6B8G, ‡6K6GT, 6U5 or 6G5, 6SQ7, 5Y3G	456	13-11,10
	Tone	N3369	22	MR53				N2946	13/15	TC72/‡TC26								
	Mic.	N2963	15	MR44														
KNF, KNFU	Vol.	N3045	18	UM154-SS22	M26			N3114	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-3
KTU	Vol.	N3307	18	MK401	M26			N3302	24	TC48/TC47					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	12-4
KU9	Vol.	N1238	18	Order from Mfr.				N2795 .013-.013	24/15	3N527 Buffer	B14	N2794	264	C3	4	6SA7, 6SK7, 6SQ7, 6K6GT	456	11-9
KVU85, KVU97, Phono Oscillator								N1675	12	TC47					2	50L6GT, 35Z5GT		12-9
KWU78 (Phono)	Vol.	N3248	50	MK401	M26			N3617	24/15	2N511/TC26					2	50L6GT, 35Z5GT		13-5
KWU79 (Phono)	Vol.	N1864	50	MR48	M26			N3617	24/15	2N511/TC26					2	50L6GT, 35Z5GT		13-5
KXF, KXFU	Vol.	N2982	106	MR48	M26			N2437	10/15	FP331	B128				6	6SA7GT, 6SK7GT, 6SQ7GT, 25C6G, ‡25Z6GT	456	12-5
	Tone	N3369	106	MR53				N2436	10	TC47								
KY, KYU	Vol.	N2982	106	MR48	M26			N3688	1	FP234					7	6SA7, 6SK7, ‡6SQ7, ‡6K6GT, 5Y4G	456	12-6
	Tone	N3369	106	MR53														
KZ	Vol.	N3411	18	MR53	M27			N1367	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	456	14-1
L	Vol.	V18	18	MR48	M27			C230	12	TC42					4	1C7G, 1D5GP, 1F7G, 1G5G	456	
LC, LCU	Vol.	N3065	18	UM154-SS22	M26			N3440	23	TCS64					6	6A8GT, 6SK7GT, ‡6Q7GT, 6K6GT, 6X5GT	456	13-1,2
LD, LDU	Vol.	N3065	18	UM154-SS22	M26			N3658	24	FP214					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	12-7
LKS, LKSU	Vol.	N4071	18	MK401	M26			N4015	1	2N511					6	12SA7, ‡12SK7, 12SQ7, 35L6GT, 35Z5GT	456	13-2,3
LMS, LMSU	Vol.	N3877	18	MK401	M26			N3302	24	2N511					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	13-2,3
LQS, LQSU	Vol.	N4014	18	MK401	M26			N4015	24	2N511					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	13-2
LR	Vol.	N2623	18	UM161-SS18				40-20-100	76	See Note	B3				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	456	13-4,2

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SONORA RADIO & TELEVISION—Continued																		
LV181, LV186	Vol.	N4398	18	Order from	Mfr.			N4429	1/15	TCD74/TC26					7	6SD7GT, 6SK7GT, 6J5GT, ³6SQ7GT, 6K6GT, 5Y3G/GT	456	13-9,10
	Tone	N4399	‡	Order from	Mfr.													
LW	Vol.	N4398	18	Order from	Mfr.			N4411	1/15	TCD72/TC26					7	6SD7GT, 6J5GT, 6SK7GT, ³6SQ7GT, 6K6GT, 5Y3G/GT	456	14-2
	Tone	N4399	‡	Order from	Mfr.													
LWU	Vol.	N4398	18	Order from	Mfr.			N4429	1/15	TCD74/TC26					7	6SD7GT, 6J5GT, 6SK7GT, ³6SQ7GT, 6K6GT, 5Y3G/GT	456	14-2
	Tone	N4399	‡	Order from	Mfr.													
LZ	Vol.	N3411	18	MR53	M27			N1367	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	456	13-10,2
M	Vol.	V20	18	MR53	M26			C236	46	FP360		F4	246	C3	4	6A8G, 6K7, 6Q7G, 6G6G	456	
								.01-.01		Buffer	B14							
MTF164	Vol.	N2876	18	UM154-SS18	M26		A4	N2915	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	13-8,2
	Vol.	N3248	18	MK401	M26		A27											
P	Vol.	V23	6	UM129-SS18	M26	EX200		C233	46	TN125					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT		11-10
PL29	Vol.	N1546	18	MR48	M27			N1367	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	
PL37	Vol.	N1738	18	MK401	M27			N1367	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	
PS	Vol.	V13	18	MR48	M26			C240	24	TC44					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	
								C230	18	TC42								
Q, QA	Vol.	V20	18	MR53	M26			C242	1	FP225		F4	246	C3	6	6D8G, 1H4G, 6S7G, 6T7G, 6L5G, 1J6G	456	11-12
	Tone	V110	22	MR48				.01-.01		Buffer	B14							
R, RA	Vol.	V13	18	MR48	M26			C241	6	2N514					7	6K8, 6K7, 6Q7G, 6J5G, ²25L6G, 25Z6G, BK17E	456	
	Tone	V15	‡	MR48														
SL	Vol.	N1373	18	MR48	M27			N1367	12	TC42					5	1A7G, 1N5G, 1H5G, ²1A5G	456	11-13
	Tone	N1454	22	Order from	Mfr.													
SM	Vol.	N1320	18	MR53	M26			N1468	46	FP360		N1431	859	C3	5	6A8G, 6K7, 6Q7G, 6G6G, 6ZY5G	456	11-14
	Tone	N1454	22	Order from	Mfr.			.01-.01		Buffer	B14							
TB	Vol.	N1734	17	MR48	M26			N1755	24/13	TN129					7	6A8G, 6K7G, 6Q7G, 6J5G, ²25L6G, 25Z6G	456	11-15
	Tone	N1735	44	SRP263														
TC	Vol.	N1320	18	MR53	M26			N1312	1	FP217	B128				5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G	456	11-16
	Tone	N1321	‡	Order from	Mfr.													
TD	Vol.	V22	45	MR48	M26			C237	46	FP357					7	6A8G, 6K7G, ³6J5G, 6F5G, 25L6G, 25Z6G	456	11-17
	Tone	V109	22	MR28			A90											
TE38, 40, 41	Vol.	N1864	50	MR48	M26			N1866	24/15	3N533						70L7GT		
TF39	Vol.	N1738	18	MK401	M27			N1367	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	12-13
TH46	Vol.	N2056	18	UM154-SS18				N1367	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	456	11-19
TJ62, 63	Vol.	N2257	18	MR48	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-20
TJF68	Vol.	N2257	18	MR48	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-21
TK44	Vol.	N2013	6	UM128-SS18	M26	EX200		N1850	24/15	3N533					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT		
TKE	Vol.	N1537	6	UM129-SS18	M26	EX200		N2380	24/15	3N533					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT		11-22
TL	Vol.	N1373	18	MR48	M27			N1367	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	11-13
TM	Vol.	N1320	18	MR53	M26			N1468	46	FP360		N1475	246	C3	4	6A8G, 6K7, 6Q7G, 6G6G	456	11-24
								.01-.01		Buffer	B14							
TN45	Vol.	N2070	18	UM154-SS18	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-20
TNE	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-25
TNF60	Vol.	N2070	18	UM154-SS18	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-26
TNF68	Vol.	N2257	18	MR48	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-26
TP108	Vol.	N1537	6	UM129-SS18	M26	EX200		N1850	24/15	3N533					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT		
TPE	Vol.	N2013	6	UM128-SS18	M26	EX200		N2380	24/15	3N533					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT		11-22
TR53	Vol.	N2163	18	MR48	M26			N2206	24	2N514					6	12A8GT, 12K7GT, 12J5GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-27
	Tone	N2157	22	MR28														
TS	Vol.	N1434	6	Order from	Mfr.			N1366	1	2N514					5	6A8GT, 6K7GT, 6J5GT, 25L6GT, 25Z6GT	456	11-16

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SONORA RADIO & TELEVISION—Continued																		
TSA105	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-20
TSB47	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-8
TSBU	Vol.	N1955	18	MK401	M26			N2599	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-8
TSG-R "Globe Navigator"	Vol.	N2745	18	MR48	M26			N2763	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-1,2
TSU105	Vol.	N1955	18	MK401	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-8
TT52, 64, TTU64	Vol.	N2223	127	MR53	M26			N2224	4	2S567					5	6A8G, 6K7G, 6Q7G, 6K6G, 80	456	11-28
TV48, TVU48	Vol.	N2173	6	UM128-SS22	M26	EX350		N2174	24/15	3N533					4	12A8GT, 12SJ7/ 12SJ7GT, 50L6GT, 35Z5GT	456	12-9
	Vol.	N2506	6	UM133-SS22	M26	EX350												
TW49, TWU49	Vol.	N2087	18	UM154-SS22	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-28
	Vol.	N2522	18	UM154-SS22	M26													
TX53, 58	Vol.	N2411	106	MR48	M26			N2437	10/15	FP319	B128				6	6A8GT, 6K7GT, 6Q7GT, 25C6G, [2]25Z6G	456	11-29
	Tone	N2435	106	UM160-SS1				N2436	10	TC47								
TXF67	Vol.	N2411	106	MR48	M26			N2437	10/15	FP319	B128				7	6A8GT, 6K7GT, 6Q7GT, 6G5, 25C6G, [2]25Z6G	456	12-11
	Tone	N2435	106	UM160-SS1				N2436	10	TC47								
TY54	Vol.	N2282	17	MR48	M26			N2283	1	FP225	B128				7	6A8G, 6K7G, 6Q7G, [2]6K6G, 6J5G, 80	456	11-30
	Tone	N2281	44	MR40														
TZ56	Vol.	N2482	45	MRT440				N2459	25	TC74					12	6A8GT, 6SK7, [1]76, [2]6F6G, 80	456	12-10
	Tone	N2483	‡	UC513				N2460	25	TC74								
W17, W19, W24 Phono. Oscillator								N1675	12	TC47						32L7GT		12-13
XL28	Vol.	N1504	18	UM154-SS18	M27			N1367	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	
SPARKS-WITHINGTON—See Sparton.																		
SPARTA—See Simplex																		
SPARTON																		
AC7	Vol.	A3491	7	SRP154				2-2-2	3	See Note	B1				8	[3]C401, [2]71A or C181, BH		1-5
AR19	Vol.	A5405	11	Order from	Mfr.										5	[1]24A, 12A		1-1
AR50, AR50A	Vol.	A5405	11	Order from	Mfr.										5	[1]24A, 27, 12A		1-1
AC62, AC63	Vol.	A3491	7	SRP154				2-2-2	3	See Note	B1				8	[3]C401 or C373, [2]71A or C181, BH		1-5
5, 9	Vol.	A6634	8	H	6	RS244		A6610	1	TC70					5	[1]35, 27, 45, 80		2-1
								A6611	11	TC71								
6F1	Vol.	A15144	18	UM151-SS3	M26			A15946	24/15	FP328		A15949	859	C3	6	[2]7A7, 7B8, 6SQ7GT, 6K6GT, 6X5GT	455	
	Sen.	A15962	7	Order from	Mfr.			.003		Buffer	B14							
6F1D	Vol.	R15142	18	TM225-SS3	M26			A15946	24/15	FP328		A15949	859	C3	6	[2]7A7, 7B8, 7B6, 7C5, 7Y4	455	
	Tone	R15143	34	Order from	Mfr.			.003		Buffer	B14							
	Sen.	R15962	7	Order from	Mfr.													
7EW36, 7-36	Vol.	A15140-3	18	MK403				A14684-7	46	FP390					7	[2]6SK7GT, 6SA7GT, 6SQ7GT, [2]6F6G, 5Y3G	456	14-1,2,3
	Tone	A15128-8	130	MK400	M26			A14782-8	14	TC71								
8 Series	Vol.	A15140-2	18	MK403				A14684-7	3	FP390					8	[2]7A7, 7Q7, 7B6, [2]6F6G, 6U5, 5Y3G	456	13-1,2,3
	Tone	A15129-12	57	MK401	M26			A14782-8	13	TC71								
								A14782-6	15	TC29								
								A14782-9	15	TC26								
8W31	Vol.	A15140-2	18	MK403				A14684-7	3	FP390					8	[2]7A7, 7Q7, 6U5, 7B6, [2]6F6G, 5Y3G	456	14-4,5,6
	Tone	A15129-12	57	MK401	M26			A14782-8	13	TC71								
								A14782-6	15	TC29								
								A14782-9	15	TC26								
8-36	Vol.	A15140-3	18	MK403				A14684-7	46	FP390					8	[2]6SK7GT, 6SA7GT, 6SQ7GT, 6U5 or 6G5, [2]6F6G, 5Y3G	456	14-1,2,3
	Tone	A15128-8	130	MK400	M26			A14782-8	14	TC71								
8-61, 8W61	Vol.	A15140-2	18	MK403				A14684-7	3	FP390					8	[2]7A7, 7Q7, 6U5, 7B6, [2]6F6G, 5Y3G	456	14-4,5,6
	Tone	A15129-12	57	MK401	M26			A14782-8	13	TC71								
								A14782-6	15	TC29								
								A14782-9	15	TC26								
8W71	Vol.	A15140-2	18	MK403				A14684-7	3	FP390					8	[2]7A7, 7Q7, 6U5, 7B6, [2]6F6G, 5Y3G	456	14-4,5,6
	Tone	A15129-12	57	MK401	M26			A14782-8	13	TC71								
								A14782-6	15	TC29								
								A14782-9	15	TC26								
9-30	Vol.	A3491	7	SRP154				‡	46	See Note	B1				9	[1]485, [1]482B8, 80		
9A	Vol.	A5663	24	DRP246	6			B2327	1	3S584	B8				6	[1]24A, 27, [1]483, 80		2-2

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPARTON—Continued																		
9X	Vol.	A8516	109	MR44		RS244	A24	A8123-1	4	TC82					8	²58, 24A, ²56, 47, 80	172.5	2-6,7
	Tone	A8517	34	MR33	M26	RS244	A24	A9019A	4	TC71								
	Supp.	A8652	7	D			A77											
10	Vol.	A7000	7	A2MP		RS244	A24	B2748A	1	3S584					7	²35, ²27, 47, 80	172.5	2-3,4
	Tone	A6926	22	MR33		RS244	A24											
11-36	Vol.	A15141-1	18/15	Order from	Mfr.			A14684-7	3	FP390					11	²7A7, 7Q7, ²7B6, 6SJ7GT, 7A4, ²6V6G, 6U5/6G5, 5Y3G	456	13-4,5,6
	Tone	A15128-6	44	MK400	M26			A14782-8	13	TC71								
								A14782-6	15	TC29								
								A14782-7	15	TC22								
12	Vol.	A7903	4	DRP169		RS244	A24	4	4	TC70					5	²24A, 35, 47, 80	172.5	2-5,6
	Tone	A9017	22	MR33		RS244	A24	7	4	TC71								
13, 14, 14A	Vol.	A8516	109	MR44		RS244	A24	A8123-1	4	TC82					8	²58, 24A, ²56, 47, 80	172.5	2-6,7
	Tone	A8517	22	MR33	M26	RS244	A24	A9019A	4	TC71								
	Supp.	A8652	7	D			A77											
15	Vol.	A7180	7	UC500		RS244	A24	B2748A	1	2N518					8	²35, ²27, 47, 80	172.5	2-8,9
	Tone	A6926	22	MR33		RS244	A24	A6611	‡	TC71								
15X	Vol.	A8516	109	MR44		RS244	A24	A8123-1	4	TC82					8	²58, 24A, ²56, 47, 80	172.5	2-6,7
	Tone	A8517	34	MR33	M26	RS244	A24	A9019A	4	TC71								
	Supp.	A8652	7	D			A77											
16, 16AW	Vol.	A7935	111	G	6			A8123-1	26	TC82					9	²27, ²35, ²47, 80	172.5	2-10,11
	Tone	A7896	44	MR33				A6611A	26	TC71								
17, 18	Vol.	A8513-A-1	111	A10MP	6	RS244	A24	A8123-1	26	TC82					10	²58, 24A, ²56, ²47, 80	172.5	4-1,3
	Tone	A8514	22	MR39		RS244	A24	A6611A	26	TC71								
	Supp.	A8515	‡	UC508			A94											
19A	Vol.	A5405	11	Order from	Mfr.										5	²24A, 12A		1-1
25, 26, 26AW	Vol.	A7029A	32	A5MP	6	RS244	A24	A6884	28	RM265					10	²35, ²27, ²45, 80	172.5	2-14,15
	Tone	A7028	44	MR33		RS244	A24											
27	Vol.	A8670	111	C		RS244	A24	A8123-1	26	TC82					13	²58, 24A, ²56, ²47, ²80	172.5	3-1,2
	Tone	A8514	22	MR39		RS244	A24	A6611A	26	TC71								
	Supp.	A8515	32	UC508			A94											
27A	Vol.	A8513A	111	A10MP	6	RS244	A24	A8123-1	26	TC82					13	²58, 24A, ²56, ²47, ²80	172.5	4-1,5
	Tone	A8514	22	MR39		RS244	A24	A6611A	26	TC71								
	Supp.	A8515	32	UC508			A94											
28	Vol.	A8513A	111	A10MP	6	RS244	A24	A8123-1	26	TC82					13	²58, 24A, ²56, ²47, ²80	172.5	4-6
	Tone	A8514	22	MR39		RS244	A24	A6611A	26	TC71								
	Supp.	A8515	32	UC508			A94											
28X	Vol.	A8513-A-1	111	A10MP	6	RS244	A24	A8123-1	26	TC82					10	²58, 24A, ²56, ²47, 80	172.5	4-2,3
	Tone	A8514	22	MR39		RS244	A24	A6611A	26	TC71								
	Supp.	A8515	‡	UC508		See Note	A94											
30, 30A, 30B	Vol.	A7029A	111	A5MP	6	RS244	A24	A6884	28	RM265	B65				10	²35, ²27, ²45, 80	172.5	2-17,22
	Tone	A7028	44	MR33		RS244	A24											
	Phono.		63	MR33			A37											
31, 32	Vol.	A5248	12	UC507											6	²32, 30, 31		1-4
33	Vol.	A9458	83	MR44				A8907	1	TC71		B5417	292	C3	6	²39, 36, 85, 41, 84	172.5	4-7,8
								A9308	15	TC26								
								.02		Buffer	B14							
33A, 33B	Vol.	A10216-1	15	UM147-SS3	M26			A10277	1	2N518		B5417	292	C3	6	²78, 36, 75, 41, 84	172.5	7-1,2
								A9308	15	TC26								
								.02		Buffer	B14							
34	Vol.	A8587	15	MR44											7	²39, 36, ²0, ²38, 37	172.5	3-3,4
35	Vol.	A6941	111	Y5MP		RS244		2-4-1	3	See Note	B2				13	²35, ²27, ²50, ²81	172.5	3-5,6
	Tone		44	MR33			A77											
	Phono.	A6694	63	MR33			A77											
36	Vol.	A10310	83	MR44	M26			A10001	46	3S584		A10345	222		7	²78, 36, 85, 37, 89, 79	172.5	4-9
								A10308	15	TN111								
40 Auto	Vol.	A7210	15	MR44											6	²36, 37, 38		2-30
41 Police Auto	Vol.	A7808	7	Order from	Mfr.										5	²36, 37, 38		2-31
41A	Vol.	A7808	7	Order from	Mfr.										5	²39, 36, 12		4-1
42	Vol.	A8938	15	MR44											6	²39, 36, 38, 37		8-8
43 Police Auto	Vol.	A8938	15	MR44											6	²39, 36, 37, 38		4-10
43S, 43S-1600, 43S-2400	Vol.	A8938	15	MR44											6	37, ²39, 36, 41 or 42		
45	Vol.	A7029A	111	A5MP	6	RS244	A24	A6884	28	RM265	B65				10	²35, ²27, ²45, 80	172.5	2-32,33
	Tone	A7028	44	MR33		RS244	A24											
	Phono.		63	W														
46P	Vol.	A10216-1	17	MR44	M26			A9308	15	TC26					5	²78, 36, 75, 42	172.5	9-1
49	Vol.	A3491	26	SRP154											9	²C486, ²01A, 71A		1-5
AR50, AR50A	Vol.		11	MR55		See Note	A77								5	²24, 27, 12A		1-1
51, 52	Vol.	A5248	12	UC507											6	²32, 30, 31		2-34,35
	Tone	A7595	22	MR33		See Note	A4											
53 AC-DC	Vol.	A11480	17	MR48	M26			A11093-1	11	UR182	B31				5	²78, 75, 43, 25Z5	456	5-1,3
54	Vol.	A8516	56	MR44		RS244	A24	A8907	12	TC71					8	²34, 25S, ²30, 32	172.5	3-7,8
	Tone	A8932	44	MR33	M27	RS244	A24											
55 Police Desk	Vol.	A5608	26	UC513				B2948	1	3S584					6	²24A, 27, C183, 80		2-36, 1-6
	Relay		‡	‡		See Note	A5											
56	Vol.	A7006	7	C	6		A77	B2748A	1	3S584					7	²35, ²27, 47, 80	172.5	2-37,38
	Tone	A6926	22	MR33		RS244	A24											
57, 57A, 57B (AC-DC)	Vol.	A11480	17	MR48	M26			A11093	11	UR182	B31				5	²78, 75, 43, 25Z5	456	5-3,5
58	Vol.	A10316	40	MR24		RS244	A24	A10318	12	TC70					5	1A6, ²32, 30, 33	456	6-1,2
60 S.W. Converter								A6611-2	1	TC71					4	²24A, 27, 80		2-39
61, 61A, 61B, 62	Vol.	A9579	17	MR44	M26			A9550	11	UR182	B31				5	²78, 75, 43, 25Z5	456	4-11

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS						
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
SPARTON — Continued																		
65, 66, 65T, 66T	Vol.	A11492	17	MR44	M26			A11093	11	UR182	B31				6	[3]78, 75, 43, 25Z5	456	5-7,9
67, 68, 68XS	Vol.	A11245	17	MR44	M26			A11223-1	1	RM262					6	[3]78, 6A7, 75, 42, 80	345	5-10,12
								A11224-1	13	TC70								
								A10377	15	TC22								
69	Vol.	A3491	7	SRP154				‡	‡	See Note	B1				8	[6]484, 585, 80		1-7
70	Vol.	A11575	17	UM147-SS2	M27			A11623	12	TC52					7	[3]34, 1C6, 1A6, 30, 19	345	6-3,4
								A10377	19	TC22								
71, 71B	Vol.	A10014	18	UM147-SS2	M26			A9754	4	RM262	B73				6	[2]6D6, 6C6, 75, 42, 80	456	4-12
72	Vol.	A10031	56	MR44	M26		A77	A9754	4	RM262	B73				7	[2]6D6, 85, 42, 37, 80	172.5	4-13
	Supp.	A10135	58	E			A77											
72PQ (Police)	Vol.	A10031	56	MR44	M26		A77	A9754	4	RM262					8	[2]6D6, 37, 85, 6C6, 42, 80	172.5	
	QAVC	A10953	12	MR33			A77	A10377	‡	TC22								
73	Vol.	A9755	17	MR44	M26	RS244	A24	A9754	4	RM262					6	[2]6D6, 37, 75, 42, 80	456	7-4,6
73AX, 73BX	Vol.	A9755	17	MR44	M26	RS244		A9754	4	RM262					6	[3]78, 75, 42, 80	456	7-5,6
74	Vol.	A10027	109	MR44		RS244		A10018	35	TC71					9	[3]58, 24A, [3]56, [3]2A5, 80	172.5	4-14
	Tone	A10029	22	MR33	M26	RS244		A10118	35	TCS71								
	Supp.	A10028	7	E		RS244												
75A	Vol.	A8516	83	MR44		RS244	A24	A8123	4	TC70					8	[3]58, 56, 57, 55, 47, 80	456	5-13,14
	Tone	A8517	22	MR33	M26	RS244	A24	A9019A	4	TC71								
	Supp.	A10446	7	MR40		RS244	A77											
75AX	Vol.	A8516	83	MR44		RS244	A24	A8123	4	TC82					8	[3]58, 57, 56, 55, 47, 80	456	8-1,2
	Tone	A8517	22	MR33	M26	RS244	A24	A9019A	4	TC71								
76	Vol.	A10447	15	MR44	M26		A77	A8123-1	26	TC82					13	[3]58, 57, [4]56, [2]2A5, 5Z3	456	7-7,8
	Tone	A10418	22	MR39			A77	A6611A	26	3S584								
	Supp.	A10446	7	MR40			A77	A10609-1	13	TC70								
77	Vol.	A11575	15	UM147-SS2	M27			A11623	12	TC52					7	[3]34, 1C6, 1A6, 19, 30	345	6-3,4
								A10377	19	TC22								
78	Vol.	A10031	62	MR44	M26		A77	A9754	4	RM262	B73				8	[2]6D6, [3]37, 42, 80	172.5	4-15
	Sen.	A10135	7	E			A77											
79, 79A	Vol.	A3491	7	SRP154				‡	‡	See Note	B1				8	[6]484, 585, 80		1-7
80	Vol.	A11297	56	MR44	M26		A77	11223	1	RM262					8	[3]78, 6A7, 76, 85, 42, 80	456	5-15,18
	Tone	A11334	22	MR39			A77	A10377	15	TC22								
	Voltage	A11381	26	A5MP			A77											
	Supp.	A10446	58	MR40			A77											
81, 81A	Vol.	A10316	40	MR24		RS244	A24	A10318	12	TC70					5	1A6, [3]32, 30, 33	456	4-16, 7-18
	Fil.	A10350	29	Q			A77											
82	Vol.	A10316	40	MR24		RS244	A24	A10318	12	TC70					5	1A6, [3]32, 30, 19	456	4-17
	Fil.	A10350	29	Q			A77											
83, 84, 85X, 86X	Vol.	A11297	56	MR44	M26		A77	11223	1	RM262					8	[3]78, 6A7, 76, 85, 42, 80	456	5-15,18
	Tone	A11334	22	MR39			A77	A10377	15	TC22								
	Voltage	A11381	26	A5MP			A77											
	Supp.	A10446	58	MR40			A77											
89, 89A	Vol.	A3491	7	SRP154				‡	‡	See Note	B1				8	[6]484, 585, 80		1-7
99	Vol.	84	7	SRP154				‡	‡	See Note	B1				11	[6]484, 26, [3]50, [3]81		1-10,11
101	Vol.	A4770	7	MR33			A37	1-4-1	26	See Note	B1				13	[6]484, 27, [3]26, [3]585, [3]81		4-18,19
	Phono.	A4770	63	MR33			A37											
103	Vol.		98	Order from	Mfr.			1-4-1	26	See Note	B1				13	[7]484, [3]485, [3]C586, [3]81		2-40,41
104, 105X, 105XS	Vol.	A11297	56	MR44	M26		A77	A11223-1	1	RM262					10	[3]78, 6A7, [3]76, 85, [3]42, 5Z3	456	5-19,20
	Tone	A11334	22	MR39			A77	A10377	15	TC22								
	Voltage	A11381	26	MR40			A77											
	Supp.	A10446	98	Y200MP			A77											
109 DeLuxe	Vol.		7	SRP154				‡	‡	See Note	B1				10	[6]484, or 485, [3]585, or 586, [3]81		1-12
110, 111 (DeLuxe) (Two Types)	Vol.	A3491	7	SRP154				1-4-1	3	See Note	B1				12	[6]484, [2]26, [3]50, [3]81		1-13
111A	Vol.	A4770	7	MR33			A37	1-4-1	3	See Note	B1				13	[7]484, [3]26, [3]C586, [3]81		2-43
111X	Vol.	A8513	111	A10MP	6	RS244	A24	A8123-1	26	TC82					10	[3]58, 24A, [4]56, [3]47, 80	172.5	4-2,3
	Tone	A8514	22	MR39		RS244	A24	A6611A	26	TC71								
	Supp.	A8515	‡	UC508			A94											
134, 136	Vol.	A10447	15	MR44	M26	RS244		A8123-1	37	TC82					13	[3]58, 2A7, [4]56, [2]2A5, 5Z3	456	6-5,6
	Tone	A10418	22	MR39		RS244		A6611A	37	TC71								
	Sen.	A10446	7	MR40		RS244		A10609-1	13	TC70								
	Voltage	A11381	26	E			A77	A6316-1	19	TC52								
								A10377	15	TC22								
								A11582	15	TC22								
135	Vol.	A11297	56	MR44	M26		A77	A11223-1	1	RM262					10	[3]78, 6A7, [3]76, 85, [3]42, 5Z3	456	5-19,20
	Tone	A11334	22	MR39			A77	A10377	15	TC22								
	Volt.	A11381	26	A5MP			A77											
	Supp.	A10446	98	MR40			A77											
219P, 219PD																		
235	Vol.	1325	58	Order from	Mfr.			A14927-1	24	FP211					2	6A7, 25Z5, BK80B		10-1
	Phono.	1386	63	MR33			A37	15-5	1	3S584					10	[7]484, [3]C183, 80		2-44
301 AC	Vol.	880	7	SRP154				2-2	1	See Note	B1				10	[6]484, [3]50, [3]81		1-14
301 DC	Vol.	A3491	7	SRP154				3	‡	See Note	B11				8	[6]484, [2]82		2-45
333	Vol.	A10216	17	UM147-SS3	M26			A10277	1	Order from	Mfr.	B5392	292	C3	5	6F7, 78, 75, 41, 84	456	4-20
								A9308	15	TC26								
								.02		Buffer	B14							
400	Vol.		24	DRP246	6			15-5	1	3S584					6	[2]24A, 27, [3]C183, 80		
409GL	Vol.	A12708-A-1	6	MR15	M26			A14972	1/15	3N533					4	6A8GT, 6J7GT, 25L6GT, 25Z6GT	456	10-2
								A14782-2	15	TC22								
410 AC (Junior)	Vol.	A5663	24	DRP246	6			B2327	1	3S584					6	[2]24A, 27, [3]C183, 80		2-46, 1-15

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPARTON—Continued																		
410 DC (Junior)	Vol.	A5663	24	DRP246	6										5	‡24A, 27, ‡C183		2-48, 1-17
411-1	Vol.	A15132-1	18	MR48	M27			A14958	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	456	13-7,8
417X	Vol.	A12708	6	F7	6			A12706	1/15	3S579					4	6A7, 6F7, 41, 80	456	9-9
420 AC (Jewell)	Vol.	A5663	24	DRP246	6			B2327	1	3S584					6	‡24A, 27, ‡C183, 80		2-46, 1-15
420 DC (Jewell)	Vol.	A5663	24	DRP246	6										5	‡24A, 27, ‡C183		2-48, 1-17
427X	Vol.	A12708	7	MR39	M26			A14101	1/15	3S579					4	6A7, 6F7, 42, 80	456	8-3,4
437X	Vol.	A12708	7	MR39	M26			A14101	1/15	3S579					4	6A7, 6F7, 42, 80	456	8-3,4
457X	Vol.	A12708	7	MR39	M26			A14101	1/15	3S579					4	6A7, 6F7, 42, 80	456	8-3,4
475A	Vol.	A8516	83	MR44		RS244		A8123	4	TC82					8	‡58, 57, 55, 56, 47, 80	456	5-13,14
	Tone	A8517	22	MR33	M26	RS244		A9019A	4	TC71								
	Sen.	10446	58	MR40		See Note	A77											
475AX, 478AX	Vol.	A8516	83	MR44		RS244	A24	A8123	4	TC82					8	‡58, 57, 56, 55, 47, 80	456	8-1,2
	Tone	A8517	22	MR33	M26	RS244	A24	A9019A	4	TC71								
478	Vol.	A10031	62	MR44	M26	See Note	A77	A9754	4	RM262	B73				8	‡6D6, ‡37, 42, 80	172.5	4-15
	Supp.	A10135	58	E		RS244												
478A	Vol.	A8516	83	MR44		RS244		A8123	4	TC82					8	‡58, 57, 56, 55, 47, 80	456	5-13,14
	Tone	A8517	22	MR33	M26	RS244		A9019A	4	TC71								
	Sen.	10446	58	MR40			A77											
500	Vol.	A15129	18	MK401	M26			A15124	1	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 40Z5GT	456	10-3
500C, CB, CG, CR	Vol.	A15129	18	MK401	M26			A15124-1	1	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 40Z5GT	456	12-1
500Y, 500Z	Vol.	A15129	18	MK401	M26			A15124-1	1	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 40Z5GT	456	12-1
506	Vol.	A11480-1	17	MR48	M26			A11093-1	11	UR193	B31				5	‡78, 75, 43, 25Z5	456	6-7,8
510	Vol.	A15129	18	MK401	M26			A15093	1	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 40Z5GT	456	10-4
511, 511U	Vol.	A20137	18	UM154	M26		A96	A20135	24	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	456	12-2
516, 516X	Vol.	A12308	76	MR48	M26			A12307	4	TCS71					5	6A7, 78, 75, 42, 80	456	7-11,12
	Tone	A12309	76	MR44														
517	Vol.	A12988-1	15	MR53	M26			A14102	1/15	3S579					5	6A7, 78, 75, 42, 80	456	8-5,6
518, 518X	Vol.	A14216A	18	MR48				A14428	1/15	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-2,3
	Tone	A14217A	22	MR53	M26													
520M	Vol.	A15129-4	18	MK401	M26			A14684-4	1/15	FP332					5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	456	11-1
527-2	Vol.	A14274	18	MR48	M26			A14273	12	TC42					5	1C7G, ‡1D5G, 1H6G, 33	456	10-5
	Tone	A12987	22	MR53														
528-2	Vol.	A14274A	18	MR48	M26			A14273	12	TC42					5	1C7G, ‡1D5G, 1H6G, 33	456	9-3,4
	Tone	A12987A	22	MR39														
530X	Vol.	A15129-2	18	MK401	M26			A14675	1/15	3S584/TC22	B8				5	6A7, 78, 75, 42, 80	456	11-2
531X	Vol.	A15130-5	18	MK401				A14780-1	1/15	2S569/TC36					5	6A8GT, 6SK7GT, 6SQ7GT, 6F6G, 5Y3G	456	13-9,10
	Tone	A15129-2	57	MK401	M26													
532X	Vol.	A15130-5	18	MK401				A14780-1	1/15	2S569/TC36					5	6A8GT, 6SK7GT, 6SQ7GT, 6F6G, 5Y3G	456	13-9,10
	Tone	A15129-2	57	MK401	M26													
536, 536X	Vol.	A12075	17	MR53	M26			A12048	1/15	3S584/TC22	B8				5	6A7, 6K7, 75, 6F6, 80	345	7-13,14
537	Vol.	A12988	15	MR53	M26			A14102	1/15	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	8-6,7
	Tone	A12987	22	MR53														
538, 538X	Vol.	A14216A	18	MR48				A14073	25	RS216					6	6A8G, 6K7G, 6Q7G, 6E5, 6F6G, 5Y3G	456	9-5,6
	Tone	A14217A	22	MR53				A14072	25	RS223								
540LX	Vol.	A15130	18	MK401				A14073A	25	RS216					5	6J8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	11-3
	Tone	A15131	22	MK402	M26			A14072A	25	RS223								
540SX	Vol.	A15130	18	MK401				A14073A	25	RS216					5	6J8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	11-4
	Tone	A15131	22	MK402	M26			A14072A	25	RS223								
541SX	Vol.	A15130	18	MK401				A14073A	25	RS216					5	6J8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	
	Tone	A15131	22	MK402	M26			A1472A	25	RS223								
546X	Vol.	A12308	76	MR48	M26			A12307	4	TCS71					5	6A7, 78, 75, 42, 80	456	7-11,12
	Tone	A12309	76	MR44				A12306	20	TC26								
547X	Vol.	A12988	15	MR53	M26			A14102	1/15	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	8-11,14
	Tone	A12987	22	MR53														
548X	Vol.	A14216-A-1	18	MR48	M26			A14073	25	RS216					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	345	9-7
	Tone	A14217-A-1	22	MR53				A14072	25	RS223								
549-1	Vol.	A14957	18	MR39	M27			A14958	12/13	TC42					5	1A7G, ‡1N5G, ‡1H5G, 1C5G	456	10-7
550M	Vol.	A15130-1	18	MK401				A14780	1/15	3S584/TC44	B8				5	6J8G, 78, 75, 42, 80	456	11-5
	Tone	A15128	22	MK400	M26													
557	Vol.	A12988-1	15	MR53	M26			A14102	1/15	3S579					5	6A7, 78, 75, 42, 80	456	8-5,6
558B, 558BX, 558C, 558CX	Vol.	A14216	18	MR48				A14428	1/15	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-2,3
	Tone	A14217	22	MR53	M26													
564	Vol.	A3491	7	SRP154				2-2-2	3	See Note	B1				10	‡484, ‡C586, ‡81		2-50

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPARTON—Continued																		
564 DC	Vol.		7	SRP154				3	‡	See Note	B11				9	[7]484A,[3]182A		2-53
566	Vol.	A11480	17	MR48	M26			A11093-1	11	UR193	B31				5	[3]78, 75, 43, 25Z5	456	6-7,8
567	Vol.	A12988-1	15	MR53	M26			A14102	1/15	3S579					5	6A7, 78, 75, 42, 80	456	8-5,6
568, 568X	Vol.	A14216	18	MR48				A14228	1/15	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-2,3
	Tone	A14217	22	MR53	M26													
570	Vol.		7	Order from	Mfr.			2-2-2	3	See Note	B1				11	[7]C484,[3]C586,[3]81		2-50
570 DC	Vol.		7	Order from	Mfr.			3	‡	See Note	B11				9	[7]484A,[3]182A		2-53
570M	Vol.	A15129-4	18	MK401	M26			A14684-3	1/15	FP339					5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	456	11-6
574	Vol.	A4770	7	MR33			A37	1-4-1	3	See Note	B1				13	[7]484,[3]26,[3]586,[3]81		2-43
577	Vol.	A12988	17	MR53	M26			A14102	1/15	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	8-6,7
	Tone	A12987	22	MR53														
578	Vol.		98	Order from	Mfr.			1-4-1	26	See Note	B1				12	[7]484,[3]485,[3]C586, 81		2-41
578X	Vol.	A14216A	18	MR48				A14428	1/15	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-2
	Tone	A14217A	22	MR53	M26													
580X	Vol.	A15129-3	18	MK401	M26			A14715	1/15	3S579					5	6A7, 78, 75, 42, 80	456	11-9
581X	Vol.	A15129-3	18	MK401	M26			A14715	1/15	3S579					5	6A7, 78, 75, 42, 80	456	12-5
587-2	Vol.	A14274	18	MR48	M26			A14273	12	TC42					5	1C7G, [3]1D5G, 1H6G, 33	456	10-5
	Tone	A12987	22	MR53														
588-2	Vol.	A14274A	18	MR48	M26			A14273	12	TC42					5	1C7G, [3]1D5G, 1H6G, 33	456	9-3,4
	Tone	A12987A	22	MR39														
589	Vol.		7	Order from	Mfr.			15-5	1	3S584					10	[7]484,[3]182, 80		1-19
590-1	Vol.	A15132-1	18	MR48	M27			A14604-5	1/78	FP354					5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5GT	456	11-7
591, 593	Vol.		7	SRP154				15-5	1	3S584					9	[6]484,[3]C182B, 80		2-52
594	Vol.	A11480	17	MR48	M26			A11093-1	11	UR193	B31				5	[3]78, 75, 43, 25Z5	456	6-7,8
600	Vol.		7	Order from	Mfr.			15-5	1	3S584					10	[7]484,[3]183, 80		1-20
600A	Vol.	A5663	24	DRP246	6			B2327	1	3S584					6	[3]24A, 27,[3]483, 80		2-2
600 DC	Vol.		7	Order from	Mfr.			3	‡	See Note	B11				9	[7]484A,[3]182A		2-53
601B	Vol.	A15129-7	18	MK401	M26			A15571	1	2N513					6	[3]12SK7GT, 12A8GT, 12SQ7GT, 35L6GT, 35Z5GT	456	12-7
601MS	Vol.	A15129-6	18	MK401	M26			A14782-4	9	TC65					6	[6]6SK7GT, 6A8GT, 6SQ7GT, 6K6GT, 117Z6GT	456	12-8
								A14782-5	9	ST598								
601S	Vol.	A15129-8	18	MK401	M26			A15571	24	2N513					6	[3]12SK7GT, 12A8GT, 12SQ7GT, 35L6GT, 35Z5GT	456	
606	Vol.	A8513	8	A10MP		RS244		4	26	TC82					13	[3]58, 24,[4]56,[4]47,[3]80	172.5	
	Tone	A8514	22	MR39		RS244		5	26	TC71								
	Supp.	A8515	‡	MR45		See Note A94												
608, 608B	Vol.	A14503	18	MR48	M26			A14500	1	2N514					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G, BK49B	456	9-10
608, 608B, G, K, R, V, W	Vol.	A14503	18	MR48	M26			A14500	1	2N514					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G, BK49B	456	9-10,11
610	Vol.		7	Order from	Mfr.			15-5	1	3S584					10	[7]484,[3]183, 80		1-20
610A	Vol.	A5663	24	DRP246	6			B2327	1	3S584					6	[3]24A, 27,[3]483, 80		2-2
610 DC	Vol.		7	Order from	Mfr.			3	‡	See Note	B11				9	[7]484A,[3]182A		2-53
616, 616X, 616M, 616MX	Vol.	A12075	17	MR53	M26			A12048	1/15	3S584/TC22	B8				5	78-6K7, 6A7, 75, 42-6F6, 80	345	6-9,10
617, 617X	Vol.	A14216	77	MR48				A14073	25	RS216					6	[6]6K7G, 6A8G, 6Q7G, 6F6G, 5Y3	345	8-9,10
	Tone	A14217	22	MR53	M26			A14072	25	RS223								
620	Vol.		7	Order from	Mfr.			15-5	1	3S584					10	[7]484,[3]183, 80		1-20
620 DC	Vol.		7	Order from	Mfr.			3	‡	See Note	B11				9	[7]484A,[3]182A		2-53
620M	Vol.	A15130-1	18	MK401				A14799	1	3S584	B8				6	6J8G, 78, 75, 6AC5G, 76, 80	456	11-10
	Tone	A15128-1	22	MK400	M26													
620X	Vol.	A8516	109	MR44		RS244	A24	A8123-1	4	TC82					8	[3]58, 24A,[3]56, 47, 80	172.5	2-6,7
	Tone	A8517	34	MR33	M26	RS244	A24	A9019A	4	TC71								
	Supp.	A8652	7	D			A94											
628, 628X	Vol.	A14216A	18	MR48	M26			A14073	25	RS216					6	6A8G, 6K7G, 6Q7G, 6E5, 6F6G, 5Y3G	456	9-5,6
	Tone	A14217A	22	MR53				A17072	25	RS223								
636MX	Vol.	A12075	17	MR53	M26			A12048	1/15	3S584/TC22	B8				6	78, 6A7, 6K7, 75, 6F6, 5Y3	345	7-19,20
637-6	Vol.	A14274	18	MR48	M27			A14326	1	2N518		A14344	245	C3	6	1C7G, [3]1D5G, 1H6G, 1H4G, 1E7G	456	10-9
	Tone	A12987	22	MR39				A14273	13	TC52								
								.009		Buffer	B14							
638-6	Vol.	A14274A	18	MR48	M27			A14326	1	2N518		A14344	245	C3	6	1C7G, [3]1D5G, 1H6G, 1H4G, 1E7G	456	9-11,12
	Tone	A12987A	149	MR53				A14273	12	TC52								
								.009		Buffer	B14							
640LX	Vol.	A15127	18	MK400				A14684-2	1/15	FP339					6	[6]6K7G, 6J8G, 6Q7G, 6F6G, 5Y3G	456	11-11,12
	Tone	A15128-1	22	MK400	M26													
640SX	Vol.	A15127	18	MK400				A14684-2	1/15	FP339					6	[6]6K7G, 6J8G, 6Q7G, 6F6G, 5Y3G	456	11-12,13
	Tone	A15128-1	22	MK400	M26													
642X	Vol.	A15130-7	18	MK401				A14684-3	1/15	FP339					6	[3]7A7, 7J7, 7B6, 7B5, 7Z4	456	14-7,8,9
	Tone	A15128-5	34	MK400	M26			A14782-9	15	TC26								
649-6L, S	Vol.	A14075-A1	18	MR44				A14942	1/19	TCS64/TC26		A14945	859	C3	6	6J8G,[3]1D5GP, 6T7G, 1G5G, 6ZY5G	456	10-11
	Tone	A14778	22	MR44	M26			A14782-1	12	TC52								
								.009		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPARTON — Continued																		
651 (Series)	Vol.	A15130-4	18	MK401				A15755	1	FP380	B117				6	6A8GT, 6SK7GT, 6SQ7GT, [3]6F6G, 5Y3G	456	12-9,10
	Tone	A15131-1	44	MK402	M26													
652X	Vol.	A15130-6	18	MK401				15-30	1	See Note	B3				6	7B8, 6SK7GT, 6SQ7GT, [3]6F6G, 5Y3G	456	13-11, 12,13
	Tone	A15131-2	44	MK401	M26			A14782-11	13	TC74								
652XD	Vol.	A15130-6	18	MK401				15-30	1	See Note	B3				6	7B8, 6SK7GT, 6SQ7GT, [3]6F6G, 5Y3G	456	13-11, 12,13
	Tone	A15131-2	44	MK401	M26			A14782-11	13	TC74								
655	Vol.	A11069	17	MR44	M26			A11093	11	UR193	B31				6	[3]78, 75, 43, 25Z5	456	6-11,12
660M	Vol.	A15130-1	18	MK401				A14799	1	3S584	B8				6	6A7, 78, 75, 76, 6AC5G, 80	456	11-14
	Tone	A15128	22	MK400	M26													
661RP	Vol.	A15130-5	18	MK401				A14780-2	1/15	2S569/TC22					7	6SA7GT, 6SK7GT, [3]6SQ7GT, 6F6G, 5Y3G, 6U5/6G5	456	12-11,12
	Tone	A15128	22	MK400	M26			A14782-1	13	TC52								
666, 666X	Vol.	A12075	17	MR53	M26			A12048	1/15	3S584/TC22	B8				6	[3]78-6K7, 6A7, 75, 42-6F6, 80	345	7-15,17
666M, 666MX	Vol.	A12075	17	MR53	M26			A12048	1/15	3S584/TC22	B8				5	78 or 6K7, 6A7, 75, 42 or 6F6, 80	345	6-9,10
667, 667X	Vol.	A14216	77	MR48				A14073	25	RS216					6	[3]6K7G, 6A8G, 6Q7G, 6F6, 5Y3	345	8-9,10
	Tone	A14217	22	MR53	M26			A14072	25	RS223								
668	Vol.	A14216A	18	MR48				A14073	25	RS216					6	6A8G, 6K7G, 6Q7G, 6E5, 6F6G, 5Y3G	456	9-5,6
	Tone	A14217A	22	MR53	M26			A14072	25	RS223								
668X	Vol.	A14216A	18	MR48				A14073	25	RS216					6	6A8G, 6K7G, 6Q7G, 6F6G, 6E5, 5Y3G	456	9-6
	Tone	A14217A	22	MR53	M26			A14072	25	RS223								
670-6L, 670-6S	Vol.	A14075-A1	18	MR44				A14942	1/19	TCS64/TC26		A14945	859	C3	6	6J8G, [1]D5GP, 6T7G, 1G5G, 6ZY5G	456	11-15,16
	Tone	A14478	22	MR44	M26			A14782-1	13	TC52								
672-6XA, 672-6XE	Vol.	A15145	18	500M		See Note	A19	.009		Buffer	B14							
	Tone	A15129-10	44	MK401	M26			15-30	1	See Note	B3	A15949	859	C3	6	7A8, 7B7, 7C6, [3]6G6G, 6ZY5G	456	14-10, 11,12
676 (Late)	Vol.	A14013	17	UM150		See Note	A96	.005		Buffer	B14							
	Tone	A12681	22	MR53				A12674	1/15	3S579		A12726	294	C3	6	[3]6K7, 6A8, 6Q6, 6F6, 84	172.5	9-30
678	Vol.	A14216A	18	MR48				.009		Buffer	B14							
	Tone	A14217A	22	MR53	M26			A14073	25	RS216					6	6A8G, 6K7G, 6Q7G, 6E5, 6F6G, 5Y3G	456	9-5,6
678A, 678X	Vol.	A14216A	18	MR48				A14072	25	RS223								
	Tone	A14217A	22	MR53	M26			A14073	25	RS216					6	6A8G, 6K7G, 6Q7G, 6E5, 6F6G, 5Y3G	456	9-5
685	Vol.	A11245	17	MR44	M26			A14072	25	RS223								
								A11223-1	1	RM262					6	[3]78, 6A7, 75, 42, 80	345	5-11,12
								A11224	13	TC70								
								A13077	15	TC22								
686, D686, H686	Vol.	A14013	17	UM150		See Note	A96	A12674	1/15	3S579		A12726	294	C3	6	[3]6K7, 6A8, 6Q7, 6F6, 84	172.5	9-30
	Tone	A12681	22	MR53				.009		Buffer	B14							
687-6	Vol.	A14274	18	MR48	M27			A14326	1	2N518		A14344	245	C3	6	1C7G, [1]D5G, 1H6G, 1H4G, 1E7G	456	10-9
	Tone	A12987	22	MR39				A14273	13	TC52								
								.009		Buffer	B14							
688-6	Vol.	A14274A	18	MR48	M27			A14326	1	2N518		A14344	245	C3	6	1C7G, [1]D5G, 1H6G, 1H4G, 1E7G	456	9-11,12
	Tone	A12987A	149	MR53				A14273	12	TC71								
								.009		Buffer	B14							
690M	Vol.	A15130-1	18	MK401				A14799	1	3S584	B8				6	6J8G, 78, 75, 6AC5G, 76, 80	456	
	Tone	A15128-1	22	MK400	M26													
691	Vol.	A11245	17	MR44	M26			A11223-1	1	RM262					6	[3]78, 6A7, 75, 42, 80	345	5-10,12
								A11224	13	TC70								
								A10377	15	TC22								
699	Vol.		15	MR55				8-6	4	2S567			294	C3	6	[3]6D6, 6A7, 6Q7, 41, 0Z4	262	10-6
	Tone		22	‡		See Note	A5	10	15	TC22								
								.008		Buffer	B14							
707	Vol.	A8513	‡	A10MP		RS244		A8123-1	26	TC82					13	[3]58, 24, [4]56, [4]47, [3]80	172.5	
	Tone	A8514	22	MR39		RS244		A6611-A	26	TC71								
	Supp.	A8515	‡	UC508		See Note	A94											
711X	Vol.	A15129-1	18	MK401	M26			A15571	1	2N513					7	[3]12SK7GT, 12A8GT, 6H4GT, 12SF5GT, 35L6GT, 35Z5GT	456	12-6
716, 716X	Vol.	A11297-1	17	MR44	M26		A77	A12048	1/15	3S584/TC22	B8				7	[3]78, 6A7, 75, 42, 80	456	6-13,14
								A10377	15	TC22								
727X, 727XD	Vol.	A14075	17	MR44				A14073	25	RS216					7	[3]6K7, 6A8, 6Q7G, [3]6F6G, 5Y3	456	8-12,14
	Tone	A14089	107	MR48				A14072	25	RS223								
728X	Vol.	A14075A	18	MR44				A14073	25	RS216					7	[3]6K7G, 6A8G, 6Q7G, 6F6G, 6E5, 5Y3G	456	10-15
	Tone	A12987A	22	MR53				A14072	25	RS223								
								A14403	13	RS223								
737	Vol.		7	Order from	Mfr.			B2948	1	3S584					10	[7]84, [3]82, 80		2-55, 1-20
737DC	Vol.		7	Order from	Mfr.			3	‡	See Note	B11				9	[7]84A, [3]82A		2-53
738	Vol.	A14075-A1	18	MR44				A14073	25	RS216					8	6A8G, 6K7G, 6H6G, 6J7G, 6E5, 6Q7G, 6V6G, 5Y3G	456	9-13
	Tone	A14089A	22	MR48				A14072	25	RS223								
740	Vol.		7	Order from	Mfr.			2-2-2	3	See Note	B1				10	[7]84, [3]C586, 81		2-50
740 DC	Vol.		7	Order from	Mfr.			3	‡	See Note	B11				9	[7]84A, [3]82A		2-53
740LX, 740LXPA	Vol.	A15127	18	MK400				A14684-2	1/15	FP339					7	[3]6K7G, 6J8G, 6Q7G, 6F6G, 5Y3G, 6U5	456	11-11,12
	Tone	A15128-1	22	MK400	M26													
740SX, 740SXPA	Vol.	A15127	18	MK400				A14684-2	1/15	FP339					7	[3]6K7G, 6J8G, 6Q7G, 6F6G, 5Y3G, 6U5	456	11-12,13
	Tone	A15128-1	18	MK400	M26													
748X	Vol.	A14518	18	MR44				A14073	25	RS216					7	[3]6K7G, 6A8G, 6Q7G, 6F6G, 6E5, 5Y3G	345	9-15,16
	Tone	A14217-A1	22	MR53	M26			A14072	25	RS223								
750 AC	Vol.		7	Order from	Mfr.			2-2-2	3	See Note	B1				11	[7]84, [3]C586, [3]81		2-50

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPARTON—Continued																		
750 DC	Vol.		7	Order from	Mfr.			3	‡	See Note	B1				9	[7]484A,[3]182A		2-53
750A, 750X	Vol.	A8513	111	A10MP		RS244	A24	A8123-1	26	TC82					10	[2]58, 24A, [4]56, [3]47, 80	172.5	4-2,3
	Tone	A8514	22	MR39		RS244	A24	A6611A	26	TC71								
	Supp.	A8515	‡	UC508			A94											
760PS	Vol.	A15130-1	18	MK401				A14799	1	3S584	B8				7	6SA7GT, 78, 75, 76, 6AC5G, 5W4GT, 6U5	456	11-17
	Tone	A15128-1	22	MK400	M26													
761	Vol.	A15130-2	45	MK401				A14780	1/15	3S584/TC44	B8				7	6SA7GT, 6SK7GT, [6]6P5GT, 6K6GT, 6SF5GT, 5Y3G	456	12-12,13
	Tone	A15128-1	22	MK400	M26													
766, 766X, 766XP, 766XS	Vol.	A11297	17	MR44	M26		A77	A12048	1/15	3S584/TC22	B8				7	[2]78, 6A7, 75, 42, 80	456	6-13,14
								A10377	15	TC22								
768, 768X	Vol.	A14075A	18	MR44				A14073	25	RS216					7	[6]6K7G, 6A8G, 6Q7G, 6E5, 6F6G, 5Y3	456	9-16,17
	Tone	A12987A	22	MR53				A14072	25	RS223								
								A14403	13	RS223								
770, 770PA	Vol.	A15130-1	45	MK401				A14684-7	3	FP390					7	6J8G, 6K7G, 6P5G, 6F5G,[6]6F6G,5Y3G	456	11-18
	Tone	A15129-5	57	MK401	M26			A14782-2	15	TC22								
775	Vol.	A11575	15	UM147-SS2	M27			A11623	12	TC52					7	[3]34, 1C6, 1A6, 30, 19	345	6-3,4
								A10377	19	TC22								
778, 778X	Vol.	A14075A	18	MR44				A14073	25	RS216					7	[6]6K7G, 6A8G, 6Q7G, 6E5, 6F6G, 5Y3	456	9-16,17
	Tone	A12987A	22	MR53				A14072	25	RS223								
								A14403	13	RS223								
782PA	Vol.	A15130-6	18	MK401				A20110	3/15	FP424					7	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, [6]6F6G, 5Y3G	456	12-15,16
	Tone	A15129-9	22	MK401	M26			A20104	13	TC74								
827X, 827XD	Vol.	A14110	83	MRT427				A14122	25	RS216					9	[6]6K7, 6A8, 6Q7G, 6J7G, 6N6G, 6E5, 5Y3	456	8-17
	Tone	A14112	22	MR48	M26			A14113	25	RS223								
831X	Vol.	A15130-3	45	MK401				A15741	1	2S569					8	[6]6SK7GT, 6SA7GT, [6]6J5GT, 6SQ7GT, 6AC5G, 7Y4	456	12-10,17
	Tone	A15128-2	22	MK400	M26													
835	Vol.	A11297	56	MR44	M26		A77	11223	1	RM262					8	[2]78, 6A7, 76, 85, 42, 80	456	5-15,18
	Tone	A11334	22	MR39			A77	A10377	15	TC22								
	Voltage	A11381	26	A5MP			A77											
	Supp.	A10446	58	MR40			A77											
842SX	Vol.	A15140-1	17	MK403				A14684-7	3	FP390					8	7B7, 7J7, 6K7G, 6E5, 7B6, [6]6F6G, 5Y3G	456	14-13-16
	Tone	A15129-11	57	MK401	M26			A14782-9	15	TC26								
								A14782-10	15	TC29								
867	Vol.	A14075	77	MR44				A14073	25	RS216					8	6K7, 6A8, 6K7G, 6Q7G,[6]6F6G, 5Y3, 6E5	456	8-13,14
	Tone	A14089	107	MR48				A14072	25	RS223								
870	Vol.		7	Order from	Mfr.			1-4-1	3	See Note	B1				13	[7]484,[2]26,[3]C586,[3]81		2-43
870A, 870X	Vol.	A8513	111	A10MP		RS244		A8123-1	26	TC82					10	[2]58, 24,[4]56,[3]47, 80	172.5	4-2,3
	Tone	A8514	22	MR39		RS244	A24	A6611A	26	TC71								
	Supp.	A8515	‡	UC508			A94											
877X	Vol.	A14075	17	MR44				A14073	25	RS216					8	[6]6K7, 6A8, 6Q7G, 6E5, [6]6F6G, 5Y3	456	8-12,14
	Tone	A14089	107	MR48				A14072	25	RS223								
880	Vol.	A15127	18	MK400				A14799-2	1	3S584	B8				8	[6]6K7G, 6J8G, 6Q7G, 6AC5G, 6J5G, 5Y3G, 6U5	456	11-19,20
	Tone	A15128-1	22	MK400	M26													
880A	Vol.	A15130-1	45	MK401				A14684-7	3	FP390					8	6J8G, 6K7G, 6P5G, 6F5G,[6]6F6G, 5Y3G, 6U5	456	11-18
	Tone	A15129-5	57	MK401	M26			A14782-2	15	TC22								
928X	Vol.	A14075A	17	MR44				A14122	25	RS216					9	[6]6K7G, 6A8G, [6]6Q7G, 6G7G, 6C5G, 6E5, 5Y3G	456	9-21
	Tone	A14112A	22	MR48	M26			A14113	25	RS223								
								A14516	13	RS223								
930 AC	Vol.		7	SRP154				‡	‡	See Note	B1				9	[6]C484,[3]182, 80		1-21
931 AC	Vol.		7	SRP154				B2327	1	3S584					9	[6]C484,[3]C182B, 80		1-22
931 DC	Vol.		7	SRP154				3	‡	See Note	B11				8	[6]C484A,[3]C182A		1-22
940LX, 940SX	Vol.	A15127-1	75	MK400				A14073A	25	RS216					9	[6]6K7G, 6J8G, 6H6G, 6F5G, [6]6F6G, 6U5, 5Y3G	456	11-21,22
	Tone	A15133	22	MK402				A14072A	25	RS223								
966, 966X	Vol.	A11297-1	15	MR44	M26		A77	A12215	1	3S584					10	[6]6K7, 6A7, 6H6, 6E5, 6C5,[2]42, 5Z3	456	7-21,22
968, 968X	Vol.	A14075A	18	MR44				A14122	25	RS216					9	[6]6K7G, 6A8G, [6]6Q7G, 6E5, 6C5G, 6V6G, 5Y3G	456	9-18,19
	Tone	A14112A	22	MR48	M26			A14113	25	RS223								
								A14516	13	RS223								
977	Vol.	A11297-1	15	MR44	M26		A77	A12048	1/15	3S584/TC22	B8				10	[2]76, 6A7, [6]6K7, 6H6, 6F5, 6E5, 42, 80	456	9-23
987	Vol.	A14110	77	MRT427				A14122	25	RS216					9	6K7, 6A8, [6]6K7G, 6Q7G, 6J7G, 6N6G, 5Y3G, 6E5G	456	8-18
	Tone	A14112	22	MR48	M26			A14113	25	RS223								
997X	Vol.	A14110	83	MRT427				A14122	25	RS216					9	[6]6K7, 6A8, 6Q7G, 6J7G, 6N6G, 6E5, 5Y3G.	456	8-17
	Tone	A14112	22	MR48	M26			A14113	25	RS223								
1068, 1068X, 1078, 1078X	Vol.	A14075	18	MR44				A14122	25	RS216					10	[6]6K7G, 6A8G, 6H6G, 6J7G, 6Q7G, 6E5, 6V6G, 5Y3G	456	9-19,20
	Tone	A14112A	22	MR48	M26			A14113	25	RS223								
								A14516	13	RS223								
1071PA, 1071PAD	Vol.	A15130-2	18	MK401				A15696	1/13	FP380	B117				10	7L7, 6SA7GT, 6SK7GT, 6SQ7GT, [6]6P5GT, [6]6AC5G, 5Y3G	456	12-18, 20,22
	Tone	A15128-4	44	MK400	M26													

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPARTON—Continued																		
1071RPA	Vol.	A15130-2	18	MK401				A15729	1/13	FP444					11	7L7, 6SA7GT, 6SK7GT, 6P5G, ½6SQ7GT, 7N7, ½6AC5G, 5Y3G, 6U5/6G5	456	12-19, 20,22
	Tone	A15128-4	44	MK400	M26													
1081	Vol.	A15130-2	18	MK401				A14684-9	1/13	FP380					10	7L7, 6SA7GT, 6SK7GT, 6SQ7GT, ½6P5G, ½6F6G, 6AF6G, 5Y3G	456	12-21, 22,26
	Tone	A15128-4U	44	MK400	M26													
1091	Vol.	A15140	17	UM163			A96	A14684-7	3	FP390					11	6SK7GT, 6J8G, 6K7G, 6SQ7GT, 6J5G, ½6V6G, 6P5G, 6AF6G, ½5Y3G	456	12-23,24
								A14782-6	13	TC29							
								A14782-8	14	TC70								
1089	Vol.	A14075A	18	MR44				A14122	25	RS216					10	½6K7G, 6A8G, 6H6G, 6J7G, 6Q7G, 6V6G, 6E5, 5Y3G	456	10-17
	Tone	A14112A	22	MR48	M26			A14113	25	RS223								
								A14516	13	RS223								
1116X	Vol.	A12228	15	MR48	M26		A77	A12330	1	3S584	B8				12	½6K7, 6L7, ½6C5, 6H6, ½6F6, 5Z3, 6E5	456	7-23,24
	Tone	A11334-1	22	MR39			A77	A11223-1	24	RM262								
	Supp.	A10446	7	MR40			A77	A10377	15	TC22								
1160	Vol.	A14075A	18	MR44				A14122A	25	RS216					11	½6K7G, 6A8G, 6H6G, 6U5, 6J7G, 6Q7G, ½6F6G, 5Y3G	456	11-23
	Tone	A14112A	22	MR48	M26			A14113A	25	RS223								
								A14516A	13	RS223								
1166, 1166XP, 1166XS	Vol.	A12228	15	MR48	M26			A12330	1	3S584	B8				12	½6K7, 6L7, ½6C5, 6H6, ½6F6, 5Z3, 6E5	456	7-23,25
	Tone	A11334-1	22	MR39				A11223-1	24	RM262								
	Supp.	A10446	7	MR40				A10377	15	TC22								
1167	Vol.	A14110	83	MRT427				A14073	54	RS216					11	½6K7, 6A8, 6Q7G, 6C5G, 6J7G, ¾45, 5Y3, 6E5	456	8-14,16
	Tone	A14137	‡	‡		See Note A5		A14138	‡	RS216	B184							
								A14139	54	RS216								
								A14184	54	2S569	B8							
1176, 1176XP, 1176XS, 1186, 1196	Vol.	A12228	15	MR48	M26		A77	A12330	1	3S584	B8				12	½6K7, 6L7, ½6C5, 6H6, ½6F6, 6E5, 5Z3	456	7-23,25
	Tone	A11334-1	22	MR39			A77	A11223-1	24	RM262								
	Supp.	A10446	7	MR40			A77	A10377	15	TC22								
1268	Vol.	A14533	18	MRT443				A14073	54	RS216					12	½6K7G, 6A8G, 6H6G, 6E5, 6J7G, 6R7G, 6J5G, ¾45, 5Y3G	456	9-25,26
	Tone	A14532	‡	MR53	M26			A14139	‡	RS216								
								A14138	54	RS216	B184							
								A14184	54	2S569	B8							
1271	Vol.	A15130-2	18	MK401				A15625	1	2S569					12	½6SK7GT, 6SA7GT, 6SQ7GT, ½6P5GT, 6AF6G, ½6AC5G, 5Y3G	456	
	Tone	A15128-1U	44	MK400	M26													
1281	Vol.	A15130-2	18	MK401				A14684-9	1/13	FP380					12	7L7, 6SA7GT, 6SK7GT, 6SQ7GT, ½6P5G, 6AF6G, ½6AC5G, 5Y3G	456	12-14,22
	Tone	A15128-4U	44	MK400	M26													
1288, 1288P	Vol.	A14533	18	MRT443				A14073	54	RS216					12	½6K7G, 6A8G, 6H6G, 6E5, 6J7G, 6R7G, 6J5G, ¾45, 5Y3G	456	9-25,26
	Tone	A14532	‡	MR53	M26			A14139	54	RS216								
								A14138	‡	RS216	B184							
								A14184	54	ST599	B8							
1288LXP	Vol.	A14533	18	MRT443				A14073	54	RS216					12	½6K7G, 6A8G, 6H6G, 6J7G, 6R7G, 6J5G, ¾45, 6E5, 5Y3G	456	10-19
	Tone	A14547	‡	‡		See Note A5		A14139	54	RS216								
								A14184	54	RS223								
								A14138	‡	RS216	B184							
1291RPA	Vol.	A15141	17/15	Order from	Mfr.			A14684-7	3	FP390					13	6SK7GT, 6J8G, 6K7G, ½6SQ7GT, 6J5G, ½6V6G, 6P5G, 6AF6G, 6SJ7GT, ½5Y3G	456	12-25,26
								A14782-6	13	TC29								
								A14782-7	15	TC22								
								A14782-2	19	TC22								
								A14782-8	14	TC70								
1466	Vol.	A12228	15	MR48	M26		A77	A12330	1	3S584	B8				15	½6K7, 6L7, ½6C5, 6E5, 6H6, ½6F6, ½5Z3, ½6A6	456	7-26
	Tone	A11334	22	MR39			A77	A11223	13	RM262								
	Sen.	A10446	7	MR40			A77											
1476	Vol.	A12228	15	MR48	M26		A77	A12330	1	3S584	B8				15	½6K7, 6L7, ½6C5, 6E5, 6H6, ½6F6, ½6A6, ½5Z3	456	7-26
	Tone	A11334	22	MR39			A77	A11223	13	RM262								
	Sen.	A10446	7	MR40			A77											
1567	Vol.	A14110	18	MRT427				A12674	1/15	3S579					12	½6K7G, 6A8, 6Q7G, 6E5, 6J7G, 6C5G, ¾45, 5Y3	456	9-27,28
	Tone	A14137	22	‡		See Note A5												
1568, 1588P	Vol.	A14546	18	Order from	Mfr.			A14548	1	RS216					15	½6K7G, 6A8G, 6H6G, 6J7G, 6E5, 6R7G, 6C5G, 6J5G, 5Y3G, ½2A3, 5X4G	456	10-21
	Tone	A14547	‡	‡		See Note A5		A14260	1	RS216								
								A14387-1	1	RS216								
								A14545-1	1	RS216								
								A14184	1	RS223								
								A14259	17	RS207	B3							
1867	Vol.	A14110	18	MRT427				A14310	3/30	RS216					18	6K7, 6L7, ½6J5G, ½6K7G, 6Q7G, 6J7G, 6C5G, ½6L6G, ½6F6G, 6E5, ½5X4G	456	10-23, 24
	Tone	A14137	‡	‡		See Note A5		A14305	3	RS223								
								A14139	3	RS216								
								A14306	15	TC39								
								A14315	30	RS216								
								A14139	30	RS216								
								A14184	13	RS223								

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPARTON—Continued																		
4121	Vol.	A15132-1	18	MR48	M27			A14958	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	456	13-7,8
5008	Vol.	A14656-1	6	MR33	M26			A14691	1	2N514					4	6K7G, 6J7G, 25L6G, 25Z6G, BK55BJ		10-27
5018	Vol.	A14656	6	MR33	M26			A14691	1	2N514					4	6K7G, 6J7G, 25L6G, 25Z6G, BK55BJ		10-28
5028	Vol.	A14656-1	2	MR33	M26			A14907	1/15	3N533					4	6A7, 77, 25L6G, 25Z5, BK44BJ	456	10-33
5218	Vol.	A14779	18	MR48				A14780	1/15	3S584/TC44					5	6A7, 78, 75, 42, 80	456	10-29
	Tone	A14778	22	MR44	M26													
5321	Vol.	A15130-5	18	MK401				A14780-1	1/15	2S569/TC26					5	6A8GT, 6SK7GT, 6SQ7GT, 6F6G, 5Y3G	456	14-17,18
	Tone	A15129-2	21	MK401	M26													
5518, 5118A, 5518AX	Vol.	A14725	18	MR48	M26			A14715	1/15	3S579					5	6A7, 78, 75, 42, 80	456	10-31
5521	Vol.	A15130-5	18	MK401				A14780-1	1/15	2S569/TC26					5	6A8GT, 6SK7GT, 6SQ7GT, 6F6G, 5Y3G	456	14-17,18
	Tone	A15129-2	21	MK401	M26													
6021	Vol.	A15147	18	MK402	M26			A14684-10	46	Order from	Mfr.				6	[2]1T4, 1R5, 1S5, 3Q5GT, 117Z6GT	456	13-14, 15,16
								A20367	12/78	FP304	B70							
6218	Vol.	A14779	18	MR48				A14799	1	3S584	B8				6	6A7, 78, 75, 6AC5G, 76, 80	456	10-34
	Tone	A14778	22	MR44	M26													
6521	Vol.	A15130-6	18	MK401				A20316	1	FP390	B117				6	7B8, 6SK7GT, 6SQ7GT, [3]6F6G, 5Y3G	456	13-19,20
	Tone	A15131-2	44	MK401	M26			A14782-11	13	TC74								
7618	Vol.	A14779	18	MR48				A14799	1	3S584	B8				7	6A7, 78, 75, 6AC5G, 76, 6E5, 80	456	10-34
	Tone	A14778	22	MR44	M26													
8618	Vol.	A14216A	18	MR48				A14829-D7	25	FP144					9	[3]6K7G, 6J5G, 6J8G, 6H6G, 6Q7G, 6V6G, 6E5, 5Y3G	456	10-35
	Tone	A14217A	22	MR53	M26			A14829-E7	25	FP146								
SPENCER (See Truevalue)																		
SPIEGEL																		
A2000, AP2000, A9P2000, A14P2000	Vol.	A15130-3	18	MK401				A14780-1	46	3S584/TC74	B8				8	[2]6SK7GT, 6SA7GT, 6SQ7GT, 6P5GT, 6K6GT, 6AF6G, 5Y3G	456	12-12
	Tone	A15128-2	22	MK400	M26													
A2002, AP2002	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-1
AP2004, AP2005	Vol.	17-14320	8	MR20	M26	EX2M		17-14319	1/15	FP354					3	25B8GT, 50L6GT, 35Z5GT		12-40
A2006, AP2006	Vol.	P3746	18	MK401	M26			P3792	46	TN129					5	12A8, 12SK7, 12SQ7, 50L6, 35Z5	455	12-15,16
A2008, AP2008	Vol.	A15129-1	124	MK401	M26			A15571	1	2N513					7	[2]12SK7GT, 12A8GT, 6H4GT, 12SF5GT, 35L6GT, 35Z5GT	456	13-43,44
A2010, AP2010	Vol.	A15129-1	124	MK401	M26			A15571	1	2N513					7	[2]12SK7GT, 12A8GT, 6H4GT, 12SF5GT, 35L6GT, 35Z5GT	456	13-43,44
A2012, AP2012	Vol.	11389	18	MK401	M26			11493	24	FP214					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-17,18
AP2014	Vol.	A15130-1	18	MK401				A14799	1	2S569					6	6A7, 78, 75, 76, 6AC5G, 80	456	
	Tone	A15128	22	MK400	M26													
A9P2014	Vol.	A15132-2	18	MR48	M26			A14958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	
A2016, A3P2016	Vol.	A15129-1	124	MK401	M26			A15571	1	2N513					7	[2]12SK7GT, 12A8GT, 6H4GT, 12SF5GT, 35L6GT, 35Z5GT	456	13-43,44
A2022, A6P2022	Vol.	A15129-1	124	MK401	M26			A15571	1	2N513					7	[2]12SK7GT, 12A8GT, 6H4GT, 12SF5GT, 35L6GT, 35Z5GT	456	13-43,44
A2026, A9P2026 (Ch. 10-70)	Vol.	24-146	18	MR48	M26			18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	455	12-11, 24,29
AP2028	Vol.	24-103	18	UM157-SS17				18-264	24/19	FP234/TC29		34-104	859	C3	7	[2]6SK7, 6SA7, 6SQ7, 6J5GT, 6K6GT, 6X5GT	262	
	Tone	26-103	22	MR48				.003		Buffer	B14							
A10P2030	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	
A11P2032	Vol.	A15130-1	18	MK401				A14799	1	2S569					6	6A7, 78, 75, 76, 6AC5G, 80	456	
	Tone	A15128	22	MK400	M26													
A14P2036	Vol.	A15129-1	64	MK401	M26			A15571	1	2N513					7	[2]12SK7GT, 12A8GT, 6H4GT, 12SF5GT, 35L6GT, 35Z5GT	456	
AP2050	Vol.	A15130-3	18	MK401				A14780-1	1/15	2S569/TC45					7	6SA7GT, 6SK7GT, 6SQ7GT, 6P5GT, 6AF6G, 6K6GT, 5Y3G	456	
	Tone	A15128-2	22	MK400	M26													

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
A2052, AP2052, A10P2052, A14P2052	Vol.	A15130-3	45	MK401				A14799-2	1	3S584	B8				10	6SA7GT, 6SK7GT, [3]6P5GT, [3]6K6GT, 6U5, 6SF5GT, 5Y3G	456	12-19
	Tone	A15128-3	44	MK400	M26													
A2054, AP2054, A11P2054 (Ch. 1012)	Vol.		‡			See Note A19		25	1	TC77					12	[2]6SK7, 6SA7, [5]6J5G, 6U5, [2]6K6G, 5Y3G	456	13-46
	Tone		‡			See Note A3		20	1	TC75								
A2056, A6P2056	Vol.	4839	18	MK401	M26			10625	4	TC71					6	6SA7, 6SK7, 6SQ7, 6F6G, 5Y4G, 6U5	455	12-20
A2060, A2P2060	Vol.	A15130-3	45	MK401				A14799-2	1	3S584	B8				10	6SA7GT, 6SK7GT, [3]6P5GT, [3]6K6GT, 6U5, 6SF5GT, 5Y3G	456	12-19
	Tone	A15128-3	44	MK400	M26													
A2062	Vol.	A15130-3	45	MK401				A14799-2	1	3S584	B8				10	6SA7GT, 6SK7GT, [3]6P5GT, [3]6K6GT, 6U5, 6SF5GT, 5Y3G	456	12-19
	Tone	A15128-3	44	MK400	M26													
A6P2062	Vol.	A15130-3	18	MK401				A15625	1	2S569					12	[2]6SK7GT, 6SA7GT, 6SQ7GT, [4]6P5GT, 6AF6G, [3]6AC5G, 5Y3G	456	
	Tone	A15128-3	44	MK400	M26													
A8P2064	Vol.	A15130-3	45	MK401				A14799-2	1	2S569					10	6SA7GT, 6SK7GT, [3]6P5GT, [3]6K6GT, 6U5, 6SF5GT, 5Y3G	456	
	Tone	A15128-3	44	MK400	M26													
A2080, AP2080	Vol.	P3335	18	MK401	M26			10-10	1	FP231	B117				7	6A7, 6D6, 75, [2]41, 76, 80	455	12-21,22
	Tone	P3337	22	MK401														
A2100, AP2100, A14P2100	Vol.	A15130-3	18	MK401				A14958	12	TC42					6	1A7G, 1E4G, 1N5G, 1H5G, [2]1A5G	456	12-25
	Tone	A15138	57	MK403	M27													
A2104 (Ch. 0-44)	Vol.	24-149	18	MR53	M27			18-250	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	13-47
A2108, AP2108	Vol.	A15132-1	18	MR48	M27			A14958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	12-26
A2112, A3P2112	Vol.	A15132-1	18	MR48	M27			A14958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	12-26
A2116, AP2116	Vol.	A15132-1	18	MR48	M27			A14958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	12-26
A2120, AP2120	Vol.		18	MR48				CE58	12	TC40					3	1A7GT, 1N5GT, 1D8GT	455	12-27
A2122, AP2122 (Ch. KD)	Vol.	N2623	18	UM161-SS18				N2627	46/78	FP407					6	1A7GT, 1N5GT, 1H5GT, 1A5GT, 50L6GT, 35Z5GT	456	12-28
A2125, AP2125	Vol.	Y-VC-41	18			See Note A5		Y-CE-47	24	2N509					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 25Z6GT	455	12-29
								Y-CE-57	24	[2]TC39	B8							
A2130, A3P2130	Vol.	N2623	18	UM161-SS18				N2748	24/12	FP304	B128				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	456	12-30
A2132, A6P2132	Vol.	P3961	18	UM161-SS18	M27			P3971	46/78	FP409					5	1A7, 1N5, 1H5, 3Q5, 117Z6	455	12-15,16
A2134, A7P2134, A9P2134 (Ch. BP12)	Vol.		18	MR53	M27			80-40-20	24/78	Order from	Mfr.				6	1A7, [2]1N5, 1H5, 1T5, 35Z5	455	13-48
A2136 (Ch. BP11S)	Vol.		18	MR53	M26			80-40-20	24/78	Order from	Mfr.				5	1A7, 1N5, 1H5, 1T5, 35Z5	455	13-49
A9P2138	Vol.		18	MR48				CE58	12	TC40					3	1A7GT, 1N5GT, 1D8GT	455	
A10P2144	Vol.	A15132-2	18	MR48	M26			A14958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	
A14P2148	Vol.	24-150	18	MK402				18-262	24	FP211					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	
								18-263	78/15	TCS45								
A2150, AP2150	Vol.	A15130-3	18	MK401				A14958	12	TC42					6	1A7G, 1E4G, 1N5G, 1H5G, [2]1A5G	456	12-25
	Tone	A15138	57	MK403	M27													
A2154, A6P2154	Vol.	11132	18	MK401	M27			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-31,32
A2200, AP2200, A11P2200	Vol.	A15130-3	45	MK401				A14684-6	46	FP354		A15301	245A	C3	6	7A8, [2]7B7, 7C7, 7C6, 6G6G	456	12-33
	Tone	A15128-2	22	MK400	M26			.01		Buffer	B14							
A2204, A6P2204 (Ch. 119B)	Vol.	4839	18	MK401	M26			4841	24	2N509		3698	245A	C3	4	6D8G, 6S7, 6T7G, 6G6G	455	12-35,36
								1693	15	TC22								
								.03		Buffer	B14							
A2250, AP2250	Vol.	A15130-3	45	MK401				A14684-6	46	FP354		A15301	245A	C3	6	7A8, [2]7B7, 7C7, 7C6, 6G6G	456	12-33
	Tone	A15128-2	22	MK400	M26			.01		Buffer	B14							

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
A2450, AP2450, AP2451 (Ch. 620N)	Vol.		18	MR48	M26			12-12-10	24/15	TCD74/TC22			859	C3	6	[2]6K7GT, 6A8GT, 6Q7GT, 6K6GT, 6X5GT	456	13-51
								.0005		Buffer	B14							
A2454, AP2454, A9P2455	Vol.	17-16422	18	MR53	M26			17-14297	24/15	FP332		17-14747	859	C3	5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455	12-34
								.005		Buffer	B14							
A2456, AP2456, A14P2456	Vol.	17-16422	18	MR53	M26			17-14297	24/15	FP332		17-14747	859	C3	5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455	12-34
								.005		Buffer	B14							
A2460	Vol.	24-103	18	UM157-SS17				18-247	24	TC72		34-101	859	C3	7	6K7GT, 6A8GT, 6D6, 75, 6P5GT, 6AC5G, 80	262	13-18
	Tone	26-103	22	MR48				18-248	24/78	FP332	B70							
								.007		Buffer	B14							
A2462, A6P2462, A10P2464	Vol.	17-14536	18	UM157-SS12				17-14297	24/15	FP332		17-14747	859	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	455	12-40
								.005		Buffer	B14							
A11P2470	Vol.	A15130-3	45	MK401				A20188	1	2S569					8	6SD7GT, 6SA7GT, 6SK7GT, [2]6J5G, 6SQ7GT, 6AC5G, 7Z4	456	
	Tone	A15128-2	22	MK400	M26													
BP6500	Vol.	A15130-5	46	MK401				A15786	1/15	2S569/TC29					7	[2]6SK7GT, 6SA7GT, 6J5GT, 6SQ7GT, 6F6G, 5Y3G	456	
	Tone	A15129-2	21	MK401	M26													
BP6502	Vol.	A15130-3	64	MK401				A15741	1	2S569					8	[2]6SK7GT, 6SA7GT, [2]6J5GT, 6SQ7GT, 6AC5G, 7Y4	456	
	Tone	A15128-2	22	MK400	M26													
B3P6506	Vol.	A15130-3	18	MK401				A14780	46	2S569/TC45					8	[2]6SK7GT, 6SA7GT, 6SQ7GT, 6P5GT, 6K6GT, 6AF6G, 5Y3G	456	
	Tone	A15128-2	22	MK400	M26													
B3P6508	Vol.	A15129-1	64	MK401	M26			A15571	1	2N513					7	[2]12SK7GT, 12A8GT, 6H4GT, 12SF5GT, 35L6GT, 35Z5GT	456	
B5P6518	Vol.	A15130-5	46	MK401				A15786	1/15	2S569/TC29					7	[2]6SK7GT, 6SA7GT, 6J5GT, 6SQ7GT, 6F6G, 5Y3G	456	
	Tone	A15129-2	21	MK401	M26													
B5P6540	Vol.		18	UM154	M26		A96	30-20	1	2N513					6	12SA7GT, 12SK7GT, [2]12SQ7GT, 35L6GT, 35Z5GT	456	
B5P6542	Vol.		18	UM154	M26		A96	30-20	1	2N513					6	12SA7GT, 12SK7GT, [2]12SQ7GT, 35L6GT, 35Z5GT	456	
BP6552	Vol.	A15130-3	64	MK401				A15741	1	2S569					8	[2]6SK7GT, 6SA7GT, [2]6J5GT, 6SQ7GT, 6AC5G, 7Y4	456	
	Tone	A15128-2	22	MK400	M26													
B3P6554	Vol.	A15130-3	45	MK401				A14799-2	1	2S569					10	6SA7GT, 6SK7GT, [3]6P5GT, [3]6K6GT, 6U5, 6SF5GT, 5Y3G	456	
	Tone	A15128-3	44	MK400	M26													
B3P6556	Vol.	A15130-1	18	MK401				A14799	1	2S569					6	6A7, 78, 75, 76, 6AC5G, 80	456	
	Tone	A15128	22	MK400	M26													
B5P6570	Vol.	A15130-3	64	MK401				A15741	1	2S569					8	[2]6SK7GT, 6SA7GT, [2]6J5GT, 6SQ7GT, 6AC5G, 7Y4	456	
	Tone	A15128-2	22	MK400	M26													
B5P6580	Vol.	A15130-3	18	MK401				A15625	1	2S569					12	[2]6SK7GT, 6SA7GT, 6SQ7GT, [4]6P5GT, 6AF6G, [2]6AC5G, 5Y3G	456	
	Tone	A15128-3	44	MK400	M26													
B5P6582	Vol.	A15130-3	64	MK401				A15741	1	2S569					8	[2]6SK7GT, 6SA7GT, [2]6J5GT, 6SQ7GT, 6AC5G, 7Y4	456	
	Tone	A15128-2	22	MK400	M26													
BP6600	Vol.	A15132-5	18	MR48	M27			A15958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	
B3P6608	Vol.	A15130-3	18	MK401				A14958	12	TC42					6	1A7G, 1E4G, 1N5G, 1H5G, [2]1A5G	456	
	Tone	A15138	21	MK403	M27													
B5P6612 (Ch. 571)	Vol.	A15132-5	18	MR48	M26			A15958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	
B5P6612 (Ch. 611-1)	Vol.	A15130-3	18	MK401				A14958	12	TC42					6	1A7G, 1E4G, 1N5G, 1H5G, [2]1A5G	456	
	Tone	A15138	21	MK403	M27													
BP6622	Vol.	5-65	17	MR53	M27			7-56	12	TC42					5	1A7G, [2]1N5G, 1H5G, 1Q5G	456	
BP6700	Vol.	A15130-3	45	MK401				A14684	46	FP354		A15301	245A	C3	6	7A8, [2]7B7, 7C7, 7C6, 6G6G	456	
	Tone	A15128-2	22	MK400	M26			.01		Buffer	B14							
BP6850, B1P6850	Vol.		18	MR48	M26			12-12-10	24/15	2S569/TC22			859	C3	6	[2]6K7GT, 6A8GT, 6Q7GT, 6K6GT, 6X5GT	456	
								.0005		Buffer	B14							
B3P6854	Vol.	17-14536	18	UM157-SS12				17-14297	24/15	FP332		17-14747	859	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	455	
								.005		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
B5P6856	Vol.	17-16422	18	MR53	M26			17-14297 .005	24/15	FP332 Buffer	 B14	17-14747	859	C3	5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455	
B5P6858	Vol.	17-16422	18	MR53	M26			17-14297 .005	24/15	FP332 Buffer	 B14	17-14747	859	C3	5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455	
BP6860	Vol. Tone	24-103 26-103	18 22	UM157-SS17 MR48				18-264 .003	24/19	FP234/TC29 Buffer	 B14	34-104	859	C3	7	[3]6SK7, 6SA7, 6SQ7, 6J5GT, 6K6GT, 6X5GT	262	
CP5006, CP5007	Vol. Tone	A15130-5 A15129-2	124 21	MK401 MK401	 M26			A14780-2	1/15	2S569/TC45					7	6SD7GT, 6SA7GT, 6SK7GT, 6J5G, 6SQ7GT, 6F6G, 5Y3G	456	
CP5008, CP5009	Vol. Tone	A15130-3 A15128-2	45 22	MK401 MK400	 M26			A20188	1	2S569					8	6SD7GT, 6SA7GT, 6SK7GT, [3]6J5GT, 6SQ7GT, 6AC5G, 7Z4	456	
CP5010, CP5011	Vol. Tone	A15130-3 A15128-2	45 22	MK401 MK400	 M26			A20188	1	2S569					8	6SD7GT, 6SA7GT, 6SK7GT, [3]6J5G, 6SQ7GT, 6AC5G, 7Z4	456	
C5P5012	Vol.	A15129-1	64	MK401	M26			A15571	1	2N513					7	[3]12SK7GT, 12A8GT, 6H4GT, 12SF5GT, 35L6GT, 35Z5GT	456	
C5P5014	Vol. Tone	A15130-3 A15128-2	64 22	MK401 MK400	 M26			A15741	1	2S569					8	[3]6SK7GT, 6SA7GT, [3]6J5GT, 6SQ7GT, 6AC5G, 7Y4	456	
C7P5014	Vol. Tone	A15130-3 A15128-2	64 22	MK401 MK400	 M26			A15741	1	2S569					8	[3]6SK7GT, 6SA7GT, [3]6J5GT, 6SQ7GT, 6AC5G, 7Y4	456	
CP5020	Vol. Tone	50.70 55.29	140 140	MRT450 MR57	M26			20.125	1/13	TC74	B3				8	6SA7GT, 6U5, 6SK7GT, [3]6SQ7GT, [3]6K6GT, 80	456	13-54
CP5024	Vol.		‡	MR51				30-30-10	24/15	3N533					2	50L6, 35Z5		
CP5025	Vol.	5-301	50	MK402	M26			7-302	24/15	2N520/TC22					2	50L6GT, 35Z5GT		
CP5027	Vol.	5-301	50	MK402	M26			7-301	24	2N514					2	12SA7GT, 35Z5GT		
C5P5030	Vol.	5-301	18	MK402	M26			80-10-10	24/15	2N511/2N509	B8				5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	
CP5050, CP5051	Vol. Tone	A15130-3 A15128-2	45 21	MK401 MK400	 M26			A20188	1	2S569					8	6SD7GT, 6SA7GT, 6SK7GT, [3]6J5G, 6SQ7GT, 6AC5G, 7Z4	456	
CP5052, CP5053	Vol. Tone	A15130-3 A15128-2	45 22	MK401 MK400	 M26			A20188	1	2S569					8	6SD7GT, 6SA7GT, 6SK7GT, [3]6J5GT, 6SQ7GT, 6AC5G, 7Z4	456	
C5P5054, C5P5055	Vol. Tone	A15130-3 A15128-3	18 44	MK401 MK400	 M26			A15625	1	2S569					12	[3]6SK7GT, 6SA7GT, 6SQ7GT, [4]6P5GT, 6AF6G, [3]6AC5G, 5Y3G	456	
C5P5056	Vol. Tone	A15130-1 A15128	18 22	MK401 MK400	 M26			A14799	1	2S569					6	6A7, 78, 75, 76, 6AC5G, 80	456	
CP5060	Vol. Tone	50.70 55.29	140 140	MRT450 MR57	M26			20.125	1/13	TC74	B3				8	6SA7GT, 6U5, 6SK7GT, [3]6SQ7GT, [3]6K6GT, 80	456	13-54
CP5062	Vol. Tone	50.70 55.29	140 140	MRT450 MR57	M26			20-125	1/13	TC74	B3				8	6SA7GT, 6U5, 6SK7GT, [3]6SQ7GT, [3]6K6GT, 80	456	13-54
CP5100	Vol.	A15132-5	18	MR48	M27			A15958	12	TC42					5	1A7G, 1N5G, 1H5G, [3]1A5G	456	
CP5104, CP5105, CP5106, CP5107	Vol.	A15132-5	18	MR48	M27			A15958	12	TC42					5	1A7G, 1N5G, 1H5G, [3]1A5G	456	
C5P5110	Vol. Tone	A15130-3 A15138	18 21	MK401 MK403	 M26			A14958	12	TC42					6	1A7G, 1E4G, 1N5G, 1H5G, [3]1A5G	456	
CP5125	Vol.	P4612	18	UM161	M27		A96	P4589	24/78	Order from	Mfr.				5	1R5, 1T4, 1S5, 3S4, 35Z5	455	
C7P5128	Vol.	24-150	18	MK402				18-262 18-263	24 13/78	FP211 TCS45					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	
CP5150, CP5151	Vol.	A15132-5	18	MR48	M26			A15958	12	TC42					5	1A7G, 1N5G, 1H5G, [3]1A5G	456	
CP5200, CP5201, CP5202, CP5203	Vol.	5-55	18	MR48	M26			7-62 7-57	1 15	TCD62 TC22		39-6	859	C3	5	6D8G, 6S7G, 6T7G, 6C6G, 6ZY5G	456	
CP5450, CP5451	Vol.	17-17006	18	MR53				.015-.015 17-14297	24/15	Buffer FP332	B14 	17-14747	859	C3	5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	
C5P5452, C5P5453	Vol.		18	MR48	M26			.005 12-12-10 .0005	24/15	Buffer 2S569/TC22 Buffer	B14 B14		859	C3	6	[3]6K7GT, 6A8GT, 6Q7GT, 6K6GT, 6X5GT	456	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
C7P5454	Vol.	67-0020	18	Order from	Mfr.			61-0068	24/15	FP332		83-0025	859	C3	6	‡7B7, 7A8, 7C6, 7A5, 7Y4	455	
								.015		Buffer	B14							
CP5460, CP5461	Vol.	24-103	18	UM157-SS17				18-264	24/19	FP234/TC29		34-104	859	C3	7	‡6SK7, 6SA7, 6SQ7, 6J5GT, 6K6GT, 6X5GT	262	
	Tone	26-103	22	MR48				.003		Buffer	B14							
DP7000, DP7001, (Ch. T502)	Vol.	5-301	18	MK402	M27			7-301	24	2N514					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5	456	
DP7001-2 (Ch. T530)	Vol.	5-301	18	MK402	M26			7-301	24	2N514					5	14Q7, 14A7, 14B6, 50L6GT, 35Y4	456	13-69
DP7002-3	Vol.	5-304	18	MK402	M26			7-301	1	2N514					6	‡12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT	456	13-70
DP7006, DP7007	Vol.		18	MR48	M26			30-30	1	2N513					6	12SA7GT, 12SK7GT, ‡12SQ7GT, 35L6GT, 35Z5GT	456	14-15
DP7010, DP7011	Vol.	N3248	18	MK401	M26			N3554	24	TCD48					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
DP7012-50-60 (Ch. 722)	Vol.	A15130-6	45	MK401				A14780-2	1/15	2S569/TC45					7	6SD7GT, 6SA7GT, 6SK7GT, 6J5G, 6SQ7GT, 6F6G, 5Y3G	456	13-71,72
	Tone	A15129-9	21	MK401	M26													
DP7014	Vol.	A15130-2	45	MK401				A20188	1	2S569					8	‡6SK7GT, 6SA7GT, ‡6J5G, 6SQ7GT, 6AC5G, 7Z4	456	13-78, 79, 80
	Tone	A15128-7	22	MK400	M26													
DP7016	Vol.	M409	18	MR48	M26			M126	1	TC45					7	6SK7, 6SA7, 7E7, 7F7, ‡25L6, 25Z6	455	14-16
	Tone	M1384	22	MR53				M127	1	TC48								
DP7021	Vol.	N3065	18	UM154-SS22	M26			N3440	23	2S569					6	6A8GT, 6K7GT, ‡6Q7GT, 6K6GT, 6X5GT	456	
DP7022	Vol.	5-301	50	MK402	M26			7-302	24/15	2N520/TC22					2	50L6GT, 35Z5GT		
DP7025	Vol.	5-301	50	MK402	M26			7-302	24/15	2N520/TC22					2	50L6GT, 35Z5GT		
DP7031	Vol.	8910	18	MR48	M26			8425	1/13	FP360					8	12SA7GT, 12K7GT, ‡12SQ7GT, 6U5, ‡35L6GT, 35Z6G	455	
D5P7044, D5P7046	Vol.	A15130-3	45	MK401				A20188	1	2S569					8	6SD7GT, 6SR7GT, 6SK7GT, ‡6J5GT, 6SQ7GT, 6AC5G, 7Z4	456	
	Tone	A15128-2	22	MK400	M26													
DP7052	Vol.	A15130-2	64	MK401				A20188	1	2S569					9	‡6SK7GT, 6SA7GT, ‡6J5G, 6U5, 6SQ7GT, 6AC5G, 7Z4	456	
	Tone	A15128-7	22	MK400	M26													
DP7062	Vol.	50.74A	140	MRT450	M26			20.132	1	2S569					8	‡6SK7GT, 6SA7GT, ‡6SQ7GT, ‡6K6GT, 80	456	
	Tone	55.32	140	UC506														
DP7064	Vol.	50.74A	140	MRT450	M26			20.132	1	2S569					8	‡6SK7GT, 6SA7GT, ‡6SQ7GT, ‡6K6GT, 80	456	
	Tone	55.32	140	UC506														
D5P7068	Vol.	A15130-3	45	MK401				A20188	1	2S569					8	6SD7GT, 6SA7GT, 6SK7GT, ‡6J5G, 6SQ7GT, 6AC5G, 7Z4	456	
	Tone	A15128-2	22	MK400	M26													
D5P7070	Vol.		18	MR48	M26			40-20	1	2N514					6	‡12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	
	Tone		22	MR33														
DP7104 (Ch. 582-1)	Vol.	A15132-2	18	MR48	M26			A14958	12	TC42					5	1A7G, ‡1N5G, 1H5G, 3Q5GT	456	
DP7108 (Ch. 582-1)	Vol.	A15132-2	18	MR48	M26			A14958	12	TC42					5	1A7G ‡1N5G, 1H5G, 3Q5GT	456	
DP7108 (Ch. 5821M)	Vol.	A15132-5	18	MR48	M27			A14958	12	TC42					5	1A7G, ‡1N5G, 1H5G, 3Q5GT	456	13-75, 76,72
DP7112	Vol.	24-154	18	MK402	M27			18-250	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	
DP7120	Vol.	5-304	18	MK403	M24			7-303	24/78	Order from	Mfr.				6	‡1N5GT, 1A7GT, 1H5GT, 3Q5GT, 50Y6GT	456	13-77
DP7121	Vol.	50.67	18	MR48	M27			20-118	1	2N513					7	‡1N5GT, 1A7GT, 1H5GT, 3Q5GT, 50L6GT, 35Z5GT	456	14-17
								20-123	78	‡TC2501								
DP7122	Vol.	50.75	18	MR48	M26			20-137	24	2N513					5	1R5, 1T4, 1S5, 3S4, 35Z5GT	456	14-19
								20-136	78	‡TC2501								
D5P7154	Vol.		18	MR53	M27			10	13	TC42					5	1A7GT, 1N5GT, 1H5GT, ‡3Q5GT	456	
DP7450	Vol.		18	MR48	M26			12-12-10	24/15	2S569/TC22			859	C3	6	‡6K7GT, 6A8GT, 6Q7GT, 6K6GT, 6X5GT	456	14-20,6
								.0005		Buffer	B14							

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
DP7452	Vol.	67-0043	18	Order from	Mfr.			61-0089	24/15	FP328		83-0025	859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	455	
								.003		Buffer	B14							
DP7454	Vol.	67-0043	18	Order from	Mfr.			61-0089	24/15	FP328		83-0025	859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	455	
								.003		Buffer	B14							
D5P7456	Vol.	17-17006	18	MR53				17-14297	24/15	FP332		17-14747	859	C3	5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	
								.005		Buffer	B14							
EP2000, EP2001 (Ch. T502)	Vol.	5-301	18	MK402	M26			7-301	24	2N514					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5	456	
EP2000-1 (Ch.T530)	Vol.	5-301	18	MK402	M27			7-301	24	2N514					5	14Q7, 14A7, 14B6, 50L6GT, 35Y4	456	13-69
EP2002-3	Vol.	5-304	18	MK402	M26			7-301	1	2N514					6	‡12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT	456	13-70
EP2004	Vol.	5-310	18	MK402				A7-302	24/15	2N520/TC22					6	12SA7GT, ‡12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	456	
	Tone	5-311	22	UM124-SS25														
EP2010 (Ch. 722)	Vol.	A15130-6	45	MK401				A14780-2	1/15	2S569/TC45					7	6SD7GT, 6SA7GT, 6SK7GT, 6J5G, 6SQ7GT, 6F6G, 5Y3G	456	13-71,72
	Tone	A15129-9	21	MK401	M26													
EP2014, E10P2014, E11P2014	Vol.		18	MR48	M26			40-20	1	2N514					6	‡12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	
	Tone		22	MR33														
EP2050	Vol.	A15130-2	64	MK401				A20188	1	2S569					9	‡6SK7GT, 6SA7GT, ‡6J5G, 6U5, 6SQ7GT, 6AC5G, 7Z4	456	
	Tone	A15128-7	22	MK400	M26													
EP2060	Vol.	A15130-3	45	MK401				A20188	1	2S569					8	6SD7GT, 6SA7GT, 6SK7GT, ‡6J5G, 6SQ7GT, 6AC5G, 7Z4	456	13-73, 74,78
	Tone	A15128-2	22	MK400	M26													
EP2100, E10P2100	Vol.		18	MR53	M27			10	13	TC42					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	456	
EP2104 (Ch. 582-1)	Vol.	A15132-2	18	MR48	M26			A14958	12	TC42					5	1A7G, ‡1N5G, 1H5G, 3Q5GT	456	
EP2104 (Ch.5821M)	Vol.	A15132-5	18	MR48	M26			A14958	12	TC42					5	1A7G, ‡1N5G, 1H5G, 3Q5GT	456	13-75, 76,72
E11P2108	Vol.	24-162	18	MK402	M27			18-266	24	2N513					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z4GT	455	
								18-271	78	Order from	Mfr.							
EP2120	Vol.	5-304	18	MK403	M24			7-303	24	Order from	Mfr.				6	‡1N5GT, 1A7GT, 1H5GT, 3Q5GT, 50Y6GT	456	13-77
EP2121, E11P2121	Vol.	24-150	18	MK402				18-266	24	2N513					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z4GT	455	14-6
								18-271	78	Order from	Mfr.							
EP2121 (Ch. 2-54)	Vol.	24-150	18	MK402				18-266	24	2N513					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z4GT	455	
								18-271	78	Order from	Mfr.							
EP2122	Vol.		149	MK402				30-20-100	76	Order from	Mfr.				6	1R5, 1T4, 1S5, 3S4, 35Z5GT	455	
EP2124	Vol.		18	MR53	M27			10	13	TC42					5	1A7GT, 1N5GT, 1H5GT, ‡3Q5GT	455	
EP2450, E10P2451, E11P2451	Vol.		18	MR48	M26			12-12-10	24/15	2S569/TC22			859	C3	6	‡6K7GT, 6A8GT, 6Q7GT, 6K6GT, 6X5GT	456	14-20,6
								.0005		Buffer	B14							
EP2452	Vol.	67-0043	18	Order from	Mfr.			61-0089	24/15	FP328		83-0025	859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	455	
								.003		Buffer	B14							
EP2454	Vol.	67-0043	18	Order from	Mfr.			61-0089	24/15	FP328		83-0025	859	C3	6	‡7A7, 7B8, 7B6, 7C5, 7Y4	455	
								.003		Buffer	B14							
F5P508	Vol.	A15130-2	64	MK401				A20188	1	2S569					8	‡6SK7GT, 6SA7GT, ‡6J5G, 6SQ7GT, 6AC5G, 7Z4	456	
	Tone	A15128-7	22	MK400	M26													
FP510	Vol.	5-310	18	MK402	M26			7-304	46	TN129					6	12SA7GT, 12SK7GT, ‡12SQ7GT, 35L6GT, 35Z5GT	456	
								7-308	15	TC32								
FP512	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
FP514	Vol.	5-301	18	MK402	M26			7-301	24/15	2N514					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	
FP515	Vol.	5-301	50	MK402	M26			7-302	24/15	2N520/TC22					2	50L6GT, 35Z5GT		
F5P520	Vol.		18	MR48	M26			40-20	1	2N514					6	‡12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	
	Tone		22	MR33														
F5P608	Vol.	A15132-2	18	MR48	M26			A14958	12	TC42					5	1A7G, ‡1N5G, 1H5G, 3Q5GT	456	
F5P624	Vol.	24-150	18	MK402				18-266	24	2N513					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z4GT	455	
								18-271	78	Order from	Mfr.							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
1-40	Vol.	24-152	18	MR48	M26			18-265	24/15	3N533					4	12SA7, 12SQ7, 50L6GT, 35Z5GT	455	14-1
KG6628	Vol.	N3092	18	MK402	M27			N3161	12	TC32					4	1R5, 1T4, 1S5, 1S4	456	13-56
LB6517, LB6518	Vol.	N3248	18	MK401	M26			N3554	24	2N511					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	13-55
T40	Vol.	5-300	18	MK402				7-300	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	456	13-1
TP2000	Vol.	P1579	18	MR48	M26			P1591	1	2S567					6	6A7, 6D6, 75, 6H5, 41, 80	456	
	Tone	P1642	22	MR39														
TP2004	Vol.	2726	106	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 76, 6G5, [3]42, 80	456	
	Tone	2737	106	MR55				3351	23	RS213								
TP2008	Vol.	221	18	MR48	M26			1703	23	2S567					6	6A7, 6D6, 6Q7, 6U5, 41, 80	465	
	Tone	305	22	MR33														
TP2012	Vol.	19-2007	18	MR48	M26			18-2008	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5Z4	456	
TP2014	Vol.	P2392	18	MR53	M26			P2397	23	2S567					5	6A7, 6D6, 75, 41, 5Y3G	456	
TP2018	Vol.	221	18	MR48	M26			1703	23	2S567					7	6A7, 6D6, 76, 6U5, 6K5, 41, 80	465	
	Tone	305	22	MR33														
T2054	Vol.	2726	106	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 76, [3]42, 80, 6G5	456	12-13,14
	Tone	2737	106	MR55				3351	23	HD684								
TP2056	Vol.	24-105	18	MR48				18-102	1/15	3S579					6	6A7, 6D6, 6G5, 75, 41, 80	456	
TP2058	Vol.	P1916	124	MRT440	M26			P1939	24	2N518					11	6A8, 6J7, [2]6K7, [4]6J5, [2]6F6, 5Z3	456	
	Tone	P1917	‡	MR53														
TP2060	Vol.	P1989	124	Order from	Mfr.			P1993	3	RS223					16	[4]6K7G, 6L7G, 6J7G, [2]6H6G, [4]6J5G, [2]6L6G, [5]Z3	456	
	Tone	P1990	21	MR44				P1994	3	RS215								
	Bass	P1991	21	MR48				P1992	3	RS224								
								P1997	13	2N518								
TP2064	Vol.	24-105	18	MR48				18-213	23	2S567					7	6A7, 76, 6D6, 6G5, 75, 41, 80	456	
	Tone	26-106	21	MR48	M26													
TP2068	Vol.	221	45	MR48	M26			1730	1/15	FP316					6	6A7, 6D6, 76, 6K5, 41, 80	465	
TP2070	Vol.	24-115	‡			See Note A5		18-214	1	RS216					11	6A8G, [2]6C5G, 6G5, 6K7G, 6H6G, [2]6J7G, [2]6V6G, 80	456	
	Tone	26-112	44	Order from	Mfr.			18-215	1	RS215								
								18-216	13	TC52								
TP2080	Vol.	2726	18	MR48	M26			3375	23	RS216					7	6A7, 6D6, 76, 75, [3]42, 80	456	
	Tone	2737	147	MR55				3351	23	RS213								
TP2100, TP2102	Vol.	3671	15	MR48											5	1C6, 1A4, 30, 1B4, 1G5G	465	
	Tone	4486	22	MR33	M24													
TP2104, TP2106	Vol.	3761	15	UM154-SS16				3150	12	TC45					6	1C6, 34, 1F6, [3]30	465	
	Tone	2331	44	MR33	M24													
TP2108, TP2110, TP2112, TP2120	Vol.	2239	124	MR48											4	1C6, 34, 1F6, 33	465	
TP2150	Vol.	3671	15	MR48											5	1C6, 1A4, 30, 1B4, 1G5G	465	
	Tone	4486	22	MR33	M24													
TP2152	Vol.	P1579	63	MR48	M26			P1783	19	TC22					5	1A6, [3]1A4, 30, 1G5G	456	
	Tone	P1642	22	MR39														
TP2200, TP2202	Vol.	215	63	MR48	M26			1720	1	2N518			See Note C8		6	6D8, 6S7, [5]6L5, 1J6	465	
								.01		Buffer	B14							
TP2212	Vol.	3418	18	MR48	M27			3675	1	TC71		3421	245	C3	7	6D8G, 6S7G, 6T7G, 6L5G, 1H4G, [3]33	456	
								3574	1/13	TC55/TC52								
								.01		Buffer	B14							
TP2216	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P2147	859	C3	6	6D8G, 6L5G, 6S7G, 6T7G, 6G6G, 6ZY5G	456	
	Tone	P2137	34	MR39	M27			.015		Buffer	B14							
TP2226, TP2228	Vol.	3671	124	MR48				3060	1	2N518		3698	245A	C3	5	6D8G, [2]6S7G, 6L5G, 41	‡	
	Tone	3545	22	MR33				1693	15	TC22								
								.03		Buffer	B14							
TP2302	Vol.	P1371	64	UM154-SS3	M26			P1293	23	2S567		P1414	859	C3	7	6D6, 6A7, 6K7, 6H6, 6C5, 6V6G, 84	175	
								.0075		Buffer	B14							
TP2305, TP2306	Vol.	223	18	UM154	M26		A96	1718	4	2S567		1505	294	C3	5	6A7, 6K7, 6Q7, 41, 84	456	
								.006		Buffer	B14							
T2307 (Ch. 101503)	Vol.	24-119	18	MR48	M26			4	23	TC70		34-102	859	C3	5	6A7, 6D6, 6Q7G, 41, 84	456	13-24
								.0038		Buffer	B14							
VP1000, VP1004, VP1006	Vol.	A14779	18	MR48				A14799	1	2S569					7	6A7, 78, 75, 6U5, 76, 6AC5G, 80	456	
	Tone	A14778	22	MR44	M26													
VP1008	Vol.	19-2007	18	MR48	M26			18-2008	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5Z4	456	
VP1010, V8P1010	Vol.	221	18	MR48	M26			20-12-12	46	TN125					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	
V1P1012, V4P1012	Vol.	24-124	18	MR48	M26			18-232	1	TC48					5	6A7, 6D6, 75, 25L6G, 25Z5	455	
VP1014, V6P1014, V8P1014	Vol.	A14779	18	MR48				A14799	1	2S569					7	6A7, 78, 75, 6U5, 76, 6AC5G, 80	456	
	Tone	A14778	22	MR44	M26													
VP1016, V6P1016, V8P1016	Vol.	24-124	18	MR48	M26			18-232	1	TC48					5	6A7, 6D6, 75, 25L6G, 25Z5	455	

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
VP1020	Vol.	A14779	18	MR48				A14799	1	2S569					7	6A7, 78, 75, 6U5, 76, 6AC5G, 80	456	
	Tone	A14778	22	MR44	M26													
V8P1026	Vol.	19-2007	18	MR48	M26			18-2008	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5Z4	456	
VP1030	Vol.	221	18	MR48	M26			1736	1	FP227					8	6A7, 6D6, 6Q7, 76, 6U5, ‡43, 25Z5	465	
	Tone	305	44			See Note A5												
V1032	Vol.	221	18	MR48	M26			1732	1/15	FP316					5	6A7, 6D6, 6Q7, 41, 80	465	12-3
V1050 (Ch. 529)	Vol.	A14779	18	MR48				A14799	1	2S569					6	6A7, 78, 75, 76, 6AC5G, 80	456	13-31,32
	Tone	A14778	22	MR44	M26													
VP1052	Vol.	221	64	MR48	M26			1729	1/15	2S569/TC22					11	6A7, 6D6, ‡76, 6U5, ‡43, 25Z5	465	
	Tone	305	44			See Note A5												
VP1054, VP1056	Vol.	A14779	18	MR48				A14799	1	2S569					7	6A7, 78, 75, 6U5, 76, 6AC5G, 80	456	
	Tone	A14778	22	MR44	M26													
VP1058	Vol.	221	45	MR48	M26			1730	1/15	FP316					6	6A7, 6D6, 76, 6K5, 41, 80	465	
VP1060, V4P1060, V12P1060, VP1064, V6P1064, V8P1064	Vol.	A14779	18	MR48				A14799	1	2S569					7	6A7, 78, 75, 6U5, 76, 6AC5G, 80	456	
	Tone	A14778	22	MR44	M26													
VP1062	Vol.	221	18	MR48	M26			1703	23	2S567					6	6A7, 6D6, 6Q7, 6U5, 41, 80	465	
	Tone	305	22			See Note A5												
V4P1062	Vol.	P3015	18	MK401	M27			P3024	13	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	
VP1066	Vol.	221	64	MR48	M26			1729	1/15	2S569/TC22					11	6A7, 6D6, ‡76, 6U5, ‡43, 25Z5	465	
	Tone	305	44			See Note A5												
V1068, VP1068, (Ch. 6TAC)	Vol.	221	45	MR48	M26			1730	1/15	FP316					6	6A7, 6D6, 76, 6K5, 41, 80	465	13-34
V8P1068	Vol.	P801	17	UM163-SS3	M26			P1293	4	2S567		P816	294	C3	6	‡6D6, 6A7, 75, 41, 84	175	
	Tone	P828	22	MR39				P1312	15	TC22								
								.0075		Buffer	B14							
VP1070, VP1074	Vol.	221	64	MR48	M26			1729	1/15	2S569/TC22					11	6A7, 6D6, ‡76, 6U5, ‡43, 25Z5	465	
	Tone	305	44			See Note A5												
VP1080	Vol.	A14779	18	MR48				A14799	1	2S569					7	6A7, 78, 75, 6U5, 76, 6AC5G, 80	456	
	Tone	A14778	22	MR44	M26													
VP1100, VP1102	Vol.	221	64	MR48	M26			1732	22	FP316		1506	See Note	C8	7	6A8, 6S7, 6AB5, ‡6L5, 1J6	465	
								.02		Buffer	B14							
VP1104, VP1106	Vol.	221	18	MR48	M26			1732	1/15	FP316		1506	See Note	C8	8	6D8, 6S7, 6AB5, 6T7, 6L5, ‡33, 1H4	465	
	Tone	305	44			See Note A5		10	15	TC22								
								.02		Buffer	B14							
VP1112, VP1114	Vol.	221	64	MR48	M26			1732	22	FP316		1506	See Note	C8	7	6A8, 6S7, 6AB5, ‡6L5, 1J6	465	
								.02		Buffer	B14							
V1116 (Ch. 222)	Vol.	221	45	MR48	M26			1736	1	FP369		1505	294	C3	6	6A8, 6S7, ‡6L5, 41, 6ZY5G	465	13-39
								10	15	TC22								
								.01		Buffer	B14							
V1120, VP1120, V1P1120, V4P1120, VP1122, VP1124, V6P1124, V8P1124, VP1126	Vol.	24-124	18	MR48	M26			40-16	24	See Note	B3	34-103	246A	C3	4	6D8G, 6S7G, 6T7G, 6G6G	455	13-35
								.004		Buffer	B14							
VP1124 (5T-1.5v)	Vol.	221	18	MR48	M26			10	19	TC22					5	1A7G, 1N5G, 1H5G, ‡1A5G	465	
V12P1132	Vol.	11389	18	MK401	M26			11493	24	FP214					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
V1140, VP1140, V8P1140, VP1145, V4P1145 (Ch. 101505)	Vol.	24-119	18	MR48	M26			4	23	TC70		34-102	859	C3	5	6A7, 6D6, 6Q7G, 41, 84	456	13-24
								.0038		Buffer	B14							
VP1142	Vol.		17	MR55				8-6	4	2S567			294	C3	6	‡6D6, 6A7, 6Q7, 41, 0Z4	262	
	Tone		22			See Note A5		10	15	TC22								
								.008		Buffer	B14							
VP1146, V6P1146	Vol.	223	18	UM154	M26		A96	1718	4	2S567		1505	294	C3	5	6A7, 6K7, 6Q7, 41, 84	456	
								.006		Buffer	B14							
V1148, VP1148, V12P1148	Vol.	24-119	18	MR48	M26			18-240	4	FP227	B117	34-102	859	C3	6	6A7, 6D6, 6R7, 76, 41, 6Z4/84	456	12-7,8
								.004		Buffer	B14							
VP1150, VP1152	Vol.	221	64	MR48	M26			1732	22	FP316		1506	See Note	C8	7	6A8, 6S7, 6AB5, ‡6L5, 1J6	465	
								.02		Buffer	B14							
VP1154, VP1156, VP1157	Vol.	221	18	MR48	M26			1732	1/15	FP316		1506	See Note	C8	8	6D8, 6S7, 6AB5, 6T7, 6L5, ‡33, 1H4	465	
	Tone	305	44			See Note A5		10	15	TC22								
								.02		Buffer	B14							
VP1160, VP1162, VP1164, VP1166	Vol.	221	64	MR48	M26			1732	22	FP316		1506	See Note	C8	7	6A8, 6S7, 6AB5, ‡6L5, 1J6	465	
								.02		Buffer	B14							
VP1170, VP1172	Vol.	221	18	MR48	M27			1732	1/15	FP316		1506	See Note	C8	8	6D8, 6S7, 6AB5, 6T7, 6L5, ‡33, 1H4	465	
	Tone	305	44			See Note A5		10	15	TC22								
								.02		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued VP1200, VP1202	Vol.	4803	18	MK401	M23			1693	19	TC22					5	1C7G, 1D5G-P, 1H4G, 1E5G-P, 1G5G	455	
VP1208, V8P1208, V12P1208, VP1210, VP1212, VP1214	Vol.	4803	18	MK401	M23			1693	19	TC22					5	1C7G, 1D5G-P, 1H4G, 1E5G-P, 1G5G	455	
V1216, VP1216, V4P1216, V6P1216, V8P1216 (Ch. 405)	Vol.	24-129	18	MR53	M27			18-235	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	13-36
VP1220, V4P1220, VP1222	Vol.	4803	18	MK401	M23			1693	19	TC22					5	1C7G, 1D5G-P, 1H4G, 1E5G-P, 1G5G	455	
V1224 (Ch. 902)	Vol.	221	45	MR48	M26			10	12	TC42					5	1A7G, 1N5G, 1H5G, [1]1A5G	465	13-39
VP1230	Vol.	P3015	18	MK401	M27			P3024	13	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	
W102, WP102	Vol.	N1320	18	MR53	M26			N1312	1	FP217	B128				5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G	456	12-1
	Tone	N1321	‡	Order from	Mfr.													
W104, WP104	Vol.	A14725-1	18	UM154	M26		A96	A14799-1	1	2S569					6	6J8G, 78, 75, 76, 6AC5G, 80	456	13-3,4
W108, WP108, W2P108	Vol.	A14725-1	18	UM154	M26		A96	A14799-1	1	2S569					6	6J8G, 78, 75, 76, 6AC5G, 80	456	
W112, WP112, W5P112, W5P113	Vol.	P2935	18	MR48	M26			P2936	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5	455	13-5,6
W114, WP114, W4P114	Vol.	A14725-1	18	UM154	M26		A96	A14799-1	1	2S569					6	6J8G, 78, 75, 76, 6AC5G, 80	456	13-3,4
W116, WP116	Vol.	A14725-1	18	UM154	M26		A96	A14799-1	1	2S569					7	6J8G, 78, 6U5, 75, 76, 6AC5G, 80	456	13-3
W120	Vol.	A14725-1	18	UM154	M26		A96	A14799-1	1	2S569					6	6J8G, 78, 75, 76, 6AC5G, 80	456	13-3,4
W122, WP122, (Ch. KR-20)	Vol.	R198	18	MR48				A481	1	2N513					5	6K8, 6K7, 6R7, 25L6, 25Z6	448	13-7,8
W130	Vol.	V23	6	UM129-SS18	M26	EX200		C233	46	TN125					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT		12-2
W132	Vol.	221	18	MR48	M26			1732	1/15	FP316					5	6A7, 6D6, 6Q7, 41, 80	465	12-3
W134, W6P134	Vol.	N1738	18	MK401	M27			N1367	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	12-4
W150, WP150	Vol.	A14725-1	18	UM154	M26		A96	A14799-1	1	2S569					6	6J8G, 78, 75, 76, 6AC5G, 80	456	13-3,4
W154, W156	Vol.	5-61	15	MK401	M26			7-49	1	RS223					12	6A7, 6D6, [3]76, 6U5, [4]2, [3]80	456	13-11
	Tone	5-52	21	MK401				7-51	1	RS219								
W164, WP164, W6P164	Vol.	A14725-1	18	UM154	M26		A96	A14799-1	1	2S569					6	6J8G, 78, 75, 76, 6AC5G, 80	456	13-3,4
W166	Vol.	A15130-1	18	MK401				A14799	1	2S569					6	6A7, 78, 75, 76, 6AC5G, 80	456	13-57
	Tone	A15128-1	22	MK400	M26													
W180, WP180	Vol.	P2558A	18	MK401	M26			P2761	1	TC72					5	6A7, 6D6, 75, 41, 80	262	13-9,10
	Tone	P2559A	22	MK401														
W200, WP200, WP202, WP203 (Ch. QT)	Vol.	V-20	18	MR53	M26			C242	1	FP225		F-4	246	C3	7	6D8G, 6S7G, [1]H4G, 6T7G, 6L5G, 1J6G	456	13-65,66
	Tone	V-112	67	MR36				.01		Buffer	B14							
WP212, WP214	Vol.	221	18	MR48	M26			1732	1/15	FP316		1506	See Note	C8	8	6D8, 6S7, 6AB5, 6T7, 6L5, [3]33, 1H4	465	
	Tone	305	44			See Note	A5	10	15	TC22								
								.02		Buffer	B14							
W216, WP216	Vol.	N1320	18	MR53	M26			N1468	46	FP360		N1475	246	C3	4	6A8G, 6K7, 6Q7G, 6G6G	456	12-5
								.01-.01		Buffer	B14							
WP218	Vol.	N1320	18	MR53	M26			N1468	46	FP360		N1475	246	C3	4	6A8G, 6K7, 6Q7G, 6G6G	456	
								.01-.01		Buffer	B14							
W230, WP230, W2P230, WP232 (Ch. QT)	Vol.	V-20	18	MR53	M26			C-242	1	FP225		F-4	246	C3	7	6D8G, 6S7G, [1]H4G, 6T7G, 6L5G, 1J6G	456	13-65,66
	Tone	V-112	67	MR36				.01		Buffer	B14							
W4P234	Vol.	11389	18	MK401	M26			11493	24	FP214					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
W240, WP240, W6P240 (Ch. QT)	Vol.	V-20	18	MR53	M26			C-242	1	FP225		F-4	246	C3	7	6D8G, 6S7G, [1]H4G, 6T7G, 6L5G, 1J6G	456	13-65,66
	Tone	V-112	67	MR36				.01		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
W254, WP254, W2P254, WP256, (Ch. QT)	Vol.	V-20	18	MR53	M26			C-242	1	FP225		F-4	246	C3	7	6D8G, 6S7G, [2]1H4G, 6T7G, 6L5G, 1J6G	456	13-65,66
	Tone	V-112	67	MR36				.01		Buffer	B14							
WP260	Vol.	221	18	MR48	M26			1732	1/15	FP316		1506	See Note	C8	8	6D8, 6S7, 6AB5, 6T7,		
	Tone	305	44			See Note	A5	10	15	TC22						6L5, [2]33, 1H4	465	
								.02		Buffer	B14							
W264, WP264, W4P264 (Ch. QT)	Vol.	V-20	18	MR53	M26			C-242	1	FP225		F-4	246	C3	7	6D8G, 6S7G, [2]1H4G, 6T7G, 6L5G, 1J6G	456	13-65,66
	Tone	V-112	67	MR36				.01		Buffer	B14							
W270, WP270, W5P270 (Ch. QT)	Vol.	V-20	18	MR53	M26			C-242	1	FP225		F-4	246	C3	7	6D8G, 6S7G, [2]1H4G, 6T7G, 6L5G, 1J6G	456	13-65,66
	Tone	V-112	67	MR36				.01		Buffer	B14							
W300, WP300	Vol.	N1373	18	MR48	M27			N1367	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	12-6
	Tone	N1454	22	Order from	Mfr.													
W302, WP302 (Ch. TL)	Vol.	N1373	18	MR48	M27			N1367	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	13-17,2
WP304, WP306	Vol.	4803	18	MK401	M23			1693	19	TC22					5	1C7G, 1D5G-P, 1H4G, 1E5G-P, 1G5G	455	
W310 (Late)	Vol.	10441	18	MK401	M27			1693	19	TC22					4	1A7, 1N5G, 1H5G. 1A5G	455	13,12, 13,14
W312, WP312, W2P312	Vol.	N1373	18	MR48	M27			N1367	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	12-6
	Tone	N1454	22	Order from	Mfr.													
W314, WP314, W4P314, W6P314 (Ch. 187B)	Vol.	4871	62	UM154-SS22				1693	19	TC22					5	1A7G, 1N5G, [2]1A5G, 1H5G	455	13-15,16
W316, WP316, W5P316 (Ch. 187B)	Vol.	4871	62	UM154-SS22				1693	19	TC22					5	1A7G, 1N5G, [2]1A5G, 1H5G	455	13-15,16
W320, WP320, W5P320	Vol.	5-62	18	MR48				10	19	TC22					4	1A7G, 1N5G, 1H5G, 1Q5G	456	12-9
W330, WP330, W6P330	Vol.	5-62	18	MR48				10	19	TC22					4	1A7G, 1N5G, 1H5G, 1Q5G	456	12-9
WP350, WP352	Vol.	4803	18	MK401	M23			1693	19	TC22					5	1C7G, 1D5G-P, 1H4G, 1E5G-P, 1G5G	455	
W400, WP400	Vol.	24-119	18	MR48	M26			18-240	4	FP227	B117	34-102	859	C3	6	6A7, 6D6, 6R7, 76,		
								.004		Buffer	B14					41, 6Z4/84	456	12-7,8
WP402	Vol.	24-119	18	MR48	M26			18-240	4	FP227	B117*	34-102	859	C3	6	6A7, 6D6, 6R7, 76,		
								.004		Buffer	B14					41, 6Z4/84	456	
W404, WP404	Vol.	24-103	18	UM157-SS17				18-247	24	TC72		34-101	859	C3	7	6K7GT, 6A8GT, 6D6,		
	Tone	26-103	22	MR48				18-248	24/19	FP332	B70					75, 6P5GT,		
								.007		Buffer	B14					6AC5G, 80	262	13-18
W406, WP406, W4P406, W5P406, W6P406 (Ch. 620)	Vol.	5-62	18	MR48	M26			7-65	24	TCS74			859	C3	6	6A7, 6D6, 75, 76,		
								.016-.016		Buffer	B14					6AC5G, 84	456	13-19
W408	Vol.	N1238	18	Order from	Mfr.			N1369	24/15	FP328	B117	N1236	264	C3	4	6A8GT, 6K7GT,		
								.008-.008		Buffer	B14					6Q7GT, 6K6GT	456	12-10
Z7000, ZP7000	Vol.	A15130-1	18	MK401				A14799	1	2S569					6	6A7, 78, 75, 76,		
	Tone	A15128-1	22	MK400	M26											6AC5G, 80	456	13-57
Z7002 (Ch. 0-51)	Vol.	24-140	18	MR48	M26			18-254	1	2S569					5	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 5W4GT	455	13-58
ZP7004	Vol.	5-61	18	MK401	M26			7-58	1	2S569					8	6A7, 6D6, 75, 6U5, 76, [2]41, 80	456	
Z7006, ZP7006, Z5P7006	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-1
Z7008-9 (Ch. P)	Vol.	V23	6	UM129-SS18	M26	EX200		C233	46	TN125					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT		12-2
Z7008-9 (Late) (Ch. TP)	Vol.	N1537	6	UM129-SS18	M26	EX200		N1850	24/15	3N533					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT		12-2
ZP7008, ZP7009	Vol.	6556	6	MR22	M26			‡	24	See Note.	B3				4	6K7GT, 6F5GT, 25L6GT, 25Z6GT		14-11
Z7010, ZP7010, Z7011, Z7012 (Ch. 5L)	Vol.	P2935	18	MR48	M26			P2936	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5	455	13-5,6
Z7014, ZP7014, Z3P7014	Vol.	A15130-1	18	MK401				A14799	1	2S569					6	6A7, 78, 75, 76,		
	Tone	A15128-1	22	MK400	M26											6AC5G, 80	456	13-57

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
Z7016, ZP7016, Z5P7016	Vol.	A15130-1	18	MK401				A14799	1	2S569					6	6A7, 78, 75, 76, 6AC5G, 80	456	13-57
	Tone	A15128-1	22	MK400	M26													
Z7018 (Ch. 0-61)	Vol.	24-142	18	MR48	M26			18-241	1	2N509					5	6A7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	13-59
ZP7024	Vol.	Y-VC-37	18	MR48	M26			‡	1	See Note	B3				5	12SA7GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	
Z5P7026	Vol.	24-146	45	MR48	M26			18-255	1	2N514					6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 25L6GT, 25Z6GT	455	11-1
Z7026, Z5P7026 (Ch. 0-77)	Vol.	24-144	18	MR48	M26			18-258	1	2N509					6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 25L6GT, 25Z6GT	455	13-60
Z7028 (Ch. 8C)	Vol.		18	UM154	M26		A96	10-10	1	FP231					8	6A7, 6D6, 75, 6U5, 76, [2]41, 80	455	13-61
	Tone		22	UM154			A96											
Z7030, Z7P7030	Vol.	A15129-1	18	MK401	M26			A15571	1	2N513					7	[2]12SK7GT, 12A8GT, 6H4GT, 12SF5GT, 35L6GT, 35Z5GT	456	13-62
ZP7030	Vol.	A15129-1	64	MK401	M26			A15571	1	2N513					7	[2]12SK7GT, 12A8GT, 6H4GT, 12SF5GT, 35L6GT, 35Z5GT	456	
Z7050, ZP7050	Vol.	A15130-1	18	MK401				A14799	1	2S569					6	6A7, 78, 75, 76, 6AC5G, 80	456	13-57
	Tone	A15128-1	22	MK400	M26													
ZP7052	Vol.	5-61	18	MK401	M26			7-58	1	2S569					8	6A7, 6D6, 75, 6U5, 76, [2]41, 80	456	
Z7054, ZP7054 (Ch. 912)	Vol.	5-61	15	MK401	M26			7-49	1	RS223					12	6A7, 6D6, [3]76, 6U5, [2]42, [3]80	456	13-63
	Tone	5-52	21	MK401				7-51	1	RS219								
Z7056, ZP7056, Z5P7056	Vol.	A14725-1	18	UM154	M26		A96	A14799-1	1	2S569					6	6J8G, 78, 75, 76, 6AC5G, 80	456	13-3,4
Z7058, ZP7058, Z5P7058	Vol.	A14725-1	18	UM154	M26		A96	A14799-1	1	2S569					6	6J8G, 78, 75, 76, 6AC5G, 80	456	13-3,4
Z7062, ZP7062, Z5P7062 (Ch. 912)	Vol.	5-61	15	MK401	M26			7-49	1	RS223					12	6A7, 6D6, [3]76, 6U5, [2]42, [3]80	456	13-63
	Tone	5-52	21	MK401				7-51	1	RS219								
Z7064, Z7P7064	Vol.	A15130-1	18	MK401				A14799	1	2S569					6	6A7, 78, 75, 76, 6AC5G, 80	456	13-57
Z7080	Vol.	P3335	18	MK401	M26			10-10	1	FP231	B117				7	6A7, 6D6, 75, [2]41, 76, 80	455	12-21,22
	Tone	P3337	22	MK401														
ZP7080, Z5P7080	Vol.	P3335	18	MK401	M26			P3419	1	FP231					7	6A7, 6D6, 75, 76, [2]41, 80	455	
	Tone	P3337	22	MK401														
Z7100	Vol.	10441	124	MK401	M27			1693	19	TC22					6	1A7G, [2]1N5G, [2]1A5G, 1H5G	455	13-29
	Tone	11098	22	Order from	Mfr.													
Z7104, ZP7104, ZP7106 (Ch. 560-1)	Vol.	A15132-2	18	MR48	M26			A14958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	13-64
Z7108 (Early)	Vol.	4803	18	MK401	M23			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-38
Z7108	Vol.	11132	18	MK401	M27			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-31,32
Z5P7112	Vol.	24-148	18	UM161	M27		A96	18-250	12	TC40					5	1A7GT, 1N5GT, 1H5GT, [2]1A5GT	455	11-1
ZP7112, ZP7114, (Ch. 560-1)	Vol.	A15132-2	18	MR48	M26			A14958	12	TC42					5	1A7GT, 1N5G, 1H5G [2]1A5G	456	
Z7116, ZP7116, Z7P7116	Vol.	10441	45	MK401	M27			1693	19	TC22					6	1A7G, [2]1N5G, [2]1A5G, 1H5G	455	12-39
	Tone	11098	22	Order from	Mfr.													
ZP7118	Vol.	10441	45	MK401	M27			1693	19	TC22					6	1A7G, [2]1N5G, [2]1A5G, 1H5G	455	
	Tone	11098	22	Order from	Mfr.													
ZP7120	Vol.	6257	18	MR48	M27			5779	12	TC42					5	[2]1N5, 1A7, 1H5, 1C5	455	
ZP7122	Vol.	6257	18	MR48	M27			6640	1	TC48					5	1A7, 1N5, 1H5, 1Q5, 25Z6GT	455	
								5779	12	TC42								
								6660	78	TC26								
Z7124, ZP7124	Vol.	N1738	18	MK401	M27			N1367	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	12-4
ZP7125	Vol.	A15132-2	18	MR48	M26			A14958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	
Z5P7125	Vol.	A15132-1	18	MR48	M27			A14684-5	46	FP354					5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5GT	456	
Z7126, ZP7126, Z7P7126	Vol.	P3560	18	UM161-SS22	M27			P3563	1	2N514					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 70L7GT	455	12-37
								P3562	15/12	TC29								
Z7150, ZP7150, (Ch. 560-1)	Vol.	A15132-2	18	MR48	M26			A14958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	13-64

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
Z7154	Vol.	10441	124	MK401	M27			1693	19	TC22					6	1A7G, [2]1N5G, [2]1A5G, 1H5G	455	13-29
	Tone	11098	22	Order from	Mfr.													
ZP7154	Vol.	10441	18	MK401	M27			1693	19	TC22					4	1A7G, 1N5G, 1H5G, 1A5G	455	
ZP7200, ZP7202 (Ch. QT)	Vol.	V-20	18	MR53	M26			C-242	1	FP225		F-4	246	C3	7	6D8G, 6S7G, [2]1H4G, 6T7G, 6L5G, 1J4G	456	13-65,66
	Tone	V-112	95	MR36				.01-.01		Buffer	B14							
Z7208	Vol.	4839	18	MK401	M26			4841	24	2N509		3698	245A	C3	4	6D8G, 6S7, 6T7G, 6G6G	455	12-35,36
								1693	15	TC22								
								.03		Buffer	B14							
ZP7212, Z3P7212, ZP7214, ZP7216, Z5P7216, ZP7218	Vol.	A15130-1	64	MK401				A14684-6	46	FP354		A15301	245A	C3	6	7A8, [2]7B7, 7A6, 7C6, 6G6G	456	
	Tone	A15128	22	MK400	M26			.01		Buffer	B14							
ZP7250, ZP7252, ZP7254, Z5P7254, ZP7256	Vol.	A15130-1	64	MK401				A14684-6	46	FP354		A15301	245A	C3	6	7A8, [2]7B7, 7A6, 7C6, 6G6G	456	
	Tone	A15128	22	MK400	M26			.01		Buffer	B14							
Z7450, ZP7450, ZP7454 (Ch. 620)	Vol.	5-62	18	MR48	M26			7-65	24	TCS74			859	C3	6	6A7, 6D6, 75, 76, 6AC5G, 84	456	13-19
								.016-.016		Buffer	B14							
Z7456, Z7458 (Ch. 297)	Vol.	6687	18	MR48	M26			6714	24	2N518		6735	248	C3	4	6K8GT, 6K7GT, 6SQ7GT, 6K6GT	455	13-67
								.005		Buffer	B14							
Z7460, ZP7460	Vol.	17-16422	18	MR53	M26			17-14297	24/15	FP332		17-14747	859	C3	5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455	12-34
								.005		Buffer	B14							
Z7462, ZP7462	Vol.	17-16422	18	MR53	M26			17-14297	24/15	FP332		17-14747	859	C3	5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455	12-34
								.005		Buffer	B14							
100	Vol.	P630	18	MR48	M26			P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	9-1
102, 104, 112, 114, 124 (Ch. Z4)	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 34, [2]30, 32, 19	456	10-5
	Tone	P682	34	MR39				.01-.01		Buffer	B14							
120	Vol.	P660	75	MR48	M26			P474	32	HD684					7	6L7, 6K7, 6H6, 6F5, 6F6, 6C5, 5Z4	456	9-3
	Tone	P661	34	MR39				P160	32	2N518								
								P304	15	TC22								
128B	Vol.	4803	45	MK401	M23			1693	19	TC22					5	1C7G, 1D5GP, 1H4G, 1E5GP, 1G5G	455	11-3
	Tone	4862	22	UM133-SS25														
130	Vol.	P660	18	MR48	M26			P474	32	HD684					8	6L7, 6K7, [2]6Q7, 6C5, [2]6F6, 5Z4	456	9-5
	Tone	P661	44	MR39				P160	32	2N518								
								P304	15	TC22								
132	Vol.	6221	18	MR48	M26			8812	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5	465	9-6,8
134	Vol.	P660	18	MR48	M26			P474	32	HD684					8	6L7, 6K7, [2]6Q7, 6C5, [2]6F6, 5Z4	456	9-5
	Tone	P661	44	MR39				P160	32	2N518								
								P304	15	TC22								
134 (Ch. 46A)	Vol.	2198	18	UM154-SS16				1477	25	RS215					8	6A7, 6K7, 75, 6C5, [2]6F6, 6G5, 80	465	10-1,2
	Tone	2199	44	MR33	M26			1476	25	RS216								
								1110	13	TC70								
140	Vol.	P660	75	MR48	M26			P474	32	HD684					7	6L7, 6K7, 6H6, 6F5, 6F6, 6C5, 5Z4	456	9-3
	Tone	P661	34	MR39				P160	32	2N518								
								P304	15	TC22								
142	Vol.		18	MR48	M27										6	1C6, [2]34, 1B5, 30, 19	456	11-5
	Tone		22	MR33														
144	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, [2]34, [2]30, 19	456	9-6
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
146	Vol.	P660	18	MR48	M26			P474	32	HD684					8	6L7, 6K7, [2]6Q7, 6C5, [2]6F6, 5Z4	456	9-5
	Tone	P661	44	MR39				P160	32	2N518								
								P304	15	TC22								
150	Vol.	2239	18	MR48											4	1C6, 34, 1B5, 33	465	9-11
152	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, [2]34, [2]30, 19	456	9-6
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
154	Vol.		18	MR48	M27										6	1C6, [2]34, 1B5, 30, 19	456	11-5
	Tone		22	MR33														
160 (Ch. 603 1936)	Vol.		17	MR48	M26			8, 8	4	RS213					6	[2]6D6, 76, 75, 42, 80	456	10-3
	Tone		22	MR39														
167	Vol.	P691	45	Order from	Mfr.			P958	1	2N518		P402	245C	C3	6	1C6, 34, [2]30, 32, 19	456	9-9
	Tone	P692	44	MR39				.01-.01		Buffer	B14							
169 (Ch. H1)	Vol.		18	UM154-SS3				8-8	1	2N518			249	C3	6	[2]6D6, 6L7, 75, 76, 42	465	10-6
	Tone		22	UM140		See Note A96		12	15	TC22								
								.005		Buffer	B14							
172 (Ch. Z4)	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 34, [2]30, 32, 19	456	10-5
	Tone	P682	34	MR39				.01-.01		Buffer	B14							
178	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, [2]34, [2]30, 19	456	9-6
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
178 (Ch. M5 1936)	Vol.	P1142	18	MR48	M27			8-8	1	2N516		P402	245C	C3	7	1C6, [2]34, [2]30, 19	456	10-7
	Tone	P1058	22	MR53				.01-.01		Buffer	B14							
180, 184 (Ch. 603 1936)	Vol.		17	MR48	M26			8, 8	4	RS213					6	[2]6D6, 76, 75, 42, 80	456	10-3
	Tone		22	MR39														
182, 183	Vol.	P691	45	Order from	Mfr.			P958	1	2N518		P402	245C	C3	6	1C6, 34, [2]30, 32, 19	456	9-9
	Tone	P962	44	MR39				.01-.01		Buffer	B14							

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
184 (Ch. 603 1936)	Vol.		17	MR48	M26			8, 8	4	RS213					6	[2]6D6, 76, 75, 42, 80	456	10-3
	Tone		22	MR39														
186	Vol.	P801	17	UM161-SS3	M26			P795	4	TCS71		P816	294	C3	6	6D6, 6A7, 6K7, 75, 6F6, 84	175	9-10
	Tone	P828	22	MR39				G864	15	TC22								
								.0075		Buffer	B14							
188	Vol.	2239	18	MR48											4	1C6, 34, 1B5, 33	465	9-11
190	Vol.	P660	18	MR48	M26			P474	32	HD684					8	6L7, 6K7, [2]6Q7, 6C5, [2]6F6, 5Z4	456	9-5
	Tone	P661	44	MR39				PL60	32	2N518								
								P304	15	TC22								
204 (Ch. SM)	Vol.	N1320	18	MR53	M26			N1468	46	FP360		N1431	859	C3	5	6A8G, 6K7, 6Q7G, 6G6G, 6ZY5G	456	13-2
	Tone	N1454	20	MR39														
297	Vol.	6687	18	MR48	M26			6714	24	2N518		6735	248	C3	4	6K8GT, 6K7GT, 6SQ7GT, 6K6GT	455	
								.005		Buffer	B14							
510	Vol.		18	MR48				8, 8	4	TC71					5	6A7, 6D6, 75, 42, 80	456	13-20
512	Vol.		18	MR48	M26			40-20	1	2N514					6	[2]12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	14-2
	Tone		85	MR33														
520 (Ch. RE-84)	Vol.	17-17006	18	MR53				17-14297	24	FP332		17-14747	859	C3	5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	13-21
								.005		Buffer	B14							
540, 541	Vol.		18	MR48	M26			30-20	1	2N513					6	12SA7GT, 12SK7GT, [2]12SQ7GT, 35L6GT, 35Z5GT	456	13-5
571-1	Vol.	A15132-2	18	MR48	M26			A14958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	13-23
572-1M	Vol.	A15132-5	18	MR48	M27			A14958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	14-3,4
604	Vol.		18	UM154	M27		A96	10	12	TC42					5	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT	455	
	Tone		85	UM154			A96											
621	Vol.		18	MR48	M26			12-12-10	24/15	2S569/TC22			859	C3	6	[2]6K7GT, 6A8GT, 6Q7GT, 6K6GT, 6X5GT	456	13-25
								.0005		Buffer	B14							
629	Vol.	A14779	18	MR48				A14799	1	2S569					7	6A7, 78, 75, 6U5, 76, 6AC5G, 80	456	13-26
	Tone	A14778	22	MR44	M26													
630-6	Vol.	A15130-1	127	MK401				A14684-6	46	FP354		A15301	245A	C3	6	7A8, [2]7B7, 7A6, 7C6, 6G6G	456	14-4,5
	Tone	A15128	22	MK400	M26			.01		Buffer	B14							
661	Vol.	A15130-5	18	MK401				A14780-2	1/15	2S569/TC45					7	6SA7GT, 6SK7GT, [2]6SQ7GT, 6F6G, 5Y3G, 6U5 or 6G5	456	14-9,10
	Tone	A15128	22	MK400	M26			A14782-1	13	TC52								
701-8AC	Vol.	5-61	18	MK401	M26			7-58	1	2S569					7	6A7, 6D6, 6U5, 75, 41, 76, 80	456	14-11,12
	Tone	5-52	118	MK401														
720	Vol.	A15130-1	18	MK401				A14799	1	2S569					7	6A7, 78, 6U5, 75, 76, 6AC5G, 80	456	13-57
	Tone	A15128-1	22	MK400	M26													
751	Vol.	A15130-5	46	MK401				A15786	1/15	2S569/TC26					7	[2]6SK7GT, 6SA7GT, 6J5G, 6SQ7GT, 6F6G, 5Y3G	456	13-33
	Tone	A15129-2	21	MK401	M26													
752	Vol.	A15130-5	46	MK401				A14780-1	1/15	2S569/TC45					7	6SD7GT, 6SA7GT, 6SK7GT, 6J5G, 6SQ7GT, 6F6G, 5Y3G	456	13-27,28
	Tone	A15129-2	21	MK401	M26													
822	Vol.	A15130-2	45	MK401				A20188	1	2S569					8	[2]6SK7GT, 6SA7GT, [2]6J5G, 6SQ7GT, 6AC5G, 7Z4	456	14-13,14
	Tone	A15128-7	22	MK400	M26													
832	Vol.	A15130-3	45	MK401				A20169	1	2S569					8	6SD7GT, 6SA7GT, 6SK7GT, [2]6J5GT, 6SQ7GT, 6AC5G, 7Z4	456	13-29,30
	Tone	A15128-2	22	MK400	M26													
922	Vol.	A15130-2	45	MK401				A20188	1	2S569					9	[2]6SK7GT, 6SA7GT, [2]6J5G, 6U5, 6SQ7GT, 6AC5G, 7Z4	456	14-13,14
	Tone	A15128-7	22	MK400	M26													
932	Vol.	A15130-3	45	MK401				A20169	1	2S569					9	6SD7GT, 6SA7GT, 6SK7GT, 6U5, [2]6J5G, 6SQ7GT, 6AC5G, 7Z4	456	13-29,30
	Tone	A15128-2	22	MK400	M26													
1002, 1003 (Ch. 219)	Vol.	221	18	MR48	M26			1732	1/15	FP316					5	6A7, 6D6, 6Q7, 41, 80	465	10-8
1008, 1009	Vol.	19-2007	18	MR48	M26			18-208	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5Z4	456	11-6
1010, 1011 (Ch. 216)	Vol.	221	18	MR48	M26			20-12-12	46	TN125					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	10-9
1026	Vol.	19-2007	18	MR48	M26			18-2008	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5Z4	456	
1050, 1051 (Ch. 529)	Vol.	A14779	18	MR48				A14799	1	2S569					6	6A7, 78, 75, 76, 6AC5G, 80	456	13-31,32
	Tone	A14778	22	MR44	M26													
1052, 1053 (Ch. 218)	Vol.	221	45	MR48	M26			1729	1	2S569					11	6A7, 6D6, [2]76, [2]43, 6U5, 25Z5	465	10-10
	Tone	305	44	‡		See Note A5		10	15	TC22								
1100 to 1103 inc. (Ch. 202)	Vol.	221	45	MR48	M26			1732	1/15	FP316		1506	See Note C8		7	6A8, 6S7, [2]6L5, 1J6, 6AB5	465	10-11
	Tone	305	34	‡		See Note A5		.02		Buffer	B14							
1104 to 1107 inc. (Ch. 220)	Vol.	221	18	MR48	M26			15-15-40	1/15	FP316			See Note C8		8	6D6, 6S7, 6T7, 6AB5, 6L5, [2]33, 1H4	465	10-12
	Tone	305	44	‡		See Note A5		.02		Buffer	B14							
1108 to 1111 inc. (Ch. 211)	Vol.	221	18	MR48	M26			1732	1/15	FP316		1505	294	C3	5	6A8, 6S7, 6T7, 41, 6ZY5	465	10-13
	Tone	305	34	‡		See Note A5		.01		Buffer	B14							

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
1142, V1142, 1143	Vol.		17	MR55				8-6	4	2S567			294	C3	6	[2]6D6, 6A7, 6Q7, 41, 0Z4	262	12-11
	Tone		22	‡		See Note	A3	10	15	TC22								
								.008		Buffer	B14							
1150 to 1153 inc. (Ch. 212)	Vol.	221	45	MR48	M26			1732	1/15	FP316			See Note	C8	7	6A8, 6S7, [2]6L5, 1J6, 3AB5	465	10-11
	Tone	305	34	‡		See Note	A5	.02		Buffer	B14							
1154 to 1157 inc. (Ch. 220)	Vol.	221	18	MR48	M26			15-15-40	1/15	FP316			See Note	C8	8	6D6, 6S7, 6T7, 6AB5, 6L5, [3]3, 1H4	465	10-12
	Tone	305	44	‡		See Note	A5	.02		Buffer	B14							
1204, 1205, 1206, 1207	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	11-7
1271SP	Vol.	A15130-3	18	MK401				A15625	1	2S569					12	[3]6SK7GT, 6SA7GT, 6SQ7GT, [4]6P5GT, 6AF6G, [3]6AC5G, 5Y3G	456	13-37,38
	Tone	A15128-3	44	MK400	M26													
1555	Vol.	5-65	18	MR53	M27			7-56	12	TC42					5	1A7G, [2]1N5G, 1H5, 1Q5G		13-40
1831	Vol.	A15130-3	45	MK401				A15741	1	2S569					8	[3]6SK7GT, 6SA7GT, [2]6J5GT, 6SQ7GT, 6AC5G, 7Y4	456	13-41,42
	Tone	A15128-2	130	MK400	M26													
1901 (Ch. X6, BA41)	Vol.		45	MR48				8-8	1	2N516		P402	245C	C3	6	1C6, 34, [2]30, 32, 33	456	10-14
								.01-.01		Buffer	B14							
1902	Vol.		75	‡			A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1903 (Ch. 14A)	Vol.	2220	18/7	DRP314	6			1477	1	RS215					9	[2]6D6, [2]76, 75, [2]41, 80	465	10-15
	Tone	1732	44	MR44				1476	1	RS216								
								1693	15	TC22								
1904	Vol.		75	Order from Mfr.				4	32	HD684					7	6A7, 6D6, 76, 6A6, [2]42, 80	456	11-8
	Tone		44	MR39	M26			8-4	32	2N518								
								5	15	TC22								
1906 (Ch. 39B)	Vol.	2198	18	MR48				2289	12	TC52					6	1C6, [2]34, [2]30, 19	465	10-22
	Tone	2331	22	MR33	M24													
1907 (Ch. X6, BA41)	Vol.		45	MR48				8-8	1	2N516		P402	245C	C3	6	1C6, 34, [2]30, 32, 33	456	10-14
								.01-.01		Buffer	B14							
1910	Vol.	2239	18	MR48											4	1C6, 34, 1B5, 33	465	9-11
1911 (Ch. X6, BA41)	Vol.		45	MR48				8-8	1	2N516		P402	245C	C3	6	1C6, 34, [2]30, 32, 33	456	10-14
								.01-.01		Buffer	B14							
1916	Vol.		75	Order from Mfr.				4	32	HD684					7	6A7, 6D6, 76, [2]42, 6A6, 80	456	11-8
	Tone		44	MR39	M26			8-4	32	2N518								
								5	15	TC22								
1917	Vol.		75	‡			A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1921 (Ch. X6, BA41)	Vol.		45	MR48				8-8	1	2N516		P402	245C	C3	6	1C6, 34, [2]30, 32, 33	456	10-14
								.01-.01		Buffer	B14							
1926	Vol.		75	‡			A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1932 (Ch. X6, BA41)	Vol.		45	MR48				8-8	1	2N516		P402	245C	C3	6	1C6, 34, [2]30, 32, 33	456	10-14
								.01-.01		Buffer	B14							
1936	Vol.		75	‡			A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1952	Vol.		75	Order from Mfr.				4	32	HD684					7	6A7, 6D6, 6A6, 76, [2]42, 80	456	11-8
	Tone		44	MR39	M26			8-4	32	2N518								
								5	15	TC22								
1954 (Ch. 39B)	Vol.	2198	18	MR48				2289	12	TC52					6	1C6, [2]34, [2]30, 19	465	10-22
	Tone	2331	22	MR33	M24													
1955, 1957 (Ch. X6, BA41)	Vol.		15	MR48				8-8	1	2N516		P402	245C	C3	6	1C6, 34, [2]30, 32, 33	456	10-14
								.01-.01		Buffer	B14							
1959	Vol.		75	‡			A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1960 (Ch. 14A)	Vol.	2220	18/7	DRP314	6			1477	1	RS215					9	[2]6D6, [2]76, [2]41, 75, 80	465	10-15
	Tone	1732	44	MR44				1476	1	RS216								
								1693	15	TC22								
1961 (Ch. X6, BA41)	Vol.		45	MR48				8-8	1	2N516		P402	245C	C3	6	1C6, 34, [2]30, 32, 33	456	10-14
								.01-.01		Buffer	B14							
1965	Vol.		75	Order from Mfr.				4	32	HD684					7	6A7, 6D6, 76, 6A6, [2]42, 80	456	11-8
	Tone		44	MR39	M26			8-4	32	2N518								
								5	15	TC22								
1971	Vol.		75	‡			A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1980	Vol.		75	‡			A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1981 (Ch. X6, BA41)	Vol.		45	MR48				8-8	1	2N516		P402	245C	C3	6	1C6, 34, [2]30, 32, 33	456	10-14
								.01-.01		Buffer	B14							
2000, 2001 (Ch. 40)	Vol.	221	18	MR48	M26			1703	23	2S567					6	6A7, 6D6, 6Q7, 41, 6U5, 80	465	10-17
	Tone	305	34	‡		See Note	A5											
2000, 2001 (6W)	Vol.	P1579	18	MR48	M26			P1591	23	2S567					6	6A7, 6D6, 75, 6H5, 41, 80	456	9-12
	Tone	P1642	22	MR39														
2002, 2003 (Ch. 6B)	Vol.	P2092	18	MK401				P2104	23	2S567					6	6A7, 76, 6D6, 75, 41, 80	456	13-45
	Tone	P2093	‡	MK401	M26													

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
2004, T2004, 2005	Vol.	2726	18	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 76, ³42,		
	Tone	2737	147	MR55				3351	23	HD684						80, 6G5	456	12-13,14
2006, 2007 (Ch. IT)	Vol.	217	6	‡			A5	16-12	4	TCS44					4	6D6, 6C6, 25L6, 25Z5		11-6
2006, 2007 (Ch. IS6A)	Vol.	P2136	18	Order from	Mfr			P2140	1/15	3S579		P1414	859	C3	6	6D8G, 6S7G, 6T7G,		
	Tone	P2137	34	MR39	M27			.015		Buffer	B14					6G6G, 6L5G, 6ZY5G	456	11-10
2008, 2009 (Ch. 40)	Vol.	221	18	MR48	M26			1703	23	2S567					6	6A7, 6D6, 6Q7, 41,		
	Tone	305	34	‡		See No	te A5									6U5, 80	465	10-17
2012, 2013	Vol.	19-2007	18	MR48	M26			18-208	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5Z4	456	11-6
2014, 2015, 2016	Vol.	P2392	18	MR53	M26			P2397	23	2S567	B33				5	6A7, 6D6, 75, 41, 5Y3G	456	11-11
2018, 2019 (Ch. 40)	Vol.	221	18	MR48	M26			1703	23	2S567					6	6A7, 6D6, 6Q7, 41,		
	Tone	305	34	‡		See No	te A5									6U5, 80	465	10-17
2020, 2021 (Ch. 6B)	Vol.	P2092	18	MK401				P2104	23	2S567					6	6A7, 6D6, 76, 75, 41,		
	Tone	P2093	‡	MK401	M26											80	456	13-45
2050, 2051 (Ch. 40)	Vol.	221	18	MR48	M26			1703	23	2S567					6	6A7, 6D6, 6Q7, 41,		
	Tone	305	34	‡		See No	te A5									6U5, 80	465	10-17
2050, 2051 (6W)	Vol.	P1579	18	MR48	M26			P1591	23	2S567					6	6A7, 6D6, 75, 6H5,		
	Tone	P1642	22	MR39												41, 80	456	9-12
2052 (Ch. 6B)	Vol.	P2092	18	MK401				P2104	23	2S567					6	6A7, 76, 6D6, 75, 41,		
	Tone	P2093	‡	MK401	M26											80	456	13-45
2054	Vol.	2726	106	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 76,		
	Tone	2737	106	MR55				3351	23	RS213						6G5, ²42, 80	456	
2056, 2057	Vol.	24-105	18	MR48				18-102	1/15	3S579					6	6A7, 6D6, 75, 41, 6G5,		
	Tone	26-106	21	MR48	M26											80	456	11-12
2058, 2059 (1938)	Vol.	P1916	140	MRT440	M26			P1937	1	RS223					11	6A8, ²6K7, 6J7, ⁴6J5,		
	Tone	P1917	140	UM160-SS1				P1939	1/13	2N518						²6F6, 5Z3	456	9-13
2060, 2061 (Ch. 16R)	Vol.	P1989	‡	Order from	Mfr			P1993	30	RS223					16	⁴6K7G, 6L7G, ²6H6G,		
	Tone	P1990	34	MR41				P1994	30	HD684						⁴6J5G, ²6L6G, ³5Z3,		
	Bass	P1991	15	MR48				P1997	13/14	2N518						6J7G	456	10-19,
								P1992	30	RS224								20
2064, 2065 (Ch. 745, 1937)	Vol.	24-105	18	MR48				18-213	23	2S567					7	76, 6A7, 6D6, 75, 41,		
	Tone	26-106	21	MR48	M26											6G5, 80	456	10-23
2066, 67, 68 (Ch. 43)	Vol.	221	45	MR48	M26			1729	1	2S569					11	6A7, 6D6, ³76, ²43,		
	Tone	305	44	‡		See No	te A5	10	15	TC22						6U5, 25Z5	465	10-10
2070, 71 (Ch. 1105)	Vol.	24-115	148	‡		See No	te A5	18-214	1	RS216					11	³6C5G, 6A8G, 6K7G,		
	Tone	26-112	44	Order from	Mfr			18-215	1	RS215						6H6G, ³6J7G,		
								18-216	13	TC52						³6V6G, 80, 6G5	456	10-24
2072	Vol.	P1579	18	MR48	M26			P1591	1	2S567					6	6A7, 6D6, 75, 6H5,		
	Tone	P1642	22	MR39												41, 80	456	
2074, 2075 (Ch. 6B)	Vol.	P2092	18	MK401				P2104	23	2S567					6	6A7, 76, 6D6, 75, 41,		
	Tone	P2093	‡	MK401	M26											80	456	13-45
2080, 2081	Vol.	2726	76	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 76, ²42,		
	Tone	2737	76	MR55				3351	23	HD684						80, 6G5	456	9-16
2082, T2082, 2083	Vol.	2726	18	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, ²42,		
	Tone	2737	147	MR55				3351	23	HD684						80, 6G5, 76	456	12-13,14
2100 to 2103 inc. (Ch. 109B)	Vol.	3671	15	MR48											5	1C6, 1A4, 30, 1B4,		
	Tone	4486	22	MR33	M24											1G5G, 4-1	465	10-25
2104 to 2107 inc. (Ch. 1095B)	Vol.	3761	17	UM154-SS16				3150	12	RS216					6	1C6, 34, 1F6, ³30	465	12-23,24
	Tone	2331	44	MR33	M24			1693	15	TC22								
2108 to 2111 (Ch. 1090B)	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	10-27
2112, 2113 (Ch. 90B)	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	10-27
2120, 2121 (Ch. 90B)	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	10-27
2122 (Ch. KD)	Vol.	N2623	18	UM161-SS18				N2748	46	FP304	B128				5	1A7GT, 1N5GT,		
																1H5GT, 1A5GT,		
																35Z5GT	456	12-30
2150 to 2153 inc. (Ch. 109B)	Vol.	3671	15	MR48											5	1C6, 1A4, 30, 1B4,		
	Tone	4486	22	MR33	M24											1G5G, 4-1	465	10-25
2154, 2155 (1938)	Vol.	P1579	62	MR48	M26			10	19	TC22					5	1A6, ²1A4, 30, 1G5G,		
	Tone	P1642	22	MR39												1B1	‡	9-17
2200 to 2203 inc. (Ch. X23)	Vol.	215	45	MR48				1720	1	2N518			See Not	e C8	6	6D8, 6S7, ³6L5, 1J6	465	10-31
	Tone		34	‡		See No	te A3	.01		Buffer	B14							
2204 to 2207 inc. (Ch. 23E)	Vol.	215	45	MR48				1720	1	2N518			See Not	e C8	7	6D8, 6S7, ³6L5, 1J6,		
	Tone		34	‡		See No	te A5	.01		Buffer	B14					6AB5	465	10-31
2208, 2209, 2210, 2211	Vol.	3418	18	MR48	M27			4459	24	2N513			245	C3	4	6D8G, 6S7G, 6T7G,		
								.03		Buffer	B14					1G5G	456	12-27
2212, 2213, 2214, 2215	Vol.	3418	18	MR48	M27			3575	1	TC71		3421	245	C3	7	6D8G, 6S7G, 6T7G,		
	Tone	3571	147	MR55				3574	13	3S584	B8					²33, 1H4G, 6L5G	456	9-18
								.01		Buffer	B14							

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
2218	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P2147	859	C3	6	6D8G, 6L5G, 6S7G, 6T7G, 6G6G, 6ZY5G	456	
	Tone	P2137	34	MR39	M27			.015		Buffer	B14							
2220, 2221 (Ch. X23)	Vol.	215	45	MR48				1720	.1	2N518			See Note	C8	6	6D8, 6S7, [3]6L5, 1J6	465	10-31
	Tone		34	‡		See Note	A5	.01		Buffer	B14							
2222, 2223, 2224, 2225 (Ch. 25)	Vol.	221	45	MR48	M26			1720	1/15	3S579		480	245	C3	6	6A8, 6S7, [3]6L5, 41	465	11-16
	Tone	305	34	‡		See Note	A5	.01-.01		Buffer	B14							
2222 to 2229 inc. (Ch. 73B)	Vol.	3671	15	MR48				3060	1	2N518		3698	245A	C3	5	6D8G, 6L5G, [3]6S7G, 41	465	10-29
	Tone	3545	22	MR33				1693	15	TC22								
								.03		Buffer	B14							
2230 to 2233 inc. (Ch. X23)	Vol.	215	45	MR48				1720	1	2N518			See Note	C8	6	6D8, 6S7, [3]6L5, 1J6	465	10-31
	Tone		34	‡		See Note	A5	.01		Buffer	B14							
2254, 2255, 2256, 2257	Vol.	3418	18	MR48	M27			3575	1	TC71		3421	245	C3	7	6D8G, 6S7G, [3]33, 1H4G, 6L5G, 6T7G	456	9-18
	Tone	3571	147	MR55				3574	13	3S584	B8							
								.01		Buffer	B14							
2280, 2281	Vol.	3418	18	MR48	M27			3575	1	TC71		3421	245	C3	7	6D8G, 6S7G, 6T7G, [3]33, 1H4G, 6L5G	456	9-18
	Tone	3571	147	MR55				3574	13	3S584	B8							
								.01		Buffer	B14							
2300, 2301, T2300	Vol.		17	MR55				8-6	4	2S567			294	C3	6	[2]6D6, 6A7, 6Q7, 41, 0Z4	262	12-11
	Tone		34			See Note	A3	10	15	TC22								
								.008		Buffer	B14							
2302, 2303 (Ch. 78-780)	Vol.	P1371	45	UM154-SS3	M26			P1293	23	2S567		P1414	859	C3	7	6D6, 6A7, 6K7, 6H6, 6V6G, 84, 6C5	175	10-32
	Tone	P1388	22	‡		See Note	A3	.0075		Buffer	B14							
2460 (Late)	Vol.	24-103	18	UM157-SS17				18-294	19	Order from	Mfr.	34-104	859	C3	7	[2]6SK7, 6SA7, 6SQ7, 6J5GT, 6K6GT, 6X5GT	262	13-52,10
	Tone	26-103	22	MR48				.003		Buffer	B14							
4000	Vol.	2775	15	MR48	M26			3718	1	2N518					7	6A7, 6D6, 76, 75, 41, 6G5, 80	465	11-17
	Tone	3545	22	MR33														
4002 (Ch. 1072AE)	Vol.	2775	15	MR48	M26			3041	1	2N518					6	6A7, 6D6, 75, 41, 6G5, 80	465	10-33
	Tone	3545	22	MR33														
4004 (Ch. 871)	Vol.	24-105	18	MR48				18-202	1	RS215					8	6A7, 6D6, 75, 76, [3]42, 6H5, 80	456	10-35
	Tone	26-106	21	MR48	M26			18-201	1	RS215								
4006 (Ch. 12AC)	Vol.		15	‡		See Note	A19	12	1	RS215					12	[2]6K7, 6A8, [2]6H6, 6G5, [2]6C5, [2]6F6, [2]5Y3	465	10-36
								18	1	RS219								
								8	13	TC71								
4010 (Ch. 11X)	Vol.	215	45	MR48				20-20	4	TCS45					8	6A7, 6D6, [3]76, 6G5, 25L6, 25Z5, L10C	456	10-37
	Tone	304A	22	‡		See Note	A5											
4014 (Ch. 745 1937)	Vol.	24-105	18	MR48				18-213	23	2S567					7	76, 6A7, 6D6, 75, 41, 6G5, 80	456	10-23
	Tone	26-106	21	MR48	M26													
4020	Vol.	2775	15	MR48	M27			3718	1	2N518					7	6A7, 6D6, 75, 76, 41, 6G5, 80	465	11-17
	Tone	3545	22	MR33														
4040	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P1414	859	C3	6	6D8G, 6S7G, 6T7G, 6G6G, 6L5G, 6ZY5G	456	11-10
	Tone	P2137	34	MR39	M27			.015		Buffer	B14							
4050 (Ch. 1072AE)	Vol.	2775	15	MR48	M26			3041	1	2N518					6	6A7, 6D6, 75, 41, 6G5, 80	465	10-33
	Tone	3545	22	MR33														
4052 (Ch. 871)	Vol.	24-105	18	MR48				18-202	1	RS215					8	6A7, 6D6, 75, 76, [3]42, 6H5, 80	456	10-35
	Tone	26-106	21	MR48	M26			18-201	1	RS215								
4054 (1937)	Vol.	P1916	140	TM240-SS1	M26			P1937	1	RS223					11	6A8, [2]6K7, 6J7, [4]6J5, [2]6F6, 5Z3	456	9-13
	Tone	P1917	140	UM160-SS1				P1939	1/13	2N518								
4056 (Ch. 16R)	Vol.	P1989	‡	Order from	Mfr.			P1993	30	RS223					16	[4]6K7G, 6L7G, [2]6H6G, [4]6J5G, [2]6L6G, 6J7G, [2]5Z3	456	10-19,20
	Tone	P1990	34	MR14				P1994	30	HD684								
	Bass	P1991	15	MR48				P1997	13/14	2N518								
								P1992	30	RS224								
4064, 4066 (Ch. 745 1937)	Vol.	24-105	18	MR48				18-213	23	2S567					7	6A7, 76, 6D6, 75, 41, 6G5, 80	456	10-23
	Tone	26-106	21	MR48	M26													
4068 (Ch. 885)	Vol.	24-113	148	‡		See Note	A5	18-202	1	RS215					8	6A7, 6D6, 6H6G, 80, 6Y7G, [2]6V6G, 6G5	456	10-38
	Tone	26-110	39	‡		See Note	A5	18-201	1	RS215								
4070 (Ch. 12AC)	Vol.		15	‡		See Note	A19	12	1	RS215					12	[2]6K7, 6A8, [2]6H6, 6G5, [2]6C5, [2]6F6, [2]5Y3	465	10-36
								18	1	RS219								
								8	13	TC71								
4074 (Ch. 16R)	Vol.	P1989	‡	Order from	Mfr.			P1993	30	RS223					16	[4]6K7G, 6L7G, [2]6H6G, [4]6J5G, [2]6L6G, 6J7G, [2]5Z3	456	10-19,20
	Tone	P1990	34	MR14				P1992	30	RS224								
	Bass	P1991	15	MR48				P1994	30	HD684								
								P1997	13/14	2N518								
4076 (Ch. 1105)	Vol.	24-115	148	‡		See Note	A5	18-214	1	RS216					11	[2]6C5G, 6A8G, 6K7G, 6H6G, [2]6J7G, [2]6V6G, 80, 6G5	456	10-24
	Tone	26-112	44	Order from	Mfr.			18-215	1	RS215								
								18-216	13	TC52								
4210 (Ch. 66, 660)	Vol.	P801	17	UM163-SS3	M26			P1293	4	2S567	B33	P1414	859	C3	6	[2]6D6, 6A7, 75, 41, 84	175	10-39
	Tone	P828	22	MR39				P1312	15	TC32								
								.0075		Buffer	B14							
4212 (Ch. 88, 880)	Vol.	P1408	17	UM161-SS12	M26			6-8	1	2N518			294	C3	8	6D6, 6A7, 6K7, 6C5, 6B7, [2]6V6G, 0Z4	175	10-40
	Tone	P1388	22	Order from	Mfr.			5	15	TC32								
								.0075		Buffer	B14							
4215	Vol.		17	MR55				8-6	4	2S567			294	C3	6	[2]6D6, 6A7, 6Q7, 41, 0Z4	262	12-11
	Tone		22			See Note	A3	10	15	TC22								
								.008		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
4400	Vol.	P1677	18	MR48	M27			P958	1	2N518		P402	245C	C3	7	6K8G, 6S7G, 6AB5,		
	Tone	P1764	34	MR39				.01-.01		Buffer	B14					6T7G, ‡30, 19	456	9-19
4402	Vol.	24-105	18	MR48				1845	1	2N516		3407	246	C3	5	1C6, 1A4, 6T7G, 41,		
	Tone	26-107	21	MR53	M27			.01-.01		Buffer	B14					6N5	456	11-19
4404	Vol.	P1677	18	MR48	M27			P958	1	2N518		P402	245C	C3	6	6D8G, 6S7G, 6T7G,		
	Tone	P1764	44	MR39				.01-.01		Buffer	B14					‡30, 19	456	9-21
4410	Vol.	24-105	18	MR48				1845	1	2N518		3407	246	C3	5	1C6, 1A4, 6T7G, 41,		
	Tone	26-107	22	MR53	M27			.01-.01		Buffer	B14					6N5	456	11-19
4420	Vol.	P1677	18	MR48	M27			P958	1	2N518		P402	245C	C3	7	6K8G, 6S7G, 6AB5,		
	Tone	P1764	34	MR39				.01-.01		Buffer	B14					6T7G, ‡30, 19	456	9-19
4452	Vol.	P1677	18	MR48	M27			P958	1	2N518		P402	245C	C3	6	6D8G, 6S7G, 6T7G,		
	Tone	P1764	44	MR39				.01-.01		Buffer	B14					‡30, 19	456	9-21
4500 (4536)	Vol.	1262	6	SRP263	6	EX200		1258	25	RS213					4	78, 77, 42, 80 or 6D6,		
								1260	25	RS213						6C6, 42, 80		9-20
4500, 4502, 4504 (6Q)	Vol.	P1579	62	MR48	M26			10	19	TC22					5	1A6, ‡1A4, 30, 1G5G,		8-4 &
	Tone	P1642	22	MR39												1B1	456	9-17
4503	Vol.		75	‡			A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5,		
																80, 6F6	456	11-9
4504 (Ch. 190)	Vol.		18	Order from	Mfr.			8-4	25	2S567					7	6A7, ‡6D6, 85, ‡42,		
	Tone		44	MR39				4	25	TC70	B212					80	456	11-20
4505 (Ch. 6A60)	Vol.	1495	18	MR48	M26			1477	1	RS215					8	‡6D6, 75, 76, ‡42, 80	465	10-41,42
	Tone	1732	149	MR44				1476	1	RS216								
								1693	15	TC22								
4506	Vol.		75	‡			A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5,		
																80, 6F6	456	11-9
4507	Vol.		18	Order from	Mfr.			8-4	25	2S567					7	6A7, ‡6D6, 85, ‡42, 80	456	11-20
	Tone		44	MR39				4	25	TC70	B212							
4508	Vol.	P96005	15	MR55	M26			P81039	2	RS216					10	‡6D6, ‡76, ‡45, 80	456	9-23
	Tone	P97003	41	MR57				P81018	2/13	3S584								
4509	Vol.	P96005	15	MR55	M26			P81058	48	RS216					12	‡6D6, ‡76, ‡42, ‡80	456	9-25
	Tone	P97011	21	MR42				P81056	48	2N516								
								P82000	48	TC39								
								P81039A	48	RS216								
4510	Vol.	1322	45	MR48											5	1A6, 34, 30, 32, 33,		
																5E1	465	9-32
4510 (Ch. 1091B)	Vol.	3761	17	UM154-SS16				3150	12	RS216					7	1C6, 34, ‡30, 1B4	465	11-21
	Tone	2331	22	MR33	M24			1693	19	TC22								
4512 (6Q)	Vol.	P1579	62	MR48	M26			10	19	TC22					5	1A6, ‡1A4, 30, 1G5G,		
	Tone	P1642	22	MR39												1B1	‡	9-18
4512 (7700)	Vol.	1289	45	MR48	M27			1291	12	ST595					6	1C6, 34, ‡30, 32, 19	465	9-27
4514 (6Q)	Vol.	P1579	62	MR48	M26			10	19	TC22					5	1A6, ‡1A4, 30, 1G5G,		
	Tone	P1642	22	MR39												1B1	‡	9-17
4514 (9148)	Vol.	1447	45	MR48											9	‡34, 1C6, ‡30	465	9-29,30
	Tone	1450	22	SRP263														
4516	Vol.	1322	45	MR48											5	1A6, 34, 30, 32, 33,		
																5E1	465	9-32
4519 (Ch. 603, 1934)	Vol.	9776	17	UM154	M26		A96	9532	1	3S584	B8	9536	292	C3	6	‡78, 6A7, 75, 41, 84	265	10-43
								9328	15	TN111								
								.02		Buffer	B14							
4525	Vol.		75	‡			A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5,		
																80, 6F6	456	11-9
4530	Vol.		75	‡			A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5,		
																80, 6F6	456	11-9
4532	Vol.		75	‡			A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5,		
																80, 6F6	456	11-9
4533 (6246)	Vol.	1322	45	MR48											5	1A6, 34, 30, 32, 33,		
																5E1	465	9-32
4534	Vol.	1145	17	UM154	M26		A96	1188	1	2N518		1893	294	C3	5	6A7, 6D6, 6B7, 41, 84	370	11-22
								8876	15	TC22								
								.02		Buffer	B14							
4536	Vol.		18	Order from	Mfr.			8-4	25	2S567					7	6A7, ‡6D6, 85, ‡42, 80	456	11-20
	Tone		44	MR39				4	25	TC70	B212							
4550	Vol.	P1579	62	MR48	M26			10	19	TC22					5	1A6, ‡1A4, 30, 1G5G,		
	Tone	P1642	22	MR39												1B1	‡	9-17
4556	Vol.	3761	15	UM154-SS16				3150	12	RS216					7	1C6, 34, ‡30, 1B4	465	11-21
	Tone	2331	22	MR33	M24			1693	19	TC22								
5002	Vol.		18	MR48				8-8	4	2S567					5	6A7, 6D6, 75, 41, 84	456	12-9
5004, 5005	Vol.	24-101	18	MR48				18-202	25	RS215					7	76, 6A7, 6D6, 75, 42,		
	Tone	26-101	21	MR48	M26			18-201	25	RS215						6G5, 80	456	11-26
5006	Vol.	2726	76	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 76, ‡42,		
	Tone	2737	76	MR55				3351	23	HD684						80, 6G5	456	9-16
5020 (Ch. 1072AE)	Vol.	2775	15	MR48	M26			3041	1	2N518					6	6A7, 6D6, 75, 41,		
	Tone	3545	22	MR33												6G5, 80	465	10-33
5052	Vol.	2726	76	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 76, ‡42,		
	Tone	2737	76	MR55				3351	23	HD684						80, 6G5	456	9-16
5054, 5062 (Ch. AM7)	Vol.	P1158	15	MRT436	M26			P1156	1	RS223					11	‡6K7, 6A7, 6H6, ‡6C5,		
	Tone	P1159	44	MR33				P1155	1	HD684						‡6F6, 6G5, 5Z3	456	10-49
								P1154	14	RS224								
5056	Vol.	24-101	18	MR48				18-202	25	RS215					7	76, 6A7, 6D6, 75, 42,		
	Tone	26-101	21	MR48	M26			18-201	25	RS215						6G5, 80	456	11-26
5058, 5060	Vol.	24-101	18	MR48				18-102	1/15	3S579					6	6A7, 6D6, 75, 6G5,		
	Tone	26-101	21	MR48	M26											41, 80	456	9-35

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
5101, 5102, 5103	Vol.	A15132-5	18	MR48	M27			A15958	12	TC42					5	1A7G, 1N5G, 1H5G, ²1A5G	456	
5102	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	9-33
5104	Vol.	2198	17	UM154-SS16				3150	12	RS216					6	1C6, 34, 1F6, ²30	465	11-23,24
	Tone	2331	44	MR33	M24			1693	15	TC22								
5106, 5110 (Ch. 65B)	Vol.	2289	18	UM154		See No	te A96	3150	12	TC44					5	1C6, 34, 1F6, 30, 19	465	10-45
	Tone	2331	22	MR33	M24													
5120, 5121	Vol.	2038	149	Order from	Mfr.			20-10	24	2N509					6	²1N5GT, 1A7GT, 1H5GT, 3Q5GT, 50Y6GT	456	13-54
								40-10	24	2N514								
5152	Vol.	2198	17	UM154-SS16				3150	12	RS216					6	1C6, 34, 1F6, ²30	465	11-23,24
	Tone	2331	44	MR33	M24			1693	15	TC22								
5200, 5210, 5214, 5216	Vol.	24-101	18	MR48				1845	1	ST595		3407	246	C3	6	30, 1A6, 1A4, 6T7G, 6L5G, 19	456	9-36
	Tone	26-102	21	‡		See No	te A5	16-100	15	TC22								
								.01-.01		Buffer	B14							
5218	Vol.	3418	18	MR48	M27			3575	1	TC71		3421	245	C3	5	6D8G, 6S7G, 6T7G, 33, 1H4G	456	9-18
	Tone	3571	147	MR55				3574	13	3S584	B8							
								.01		Buffer	B14							
5256, 5260 (Ch. 700)	Vol.		45	MR48	M27			8-8	1	2N518			246A	C3	7	1C6, ²34, 1A4, ²30, 19	456	10-50
	Tone		22	MR33				.0075		Buffer	B14							
5300	Vol.	P801	17	UM163-SS3	M26			P795	4	TCS71		P816	294	C3	6	6D6, 6A7, 6K7, 75, 6F6, 84	175	9-10
	Tone	P828	22	MR39				G864	15	TC22								
								.0075		Buffer	B14							
6500 (Ch. 603 1936)	Vol.		15	MR48	M26			8, 8	4	RS213					6	²6D6, 76, 75, 42, 80	456	10-3
	Tone		22	MR39														
6502 (Ch. 7AC)	Vol.		18	UM161		See No	te A96	16	4	ST597					7	6L7, 6K7, 6Q7, 6C5, 6F6, 6G5, 5W4	456	10-46
	Tone		34	MR39				8	4	ST595								
6504 (Ch. 603 1936)	Vol.		17	MR48	M26			8, 8	4	RS213					6	²6D6, 75, 76, 42, 80	456	10-3
	Tone		22	MR39														
6504	Vol.	24-101	18	MR48				18-202	25	RS215					6	76, 6A7, 6D6, 75, 42, 80	456	9-35
	Tone	26-101	21	MR48	M26			18-201	25	RS215								
6506 (Ch. AM3)	Vol.		17	UM154			A96	8	3	HD684					8	²6K7, 6A8, 6G5, 6Q7, 6L6, ²5W4	456	10-47
	Tone		22	UM161			A96	4-8	3	2N518								
								5	15	TC22								
6508 (Ch. AM6)	Vol.		17	UM154			A96	8	3	HD684					10	²6K7, 6A8, 6Q7, 6G5, ²6L6, ²5W4	456	10-48
	Tone		22	UM161			A96	4-8	3	2N518								
								5	15	TC22								
6510, 6514, 6520	Vol.	P912	18	MR48				P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	9-37
6512 (Ch. 14-142ES)	Vol.	2726	106	MR55				3375	1	RS216					7	78, 6A7, 75, 6D6, 42, 6G5, 80	456	10-51
	Tone	2737	106	MR48				3351	1	RS216								
6518 (Ch. 603 1936)	Vol.		15	MR48	M26			8, 8	4	RS213					6	²6D6, 75, 76, 42, 80	456	10-3
	Tone		22	MR39														
6525	Vol.		18	MR48				16	25	RS216					6	6A7, 6D6, 75, 6G5, 41, 1V	456	9-41
								8	25	HD684								
6530	Vol.	A15130-5	46	MK401				A15786	1/15	2S569/TC26					7	²6SK7GT, 6SA7GT, 6J5GT, 6SQ7GT, 6F6G, 5Y3G	456	
	Tone	A15129-2	21	MK401	M26													
6532	Vol.		18	MR48				16	25	RS216					6	6A7, 6D6, 75, 6G5, 41, 1V	456	9-41
								8	25	HD684								
6540	Vol.		18	MR48				16	25	RS216					6	6A7, 6D6, 75, 6G5, 41, 1V	456	9-41
								8	25	HD684								
6542 (Ch. 14-142ES)	Vol.		106	MR55				3375	1	RS216					7	78, 6A7, 6D6, 75, 42, 6G5, 80	456	10-51
	Tone		106	MR48				3351	1	RS216								
6544	Vol.	2726	76	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 76, ²42, 80, 6G5	456	9-16
	Tone	2737	22	MR55				3351	23	HD684								
6546, 6550 (Ch. 603 1936)	Vol.		15	MR48	M26			8, 8	4	RS213					6	²6D6, 75, 76, 42, 80	456	10-3
	Tone		22	MR39														
6550	Vol.	A15130-5	46	MK401				A15786	1/15	2S569/TC26					7	²6SK7GT, 6SA7GT, 6J5GT, 6SQ7GT, 6F6G, 5Y3G	456	
	Tone	A15129-2	21	MK401	M26													
6552 (Ch. 7AC)	Vol.		18	UM161		See No	te A96	16	4	ST597					7	6L7, 6K7, 6Q7, 6C5, 6F6, 6G5, 5W4	456	10-46
	Tone		34	MR39				8	4	ST595								
6554 (Ch. AM3)	Vol.		17	UM154			A96	8	3	HD684					8	²6K7, 6A8, 6G5, 6Q7, 6L6, ²5W4	456	10-17
	Tone		22	UM161			A96	4-8	3	2N518								
								5	15	TC22								
6556 (Ch. AM6)	Vol.		17	UM154			A96	8	3	HD684					10	²6K7, 6A8, 6Q7, 6G5, ²6L6, ²5W4	456	10-48
	Tone		22	UM161			A96	4-8	3	2N518								
								5	15	TC22								
								4	13	TC40								
6560	Vol.		18	MR48				16	25	RS216					6	6A7, 6D6, 75, 6G5, 41, 1V	456	9-41
								8	25	HD684								
6562, 6564 (Ch. 603 1936)	Vol.		17	MR48	M26			8, 8	4	RS213					6	²6D6, 75, 76, 42, 80	456	10-3
	Tone		22	MR39														
6566 (Ch. 14-142ES)	Vol.		106	MR55				3375	25	RS216					7	78, 6A7, 6D6, 75, 42, 6G5, 80	456	10-51
	Tone		106	MR48				3351	25	RS216								
								12	15	TC22								
6568	Vol.	2726	76	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 76, ²42, 80, 6G5	456	9-16
	Tone	2737	76	MR55				3351	23	HD684								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
6570, 6580, 6582, 6590 (Ch. AM7)	Vol.	P1158	15	MRT436	M26			P1156	1	RS223					11	[3]6K7, 6A7, 6H6, [3]6C5, [2]6F6, 6G5, 5Z3	456	10-49
	Tone	P1159	41	MR33				P1155	1	HD681								
								P1154	14	RS224								
6590	Vol.	24-101	18	MR48				18-102	1/15	3S579					6	6A7, 6D6, 75, 6G5, 41, 80	456	9-36
	Tone	26-101	21	MR48	M26													
6600	Vol.	2239	18	MR48											4	1C6, 34, 1F6, 33, 5E1	465	9-38
6602	Vol.		18	MR48	M27										6	1C6, [3]34, 1B5, 30, 19	456	11-5
	Tone		22	MR33														
6604	Vol.	A15132-5	18	MR48	M27			A15958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	
6606 (Ch. 525)	Vol.		18	MR48	M27										4	1C6, 34, 1B5, 33	456	11-25
6606 (Ch. 536)	Vol.	24-102	17	MR48	M26			16-100	19	TC22					4	1C6, 34, 1B5, 33, 5E1	456	12-37
6650	Vol.		18	MR48	M27										6	1C6, [3]34, 1B5, 30, 19	456	11-5
	Tone		22	MR33														
6650	Vol.	A15132-5	18	MR48	M27			A15958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	
6700	Vol.	2239	45	MR48				3060	1	2N518		3069	245A	C3	7	6A7, [2]75, [2]76, 19, 6G5	465	11-27
	Tone	2199	22	MR33	M26			1693	15	TC22								
								.01-.01		Buffer	B14							
6708 (Ch. M5 1936)	Vol.	P1142	18	MR48	M27			8-8	1	2N516		P402	245C	C3	7	1C6, [3]34, [3]30, 19	456	10-7
	Tone	P1058	22	MR53				.01-.01		Buffer	B14							
6712, 6716	Vol.	3418	18	MR48	M27			3575	1	TC71		3421	245	C3	7	6D8G, 6S7G, 6T7G, [3]33, 1H4G, 6L5G	456	9-18
	Tone	3571	147	MR55				3574	13	3S584	B8							
								.01		Buffer	B14							
6714	Vol.		45	MR48	M27			8-8	1	2N518		3407	246	C3	6	1C6, [3]34, [3]30, 19	456	11-28
	Tone		22	MR33				.01		Buffer	B14							
6750, 6752 (Ch. Z4)	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 34, [3]30, 19, 32	456	10-5
	Tone	P682	34	MR39				.01-.01		Buffer	B14							
6754 (Ch. M5 1936)	Vol.	P1142	18	MR48	M27			8-8	1	2N516		P402	245C	C3	7	1C6, [3]34, [3]30, 19	456	10-7
	Tone	P1058	22	MR53				.01-.01		Buffer	B14							
6758	Vol.		45	MR48	M27			8-8	1	2N518		3407	246	C3	6	1C6, [3]34, [3]30, 19	456	11-28
	Tone		22	MR33				.01		Buffer	B14							
6760, 6770 (Ch. 700)	Vol.		45	MR48	M27			8-8	1	2N518			246A	C3	7	1C6, [3]34, 1A4, [3]30, 19	456	10-50
	Tone		22	MR33				.0075		Buffer	B14							
6766	Vol.	3418	18	MR48	M27			3575	1	TC71		3421	245	C3	7	6D8G, 6S7G, 6L5G, 6T7G, [3]33, 1H4G	456	9-18
	Tone	3571	147	MR55				3574	13	3S584	B8							
								.01		Buffer	B14							
6770 (Ch. 700)	Vol.		45	MR48	M27			8-8	1	2N518			246A	C3	7	1C6, [3]34, 1A4, [3]30, 19	456	10-50
	Tone		22	MR33				.0075		Buffer	B14							
6772	Vol.	3418	18	MR48	M27			3575	1	TC71		3421	245	C3	7	6D8G, 6S7G, 6T7G, [3]33, 1H4G, 6L5G	456	9-18
	Tone	3571	147	MR55				3574	13	3S584	B8							
								.01		Buffer	B14							
6800	Vol.	P801	17	UM163-SS3	M26			P795	4	TCS71			294	C3	6	6D6, 6A7, 6K7, 75, 6F6, 84	175	9-10
	Tone	P828	22	MR39				G864	15	TC22								
								.0075		Buffer	B14							
6805 to 6808 inc., 6815 to 6818 inc., 6836 (Ch. 14-112S)	Vol.	3038	18	UM157-SS3				2994	1	TC71			294	C3	6	[3]78, 6A7, 75, 42, 84	262	10-51
	Tone	3034	22	MR36				578	15	TC22								
	Sen.	3035	7	CIMP				.0075		Buffer	B14							
7152	Vol.	A15132-2	18	MR48	M27			A14958	12	TC42					5	1A7G, 1N5G, 1H5G, [2]1A5G	456	
9902	Vol.	1004	18	MR48	M26			9659	1	RM262					5	2A5, 2A6, 2A7, 58, 80	465	9-42
	Tone	1322	22	MR48				1108	13	TC70								
9904	Vol.	P96014	17	MR48	M26			P80916	23	RS213					7	[3]6D6, 6B7, 76, 42, 80	456	9-43
	Tone	P97011	34	MR42				P81043	23	RS216	B20							
								P81032	23	RS213								
								P81042	23	RS216	B20							
9905	Vol.	P96005	15	MR55	M26			P81039	2	RS216					10	[3]6D6, [3]76, [3]45, 80	456	9-23
	Tone	P97003	41	MR57				P81018	2/13	3S584	B8							
9907 (Ch. 5258)	Vol.	1004	18	MR48	M26			8-8-20	27	UR182					5	6A7, 6D6, 75, 42, 25Z5	465	10-52
9908	Vol.	1104	18	MR48	M26			9659	1	RM262					5	2A5, 2A6, 2A7, 58, 80	465	9-42
	Tone	1322	22	MR48				1108	13	TC70								
9910	Vol.	P96014	17	MR48	M26			P80916	23	RS213					7	[3]6D6, 6B8, 76, 42, 80	456	9-43
	Tone	P97011	34	MR42				P81043	23	RS216	B20							
								P81032	23	RS213								
								P81042	23	RS216	B20							
9911	Vol.	P96005	15	MR55	M26			P81039	2	RS216					10	[3]6D6, [3]76, [3]45, 80	456	9-23
	Tone	P97003	41	MR57				P81018	2/13	3S584								
9912	Vol.	P96005	15	MR55	M26			P81058	48	RS216					12	[3]6D6, [3]76, [3]42, [3]80	456	9-25
	Tone	P96011	21	MR42				P81056	48	2N516								
								P82000	48	TC39								
								P81039A	48	RS216								
9914, 9915 (7700)	Vol.	1289	45	MR48	M27			1291	12	ST595					6	1C6, 34, [3]30, 32, 19	465	9-27
9916, 9917	Vol.	P96016	15	MR55				P82001	12/13	2N516					9	[3]34, [3]30, 19	456	9-45
	Tone	P97013	44	MR33														
9923	Vol.	1322	45	MR48											5	1A6, 34, 30, 32, 33, 5E1	465	9-32

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
9926, 9928	Vol.	P96014	17	MR48	M26			P80916	23	RS213					7	[3]6D6, 6B7, 76, 42, 80	456	9-43
	Tone	P97011	34	MR42				P81043	23	RS216	B20							
								P81032	23	RS213								
								P81042	23	RS216	B20							
9930	Vol.	P96017	17	MR55	M26			P82002	1/15	3S579		P2229	286S	C3	5	[3]6D6, 6C6, 75, 41	175	9-47
								.007		Buffer	B14							
9932, 9933	Vol.	1289	45	MR48	M27			1291	12	ST595					6	1C6, 34, [3]30, 32, 19	465	9-27
9936	Vol.		18	Order from	Mfr.			8-4	25	2S567					7	6A7, [3]6D6, 85, [3]42, 80	465	11-20
	Tone		44	MR39				4	25	TC70	B212							
27452, 2P7452	Vol.	24-103	18	UM157-SS17				18-247	24	TC72		34-101	859	C3	7	6K7GT, 6A8GT, 6D6,		
	Tone	26-103	22	MR48				18-248	24/19	FP332	B70					75, 6P5GT,		
								.007		Buffer	B14					6AC5G, 80	262	13-18
STAR																		
All Star Junior	Vol.		8	MR28	M26			4-4-4	3	3S584					5	6F7, 6A7, 77, 42, 80	‡	
All Star Senior	Vol.		8	G				8-8-8	3	RS213					7	2A7, [3]58, 56, 2A5, 80	‡	
	Tone		21	MR39														
062, 062A	Vol.		45	MR48	M26			4	15	TC22			Order from	Mfr.	6	[3]39, 36, 37, 38	262	5-1
6U	Vol.		18	MR44				10-10	1	2N518			253	C3	6	[3]78, 77, 75, 41, 84	262.5	5-2
	Tone		22	MR42				12-12	15	TN111								
								.01		Buffer	B14							
STAR RAIDER (See	Continental Radio Corp.)																	
STEINITE RADIO CO.																		
10	Vol.		7	Z		EX450		2-2-1-3	37	See Note	B1				7	[3]24A, 27, [3]45, 80		1-3
10 Chassis No. 15	Vol.		7	Z		EX450		8-8	1	See Note	B3				6	[3]24A, 27, 71, 80		2-3
20 (Chassis No. 22)	Vol.		6	G7		EX450		‡	3	See Note	B1				8	[3]24A, [3]27, [3]45, 80	175	2-1
	Tone		22	‡		See Note A5												
Chassis No. 21	Vol.		6	Z	6			8-8-8	3	3S584					6	[3]24A, [3]45, 80		2-5
Chassis No. 23	Vol.		6	Z				8-8	1	2N518					5	[3]24A, 47, 80		2-6
25 (8 tube Pentode)	Vol.		6	G7				8-2-4	3	See Note	B3				8	‡		§6-32
26	Vol.		7	E				8-2-4	3	See Note	B3				8	[3]51, 24A, [3]27, [3]47, 80	175	2-7
	Tone		149	D12														
28	Vol.		6	E7				8-8	4	See Note	B3				5	[3]51, 24A, 47, 80		2-9
40, 40A	Vol.		7	Z			A14	2-3-2	3	See Note	B1				8	[3]27, [3]71A, 80		1-1
40C	Vol.		7	Z				2-3-3	3	See Note	B1				8	[3]45, [3]27, 80		1-2
50, 50A	Vol.		7	Z			A14	1-2-4	3	See Note	B1				9	[3]27, [3]50, [3]81		1-1,2
	Phono.		63	MR33														
60C	Vol.		7	Z				2-3-3	3	See Note	B1				8	[3]45, [3]27, 80		1-2
70, 80, 95 (Chassis No. 10)	Vol.		7	Z		EX450		2-2-1-3	37	See Note	B1				7	[3]24A, 27, [3]45, 80		1-3
102, 102A	Vol.		7	Z				1-2-4	3	See Note	B1				9	[3]27, [3]50, [3]81		1-1
	Phono.		63	MR33														
102C	Vol.		7	Z				2-3-3	3	See Note	B1				8	[3]27, [3]45, 80		1-2
203 (Chassis No. 22)	Vol.		6	MR18		EX450		‡	3	See Note	B1				8	[3]24A, [3]27, [3]45, 80	175	2-1
	Tone		22	‡		See Note A5												
261, 262, 263, 264, 265	Vol.		10	MR18				1-1-1-1	3/13	See Note	B1				7	[3]26, 27, 71A, 80		1-4
420 (Chassis No. 15)	Vol.		7	Z		EX450		8-8	1	See Note	B3				6	[3]24A, 27, 71, 80		2-3
420 (Chassis No. 17)	Vol.		7	Z		EX450		2-2-3	3	See Note	B1				7	[3]24A, 27, [3]45, 80		2-2
421, 425 (Chassis No. 21)	Vol.		6	Z	6			8-8-8	3	3S584					6	[3]24A, [3]45, 80		2-4,5
423 (Chassis No. 23)	Vol.		6	Z				8-8	1	2N518					5	[3]24A, 45-47, 80		2-6
450 (Chassis No. 15)	Vol.		7	Z		EX450		8-8	1	See Note	B3				6	[3]24, 27, 71, 80		2-3
450 (Chassis No. 17)	Vol.		7	Z		EX450		2-2-3	3	See Note	B1				7	[3]24A, [3]45, 27, 80		2-2
600, 605, 630, 635, 642, 643, (Chassis No. 22)	Vol.		6	MR18		EX450		‡	3	See Note	B1				8	[3]27, [3]24A, [3]45, 80	175	2-1
	Tone		22	‡		See Note A5												
642B, 700 (Chassis No. 26)	Vol.		7	E				8-2-4	3	See Note	B3				8	[3]27, [3]51, 24, [3]47, 80	175	2-7
	Tone		149	D12														
700, 701 (Chassis No. 28)	Vol.		6	E7				8-8	4	See Note	B3				5	[3]51, 24A, 47, 80		2-9
705, 706, 725, (Chassis No. 26)	Vol.		7	E				8-2-4	3	See Note	B3				8	[3]51, 24A, [3]27, [3]47, 80	175	2-7
	Tone		149	D12														
STERLING MFG. CO:																		
A (DC)	Vol.		25	DRP119	6			4	‡	See Note	B11				6	[3]32, 30, [3]31		3-1
3A	Vol.	7031	12	MR18				7350	3	RS213					8	[3]51, [3]27, [3]45, 80		1-1
B3	Vol.		12	MR18											7	[3]24, [3]27, [3]45		3-3
B	Vol.		12	MR18											7	[3]24, [3]27, [3]45		
4	Vol.		12	MR18				8-8	1	See Note	B3				8	[3]35, [3]27, [3]45, 80		1-2
B4	Vol.		12	MR18											7	[3]24, [3]27, [3]45		3-3
C	Vol.		40/12	DRP119	6			1-2	1	See Note	B1				6	[3]24, 45, 80		3-3
F	Vol.	7777	24	DRP119	6			1-2	1	See Note	B1				5	[3]24, 45, 80		1-5
Miniature	Vol.		25	DRP119	6			1-2	1	See Note	B1				5	[3]24, 45, 80		1-3
M, N, P, Q	Vol.	7775	24	DRP119	6			8237	1	RS213					5	[3]24, 45, 80		3-2
								8238	1	RS213								

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STERLING MFG. CO.—Continued																		
8 Tube Receiver	Vol.	7777	25	DRP119	6			8-8-8	3	See Note	B3				8	‡24, 27, ‡45, 80		1-5
	Tone	7779	41	MR53														
VA	Vol.	8753	6	MR21	M26			8573	4	TC71					5	‡24, 51, 47, 80	175	3-1
STEWART RADIO CORP.																		
50, 60	Vol.		17	UM154		See Note	A96	6-10	1	2N518			292	C3	6	‡6D6 or 78, 6A7, 75,		
								5-5	15	TN111						41, 6Z5	262	1-1
STEWART-WARNER CORP.																		
01-5D9, 01-5D9WT	Vol.	116762	18	UM161	M26		A96	113472	1	TC48					5	12SA7, 12SK7, 12SQ7,		
								112898	1	TC44						35L6GT, 35Z5GT	455	11-33
01-5H, 01-5H1 to 01-5H9	Vol.	117035	124	TM243-SS25	M26			117034	23	3S584	B8				5	6SA7, 6SK7, 6SQ7, 6F6G, 5W4G	455	11-1,2
01-6A, 6B, 6D	Vol.	117035	124	TM243-SS25	M26			114972	23	TC74					6	6SA7, 6SK7, 6H6,		
								117356	19	TC22						6SQ7, 6F6G, 5W4G	455	11-3,4
01-6C9	Vol.	117069	124	TM238-SS25				114972	23	TC74					6	6SA7, 6SK7, 6H6,		
																6SQ7, 6F6G, 5W4G	455	11-7,8
01-6E (Rev. MD) 01-6E1 to 01-6E9	Vol.	117035	124	TM243-SS25	M26			114258	23	TC71					6	6SA7, 6SK7, 6H6,		
								116262	23	TC74						6SQ7, 6F6G, 5W4G	455	11-13,14
01-6F9 (Ch. 01-6F)	Vol.	117069	124	TM238-SS25				118421	23	3S584	B8				6	‡6SK7, 6SA7, 6SQ7,		
																6F6G, 5W4G	455	12-1-4
01-6G, 01-6G-Z	Vol.	117035	124	TM243-SS25	M26			118421	23	3S584	B8				6	‡6SK7, 6SA7, 6SQ7,		
								110377	19	TC22						6F6G, 5W4G	455	11-15,16
01-6G4-1 to 01-6G4-5 inc., 01-6G1-Z, 01-6G4-1-Z to 01-6G4-5-Z inc.	Vol.	117035	124	TM243-SS25	M26			118421	23	3S584	B8				6	‡6SK7, 6SA7, 6SQ7,		
								110377	19	TC22						6F6G, 5W4G	455	11-15
01-6K1	Vol.	119086	18	MK402	M26			119343	23	Order from	Mfr				6	‡12K7GT, 12SA7,		
																12SQ7, 25L6G,		
																6X5G	455	11-17
01-6M9	Vol.	119086	18	MK402	M26			119343	23	Order from	Mfr				6	‡12K7GT, 12SA7,		
																12SQ7, 25L6G,		
																6X5G	455	11-17
01-8A	Vol.	118198	15	UM163	M26		A96	114972	25	TC74					8	‡6SK7, 6SA7, 6H6,		
																6J5GT, 6SF5,		
																6V6G, 5W4G	455	11-19
01-8B	Vol.	118198	15	UM163	M26		A96	114972	25	TC74					8	‡6SK7, 6J5GT, 6SF5,		
																6H6, 6V6G, 5W4G,		
																6SA7	455	11-27
01-8C and 01-8C-Z	Vol.	118669	124	TM243-SS25	M26			114972	23	TC74					8	‡6SK7, 6SA7, ‡6J5GT,		
								110377	19	TC22						6SQ7, 6F6G, 5W4G	455	11-21
01-0A, 01-9A-Z	Vol.	118669	124	TM243-SS25	M26			114972	23	TC74					9	‡12SK7, 12A8GT,		
								110377	19	TC22						12Q7GT, ‡6J5GT,		
																‡6K6G, 5Y3G	455	11-23,24
01-521 to 01-529 (Ch. 01-52)	Vol.	116005	18	UM161	M26		A96	114258	1	TC71					5	6A8G, 6K7, 6Q7G,		
																6F6G, 5W4G	465	10-55
01-531 to 01-539 (Ch. 01-53)	Vol.	116236	18	MR48	M26			114972	23	TC74					5	6A8G, 6K7, 6Q7G,		
								114258	23	TC71						6F6G, 5W4G	465	10-57
								110377	19	TC22								
01-531S to 01-539S (Ch. 01-53S)	Vol.	116236	18	MR48	M26			114972	23	TC74					5	6A8G, 6K7, 6Q7G,		
								114258	23	TC71						6F6G, 5W4G	465	10-57
								110377	19	TC22								
01-611 to 01-619, 01-611S to 01-619S (Ch. 01-61, 01-61S)	Vol.	116236	75	MR48	M26			114972	23	TC74					6	6A8G, 6K7, 6H6,		
								114258	23	TC71						6Q7G, 6F6G,		
								110377	19	TC22						5W4G	465	10-60
01-811 to 01-819 (Ch. 01-81)	Vol.	114928	124	MRT443	M26			113965	25	RS216					8	‡6K7, 6A8G, 6J5G,		
								116262	25	TC74						6H6, 6Q7G, 6F6G,		
								116263	13	TC70						5W4G	465	10-61, 62
02-4A1 to 02-4A9 inc.	Vol.	117706	18	UM161	M27		A96	113118	12	TC42					4	1A7GT, 1N5GT,		
																1H5GT, 1C5GT	455	11-28
02-4B1 to 02-4B9 (Chassis 02-4B)	Vol.	119426	18	UM161	M27		A96	113118	12	TC42					4	1A7GT, 1N5GT,		
																1H5GT, 1A5GT	455	12-5,6,8
02-4C1 to 02-4C9 (Ch. 02-4C)	Vol.	119529	18	UM161	M27		A96	112898	12	TC44					4	1A7GT, 1N5GT,		
																1H5GT, 1A5GT	455	12-6-8
02-5T1 to 02-5T9 (Chassis 02-5T)	Vol.	119551	18	UM161			A96	112898	12	TC44					5	1A7G, 1N5G, 1H5G,		
	Tone	119552	22	UM140	M27		A96									1Q5G, 1G4G	455	12-8-10
02-41	Vol.	116393	18	MR53	M27			113118	12	TC42					4	1A7G, 1N5G, 1H5G,		
																1C5G	465	10-65

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STEWART-WARNER CORP.—Continued																		
03-5A1 to 03-5A9 (Ch. 03-5A)	Vol.	116691	18	MR53	M26			113472	22	TC48					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-29
								112898	22	TC44								
Senior Varsity (Ch. 03-5B, 07-5B)	Vol.	116691	18	‡			A5	113472	22	TC48					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-31
								112898	22	TC44								
03-5C1	Vol.	116762	18	UM161	M26		A96	113472	22	TC48					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-33
								112898	22	TC44								
03-5E and 03-5J	Vol.	116834	18	MK402	M26			113472	22	TC48					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-35,36
								112898	22	TC44								
03-5K1 to 03-5K9 inc.	Vol.	114879	18	UM161	M26		A96	117559	22	2N513					5	12SA7, 25B8GT, 12SQ7, 35L6GT, 35Z5GT	455	11-37
03-5R1	Vol.	119413	18	UM161	M26		A96	118911	22	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-39
03-5R3 to 03-5R6 inc.	Vol.	119413	18	UM161	M26		A96	118911	22	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-39
03-5S1, 03-5S2	Vol.	119086	18	MK402	M26			118911	22	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-41
03-6J, 03-6J-Z, 03-6L, 03-6L-Z	Vol.	116834	18	MK402	M26			119021	4	TCS47					6	6SK7, 6SA7, 6SQ7, 25L6GT, 25Z6GT	455	11-43,44
								110377	20	TC22	B10							
03-6N-1, 03-6N1-Z, (Ch. 03-6N, 03-6N-Z)	Vol.	116834	18	MK402	M26			119021	4	TCS47					6	6SK7, 6SA7, 6SQ7, 25L6GT, 25Z6GT	455	12-11,12
05-5L1 to 05-5L9 inc.	Vol.	117897	15	UM161	M27		A96	117759	22	2N509					5	1A7GT, 1N5GT, 1H5GT, 1Q5GT, 70L7GT	455	11-12
								117730	78	TC2501								
O6-6H1	Vol.	119357	18	MK400	M27			119428	1	TC55		110800	246A	C3	6	1C7G, 1H4G, 1D5GP, 1H6G, 1F5G	455	14-1,2
								113422	1	TC52								
								118452	78	TC2501								
								.01		Buffer	B14							
07-5EX	Vol.	116834	18	MK402	M26			117623	1	TC48					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	14-3,4
								117622	1	TC45								
07-5NX	Vol.	116834	18	MK402	M26			117622	1	TC45					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-4,5
								118248	1	TC77								
07-5R1	Vol.	119413	18	UM161	M26		A96	118911	22	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-39
07-5R3 to 07-5R6 inc.	Vol.	119413	18	UM161	M26		A96	118911	22	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-39
07-511 to 07-519 (Ch. 07-51)	Vol.	114879	18	UM161	M26		A96	114869	22	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	465	11-67
07-511H to 07-519H (Ch. 07-51H)	Vol.	114879	18	UM161	M26		A96	116470	22	FP211					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	465	10-69
07-551 to 07-559 (Ch. 07-55)	Vol.	114879	18	MR53	M26			116470	1	FP211					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	465	10-69
07-631 to 07-639 (Ch. 07-63)	Vol.	116272	18	MR53	M26			112898	24	TC44					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G, L49B	465	10-71
								113472	13	TC48								
08-521 to 08-529 (Ch. 08-52)	Vol.	116005	18	UM161	M26		A96	114258	1	TC71					5	6A8G, 6K7, 6Q7G, 6F6G, 5W4G	465	10-55
08-811 to 08-819 (Ch. 08-81)	Vol.	114928	124	MRT443	M26			113965	25	RS216					8	6K7, 6A8G, 6J5G, 6H6, 6Q7G, 6F6G, 5W4G	465	10-61, 62
								116262	25	TC74								
								116263	13	TC70								
010-6BX, 010-6DX, 010-6AX	Vol.	117035	124	TM243-SS25	M26			114972	23	TC74					6	6SA7, 6SK7, 6H6, 6SQ7, 6F6G, 5W4G	455	
								117356	19	TC22								
010-6C9X	Vol.	117069	124	TM238-SS25				114972	23	TC74					6	6SA7, 6SK7, 6H6, 6SQ7, 6F6G, 5W4G	455	11-78
010-6K1-X	Vol.	119086	18	MK402	M26			119343	4	Order from	Mfr.				6	12SA7, 12J5GT, 12K7GT, 12SQ7, 25L6G, 6X5G	455	14-6,7
010-521 to 010-529 (Ch. 010-52)	Vol.	116005	18	UM161	M26		A96	114258	1	TC71					5	6A8G, 6K7, 6Q7G, 6F6G, 5W4G	465	10-55

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STEWART-WARNER CORP.—Continued																		
010-531 to 010-539 (Ch. 010-53)	Vol.	116236	18	MR48	M26			114972 114258 112113	23 23 19	TC74 TC71 TC32					5	6A8G, 6K7, 6Q7G, 6F6G, 5W4G	465	10-57
010-531S to 010-539S (Ch. 010-53S)	Vol.	116236	18	MR48	M26			114972 114258 112113	23 23 19	TC74 TC71 TC32					5	6A8G, 6K7, 6Q7G, 6F6G, 5W4G	465	10-57
010-611 to 010-619, 010-611S to 010-619S (Ch. 010-61, 010-61S)	Vol.	116236	75	MR48	M26			114972 114258 110377	23 23 19	TC74 TC71 TC22					6	6A8G, 6K7, 6H6, 6Q7G, 6F6G, 5W4G	465	10-60
010-811 to 010-819 (Ch. 010-81)	Vol.	114928	124	MRT443	M26			113965 116262 116263	25 25 13	BS216 TC74 TC70					8	[2]6K7, 6A8G, 6J5G, 6H6, 6Q7G, 6F6G, 5W4G	465	10-61, 62
11-2A1 (Wireless Record Player) (Ch. 11-2A)	Vol.	160576	50	MK400	M26			116470	24	FP211					2	35L6GT, 35Z5GT		12-18
11-5V9 (Ch. 11-5V)	Vol.	119912	18	MK402	M26			160012	1/15	3N533					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-13
11-5W1 to 11-5W9 (Ch. 11-5W)	Vol.	119629	18	UM161	M26		A96	114258	1	TC71					5	6F6G, 6SQ7, 5W4G, 6SK7, 6SA7	455	12-14
11-6T1 to 11-6T9, 11-6T1S to 11-6T9S (Ch. 11-6T, 11-6TS)	Vol.	160175	124	‡			A19	160171	1/15	FP339					6	6SA7, 6SK7, 6SQ7, 6F6G, 6J5GT, 5Y3G	455	12-15-17
11-6U1 to 11-6U9, 11-6U1-Z to 11-6U9-Z (Ch. 11-6U, 11-6U-Z)	Vol.	160407	18	‡			A5	117034 110377	23 19	3S584 TC22	B8				6	6SA7, 6SK7, 6SQ7, 6F6G, 6J5GT, 5W4G	455	12-19,21
11-6V1 to 11-6V9 (Ch. 11-6V)	Vol. Tone	160238 160361	140 140	TM243-SS25 MK402	M26 M26			161193	1/15	FP339					6	6SA7, 6SK7, 6J5GT, 6SQ7, 6F6G, 5Y3G	455	12-20,21
11-7A1 to 11-7A9 (Ch. 11-7A)	Vol. Tone	160238 160361	140 140	TM243-SS25 MK402	M26 M26			160008	1	FP234					7	6SA7, 6SK7, 6SQ7, 6J5GT, [2]6F6G, 5Y3G	455	12-12,22
11-8F1 to 11-8F9, 11-8F1-Z to 11-8F9-Z (Ch. 11-8F, 11-8F-Z)	Vol.	118669	124	TM243-SS25	M26			114972 110377	23 19	TC74 TC22					8	[2]6SK7, 6SA7, [2]6J5GT, 6SQ7, 6F6G, 5W4G	455	12-23,24
11-9B1-Z to 11-9B9-Z (Ch. 11-9B-Z), 11-9B1 to 11-9B9 (Ch. 11-9B)	Vol.	118669	124	TM243-SS25	M26			160008	1	FP234					9	[2]6SK7, 6SA7, 6SQ7, [2]6J5GT, [2]6F6G, 5Y3G	455	12-16,31
12-4D1 (Ch. 12-4D)	Vol.	161325	18	MK401	M27			110377	19	TC32					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	455	12-32,40
13-5U1 to 13-5U9 (Ch. 13-5U)	Vol.	119912	18	MK402	M26			160012 118911	1/15 1	3N533 2N509	B12				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-33
13-6P1 to 13-6P9 (Ch. 13-6P)	Vol.	119912	18	MK402	M26			112898 113472	4 4	TC44 TC48					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT, 12J5GT	455	12-34
15-5X1 to 15-5X9 (Ch. 15-5X)	Vol.	160297	18	UM161	M27		A96	117559 118452	1 78	2N513 TC2501					5	1LA6, 1LN5, 1LH4, 1LA4, 35Z3	455	12-35
15-5Y1 to 15-5Y9 (Ch. 15-5Y)	Vol.	161227	18	Order from	Mfr.			117559 161273	1 78	2N513 TC29					5	1LA6, 1LN5, 1LH4, 3Q5GT, 35Z3	455	12-21,36
17-7B	Vol. Tone	160238 160361	140 140	TM243-SS25 MK402	M26			116470 113472	1 1	FP211 TC48					7	6SA7, 6SK7, 6SQ7, 6J5GT, [2]25L6G, 25Z6G	455	11-8,9
91-511 to 91-519 (Ch. 91-51)	Vol.	113049	18	MR48	M26			113096	23	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5W4G	465	10-9
91-531 to 91-539 (Ch. 91-53)	Vol.	113024	18	UM154	M26		A96	8-4-4	60	See Note	B3				5	6A8G, 6K7, 6Q7G, 6K6G, 5W4G	465	10-11
91-611 to 91-619 (Ch. 91-61)	Vol.	113062	18	UM154	M26		A96	89937 113066 110377	25 25 19	RS223 TC71 TC22					6	6A8G, 6K7, 6Q7G, 6U5, 6K6G, 5W4G	465	10-15, 16

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STEWART-WARNER CORP —Continued																		
91-621 to 91-629 (Ch. 91-62)	Vol.	113024	18	UM154	M26		A96	8-4-4	60	See Note	B3				6	6A8G, 6K7, 6Q7G, 6K6G, 6U5, 5W4G	465	10-19
91-641 to 91-649 (Ch. 91-64)	Vol.	113852	18	MR48	M26			114329 113808	23 23	TC74 TC71					6	6A8G, 6K7, 6Q7G, ‡6K6G, 5W4G	465	10-21
91-648 (Ch. 91-64) (With S Stamped on Chassis)	Vol.	116274	45	MR48	M26			114972 113808	23 23	TC74 TC71					6	6A8G, 6K7, 6H6, 6Q7G, 6F6G, 5W4G	465	10-23
91-711 to 91-719 (Ch. 91-71)	Vol.	110766	18	MR53	M26			89937 110768 110377	25 25 19	RS223 TC71 TC22					7	6L7G, 6U7G, 6C5G, 6U5, 6Q7G, 6L6G, 5W4G	465	10-25
91-811 to 91-819 (Ch. 91-81)	Vol.	113254	18	TM221-SS1	M26			113261 89937	1 1	RS223 RS223					8	‡6K7, 6A8G, 6Q7G, 6U5, ‡6K6G, 5Y3G	465	10-29
91-821 to 91-829 (Ch. 91-82)	Vol.	113967	20	MRT443				113965 113962 89937 113963 113961 110377	30 30 30 13 14 15	RS216 TC72 RS223 TC74 TC52 TC22					8	6A8G, 6K7G, 6H6G, ‡6J5G, 6U5, 6L6G, 5U4G	465	10-31, 32
91-111 to 91-1119 (Ch. 91-111)	Vol. Remote Cont.	113258 113646	15 7	MRT438 MR34	M26			113261 89937 110377	1 1 15/19	RS223 RS223 TC22					11	‡6K7, 6L7G, 6J5G, 6R7G, 6U5, ‡6V6G, ‡5W4G	465	10-5,6
97-521 to 97-529 (Ch. 97-52)	Vol.	113049	18	MR48	M26			112898	4	TC44					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G, L49B	465	10-35
97-561 to 97-569 (Ch. 97-56)	Vol.	113501	6	UM124-SS18	M26	EX300		113472 112898	4 4	TC48 TC44					4	6A8G, 6J7G, 25L6G, 25Z6G, L55B	465	10-37
97-561S to 97-569S (Ch. 97-56S)	Vol.	113501	6	UM124-SS18	M26	EX300		113472 112898	4 4	TC48 TC44					4	6A8G, 6J7G, 25L6G, 25Z6G, L55B	465	10-37
97-571 to 97-579 (Ch. 97-57)	Vol.	114814	18	UM161	M26		A96	113472 112898	23 23	TC48 TC44					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G	465	10-41
98-511 to 98-519 (Ch. 98-51)	Vol.	113049	18	MR48	M26			113096	23	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5W4G	465	10-9
98-531 to 98-539 (Ch. 98-53)	Vol.	113024	18	UM154	M26		A96	112802	60	2S567/TC70					5	6A8G, 6K7, 6Q7G, 6K6G, 5W4G	465	10-11
98-611 to 98-619 (Ch. 98-61)	Vol.	113062	18	UM154	M26		A96	89937 113066 110377	25 25 19	RS223 HD684 TC22					6	6A8G, 6K7, 6Q7G, 6U5, 6K6G, 5W4G	465	10-15,16
98-621 to 98-629 (Ch. 98-62)	Vol.	113024	18	UM154	M26		A96	112802	60	2S567/TC70					6	6A8G, 6K7, 6Q7G, 6K6, 6U5, 5W4G	465	10-19
98-641 to 98-649 (Ch. 98-64)	Vol.	113852	18	MR48	M26			114329 113808	23 23	TC74 TC71					6	6A8G, 6K7, 6Q7G, ‡6K6G, 5W4G	465	10-21
98-511 to 98-519 (Ch. 98-51)	Vol.	113049	18	MR48	M26			113096	23	2S567					5	6A8G, 6K7, 6Q7G, 5W4G, 6K6G	465	10-9
98-711 to 98-719 (Ch. 98-71)	Vol.	110766	18	MR53	M26			89937 110768 110377	25 25 19	RS223 TC71 TC22					7	6L7G, 6U7G, 6C5G, 6U5, 6Q7G, 6K6G, 5W4G	465	10-25
98-811 to 98-819 (Ch. 98-81)	Vol.	113254	56	TM221-SS1	M26			113261 89937	1 1	RS223 RS223					8	‡6K7, 6A8G, 6Q7G, 6U5, ‡6K6G, 5Y3G	465	10-29
98-821 to 98-829 (Ch. 98-82)	Vol.	113967	15	MRT443				113965 113962 89937 113963 113961 110377	30 30 30 13 14 15	RS216 TC72 RS223 TC74 TC52 TC22					8	6A8G, 6K7G, 6H6G, ‡6J5G, 6U5, 6L6G, 5U4G	465	10-31,32
98-111 to 98-1119 inc. (Ch. 98-111)	Vol. Remote Vol.	113258 113646	15 7	MRT438 MR34	M26			113261 89937 110377	1 1 15/19	RS223 RS223 TC22					11	‡6K7, 6L7G, 6J5G, 6R7G, 6U5, ‡6V6G, ‡5W4G	465	10-5,6
205CA-205CZ, (Ch. 205C)	Vol. Tone	500356 500357	18 22	MK402 UM142-SS25	M27			112898	12	TC45					5	1A7GT, ‡1N5GT, 1H5GT, 1A5GT	455	13-1,2

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STEWART-WARNER CORP.—Continued																		
205AA to 205AZ (Ch. 205A)	Vol.	500480	18	MK402	M26			500256	77	FP354	B69				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-7
205BA to 205BZ (Ch. 205B)	Vol.	500480	18	MK402	M26			500256	77	FP354	B69				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-7
205FA (Ch. 205F)	Vol.	119912	18	MK402	M26			160012	77/15	3N533					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-3,4
205GA to 205GZ (Ch. 205G)	Vol.	500223	18	MK402	M26			501213	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-5,6
206BA to 206BZ (Ch. 206B)	Vol.	500480	18	MK402	M26			500256	77	FP354	B69				6	14H7, 12SK7, 12J5GT, 12SQ7, 35L6GT, 35Z5GT	455	13-8
206BAS to 206BZS (Ch. 206BS)	Vol.	500480	18	MK402	M26			500256	77	FP354	B69				6	14H7, 12J5GT, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	13-9
206CA to 206CZ (Ch. 206C)	Vol.	500480	18	MK402	M26			500256	77	FP354	B69				6	14H7, 12SK7, 12J5GT, 12SQ7, 35L6GT, 35Z5GT	455	13-8
206CAS to 206CZS (Ch. 206CS)	Vol.	500480	18	MK402	M26			500256	77	FP354	B69				6	14H7, 12SK7, 12SQ7, 35L6GT, 12J5GT, 35Z5GT	455	13-9
206DA to 206DZ (Ch. 206D)	Vol.	500480	18	MK402	M26			500256	77	FP354	B69				6	14H7, 12SK7, 12SQ7, 12J5GT, 35L6GT, 35Z5GT	455	13-10,11
206DAS to 206DZS (Ch. 206DS)	Vol.	500480	18	MK402	M26			500256	77	FP354	B69				6	14H7, 12J5GT, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	13-12,11
206EA to 206EZ (Ch. 206E)	Vol.	500480	18	MK402	M26			500256	77	FP354	B69				6	14H7, 12J5GT, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	13-10-11
206EAS to 206EZS (Ch. 206ES)	Vol.	500480	18	MK402	M26			500256	77	FP354	B69				6	14H7, 12J5GT, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	13-12-11
206F	Vol.	116834	18	MK402	M26			500256	77	FP354	B69				6	14H7, 12J5GT, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	14-14
206GA to 206GZ (Ch. 206G)	Vol.	500481	18	MK402	M23			500714 161273	1/12 78	FP354 TC39	B69				6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, [3]35Z5GT	455	13-13,14
206HA	Vol.	501405	18	MK402	M26			501213	77	2N514					6	14H7, 12J5GT, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	14-10-13
207A	Vol.	500208	64	MK402	M26			160174	1/15	FP339					7	6SJ7, 6SK7, [2]6J5GT, 6SQ7, 6F6G, 5W4G	455	14-15,16
207BA to 207BZ (Ch. 207B)	Vol.	500439	18	MK402	M26			500201	1/19	FP371					7	6SJ7, [2]6J5GT, 6SK7, 6SQ7, 6F6G, 5Y3G	455	13-15,16
207CA to 207CZ (Ch. 207C)	Vol.	500481	18	MK402	M23			500766 161273	1/12 78	FP354 TC39					7	[2]1N5GT, 1A7GT, 1H5GT, 3Q5GT, [3]35Z5GT	455	13-17,18
207DK (Ch. 207D)	Vol.	118669	45	TM243-SS25	M26			501060	1/19	TCD75/TC26					7	7H7, [2]6J5GT, 6SK7, 6SQ7, 6F6G, 5Y3G	455	13-19,20
207FK (Ch. 207F)	Vol.	119634	64	TM243-SS1				501060	1/19	TCD75/TC26					7	7H7, [2]6J5GT, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	14-17,20
208A	Vol.	117685	18	TM243-SS25	M26			500026	1	TC74					8	[2]6SK7, 6J5GT, 6SA7, 6SQ7, [2]6K6GT, 5W4G	455	14-21,22
208BK (Ch. 208B)	Vol.	118669	18	TM243-SS25	M26			501060	1/15	TCD75/TC26					8	7H7, 6J5GT, 6SK7, [2]6SQ7, [2]6F6G, 5Y3G	455	13-21,22
208CK (Ch. 208C)	Vol.	118669	18	TM243-SS25	M26			501060	1/15	TCD75/TC26					8	7H7, 6J5GT, 6SK7, [2]6SQ7, [2]6F6G, 5Y3G	455	13-21,22
910-511 to 910-519 inc. (Ch. 910-51)	Vol.	113049	18	MR48	M26			113536	23	2S567					5	6A8G, 6K7, 6Q7G, 5W4G, 6K6G	465	10-9
910-531 to 910-539 (Ch. 910-53)	Vol.	113024	18	UM154	M26		A*6	112802	60	2S567/TC70					5	6A8G, 6K7, 6Q7G; 6K6G, 5W4G	465	10-11

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STEWART-WARNER CORP.—Continued																		
910-611 to 910-619 (Ch. 910-61)	Vol.	113062	18	UM154	M26		A96	89937 113066 110377	25 25 19	RS223 HD684 TC22					6	6A8G, 6K7, 6Q7G, 6U5, 6K6G, 5W4G	465	10-15,16
910-621 to 910-629 (Ch. 910-62)	Vol.	113024	18	UM154	M26		A96	112802	60	2S567/TC70					6	6A8G, 6K7, 6Q7G, 6K6G, 6U5, 5W4G	465	10-19
910-641 to 910-649 (Ch. 910-64)	Vol.	113852	18	MR48	M26			114329 113808	23 23	TC74 TC71					6	6A8G, 6K7, 6Q7G, [26]K5G, 5W4G	465	10-21
910-711 to 910-719 (Ch. 910-71)	Vol.	110766	18	MR53	M26			89937 110768 110377	25 25 19	RS223 TC71 TC22					7	6L7G, 6U7G, 6C5G, 6U5, 6Q7G, 6K6G, 5W4G	465	10-25
910-811 to 910-819 (Ch. 910-81)	Vol.	113254	56	TM221-SS1	M26			113261 89937	1 1	RS223 RS223					8	[26]K7, 6A8G, 6Q7G, 6U5,[26]K6G, 5Y3G	465	10-29
910-821 to 910-829 (Ch. 910-82)	Vol.	113967	15	MRT443				113965 113962 89937 113963 113961 110377	30 30 30 13 14 15	RS216 TC72 RS223 TC74 TC32 TC22					8	6A8G, 6K7G, 6H6G, [26]J5G, 6U5, 6L6G, 5U4G	465	10-31,32
910-1111 to 910-1119 inc. (Ch. 910-111)	Vol. Remote Vol.	113258 113646	15 7	MRT438 MR34	M26			113261 89937 110377	1 1 15/19	RS223 RS223 TC22					11	[26]K7, 6L7G, 6J5G, 6H7G, 6U5, [26]V6G, [25]W4G	465	10-5,6
102D (7 tubes)	Vol. Tone		2/12 22	Order from Mfr. MR36	Mfr.										7	[32], [30], 33		10-3
102D (8 tubes)	Vol. Tone		2/12 41	Order from Mfr. MR36	Mfr.										8	[32], [30]		10-4
A6 (Ch. 07-31), Air Pal	Vol.	116579	6	UM124-SS22	M26	EX300		116587	1	2N509					3	12SA7, 25B8GT, 70L7GT	455	10-1
A6S (07-32)	Vol.	117088	18	UM154-SS25	M26			116587	1	2N509					3	12SA7, 25D8GT, 70L7GT	455	11-32
R100A, B, E (AC)	Vol. Tone	66389 67023	113 22	SRP245 MR36				66170	3	2N518					8	[24],[27],[45], 80		1-10
R100C, R100CF (DC)	Vol. Tone	66559 67023	‡ 22	Order from Mfr. MR36	Mfr.										7	12A, 01A,[22],[71A]		1-12
R101A, R101B	Vol.	67267	6	E12				67265 67264	4 4	RS213 RS213					4	51 or 35, 24, 47, 80		2-1
R102A, B and E	Vol. Tone	67457 67679	6 22	A10MP MR36			A66	67328 67588	5 26	RS213 RS213	.B12				6	[24]A, 51 or 35, 47, 27, 80	177.5	2-4,5
R-102-C (DC)	Vol. Tone	67822 67704	5/12 34	DRP241 MR36											7	[36],[37],[33]		
R-102-D7	Vol. Tone	67821	5/12 22	DRP241 MR36	7										7	[32],[30], 33		
R-102-D8	Vol. Tone	67822 67701	5/12 31	DRP241 MR36											8	[32],[30]		
R104A, B and E	Vol. Tone	67937 67309	15 114	MR48 MR36				67328 67588	5 26	RS213 RS213	.B12				6	57, 58, 47, 56, 80, Wunderlich	177.5	3-1,4
105 Series (50 to 59)	Vol. Tone	81419 81437	100 22	MR36 MR39	M26			81347 81367 67328	26 26 26	RS213 RS215 RS213	.B12				11	[57],[58],[56], 27,[47], 80	177.5	3-3,5
R106	Vol. Sen.	81484 81534	56 7	MR48 A10MP	6			67328	2	RS213					7	[58], 55, 59, 56, 80	177.5	4-1,2
108, 108X, (10 to 20 incl.)	Vol.	81679	6	MR45	M26	EX100		81678 81698	1 15	2N518 TN111					4	39, 36, 38, 12Z3		3-6
109 (1090-1099)	Vol. Vol.	81722 81870	56 56	MR48 Order from Mfr.	M26		A4	81347	1	RS213					6	[58], 55, 56, 2A5, 80	177.5	3-7,8
R110, R110B, R110C	Vol.	81904	56	MR48	M26			81347 81901 81959 83394	1 14 11 11	RS213 TC52 UR182 TC44	.B31				10 6	[58], 51, 55,[27],[2A5], 80 [78], 6B7, 43, 37, 25Z5	177.5 456	4-3,4 4-5,6
R111	Vol.	81908	17	MR48	M26													
R112 (1121, 1122, 1123)	Vol.	83202	18	MR48	M26			83111 83118 .02-.02	1/15 ‡ ‡	2N518/TN111 Order from Mfr. Buffer	.B14	83371	292	C3	5	6A7, 78, 75, 41, 84	456	4-7,8
R115	Vol.		17	MR48	M26			81959 83394	11 11	UR182 TC44	.B31				6	[78], 37, 6B7, 43, 25Z5	456	4-5,6
R116, R116X, R116XH, R116AL, R116XL	Vol.	83551	17	MR48	M26			83613	1	ST595					5	6A7, 78, 75, 42, 80	456	4-10,11
R117 (1171, 1172)	Vol. Tone	83728 83812	17 22	UM154-SS3 MR33	M26			83734 83803 .015-.015	4 15	TCS71 TC22 Buffer	.B14	83800	294	C3	6	[78], 6A7, 75, 42, 84	177.5	5-1,2

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STEWART-WARNER CORP.—Continued																		
R118 (1181, 1182, 1183)	Vol.	83728	17	UM154-SS3	M26			83734	4	TCS71		83800	294	C3	6	[2]78, 6A7, 41, 75, 84	177.5	6-11
	Tone	83812	22	MR33				83803	15	TC22								
								.015-.015		Buffer	B14							
R119, R119A, R119EF	Vol.	83424	56	MR48	M26			81347	1	RS213					6	[2]78, 6A7, 85, 42, 80	177.5	4-12,13
								67328	1	RS213								
								80537	15	TC22								
R120 (1201-1209)	Vol.	83425	56	MR48				81347	4	RS213					12	[2]57, [3]58, 55, [2]A5, [3]56, 80	177.5	4-14,16
	Tone	83466	39	MR24	M26			67328	4	RS213								
R123 (1231-1239)	Vol.	83959	.6	F7	6	3		83960	1	HD684					4	6A7, 6F7, 41, 80	456	6-1,5-3
								83962	1/15	2N518								
R125, R125A and R125X (1251-1259)	Vol.	83551	56	MR48	M26			84193	25	RS216					5	6A7, 6D6, 75, 41, 80	456	5-5,6-3
R126, Series R126A, R126P, R126X (1261-1269)	Vol.	84289	19	MRT430				84288	25	HD684					7	6C6, [2]6D6, 75, 42, 76, 80	456	5-9,6-5
	Tone	84279	107	MR44	M26			84286	25/13	RM262								
R127, R127X (1271-1279)	Vol.	83551	18	MR48	M26			84192	25	RS216					5	6A7, 6D6, 75, 41, 80	456	6-8, 5-15
	Tone	84368	107	MR44				84193	25	RS216								
R128D (Batt. 1281D-1289D)	Vol.	84528	18	MR48	M23										5	1C6, 34, 25S, 30, 33	456	7-1,2
	Tone	84368	57	MR44														
R130 (1301-1309)	Vol.	84739	18	MR48	M26			84193	25	RS216					5	6A7, 6D6, 75, 42, 80	456	6-12
	Tone	84942	107	MR44			A4	85112	25	RS216								
R131 (1311-1319)	Vol.	83728	17	UM154-SS3	M26			84829	4	TCS71		84904	294	C3	6	[2]78, 77, 75, 41, 84	177.5	6-13,14
								83803	15	TC22								
								.03-.03		Buffer	B14							
R132 (Firestone R1322)	Vol.	85215	1	UM147-SS3	M26			85237	1	2N518		85243	289Y	C3	7	[2]78, 77, 85, [3]41, 76	177.5	6-15
	Tone	85179	44	MR36				83803	15	TC22								
								85216	15	TC32								
								.005		Buffer	B14							
R133 (Firestone 1332)	Vol.	83728	17	UM154-SS3	M26			84961	4	TCS71		84995	294	C3	5	6A7, 6D6, 75, 41, 84	456	6-16
								83803	15	TC22								
								.03-.03		Buffer	B14							
R134 (1341-1349)	Vol.	85073	18	MR44	M26			85792	25	RS216					6	[2]6D6, 6A7, 75, 42, 80	456	6-17, 7-3
	Tone	85074	107	MR48				85793	25	RS216								
R136 (1361-1369)	Vol.	85073	46	MR44	M26			85431	25	RS216					7	[2]6K7, 6A8, 6H6, 6J7, 6F6, 5Z4	456	6-18, 7-4
	Tone	85074	107	MR48				85430	25	RS216								
R137 (1371-1379)	Vol.	85073	15	MR44	M26			85583	31	RS216					9	[2]6K7, 6A8, 6H6, [2]6C5, [2]2A3, 83V	456	6-19, 7-5
	Tone	85074	57	MR48				85584	31	RS216								
								85588	31	RS216								
								85565	18	TC48								
								83803	15	TC22								
R138 (1381-1389)	Vol.	85073	15	MR44	M26			85583	31	RS216					11	[2]6K7, 6A8, [2]6H6, 6C5, [2]2A3, 6J7, 83V	456	6-20, 7-6
	B. Tone	85621	‡	MR48				85584	31	RS216								
	T. Tone	85620	57	MR53				85588	31	RS216								
								85565	18	TC48								
								85692	14	TC40								
								83803	15	TC22								
R139D	Vol.	84528	18	MR48	M27										6	1A6, 34, 1B5, [3]30, Ballast—1G1	456	7-7
R140 (1401-1409)	Vol.	83551	18	MR48	M26			84193	25	RS216					5	6A7, 6D6, 75, 42, 80	456	7-9,10
								85112	25	RS216								
R142A, R142AS, (1421-1429)	Vol.	88036	6	SRP263	6			88033	25	RS213					5	[2]6K7, 6J7, 6F6, 6X5	456	7-11,12
								88007	25	RS213								
R143 (R1431)	Vol.	88171	17	UM154-SS11	M26			88256	4	TCS71		88156	854	C3	6	[2]6D6, 77, 75, 41, 84	456	8-15,16
								88170	15	TC22								
								.01		Buffer	B14							
R144AS (1441-1449)	Vol.	88036	6	MR24	M26			88007	25	RS213					5	[2]6D6, 6C6, 41, 84	456	7-13,14
								88033	25	RS213								
R145 (1451-1459)	Vol.	88487	18	MRT420	M26			88512	25	RS216					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	456	7-15,16
	Tone	88488	57	MR48				88511	25	RS216								
R146 (1461-1469)	Vol.	88487	18	MRT420	M26			85431	25	RS216					7	[2]6K7, 6A8, 6H6, 6F5, 6F6, 5Z4	456	7-17,18
	Tone	88488	57	MR48				88033	25	RS213								
								88576	13	RS213								
R147 (1471-1479)	Vol.	88487	18	MRT420	M26			85431	25	RS216					8	[2]6K7, 6A8, 6H6, 6F5, 6L6, 5Z4, 6G5	456	8-1,2
	Tone	88488	57	MR48				88033	25	RS213								
								88576	13	RS213								
R148 (1481-1489)	Vol.	88487	75	MRT420	M26			85583	25	RS216					10	[2]6K7, 6A8, 6H6, [2]6C5, [2]6L6, 6G5, 5V4G	456	8-3,4
	Tone	88488	41	MR48				88511	25	RS216								
								88007	13	RS213								
								89053	19	TC22								
R149 (1491-1499)	Vol.	89118	20	MRT440	M26			85583	54	RS216					12	[2]6K7, 6A8, [2]6H6, [2]6C5, 6J7, 6G5, [2]6L6, 5V4G	456	7-19,22
								88511	54	RS216								
								89186	54	ST595								
								88007	13	RS213								
								83803	15	TC22								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STEWART-WARNER CORP.—Continued																		
R160 (1601-1609)	Vol.	88171	17	UM154-SS11	M26			88256	4	TCS71		88156	854	C3	6	[2]6D6, 77, 75, 41, 84	456	7-8
								88170	15	TC22								
								.01		Buffer	B14							
R161D (1611D-1619D)	Vol.	89330	18	MR48	M27										6	1C7G, 1D5G, 1H6G, [3]1H4G, 1R1G	456	8-7,8
R162D (1621D-1629D)	Vol.	89330	18	MR48	M27										6	1C7G, 1D5G, 1H6G, [3]1H4G, 1R1G	456	8-9,10
	Tone	88488	57	MR48														
R163D (1631D-1639D)	Vol.	89332	18	MR48	M26			89147	25	ST595		89272	Order from Mfr.		6	1C7G, 1D5G, 1H6G, [3]1H4G	456	9-1,2
								89145	‡	Order from Mfr.								
								88170	19	TC22								
								.005		Buffer	B14							
R164D (1641D-1649D)	Vol.	89332	18	MR48	M26			89147	25	ST595		89272	Order from Mfr.		6	1C7G, 1D5G, 1H6G, [3]1H4G	456	9-1,2
	Tone	88488	57	MR48				89145	‡	Order from Mfr.								
								88170	19	TC22								
								.005		Buffer	B14							
R166	Vol.	88487	75	MRT420	M26			88512	25	RS216					7	6A8, 6K7, 6H6, 6F5, 6F6, 6G5, 5Z4	456	
	Tone	88488	57	MR48				88511	25	RS216								
								89755	13	TC52								
R167S, R168 (1671-1689)	Vol.	88036	6	MR24	M26			88033	25	RS213					5	[2]6K7G, 6J7G, 6K6G, 6X5G	456	9-3,4
								88007	25	RS213								
R169 (1691 to 1695)	Vol.	89606	18	MR44	M26			88512	25	RS216					5	6A8G, 6K7G, 6Q7G, 6K6G, 5V4G	262	8-11,12
	Tone	88488	57	MR48				88511	25	RS216								
R171 (1711 to 1719)	Vol.	89953	18	MR48	M26			89954	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5	465	9-5,6
R172 (1721 to 1729)	Vol.		18	MR44	M26			88512	25	RS216					6	6A8G, 6K7G, 6Q7G, 6G5, 6K6G, 5V4G	262	8-11,12
	Tone		57	MR48				88511	25	RS216								
R173 (1731-1739)	Vol.	88487	75	MRT420	M26			88512	25	RS216					7	6A8, 6K7, 6H6, 6F5, 6F6, 6G5, 5Z4	456	8-13,14
	Tone	88488	57	MR48				88511	25	RS216								
								89755	13	TC52								
R178 (R1781)	Vol.	110311	17	TM229-SS3				110376	4	2S567		110432	854	C3	6	[2]6K7, 6J7, 6Q7, 6F6, 6X5	262	
	Tone	110310	21	Order from Mfr.				110377	15	TC22								
								.01		Buffer	B14							
R180 (1801 to 1809)	Vol.	110503	18	MR53	M26			110497	4	2S567					5	6A8G, 6U7G, 6Q7G, 6K6G, 5W4G	465	9-7,8
	Tone	110504	57	MR48				112359	4	2S567								
R181 (1811 to 1819)	Vol.	110766	18	MR53	M26			89937	25	RS223					6	6L7G, 6C5G, 6U7G, 6Q7G, 6K6G, 5W4G	456	9-9,10
	Tone	110767	57	MR48				110768	25	RS213								
								110377	19	TC22								
								112113	19	TC32								
								112108	25	RS213								
R182 (1821 to 1829)	Vol.	110927	45	MRT438	M26			89937	25	RS223					7	6L7G, 6U7G, 6C5G, 6H6G, 6K5G, 6V6G, 5W4G	465	9-11,12
	Tone		57	MR48				110768	25	RS213								
								110377	19	TC22								
R183 (1831 to 1839)	Vol.	111096	20	MRT438	M26			89937	25	RS223					8	[2]6K7, 6L7, 6C5, 6H6, 6F5, 6L6, 5Y3G	465	9-13,14
								111098	25/19	2S567								
								110377	15	TC22								
R184 (1841 to 1849)	Vol.	111358	20	TM240-SS16	M26			89937	25	RS223					10	[2]6K7, 6L7, 6C5, 6J7, 6H6, 6F5, 6L6, 5U4G	465	9-15,17
								111469	25	RS216								
								110377	15	TC22								
								112113	19	TC32								
R185 (1851 to 1859)	Vol.	111358	20	TM240-SS16	M26			89937	1	RS223					11	[2]6K7, 6L7, [2]6C5, 6J7, 6H6, [2]6V6G, 5U4G	465	
								88680	1/13	RS213								
								111468	15	TN111								
								110377	15	TC22								
								112113	15	TC32								
								112298	13	TC52								
								112467	13	TC52								
R186 (1861 to 1869)	Vol.	111358	20	TM240-SS16	M26			111469	1	RS216					14	[2]6K7, [2]6C5, 6L7, 6J7, [2]6H6, [2]6V6, [2]5W4	465	9-19,22
								89937	1/13	RS223								
								111652	13	TC44								
								110377	15	TC22								
								112476	13	TC44								
								112480	15	TC22								
R188 (1881 to 1889)	Vol.	112275	17	MR48	M26			112270	27	TCS47					5	6A7, 6D6, 75, 43, 25Z5, M49B	465	9-23,24
	Tone	112056	22	MR33														
R189	Vol.		18	MR48	M26			56110	22/13	ST595		56265	Order from Mfr.		5	[2]1C6, [2]34, 33	370	
	Tone		57	MR48				.01		Buffer	B14							
R190D (1901 to 1909)	Vol.	112220	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	10-47,48
R191D (1911 to 1919)	Vol.	112061	15	MR48				110804	1	2N516		111126	245	C3	5	6A8G, [2]6S7G, 6L5G, 41	465	10-49,50
	Tone	112057	22	MR33				89053	15	TC22								
								.03		Buffer	B14							
R192D (1921 to 1929)	Vol.	112255	15	MR48				112244	1	2N516		111126	245	C3	6	6A8G, [2]6S7G, [2]6L5G, 19	465	10-52
	Tone	112253	22	MR33	M26			110377	15	TC22								
								.03		Buffer	B14							
R304 (3041 to 3049)	Vol.	112614	18	MR48	M26			112604	23	2S567					5	6A8G, 6K7G, 6Q7G, 6K6G, 5Y4G	465	10-53

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STEWART-WARNER CORP.—Continued																		
R358 (3581 to 3589)	Vol.	500223	18	MK402	M26			500256	77	FP354	B69				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-23,24
R358S (3581S to 3589S)	Vol.	500223	18	MK402	M26			500256	77	FP354	B69				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-25
R386 (3861 to 3869)	Vol.	500223	18	MK402	M26			501213	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-24,26
202A, B, E	Vol.	67457	6	A10MP				67328	5	RS213					6	[3]24A, 35, PZ or 47, 27, 80	177.5	
	Tone	67679	22	MR36				67588	26	RS213	B12							
715, 720	Vol.		3	MR15											6	[4]26, 27, 71A		1-3
750	Vol.		112	MR20				‡	3	See Note	B1				8	[4]26, 27, [3]12A, 80		1-3
801, 802	Vol.	39256	84	MR20				‡	3	See Note	B1				7	[4]26, 27, 71A, 80		1-4
801, 801A, 811, 811A	Vol.	39256	116	MR20				‡	3	See Note	B1				8	[4]26, 27, [3]12A, 80		1-4
900, 901, 902, 903, 911, 912, 913	Vol.	61557	7	MR37		See Note	A10	61203	3	2N518					8	[5]27, [3]45, 80		1-7
950 Series (AC)	Vol.		113	SRP245		See Note	A80	66170	3	2N518					8	[3]24A, [3]27, [3]45, 80		1-5,6
971, 972, 973 (DC)	Vol.		‡	Order from	Mfr.			61303	‡	2N516	B11				7	12A, 01A, [3]22, [3]71A		1-9
STRATFIELD—See	Electrical Specialties Export Co.																	
STROMBERG-CARLSON																		
27 (AC)	Vol.	P19458	‡	SRP213				2-2-2	3	See Note	B1				10	[3]24, [3]27, [3]45, [3]80	175	2-12,14
29	Vol.	P22318	15	MR48	M28			6-2-1	3	See Note	B1				9	[3]45, [4]35, [3]27, 80	175	2-15,17
	Tone		44	MR48	M26													
	Hum.	P19617	30	Order from	Mfr.													
33	Vol.	P23586	15	UM161-SS3	M26			P23538	1	3S584		P23466	Order from	Mfr.	6	78, 6A7, 6B7, 37, [3]41	175	4-3,6
	Tone	P23587	44	MR53														
33A	Vol.	P23586	15	UM161-SS3	M26			P23538	1	3S584			Order from	Mfr.	6	78, 6A7, 6B7, 37, [3]41	175	6-14
37	Vol.	22696	15/15	MM				22701	22	3S584					9	[4]58, [3]45, [3]56, 80	175	3-3,4
	Tone	22593	34	MR51	M26													
	Hum.	19617	30	Order from	Mfr.													
38, 39, 40, 41 (1st type)	Vol.	P22546	15/15	MM	8			4-7-3-3	22	See Note	B1				9	[4]58, [3]56, [3]45, 80	175	2-18,20
	Tone	P22593	34	MR51	M26													
	Hum.	P19617	30	Order from	Mfr.													
38, 39, 40, 41 (2nd type)	Vol.	P22546	15/15	MM	8			4-7-6-1	22	See Note	B1				10	[3]58, [3]55, [3]45, 56, 57, 80	175	3-5,7
	Tone	P22593	34	MR51	M26													
	Supp.	P22862	‡	Order from	Mfr.													
	Hum.	P19617	30	Order from	Mfr.													
48, 49, 50, 51	Vol.	P23004	‡	Order from	Mfr.			4-5-6-4	‡	See Note	B1				11	[3]58, 55, [3]56, [2]2A3, 57, 5Z3	175	3-8,11
	B. Tone		‡	Order from	Mfr.													
	T. Tone	P23024	44	MR44	M26													
	Hum.	P19617	30	Order from	Mfr.													
52, 54	Vol.	P23005	‡	Order from	Mfr.			4-5-6	3	See Note	B1				12	[3]35, 2B7, 55, [3]56, [2]2A3, 57, 27, 5Z3	175	4-7,9
	B. Tone		‡	Order from	Mfr.													
	T. Tone	P23236	44	MR45	M26													
	Hum.	P19617	30	Order from	Mfr.													
55, 56	Vol.	P23696	8	G				8-8-4	22	3S584	B3				8	58, 78, [2]2A5, 55, 2B7, 6A7, 5Z3	175	4-10,15
	Tone	P23650	34	MR44														
	Hum.	P23815	30	Order from	Mfr.													
58L, 58LB, 58T, 58TB, 58W, 58WB	Vol.	P25507	17	MR53				P25479	1	SR638					6	[3]6D6, 6A7, 75, 42, 80	465	6-1,2
	Tone	P25508	21	UC513	6			P25480	13	RS213								
								P25510	15	TN111								
60	Vol.	P24201	15	MR55				P24190	3	RM265					7	6D6, 6A7, 6B7, 37, [3]41, 80	370	5-1,4
	Tone	P24202	34	MR21	M26			P24207	15	TC32								
61 Series (AC)	Vol.		15	MR53				8-8	1	2N518					7	[3]6K7, 6A8, 6H6, 6F5, 6F6, 80	465	7-1,2
	Tone		57	UC513	6			10	15	TC22								
61, 61Y, 61Z (AC-DC)	Vol.	P25507	18	MR53				P25907	1	RS207					7	[3]6K7, 6A8, 6Q7, 43, [3]25Z5	465	7-3,4
	Tone	P25508	57	UC513	6			P25934	6	2N516								
								P25459	13	TC52								
								P25498	15	TN111								
62, 63, 62B, 63B	Vol.	P25570	15	MR55				P22757	3	RS213					8	[3]6K7, 6A8, 6H6, [3]6F6, 5Z3	465	6-3,6
	Tone	P25571	22	MR55	M26			P25757	3/13	RM265								
								P25458	3	RS216								
								P25788	13	TC70								
								P25459	13	TC52								
								P24207	15	TC22								
64	Vol.	P24064	15	MR55				16-8-8-4-4	3/13	See Note	B195				8	78, 6A7, 6B7, 37, [3]42, 5Z3	175	4-16,20
	Tone	P24065	34	MR45	M26													
65, 66, 67	Vol.		8	MR19				16-8-8-8-4-4-4	3/13/15	See Note	B247				9	[3]78, 6A7, 6B7, 85, [3]42, 80	465	7-5,6
	Tone		34	MR45			A90											
68	Vol.	P24346	8	G				16-16-8-8-4-4-4	3/13	See Note	B195				10	[3]6D6, 6A7, 76, 6B7, 85, [3]42, 5Z3	370	5-5,7
	Tone	P22593	22	MR51	M26													
69 All Wave Selector								24567	1	RM262					4	6D6, 6A7, 76, 84	545	5-11,14
70, 70B, 72, 72B, 72D	Vol.	P24848	‡	Order from	Mfr.			P24835	‡	See Note	B195				13	[4]6D6, 76, 6A7, 6B7, [3]6C6, 42, [2]2A3, 5Z3	370	6-7,13
	Tone	P24957	22	MR55	M26													
74, 74B, 74D	Vol.		‡	Order from	Mfr.			P24835	‡	See Note	B195				16	[4]6D6, 6A7, 76, 6B7, [3]6C6, 42, [2]2A3, [3]5Z3	370	6-7,13
	Tone		22	MR55	M26													

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STROMBERG-CARLSON—Continued																		
80	Vol.	P25570	15	MR55				8	3	RS213					8	[2]6K7, 6A8, 6J7, 6H6, [2]6F6, 5Z3	465	7-7,9
	Tone	P25571	22	MR55	M26			16	3	RS216								
								8-4-4	3/13	RM265								
82, 82B	Vol.	P22767	20	TM244-SS1				P22757	3	RS213					10	[2]6D6, 6A7, [2]76, [2]42, 5Z3	465	6-15,18
	Tone	P22769	22	MR55	M26			P22789	3	RS213								
								P22758	3	RS216								
								P22759	13	RM265								
								P22760	14	TC39								
								P24207	15	TC22								
83, 83B	Vol.	P22767	20	TM244-SS1				P22757	3	RS213					10	[2]6K7, 6A8, 6C5, 6H6, [2]6F6, 5Z3	465	6-19,22
	Tone	P22769	22	MR55	M26			P22789	3	RS213								
								P22758	3	RS216								
								P22759	13	RM265								
								P22760	14	TC39								
								P24207	15	TC22								
84, 84B	Vol.	P22767	20	TM244-SS1				P22757	3	RS213					12	[2]6K7, 6A8, 6C5, 6H6, 6J7, [2]6F6, 5Z3	465	7-11,13
	Tone	P25807	22	MR55	M26			P22789	3	RS213								
								P22758	3	RS216								
								P22759	13	RM265								
								P22760	14	TC39								
								P24207	15	TC22								
115	Vol.	P25507	17	MR53				P26049	1	RM262		P26028	245	C3	7	[2]34, 1C6, 1B5, 30, [2]49	465	7-14,15
	Tone	P26033	57	MR48	M26			P25480	13	RS213								
								.005		Buffer	B14							
125 (AC-DC)	Vol.	P26114	18	MR53				26162	6	RS207					5	6A8, 6K7, 6Q7, 43, 25Z5	465	7-16,18
								26163	6	FP115								
								26164	13/15	3S582								
126 (AC-DC)	Vol.	P26114	124	MR53				26163	1	FP115					7	[2]6K7, 6A8, 6Q7, [2]43, 25Z5	465	8-1,3
	Sen.	P26095	‡	‡	‡		See Note A5	26164	13/15	2N516/TC26								
								26872	13	2N516								
127 (AC-DC)	Vol.	P26114	124	MR53				27014	3	FP115					8	[2]6K7, 6A8, 6Q7, [2]48, [2]25Z5	465	8-4,6
	Sen.	P26095	‡	‡	‡		See Note A5	26162	3	RS207								
								26164	13/15	2N516/TC26								
130 Series	Vol.	P26114	15	MR48				26403	1	RS223					7	[2]6K7, 6A8, 6H6, 6F6, 6F5, 80	465	7-19,22
	Sen.		‡	MR18				25458	1	RS216								
								24207	15	TC22								
140 Series	Vol.		17	MR48				22757	3	RS213					9	[2]6K7, 6A8, 6Q7, 6E5, [2]6F6, 5Z3	465	8-15,17
	Sen.		‡	MR18				22789	3	RS213								
								25458	3	RS216								
								26048	15	TN111								
								25788	13	TC70								
145 Series	Vol.	P26077	17	MRT440				22757	3	RS213					10	[2]6K7, 6J7, 6A8, 6Q7, 6E5, [2]6L6, 5Z3	465	7-23,26
	Tone		39	‡		See Note A5		22789	3	RS213								
								25458	3	RS216								
								*26693	13	TC71								
								25788	13	TC70								
								24207	19	TC22								
								26048	15	TN111								
150	Vol.	P26077	20	MRT440				22757	3	HD684					12	[2]6K7, 6J7, 6A8, [2]6H6, [2]6L6, 6E5, 5Z3	465	8-7,10 9-2,5
	Fid.	P26439	‡	Order from	Mfr.			26773	3	RS216								
								24580	13	TC70								
								26693	13	TC70								
								24207	15	TC22								
								25498	15	TN111								
160	Vol.	P26077	20	MRT440				22757	3	RS213					14	[2]6K7, [2]6J7, 6A8, [2]6H6, 6E5, 6F6, [2]6L6, 5Z3	465	8-10,14
	Tone	P26485	21	Order from	Mfr.			26510	3	RS216	B12							
								26773	3	RS216								
								24580	13	TC70								
								26693	13	TC70								
								26772	15	TC22								
								25498	15	TN111								
								25788	13	TC70								
180	Vol.	P26077	17	MRT440				22757	3	RS213					17	[2]6K7, [2]6J7, 6A8, [2]6H6, 6E5, [2]6F6, [2]6L6, 5Z3	465	8-18,21 9-7,9
	T.Tone	P26485	21	MR55				26510	3	RS216	B12							
	B.Tone	P26798	15	MR53				26773	3	RS216								
								22759	13	RM265								
								26693	13	TC70								
								26797	15/19	TN111/TC36								
								25788	13	TC70								
225 (AC-DC)	Vol.	P26114	18	MR53				27014	6	FP115					5	6A8, 6K7, 6Q7, 25A6G, 25Z6G	465	8-22,24
	Tone	P27311	57	MR53	M26			26162	6	RS207								
								26164	13/15	2N516/TC26								
228	Vol.	P27610	17	MRT443				27552	1	RM262					6	6A8, 6K7, 6Q7, 6G5, 6F6G, 5Y4G	465	8-25,26
	Tone	P27637	‡	MR50	M26			27553	13	RS216								
								27554	13	TC55								
								27619	15	TN111								
229P	Vol.	P27610	20	MRT443				26403	1	RS223					7	[2]6K7, 6A8, 6H6, 6F5, 6F6, 80	465	8-27,30
	Tone	P27311	‡	MR50	M26			25458	1	RS216								
	Sen.	P26095	‡	‡	‡		See Note A5	26880	13	RS216								
								27554	13	TC55								
								24207	15	TC22								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STROMBERG-CARLSON—Continued																		
230 Series	Vol.	P27610	20	MRT443				27122	1	RS223					7	6A8, 6K7, 6H6, 6G5,		
	Tone	P27311	‡	MR53	M26			27123	1	RS216						6F5, 6F6, 5Y4G	465	8-31,36
								27124	13/15	TC70/TC22								
								27595	13	RS216								
								27685	15	TC22								
231 Series	Vol.		20	1 Meg. No. 1		See Note A19		27399	1/15	RM265/TC22					7	6A8, 6K7, 6H6, 6G5,		
	Tone		‡	Y1000MP	6			27611	1	RS216						6F5, 6F6, 5Y4G	465	8-34
								27398	13	RM265								
								27685	15	TC22								
235H, HB, L, LB	Vol.	P27610	20	MRT443				27122	1	RS223					8	6A8, 6J5, 6K7, 6H6,		
	Tone	P27311	22	MR53	M26			27123	1	RS216						6B8, 6F6, 6U5,		
								27595	14	RS216						5Y4G	465	9-13,16
								27124	14/15	TC70/TC22								
								27685	15	TC22								
								25459	13	TC70								
240	Vol.	P27569	20	DTM289-SS1				27622	30	RS216					11	[2]6K7, 6A8, 6H6, [2]6C5,		
								27336	30	RS216						6G5, 6F5, [2]6F6,		
								27537	30/13	RM265						5U4G	465	9-19,24
								27123	13	RS216								
								25498	15	TN111								
245L, LB, M, MB, R, RB, P, PB	Vol.	P27569	20	DTM289-SS1				27622	3	RS216					11	6K7, 6A8, 6J5, 6B8,		
								27336	3	RS216						6H6, 6F5, 6C5,		
								27537	3/13	3S584						[2]6F6, 6U5, 5U4G	465	9-26,30
								27123	14	RS216								
								25498	15	TN111								
250	Vol.	P27569	20	DTM289-SS1				27753	30	RS213					13	[2]6K7, 6A8, [2]6J7, 6B8,		
								27754	30	RS216						6G5, 6H6, 6F5,		
								27755	30	RS216						6C5, [2]6L6, 5U4G	465	8-37,40
								27756	13	RS216								
								27757	13	2N516								
								25498	15	TN111								
								27759	15	TC22								
255	Vol.	P27569	20	DTM289-SS1				27753	30	HD684					13	[2]6K7, 6A8, [2]6J7, 6B8,		
								27754	30	RS216						6H6, 6F5, 6C5,		
								27755	30	RS216						[2]6L6, 6G5, 5U4G	465	
								27757	24	2N516								
								27756	13	RS216								
								25498	15	TN111								
								27759	15	TC22								
260	Vol.	P28389	124	TRP621				28256	30	HD684					16	[2]6K7, 6A8, [2]6J7, [2]6H6,		
	Tone	P27897	22	‡		See Note A5		28257	30	RS216						6G5, 6Q7, 6C5,		
								28258	30	RS216						[2]6L6, 5U4G	465	9-31,38
								28259	13	RS216								
								28260	13/15/19	3S579/TC32								
320	Vol.	26114	15	MR53				28654	1	RS216	B130				5	6A8, 6K7, 6Q7, 6V6G,		
								28655	1	RS216	B130					80	455	10-9
								28656	13	RS216	B130							
								27685	15	TC26								
325	Vol.		15	MR53	M26			16	1	RS216					5	6A8, 6K7, 6Q7G,		
								16	1	RS216						6V6G, 80	455	10-13
								16	13	RS216								
								12	15	TC26								
335	Vol.		45	‡			A19	16, 16	1	RS216					7	6A8, 6K7, 6H6, 6F5,		
	Tone		‡	MR53	M26			16	13	RS216						6F6G, 6U5, 80	455	10-17
								12	15	TC26								
337	Vol.	P29518	124	MR53				28730	25	RS216					7	6K8, 6K7, 6H6, 6F5,		
	Tone	P27311	‡	MR53	M26			28731	25	RS216						6F6G, 6U5, 80	455	
340	Vol.	P27610	124	MRT443				28914	1	RS223					9	6A8, 6K7, 6H6, 6F5,		
	Tone	P27311	‡	MR53	M26			28915	1	RS216						6C5, [2]6V6G, 6U5,		
								28916	13	RS216						80	455	
								28917	13/15	TC70/TC72								
341	Vol.	P27610	124	MRT443				29002	1	RS223					9	6A8, 6K7, 6H6, 6F5,		
	Tone	P27311	‡	MR53	M26			29003	1	RS216						6C5, [2]6V6G, 6U5,		
								28917	13/15	TC70/TC22						80	455	
345	Vol.	P27610	124	MRT443				28914	1	RS223					10	6K8, [2]6K7, 6H6, 6F5,		
	Tone	P27311	57	MR53	M26			28915	1	RS216						6C5, [2]6V6G, 6U5,		
								29009	13	RS216						80	455	
350	Vol.	27569	124	DTM289-SS1				27622	30	RS216					11	[2]6K7, 6A8, 6F8G,		
								27336	30	RS216						6H6, 6B8, 6C5,		
								29543	30/13	3S584/TC70	B8					[2]6F6, 6U5, 5Z3	455	
								27123	13	RS216								
								27685	15	TC26								
360	Vol.		20	‡		See Note A19		16, 16, 16	30	RS216					12	[2]6K7, 6A8, 6F8G,		
								16	13	RS216						6B8, 6H6, 6R7,		
								4-4-10	13	3S579						6N7, [2]6F6, 6U5, 5Z3	455	10-37
370	Vol.		20	‡		See Note A19		8, 8	30	HS693					14	[3]6K7, 6A8, 6F8G,		
								16	30	RS216						[2]6H6, 6R7, 6F5,		
								16	30	RS216						6C5, [2]6L6, 6U5,		
								16	13	RS216						5Z3	455	10-40
								4-4-8-12-12-12-12	‡	Order from	Mfr.							

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STROMBERG-CARLSON—Continued																		
400	Vol.	30136	18	MR48				30119	1/15	FP339					5	6A8G, 6K7, 6SQ7, 6V6G, 80	455	
402	Vol.	31026	18	MR53	M27			31024	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	11-3,4
405	Vol.	30136	18	MR48				30426	1/15	FP311					5	12SA7,12SK7,12SQ7, 35L6GT, 35Z5GT	455	
410	Vol.	30136	18	MR48				30399	1/13/15	FP429					5	6A8G, 6K7, 6SQ7, 6F6G, 80	455	11-7,8
411	Vol.	29560	18	MRT440				30399	1/13/15	FP429					5	6A8G, 6K7, 6SQ7, 6F6G, 80	455	
412H, 412HB	Vol.		127	MR53				16, 16	25	RS216					6	6A8, 6J5, 6K7, 6B8, 6K6G, 80	455	11-11
420	Vol.	30136	75	MR48				16	13	RS216								
	Vol.	29560	124	MRT440				30399	1/13/15	FP429					7	6A8G, 6K7, 6H6, 6SQ7, 6F6G, 6AF6G, 80	455	
	Tone	27311	‡	MR53	M26													
425	Vol.		127	MR48				40-15-15-20	1/14/15	FP429					8	6SA7, ²6AC7/1852, 6SJ7, 6H6, 6SF5, 6F6G, 80	2100	
	Tone		114	MR53	M26													
430	Vol.	29560	75	MRT440				30499	1/13	FP444	B8				9	6A8, 6K7, 6H6, ²6SQ7, ²6V6G, 80, 6AF6G	455	
	Tone	27311	‡	MR53	M26			27685	15	TC26								
435	Vol.	29560	127	MRT440				30499	1/13	FP444	B8				16	6A8, 6K7, ²6H6, 6SA7, ²6AC7, 6SJ7, 6SK7, ²6SQ7, ²6V6G, 6AF6G, ²80	455/2100	
	Tone	27311	‡	MR53	M26			27685	15	TC26								
								31856	24/14	FP444	B8							
440	Vol.	30249	124	SM308				30499	1/13	FP444	B8				10	6A8, 6J5, 6K7, 6H6, ²6SQ7, ²6V6G, 80, 6AF6G	455	
	Tone	30566	22	MR53				27685	15	TC26								
450	Vol.	30249	124	SM308				30539	‡	Order from	Mfr.				11	³6K7, 6A8, 6J5, 6H6, ²6SQ7, ²6F6G, 5Z3, 6AF6G	455	
								27622	66	RS216								
								27336	66	RS216								
								30232	66/15	TC62/TC36								
								30231	66/13	FP234								
455	Vol.	31534	124	‡			A19	30539	‡	Order from	Mfr.							
	Tone	31535	‡	MR55	M26			31531	3/13	FP444					12	6SK7, 6SA7, ²6AC7, ²6H6, 6SJ7, 6SC7, ²6V6G, 5Z3, 6U5	455/2100	
								27685	15	TC26								
460	Vol.		20	‡			A19	16, 16, 16	30	RS216					12	³6K7, 6A8, 6F8G, 6B8, 6H6, 6R7, 6N7, ²6F6, 6U5, 5Z3	455	10-37
								16	13	RS216								
								4-4-10	13/15	3S579								
470	Vol.		20	‡			A19	8, 8	30	HS693					14	³6K7, 6A8, 6F8G, ²6H6, 6R7, 6F5, ²6C5, ²6L6, 6U5, 5Z3	455	10-40
								16	30	RS216								
								16	30	RS216								
								16	13	RS216								
								4-4-8-12-12-12	‡	Order from	Mfr.							
480	Vol.	30249	20	SM308				31405	37	HS693					20	³6SK7, 6F8G, ²6SA7, 6K7, ²6H6, 6SJ7, 6R7, 6C8G, 6SQ7, ²6L6, 5Z3, 6AF6G	455/3000	
								31495	37	FP389	B8							
								31406	13	RS216								
								31335	13/15	FP444								
								30539	‡	Order from	Mfr.							
500 (AC-DC)	Vol.	31694	18	MR53	M26			31682	46	FP357					6	²12SK7,12SA7,12SQ7, 35L6GT, 35Z5GT	455	
505	Vol.	30136	76	MR48				30399	1/13/15	FP429					9	²6AC7, 6SA7, 6AB7, 6SJ7, 6H6, 6SF5, 6F6G, 80	4300	
	Tone	27311	114	MR53	M26													
509	Vol.	29560	124	MRT440				30399	1/13/15	FP429					5	6A8G, 6K7, 6SQ7, 6F6G, 80	455	
	Tone	30566	‡	MR53				30477	46	FP146	B117							
515	Vol.	29560	124	MRT440				30499	1/13	FP444	B8				17	6A8, 6K7, ²6H6, 6SA7, 6AB7, ²6AC7, 6SJ7, 6SK7, ²6SQ7, ²6V6G, 6AF6G, ²80	455/4300	12-3-6
	Tone	27311	‡	MR53	M26			31856	1/13	FP444	B8							
								27685	15	TC26								
520 Series	Vol.	29560	18	MRT440				32052	1/13/15	FP429					7	³6SK7, 6SA7, 6SQ7, 6V6GT, 6U5, 5Y3G	455	
	Tone	32821	22	MR53	M26													
	Bass	32259	‡	MR53														
530 Series	Vol.	29560	20	MRT440				32238	3/13	Order from	Mfr.				9	³6SK7, 6SA7, 6SR7, 6AC7, ²6V6GT, 5Y3G, 6U5	455	
	Tone	32821	22	MR53	M26			32479	13/15	FP331								
	Bass	32259	‡	MR53				27685	15	TC26								
								32055	15	TC26								
535	Vol.	29560	20	MRT440				32238	3/13	Order from	Mfr.				15	³6SK7, ²6SA7, 6SR7, 6AC7,6U5,²6V6GT, 5U4G,²6AB7, 6SJ7, 6H6, 6SC7	4300/455	
	Tone	32821	22	MR53				32479	13/15	FP331								
	Bass	32259	‡	MR53				27685	15	TC26								
								32055	15	TC26								
555 Series	Vol.	31534	124			See Note A19		31531	3/13	FP444					12	6AB7, 6SA7, ²6AC7, ²6H6, 6U5, 6SC7, 6SJ7, ²6V6G, 5Z3	455	13-3
	Tone	31535	‡	MR55	M26			27685	15	TC26								
585	Vol.	30249	20	SM308				31405	3	HS693					19	³6SK7, 6AB7, 6F8G, ²6SA7, 6K7, ²6H6, 6SJ7, 6R7, 6C8G, ²6L6, 5Z3, 6AF6G	4300/455	
								31495	3	FP389	B8							
								31406	13	RS216								
								31335	13/15	FP444								
600H	Vol.	31694	18	MR53	M26			31682	46	FP357					6	²12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-4,5

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STROMBERG-CARLSON—Continued																		
635 (DC)	Vol.		3	SRP961		Front		4-1	1	See Note	B11				9	‡		
	Vol.		10	SRP901		Rear												
635, 636	Vol.		3	SRP961		Front		3-10	4	See Note	B1				7	71A,[5]27, 80		1-5
	Vol.		10	SRP901		Rear												
638 (AC)	Vol.	P18422	3	SRP961		Front		5-9	4	See Note	B1				8	[2]71A,[5]27, 80		1-6,7
	Vol.	P18421	10	SRP269		Rear												
638 (DC)	Vol.		3	SRP961		Front		4-1	1	See Note	B11				9	[5]01A,[4]71A		1-7
	Vol.		10	SRP269		Rear												
641	Vol.		8	SRP960		Front		2-1-2-1	3	See Note	B1				6	45,[3]24A, 27, 80		1-8, 2-21
	Vol.		3	SRP900		Rear												
642	Vol.		8	SRP960		Front		2-2-2-2	3	See Note	B1				6	45,[3]24A, 27, 80		1-8,9
	Vol.		3	SRP900		Rear												
652, 654	Vol.		8	SRP960		Front		2-1-2-1	3	See Note	B1				6	45,[3]24A, 27, 80		1-8,10
	Vol.		3	SRP900		Rear												
846, 848	Vol.		115	Order from	Mfr.	Front		‡	3	See Note	B1				9	[3]45,[3]27,[3]24A, 80		1-12,13
	Vol.		3	SRP900		Rear												
900 Series	Vol.	31694	18	MR53	M26			31682	46	FP357					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-5,6
920 Series	Vol.	29560	124	MRT440				33894	1/13/15	FP429					7	[2]6SK7, 6SA7, 6SC7, [2]6V6GT, 5Y3G	455	13-7-9,22
925 Series	Vol.	33559	18	MRT440	M26			33526	1/13	Order from	Mfr.				14	6AB7, [2]6AC7, 6SA7, 6SK7, 6SQ7, 6SC7, [2]6SJ7, 6I16, [2]6F6G, 6U5, 5U4G	455	13-10-16
	Treble	33582	22	MR53				34013	13/15	3S584/TC26	B8							
	Bass	33583	‡	MR53														
935 Series	Vol.	33559	15	MRT440	M26			33739	3	TC74					16	[2]6AB7, [2]6AC7, 6SA7, [2]6SJ7, 6I16, [2]6SQ7, [2]6SC7, 6U5, [2]6L6G, 5U4G	455	13-10, 17-22
	Treble	33582	22	MR53				34050	3/13	FP444								
	Bass	33583	‡	MR53				34052	13/15	TC74/TN129								
955	Vol.	33559	15	MRT440	M26			33739	3	TC74					20	[2]6AB7, or 6SG7, [2]6AC7, 6SA7, 6AB7, [2]6SJ7, 6I16, [2]6SQ7GT, [2]6SC7, 6U5, [2]6L6G, [2]5U4G, 5Y3G	AM 455 kc. FM 4.3 mc.	
	Treble	33582	22	MR53				34050	3/13	FP444								
	Bass	33583	‡	MR53				34116	1/17	FP234/TC39								
								34122	1	2S569								
								34052	13/15	TC74/TN129								
955PF	Vol.	33559	15	MRT440	M26			33739	3	TC74					16	[2]6SG7, 7V7, 6SA7, 6AC7, [2]6SJ7, 6U5, 6I16, [2]6SC7, [2]6SQ7GT, [2]6L6G, 5U4G	AM 455 kc. FM 4.3 mc.	13-23-28
	Treble	33582	22	MR53				34050	3/13	FP444								
	Bass	33583	‡	MR53				34116	1/19	FP234/TC39								
								34122	1	2S569								
								34052	13/15	TC74/TN129								
1000 Series	Vol.	31694	18	MR53	M26			34506	4	Order from	Mfr.				6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-29,30
1025 Series	Vol.	33559	18	MRT440	M26			33526	1/13	Order from	Mfr.				14	6AB7, [2]6AC7, 6SA7, 6SK7, 6SQ7, 6SC7, [2]6SJ7, 6I16, [2]6F6G, 6U5, 5U4G	455	
	Treble	33582	22	MR53				34013	13/15	3S584/TC26	B8							
	Bass	33583	‡	MR53														
1035 Series	Vol.	33559	15	MRT440	M26			33739	3	TC74					16	[2]6AB7, [2]6AC7, 6SA7, [2]6SJ7, 6I16, [2]6SQ7, [2]6SC7, 6U5, [2]6L6G, 5U4G	455	
	Treble	33582	22	MR53				34050	3/13	FP444								
	Bass	33583	‡	MR53				34052	13/15	TC74/TN129								
STUDEBAKER LABORATORIES																		
31	Vol.		6	D12				8-8	1	2N518					5	51,[3]24A, 47, 80		§3-8
42	Vol.		6	MR24				8-8	1	2N518					7	[5]51, 27, 24A, 47, 80		
SUNGLOW																		
Melody-Chest	Vol.		40/12	GE				‡	‡	See Note	B1					‡		
SUPERTONE PRODUCTS CO., INC.																		
Superba	Vol.		17	MR48				8-16	4	See Note	B3				7	57,[3]58,2A5,56,2A6,80	465	§5-21
L5	Vol.	P660	18	MR48	M26			P474	32	HD684					7	5Z4, 6F5, 6F6, 6I16, 6K7, 6L7, 6C5	456	
	Tone	P661	34	MR39				P160	32	2N518								
								P304	15	TC22								
L6	Vol.	P660	18	MR48	M26			P474	32	HD684					8	5Z4, 6C5, [2]6F6, 6K7, 6L7, [2]6Q7	456	
	Tone	P661	44	MR39				P160	32	2N518								
								P304	15	TC22								
L7	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, 19,[3]30,[3]34	456	
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
Z4	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 19,[3]30, 32, 34	456	
	Tone	P682	44	MR39				.01-.01		Buffer	B14							
Z5	Vol.	P691	45	Order from	Mfr.			P958	1	2N518		P402	245C	C3	6	1C6, 19,[3]30, 32, 34	456	
	Tone	P962	44	MR39				.01-.01		Buffer	B14							
A31	Vol.		18	MR48				8-4	23	2S567	B33				5	6A7, 6D6, 75, 42, 80	456	§5-20
SYNCHROPHASE (See A. H. Grebe & Co.)																		
L. TATRO PRODUCTS CORP.																		
AK54 (Mayor)	Vol.		17	MR48				10	15	TC22					5	6A7, 78, 75,[3]38	175	5-1
AM54 (Senator)	Tone		44	MR48														
AQ69	Vol.		15	MR48				16	1	TC65			744	C3	6	6D8G, 6S7G, 6T7G, 41, 6E5, 6ZY5G	456	10-6
	Tone		21	‡		See Note A5		8	1	TC62								
								10	15	TC22								
								5	15	TC32								
								.005		Buffer	B14							

‡ Data not substantiated

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
L. TATRO PRODUCTS CORP.—Continued																		
A525, B525	Vol.	10L1	17	MR48				4L-5	15	TC22					5	77, 78, 75, [3]38	456	6-2
	Tone	10L11	22	MR48	M26			4L11	15	TC22								
BQ69	Vol.		15	MR48				16	1	TC65			744	C3	6	6D8G, 6S7G, 6T7G,		
	Tone		21	‡		See Note A5		8	1	TC62						41, 6E5, 6ZY5G	456	10-6
								10	15	TC22								
								5	15	TC32								
								.005		Buffer	B14							
C625, D625	Vol.	10L1	17	MR48	M26			4L3	1	RS213		15L2	F294	C3	6	[2]78, 6A7, 75, 38, 84	177.5	6-4
	Tone	10L11	22	MR48				4L5	15	TC22								
								4L11	15	TC22								
								.005		Buffer	B14							
CQ69, DQ69	Vol.		17	MR48				8	1	TC71			245	C3	7	6A8G, 6S7G, 6T7G,		
	Tone		57	‡		See Note A5		16	1	TC74						6L5G, 6Z7G,		
								5	15	TC22						6ZY5G, 6E5	456	9-1,2
								.005		Buffer	B14							
E83	Vol.		117	E12									Order from Mfr.		8	[4]44, 37, [3]38, 85		
	Tone		41	MR48														
EN64	Vol.		56	MR48				6N-2	1	2N518			246	C3	4	1C6, 1A4, 1B5/25S,		
	Tone		57	MR48	M26			6N-1	19	TC22						1F4	457	7-1
								.005		Buffer	B14							
EQ39	Vol.		15	MR53				16	1	TC65			F294	C3	6	6A7, 78, 75, 41, 84,		
								8	1	TC62						6E5	456	10-1
								10	15	TC22								
								.01-.01		Buffer	B14							
F725	Vol.	10L1	17	MR48	M26			4L3	1	RS213		15L2	F294	C3	7	[2]78, 6A7, 75, [3]41, 84	177.5	6-6
	Tone	10L11	34	MR48				4L4	1	RS216								
								4L14	‡	[2]TC39	B196							
								4L5	15	TC22								
								4L11	15	TC22								
								.005		Buffer	B14							
F913	Vol.		117	E12									Order from Mfr.		8	[4]44, 85, [3]41, 37		4-4
	Tone		41	MR48														
FQ39	Vol.		15	MR53				16	1	TC65			F294	C3	6	6A7, 78, 75, 41, 84,		
								8	1	TC62						6E5	456	10-1
								10	15	TC22								
								.01-.01		Buffer	B14							
H465, I465	Vol.	10L1	17	MR48	M26			4L1	1	RS213			271		4	[2]15, 75, 38	456	6-1
	Tone	10L11	22	MR48				4L5	15	TC22								
								4L11	15	TC22								
HQ39	Vol.		17	MR48				16	1	TC65			Order from Mfr.		8	6A7, 78, 75, 37, [4]42,		
								8	1	TC62						6E5, 84	456	10-2
								10	15	TC22								
								5	15	TC32								
								.02-.02		Buffer	B14							
1N25	Vol.		18	MR48				6N-4	1	2N518			F294	C3	5	6A7, 78, 75, 38, 84	457	7-2
	Tone		57	MR48				6N-5	15	TC22								
								6N-1	15	TC22								
								.02-.02		Buffer	B14							
J665	Vol.	10L1	17	MR48	M26			4L1	1	RS213		15L1	271		6	[2]15, 6A7, 75, 30, 19	177.5	6-5
	Tone	10L11	22	MR48				4L5	15	TC22								
								4L6	19	TC26								
K54	Vol.		17	MR48				10	15	TC22					4	77, 78, 75, 38	175	4-2
K665	Vol.	10L1	17	MR48	M26			4L1	1	RS213		15L1	271		6	[2]15, 6A7, 30, 75, 19	177.5	6-5
	Tone	10L11	22	MR48				4L5	15	TC22								
								4L6	19	TC26								
L54	Vol.		17	MR48				8	1	TC52			Order from Mfr.		4	78, 6A7, 75, 41	177	4-3
	Tone		41	MR48				16	1	TC55								
								20	‡	[2]TC39	B196							
L74 (Lt. Governor)	Vol.		17	MR48				8	1	TC52			F294	C3	7	6A7, [2]78, 75, [3]41, 84	175	5-2
	Tone		41	MR48				16	1	TC55								
								20	‡	[2]TC39	B196							
								10	‡	[2]TC26	B196							
								‡		Buffer	B14							
L525	Vol.	10L3	15	MR53											5	6A7, 78, 12A7, [3]48	456	6-3
	Tone	10L12	22	MR39	M26													
M54	Vol.		17	MR48				10	15	TC22					5	77, 78, 75, [3]38	‡	4-2
M4616	Vol.	10L1	18	MR48				4L1	1	RS213		25L25	Order from Mfr.		4	6A7, 15, 75, 33	456	8-1
	Tone	10L11	57	MR48	M26			.005		Buffer	B14							
N54	Vol.		17	MR48				8	1	TC52			Order from Mfr.		5	6A7, 78, 75, [3]41	177	4-3
	Tone		41	MR48				16	1	TC55								
								20	‡	[2]TC39	B196							
N74 (Governor)	Vol.		17	MR48				8	1	TC52			F294	C3	7	[2]78, 6A7, 75, [3]41, 84	175	5-2
	Tone		41	MR48				16	1	TC55								
								20	‡	[2]TC39	B196							
								10	‡	[2]TC26	B196							
								‡		Buffer	B14							
NH44	Vol.		17	MR48				10	15	TC22					5	77, 78, 75, [3]38	175	4-2
NO65	Vol.		17	MR48	M26			8-8	1	2N518			246	C3	5	[2]6S7G, 6D8G, 6T7G,		
								10	15	TC22						41	175	10-4
								.005		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS: Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	CONDENSERS: Original Part	Circuit	Correct Replacement	*Note	VIBRATORS: Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
L. TATRO PRODUCTS CORP.—Continued																		
O84	Vol.		17	MR48				8	1	TC52			Order from Mfr.		8	§78, 6A7, 75, §41, 37	177	4-3
	Tone		41	MR48				16	1	TC55								
	Supp.		7	MR28		EX800		10	15	TC22								
								20	‡	§TC39	B196							
O94 (President)	Vol.		17	MR48				8	1	TC52			F294	C3	9	§78, 6A7, 37, 75, §41, 84	175	5-3
	Tone		41	MR48				16	1	TC55								
	Supp.		7	MR28		EX800		10	15	TC22								
								20	‡	§TC39	B196							
								‡		Buffer	B14							
O4626	Vol.	10L1	18	MR48				4L1	1/13	RS213			Order from Mfr.		4	6A7, 15, 75, 33	456	7-3
	Tone	10L11	57	MR48	M26			.01		Buffer	B14							
OO65	Vol.		17	MR48	M26			8-8	1	2N518			246	C3	5	§6S7G, 6D8G, 6T7G, 41	175	10-4
								10	15	TC22								
								.005		Buffer	B14							
P54	Vol.		17	MR48				8-8	1	See Note	B3		F294	C3	5	6A7, 75, 78, 38, 84	177.5	5-4
								10	15	TC22								
								10	‡	§TC36	B196							
								‡		Buffer	B14							
P4626	Vol.	10L1	18	MR48				4L1	1/13	RS213			Order from Mfr.		4	6A7, 15, 75, 33	456	7-3
	Tone	10L11	57	MR48	M26			.01		Buffer	B14							
Q5636, R5636, S5636	Vol.	10L5	17	MR53				4L1	1/13	RS213			Order from Mfr.		5	§15, 6A7, 75, 33	456	7-4
	Tone	10L15	57	MR48	M26			4L6	15	TC26								
								‡		Buffer	B14							
SP67	Vol.		15	MR48				16	1	TC65			744	C3	7	6A8G, 6S7G, 6T7G, 6L5G, 6Z7G, 6E5, 6ZY5G	456	10-5
	Tone		57	MR48				8	1	TC62								
								10	15	TC22								
								5	15	TC32								
								.005		Buffer	B14							
T6216	Vol.		17	MR48				4L3	1	RS213			F294	C3	6	§78, 6A7, 75, 38, 84	177.5	8-2
	Tone		22	MR48	M26			4L5	15	TC22								
								4L11	15	TC22								
								4L14	‡	§TC39	B196							
								.005		Buffer	B14							
TP67	Vol.		15	MR48				16	1	TC65			744	C3	7	6A8G, 6S7G, 6T7G, 6L5G, 6Z7G, 6E5, 6ZY5G	456	10-5
	Tone		22	MR48				8	1	TC62								
								10	15	TC22								
								5	15	TC32								
								.005		Buffer	B14							
U5226, V5226	Vol.	10L1	18	MR48				4L3	56	RS213			F294	C3	5	6A7, 78, 75, 38, 84	456	8-2
	Tone	10L11	57	MR48	M26			4L1	13	RS213								
								4L14	‡	§TC39	B196							
								.005		Buffer	B14							
W6236, X6236, Y6236	Vol.	10L5	17	MR53				4L3	1	RS213			F294	C3	6	§78, 6A7, 12A5, 25Y5, 75	456	7-5,6
	Tone	10L15	57	MR48	M26			4L1	13	RS213								
								4L6	15	TC26								
								4L11	15	TC22								
								4L15	‡	§TC39	B196							
								.005		Buffer	B14							
TELETONE																		
5 Tube TRF	Vol.		6	E12	6			4-6	4	RM262	B3				5	§24, 47, 80		
	Tone		22	MR33														
TEMPLE CORP.																		
8-60, 8-80, 8-90	Vol.		4	E12				1-4-2	3	See Note	B1				9	§27, §45, 80		1-1
								.15		See Note	B9							
8-61, 8-81, 8-91	Vol.		6/16	DRP240				2-4-2	3	See Note	B1				9	§45, §27, §24A, 80		1-2
								.15		See Note	B9							
TIFFANY TONE—(See Herbert H. Horn)																		
TOBE DEUTSCHMANN																		
Browning 35	Vol.		45	MR48				8, 8	1	RS213					8	§6K7, 6A8, 6F5, 6C5, 6H6, 6F6, 5Z4	456	
	Sen.		7	G				10	15	TC22								
TOM THUMB—See Automatic Radio																		
TONE MASTER—See Airking																		
TRANSFORMER CORP. OF AMERICA (TCA) (Clarion)																		
TC1, TC2	Vol.	10840	17	MR53				10140	28	RM262					7	§78, 37, 75, 42, 80	262	9-1,2
	Tone	10830	22	MR44	M26			10850	28	RS213								
TC6	Vol.		18	MR48				8-4	23	2S567					5	6A7, 6D6, 75, 42, 80	465	8-1,3
C10	Vol.	6210	‡	MRT460				8	3	RS213	B3				4	§6C6, 6B5, 83V		7-1
	Vol.	6223	‡	MR48			A4	8-8	3	2N518								
C16	Vol.	6210	‡	MRT460				8, 8	1	RS213	B3				6	6C6, 76, 6A6, §6B5, 83V		7-2
	Vol.	6223	‡	MR48			A4	1	13	TC70								
								5	15	TC22								
C17	Vol.	6210	‡	MRT460				8, 8	1	RS213	B3				6	6C6, 76, 6A6, §6B5, 83V		7-2
	Vol.	6223	‡	MR48			A4	1	13	TC70								
								5	15	TC22								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS: Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	CONDENSERS: Original Part	Circuit	Correct Replacement	*Note	VIBRATORS: Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
TRANSFORMER CORP.—Continued																		
TC20, TC21	Vol.		56	MR48	M26			9659	1	2N518					5	58, 2A7, 2A6, 2A5, 80	465	5-7,8
								1108	13	TC70								
C21	Vol.	6210	‡	MRT460				8, 8, 8	‡	RS213	B3				8	§6J7, §6C5, §6L6, 83		7-3
	Tone	6223	57	MR48				20	15	TC36								
								5	15	TC22								
TC22, TC23	Vol.		18	MR48	M26			12, 12	4	RS215					7	§6D6, 6A7, 76, 42, 80	456	9-3
	Tone		22	MR39				5	15	TC22								
C27	Vol.	6210	‡	MRT460				8, 8	2	HD684					8	§2A6, §53, 59, §46, 83		7-3
	Tone	6223	57	MR48				10	15	TC22								
								5	15	TC22								
TC28, TC29	Vol.		18	MR48				24, 24	8	TC47					6	6A8, 6K7, 75, 43, 25Z5, 12Z3	465	8-2,3
	Tone		22	MR39				8	8	TC42								
								5	15	TC22								
TC30	Vol.		6	‡		See Note	A5	12-16	4	TCS44					4	6D6, 6C6, 43, 12Z3		5-6
TC31	Vol.	TPE2090	6	‡		See Note	A5	TPE2290	6	TC44					5	§6C6, 6D6, 43, 12Z3	456	10-1
								TPE2300	6	TC42								
								TPE2270	15	TC22								
								TPE2240	15	TC22								
C33	Vol.	6210	‡	MRT460				8-4	1	2N518					7	§75, 6A6, 76, 6E6, §79		7-4
	Tone	6224	57	MR48				1	13	TC71								
								12	15	TC22								
								5	15	TC22								
TC35A, TC35LW	Vol.		18	MR48	M26			8, 8	4	TC71					5	6A7, 6D6, 75, 42, 80	456	10-2,3
	Tone		34	MR39				12, 12	4	TC74	B20							
TC36	Vol.		18	MR48				20-12-5-5	6	3S582/TN111	B5				6	6A7, §6D6, 75, 43, 25Z5	456	10-4
	Tone		22	MR39														
TC36A, TC36LW	Vol.		45	MR48	M26			20-12	6	2N509					5	6A7, 6D6, 75, 43, 25Z5	456	9-4
	Tone		34	MR39				5	15	TC22								
TC37	Vol.		7	D				20-12-8	8	TN125					8	6A7, §6D6, 85, §43, §25Z5	456	9-5
	Tone		22	MR39				4	13	TC40								
								5	15	TC22								
TC37A, TC37LW	Vol.		18	MR48				25-12	6	2N514					8	§6D6, 6A7, 85, §43, §25Z5	456	10-5
	Tone		44	MR39				20	12	TC47								
TC38	Vol.		18	MR48				12-20	6	2N509					6	6A7, §6D6, 75, 43, 25Z5	456	9-6
	Tone		22	MR39				4	13	TC40								
								10-10	15	TN111								
TC39	Vol.		45	MR48				12, 12	4	ST597					7	§6D6, 6A7, 76, 42, 80	456	8-7,8
	Tone		34	MR39														
TC39A, TC39W	Vol.		45	MR48				12, 12	4	RS215					7	§6D6, 6A7, 76, 42, 80	456	9-7
	Tone		34	MR39														
40	Vol.		8	A5MP	6	1		1-4	25	See Note	B1				5	§51, 24A, 47, 80		1-1,2
TC40	Vol.		6	MR18				4-4	4	TCS71					5	§6D6, 6C6, 42, 80		5-9
								5	19	TC32								
								5	15	TC22								
TC42, TC43, TC44	Vol.		45	MR48	M26			12, 12	1	ST597					10	§6K7, 6A8, 6H6, §6C5, §45, 6E5, 80	456	8-4,5
	Tone		44	MR39				5	15	TC22								
TC50	Vol.		18	UM154	M26		A96	6-6	1	2N518			294	C20	6	§78, 77, 75, 41, 84	175	5-10
								928	15	TC26			296	C20				
								.015		Buffer	B14							
AC51, 53, 55	Vol.		12	MR24	M28			1-1.5-1-1.5	37	See Note	B1				8	§24A, §27, §45, 80		1-3,4
TC52	Vol.		6	MR18	M26			1295	8	3S582					5	§77, 78, 43, 25Z5	115	5-9
	Tone		‡	MR18				928	15	TC26								
TC53A	Vol.		45	MR48	M27			12	3	RS215					10	§6D6, 6A7, §76, §45, 5Z3	456	9-8
	Tone		44	MR39				12	13	TC74								
	Sen.		7	A3MP				5	15	TC22								
AC60 (25-60)	Vol.		12	MR24	M26			1.5-1.5-.5	3	See Note	B1				6	§24A, §45, 80		1-5,6
TC60	Vol.		7	G				TCG1018	6	UR182	B3				6	6A7, §6D6, 75, 43, 25Z5	456	5-11,12
	Tone		22	MR39				TCG1019	13	TC52								
								TCG1020	15	TN111								
AC61 (25-60)	Vol.		6	MR21				1.5-1.5-1	3	See Note	B1				6	§24, §45, 80		1-7,8
TC65	Vol.		18	MR48	M27			25-12	6	2N513					10	§6K7, 6A7, 85, §43, §25Z5	456	8-4,6
	Tone		44	MR39				20	12	TC47								
TC66	Vol.		18	MR48				12-20	6	2N509					6	6A7, §6K7, 75, 43, 25Z5	456	10-6
	Tone		22	MR39				4	13	TC40								
								10-10	15	TN111								
AC70	Vol.		6	MR21				1.5-1.5-1	3	See Note	B1				7	§24, 27, §45, 80		1-7,9
TC75, TC76	Vol.		45	MR48	M26			12, 12	4	TC74					6	6A8, 6K7, 6H6, 6F5, 6F6, 80	456	10-6
	Tone		34	MR39														
AC80, 81	Vol.		8	G				8	25	RS213					7	§51, 24A, 47, 27, 80	175	1-10,12
AC84, 85	Vol.		8	G				2-2-2.5	28	See Note	B1				7	§51, 24, 27, 47, 80	175	2-1,4
	Tone		34	MR21	M26													
88	Vol.		8	G				2-2-2.5	28	See Note	B1				7	§51, 27, 24A, 47, 80	175	
	Tone		34	MR21	M26													
AC90, 90A, 91, 91A, (25-90, 25-91)	Vol.		8	A400P				8, 8	28	RS213					8	§35, §24A, 27, 47, 80	175	1-10,12
	Tone		34	MR21	M26													
92, AC94 (25-94)	Vol.		8	A400P				8, 8	28	RS213					8	27, §51, §24A, 47, 80	175	2-2,6
	Tone		34	MR21	M26													
AC100 Series	Vol.		8	A5MP	6			1-1-1	26	See Note	B1				6	§35, §24A, 47, 80	175	2-7,10
100AR	Vol.		15	MR39				P4767	4	TCS71		P4763	294	C3	5	6A7, 78, 6B7, 89, 6Z4	465	5-1
120-139	Vol.		8	G				2-2-2.5	28	See Note	B1				7	§51, 24A, 47, 27, 80	175	2-11
	Tone		34	MR39	M26													

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
TRANSFORMER CORP.—Continued																		
AC160 (25-160), 160AVC	Vol.		8	A1MP	6			8, 8	28	RS213					10	[3]51,[4]27,[3]47, 80	175	3-1,2
	Tone		44	MR39	M26													
AC220 (25-220)	Vol.		8	A5MP				1-1-1	26	See Note	B1				6	[3]35, 57, 47, 24A, 80	175	3-5,7
	Tone		22	MR39	M26													
AC240	Vol.		15	MR51				2-2-2.5	28	See Note	B1				8	24A,[3]51, 56, 58, 27, 47, 80	490	2-12, 4-1
	Tone		22	MR39	M26													
241	Vol.		15	MR51				2-2-2.5	28	See Note	B1				8	[3]51,[3]56, 27, 47, 80, 57	175	5-2
	Tone		22	MR39	M26													
AC260	Vol.		15	MR51				8	26	See Note	B3				10	[3]51, 57,[3]27, 56,[3]47, 80	175	4-2,3
	Tone		22	MR39	M26													
AC280 (25-280)	Vol.		15	MR51				8	26	See Note	B3				12	[3]51,[3]27, 57, 56,[4]46, 80	175	3-8,9
	Tone		22	MR39	M26													
AC300	Vol.	P4365	6	MRT427				6-8	34	See Note	B3				14	[4]58,[3]56,[3]46, 82	175	4-4
	Tone	P4259	22	MR39	M26													
	Supp.	P4366	20	MR18														
AC320	Vol.		6	MR18				8-4	23	TCS71					5	[3]57, 58, 47, 80	175	4-5
AC340	Vol.		15	MR51				P4514	23	3S584					8	[3]58, 57,[3]56,[3]47, 80	175	4-6
	Tone		22	MR39	M26													
360	Vol.		15	MR51				P4514	23	3S584					10	[3]58, 57,[3]56,[3]46, 82	175	5-3
	Tone		21	MR39	M26													
400 AC-DC	Vol.		7	H				8-8	6	2N518					5	39, 36,[3]38, 25Z5		
								5-5	15	TN111								
AC420	Vol.		17	MR48				2-16-8	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5	‡	3-10
								10	15	TC22								
422, 423, 425	Vol.		98	MR28				P4633	11	TC42					5	6A7, 78, 77, 43, 25Z5	465	4-7,8
								P4717	11	TC44								
								P4632	11	TC42								
440	Vol.		98	MR28				P4709	11	UR182	B31				4	6A7, 77, 43, 25Z5	465	4-9
450	Vol.		56	MR48				P4737	29	3S582/TC52	B72				6	[2]78, 6A7, 85, 43, 25Z5	465	4-10
470, 472	Vol.		17	MR51				P4443	23	TCS71					6	[3]58, 2A6, 47, 56, 80	465	4-11
	Tone		22	MR39	M26			P4724	15	TC22								
480	Vol.	P4260	15	MR51				P4514	34	3S584					10	[3]58,[3]56,[3]59, 5Z3	465	4-12
	Tone	P4259	21	MR39	M26			P4585	15	[2]TC32								
	Sen.	P4923	12	MR24														
490	Vol.		56	MR51				P4961	28	3S584					8	[3]58, 55, 53,[3]56, 80	175	5-4
	Tone		22	MR39														
500	Vol.		15	MR51											7	[3]34, 1A6,[3]30, 19	175	5-5
	Tone		22	MR39														
TRANSITONE—See Philco Radio & Television Corp.																		
TRAV-LER RADIO & TELEVISION CORP.—				Also Trav-ler	Karenola													
AC-SG-DX	Vol.		6	MR18				2-1-1	30	See Note	B1				6	[4]24A, 45, 80		1-2
	Screen		12	A5MP														
B70, B71	Vol.		‡	MR53				40, 40, 40	76	TC48					4	1A7GT, 3A8GT, 1T5GT, 35Z4GT	456	12-1,2
								80	78	TN129	B8							
B712	Vol.		‡	MR53				40, 40, 40	76	TC48					4	1A7GT, 3A8GT, 1T5GT, 35Z4GT	456	12-1,2
								80	78	TN129	B8							
C	Vol.		12	A5MP				2-1-1	3	See Note	B1				6	[4]24A, 45, 80		1-2
FB73	Vol.		‡	MR53				40, 40, 40	76	TC48					4	1A7GT, 3A8GT, 1T5GT, 117Z6GT	456	12-2
								80	78	TN129	B8							
FB82	Vol.	5-65	18	MR53	M27			40-40-40-80	76/78	See Note	B3				5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z6GT		13-5
K	Vol.		6	E12				8-8	1	See Note	B3				5	24,[3]51, 47, 80		1-2
S8	Vol.		8	G				8-8-2	30	See Note	B3				8	[3]51, 24A,[3]27,[3]47, 80	175	3-1
	Tone		41	MR33														
S9	Vol.		100	MR39				4-2	4	See Note	B1				9	[3]35,[3]27,[3]47, 80, 24	175	3-2
	Tone		41	MR48														
SG-AC-Super	Vol.		100	MR39				4-2	4	See Note	B1				9	[3]35,[3]27,[3]47, 24, 80	‡	3-2
	Tone		41	MR48														
SG-DC	Vol.		12	MR35				8-8	3	See Note	B11				7	‡		3-2
SG-DX	Vol.		6	MR18				2-1-1	3	See Note	B1				6	[4]24A, 45, 80		1-2
Trav-Lette	Vol.		6	MR39				4-4	4	TCS71					4	51, 24A, 47, 80		1-2
T501L	Vol.	5-301	18	MK402	M26			7-301	24	2N514					5	14Q7, 14A7, 14B6, 50L6GT, 35Y4	456	14-1,2
T530A-L	Vol.	5-301	18	MK402	M26			7-301	24	2N514					5	14Q7, 14A7, 14B6, 50L6GT, 35Y4	456	14-1,2
T2625	Vol.	5-310	18	MK402	M26			80-10-10	24/15	See Note	B3				6	12SA7GT,[2]12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	456	14-1, 4,6
	Tone	5-311	22	UM124-SS25														
TAC-3726	Vol.	5-312	140			See Note A19		7-307	1/15	2S569/TC22					7	6A8GT, 6K7GT, 6Q7GT, 6J5GT, [5]6V6GT, 5Y3GT	456	14-5,6
	Tone	5-313	140	MK401	M26													
TB-601	Vol.	5-304	18	MK403	M24			7-303	78/24	Order from Mfr.					6	[2]1N5GT, 1A7GT, 1H5GT, 3Q5GT, 50Y6GT	456	14-4
								6-308	78	TC26								
TB-512	Vol.	5-305	18	MK402	M24			7-304	24	TN129					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 50Y6GT	456	14-2,3
								7-305	78	TC45								
								70	24	See Note	B3							

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
TRAV-LER—Continued																		
TK-509, TK-510	Vol.	5-301	18	MK402	M26			80-10-10	24/15	See Note	B3				5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	14-2
5-Tube AC-DC Superhet	Vol.		6	MR21	M26			20-12-5	27/19	UR182					4	6A7, 6C6, 43, 25Z5	456	10-1
5-Tube AC-DC TRF	Vol.		6	MR35	M26			20-12	27	TCS45					4	6D6, 6C6, 43, 25Z5		11-1
								5	19	TC22								
5-Tube Battery Receiver	Vol.		18	MR48				8-8	1	2N516			246	C3	5	1C6, 1A4, 75, 30, 19	456	8-2
								.005		Buffer	B14							
6-Tube Auto	Vol.		17	UM154		See Note	A96	8-8	1	2N518			859	C3	6	‡6D6, 6A7, 75, 41, 84	262	10-3
								10	15	TC22								
								.008		Buffer	B14							
6-Tube Battery or AC	Vol.		45	MR48				12-12	1	2S569			859	C3	6	6K8, 6S7G, 6T7G, 6L5G, 6G6G, 6ZY5G	456	10-4
								10	15	TC22								
								.012-.012		Buffer	B14							
6 Tube TRF	Vol.		6	E12				2-1-1	30	See Note	B1				6	‡26, 24, 45, 80		3-1
	Tone		34	MR33														
	Screen		12	A5MP														
7-Tube AC-DC	Vol.		17	MR48	M26			20-12-5	4/15	UR182					6	6A7, 6D6, 75, 25B6G, 6G5, 25Z5	456	11-1
8-Tube Batt. or AC	Vol.		18	MR48				16, 16	1	RS216			859	C3	8	6T7G, 6K8, ‡6S7G, 6L5G, 6Z7G, 6N5, 6ZY5G	456	10-4
								10	15	TC22								
								.012-.012		Buffer	B14							
8 Super	Vol.		8	G				8-8-2	30	See Note	B3				8	‡51, 24A, ‡27, ‡47, 80	‡	
	Tone		41	MR48														
11-Tube AC Superhet	Vol.		75	MR48	M26			12, 12	1	RS215					11	‡6K7, 6A8, 6H6, 6G5, 6F5, ‡6F6, ‡80	456	10-1
	Tone		41	MR21				20	15	TC36								
41	Vol.		6	MR21		EX200		12-16	27	TCS44					4	6D6, 6C6, 43, 25Z5		6-1
42F Air Chief	Vol.		6	H7	6			16-10	23	TCS44					4	6D6, 6C6, 43, 25Z5		9-2
46R	Vol.		6	MR21		EX200		12-16	27	TCS44					4	6D6, 6C6, 43, 25Z5		6-1
50A	Vol.		6	MR21		EX200		16-12	27	TCS44					4	6D6, 6C6, 43, 25Z5		6-1
51	Vol.		18	MR48				4-8	23	TCS71					5	6A7, 6D6, 75, 42, 80	‡	6-1
53	Vol.		18	MR48				6-10	23	TCS71					5	6A7, 6D6, 75, 42, 80	‡	6-2
54	Vol.		18	UM154	M26		A96	6-10	4	RM262			294	C3	5	6A7, 6D6, 75, 42, 84	456	6-2
								.02		Buffer	B14							
56	Vol.		116	MR33				4	12	TC52					4	‡34, 32, 33, 1E1		6-3
60A	Vol.		18	MR48				8-16-12	11	UR182	B31				5	6A7, 6D6, 75, 43, 25Z5	456	6-3
63A	Vol.		75	MR48				8, 8	23	RS213					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4, or 6A7, 6D6, 75, 42, 80		6-4
64	Vol.		18	UM154	M26		A96	6-10	4	See Note	B3		294	C3	6	6A7, ‡6D6, 75, 42, 84	456	
								.02		Buffer	B14							
76	Vol.		18	MR48				8-8	1	2N516	B3		246	C3	6	34, 1B5, 1E1, 1C6, ‡30	‡	6-4
								.02		Buffer	B14							
112	Vol.		127	MR53	M26			8	46	RS213					12	‡6K7G, 6L7G, ‡6C5G, 6H6G, 6G5, ‡6V6G, ‡5Y3G	465	
								25	46	RS223								
								8-16	46/13	3S584								
115	Vol.		15	MR53	M26			8	46	RS213					15	‡6K7G, 6L7G, ‡6C5G, 6H6G, 6G5, ‡6V6G, ‡5Y3G	465	
								25	46	RS223								
								8-16	46/13	3S584								
								4	13	TC70								
131	Vol.		75	MR48	M26			12	1	RS215					11	‡6K7, 6A8, 6C5, 6H6, 6F5, ‡6F6, ‡80, 6G5	456	9-1
								10	15	TC22								
136	Vol.		18	MR48				7-32	1	2N518					6	6A7, 76, 6D6, 75, 41, 80	456	
								5	15	TC22								
137	Vol.	5-46	18	MR48	M26			30-20	27	TCS47					6	6A7, 6D6, 75, 76, 25L6G, 25Z5	456	
								5	20	TC22								
138	Vol.		18	MR48	M26			8	1	RS213					8	6A7, ‡76, 6D6, 85, ‡6V6G, 80	456	
								12	1	RS215								
								4	13	TC70								
173	Vol.		45	MR48				8-8	1	2N518	B3		246	C3	7	1C6, ‡34, ‡30, 19	456	7-2
								.005		Buffer	B14							
179	Vol.	5-41	18	MR48				7-21	1	2N518			294	C3	7	6D8G, 6S7G, 6T7G, ‡6L5G, 6Z7G, 6ZY5G	456	
								5	15	TC22								
								.01-.01		Buffer	B14							
180	Vol.		18	MR48				8-8	1	2N518			294	C3	8	6D8G, 6S7G, 6T7G, ‡6L5G, 6Z7G, 6ZY5G, 6N5	456	
								5	15	TC22								
								.01-.01		Buffer	B14							
250	Vol.		45	MR48											5	1A6, 1A4, 30, 1B4, 1F4	456	
315	Vol.	5-55	18	MR48	M26			7-64	1	2N514					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	11-5
315SW	Vol.		18	MR48	M26			40-12	1	2N514					5	6K8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	11-5
325	Vol.	5-55	18	MR48	M26			7-53	1	TC48					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	11-5
								7-54	1	TC44								

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
TRAV-LER—Continued																		
337	Vol.		45	MR48				40-12	1	2N514					6	6K8G, 6K7G, 76, 75, 25L6G, 25Z6G	456	12-3
400	Vol.		6	MR29	M26	EX300		40 12 10	1 1 15	TC48 TC44 TC22					4	6K7GT, 6F5GT, 25L6G, 25Z6GT		10-2
415	Vol.		18	MR48	M26			40 12 10	1 1 15	TC48 TC44 TC22					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	10-5
420A, 420S	Vol.		6	MR29	M26	EX400		40-12 10	1 15	2N514 TC22					4	6K7G, 6F5G, 25L6G, 25Z5, L55B		10-7
425	Vol.		18	MR48	M26			8-8	1	2N518					5	6A7, 6D6, 75, 41, 80	456	10-5
426	Vol.		18	MR48	M26			40-12 10	1 15	2N514 TC22					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	10-5
431, 431SW	Vol.		6	H7				20-12	74	2S556					4	6D6, 6C6, [3]25A7		9-2
436M	Vol.		18	MR48				12-12	1	2S569					6	6K8, 6K7, 75, 76, 6AC5G, 80	456	10-7
437M	Vol.		45	MR48				40-12 10	1 15	2N514 TC22					6	6K8, 6K7, [3]76, 25L6G, 25Z5, L42X	456	10-7
440, 445	Vol.	5-42	6	MR33	M26			7-24	4	TCS45					3	6D6, 6C6, 25A7		
442	Vol.		6	MR21		2		16-12	27	TCS44					4	6D6, 6C6, 43, 25Z5		6-1
450, 452	Vol.	5-42	6	MR33	M26			20-20-8 5	‡ 15	See Note TC22	B3				4	6D6, 6C6, 43, 25Z5		
455L	Vol.		18	MR48	M26			40-12 10	1 15	2N514 TC22					5	6A7, 6D6, 75, 25L6G, 25Z5	456	10-7
455L 2nd Type, 455LN	Vol.		15	MR53	M26			40-12	1	2N514					6	6A7, 6D6, 76, 75, 25L6G, 25Z5	456	11-3
465M	Vol.		18	MR48	M26			8-8	1	2N518					5	6K8, 6D6, 75, 41, 80	456	10-9
466M	Vol.		18	MR48	M26			40-12 10	1 15	2N514 TC22					5	6K8, 6D6, 75, 25L6G, 25Z5, L49B	456	10-9
470, 471, 472, 473	Vol.	5-45	6	MR33	M26			20-20-8 5	‡ 15	See Note TC22	B3				4	6D6, 6C6, 43, 25Z5		
500	Vol.	5-44	18	MR48	M26			8-8 10	25 19	TCS71 TC22					5	6A7, 6D6, 75, 41, 1V	456	
501	Vol.		6	MR22				20-12-5	1/15	3N527					4	6D6, 6C6, 43, 25Z5, 55KB		10-10
A502	Vol.		6	MR22	M26			20-12-5	4/13	TCS45/TC42					4	6D6, 6C6, 43, 25Z5, 185R8		10-9
511	Vol.		18	MR48				4-8	23	TCS71					5	6A7, 6D6, 75, 42, 80	‡	6-1
512	Vol.		18	MR48	M26			16-12-8	11	See Note	B3				5	6A8, 6K7, 6B6, 25A6, 25Z6	456	7-1
521	Vol.		6	MR21	M26			16-12	23	TCS44					4	6D6, 6C6, 43, 25Z5, K55B		8-1
522	Vol.		18	MR48	M26			20-12	27	TCS45					5	6A7, 6D6, 75, [3]25A7, K74B	456	8-1
525	Vol.		18	UM154			A96	8-8 .005	1	2N518 Buffer	B14		246	C3	5	1C6, 1A4, 75, 30, 19	456	7-1
526, 527	Vol.		18	MR48				8-8-8 5	‡ 19	3S584 TC22					5	6A7, 6D6, 75, 41, 80	456	
536M	Vol.		18	500M		See Note	A19	16 20 10	1 1 15	RS216 RS216 TC22					7	[3]6K7, 6K8, 6Q7, 6F6G, 6U5, 5Y3G	456	10-11
539M 1st Type	Vol.	5-54	18	MR48	M26			25 20 4	1 1 13	RS223 RS216 RS213					9	[3]6K7, 6K8, 6R7, [3]6V6G, 6U5, 5X4G	456	10-11
539M 2nd Type	Vol.		18	MR48	M26			7-49 7-51 7-66	1 1 13	RS223 RS216 RS216					9	[3]6K7, 6K8G, 6R7G, 6J5G, [3]6V6G, 6U5, 5X4G	456	11-6
542	Vol.		18	UM154		See Note	A96	8-4 .01	4	TCS71 Buffer	B14		294	C3	5	6A7, 6D6, 75, 6B5, 84	456	7-2
552B	Vol.		18	MR48											4	1A7G, 1N5G, 1H5G, 1C5G	456	10-11
553, 553BT, 554, 554BT	Vol.	5-62	18	UM154			A96	10	19	TC22					4	1A7G, 1N5G, 1H5G, 1Q5G	456	11-3
555, 555BT	Vol.	5-65	17	MR53	M27			7-56	12	TC42					5	1A7G, [3]1N5G, 1H5G, 1Q5G	456	
556, 556B, 556BT	Vol.	5-65	17	MR53	M27			7-53 7-67	1 78	TC48 TC2501					5	1A7G, 1N5G, 1H5G, 1T5G, 25Z6G	456	
560	Vol.		18	MR48	M26			8-8 10 .015-.015	1 15	2N518 TC22 Buffer	B14		859	C3	5	6D8G, 6S7G, 6T7G, 6G6G, 6ZY5G	456	10-5
570B	Vol.		18	500M			A19	16, 16 10 .012-.012	1 15	RS216 TC22 Buffer	B14		859	C3	8	[3]6S7G, 6K8, 6T7G, 6L5G, 6Z7G, 6N5, 6ZY5G	456	11-9
576, 576B	Vol.		18	Order from	Mfr.			12-12 10 .012-.012	1 15	2S567 TC22 Buffer	B14		859	C3	6	6K8G, 6S7G, 6T7G, 6G6G, 6ZY5G, 6U5	456	
600	Vol.	5-43	45	MR48				7-30 .005	1	2N518 Buffer	B14	39-4	246	C3	6	1A6, 1A4, 30, 6N5, 1B4, 1F4	456	
620 Early	Vol.	5-62	18	MR48	M26			7-65 .016-.016	1	2S569 Buffer	B14		859	C3	6	6A7, 6D6, 75, 76, 6AC5G, 84	456	11-4,7

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS: Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	CONDENSERS: Original Part	Circuit	Correct Replacement	*Note	VIBRATORS: Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
TRAV-LER—Continued																		
620 Late, 621	Vol.		18	MR48	M26			12-12-10	1/15	TCS64/TC26			859	C3	6	‡6K7GT, 6A8GT, 6Q7GT, 6K6GT, 6X5GT	456	11-7,4
								.005		Buffer	B14							
622, 623	Vol.		18	MR48				16-12-8	11	See Note	B3				5	6A7, 6D6, 75, 43, 25Z5	456	7-3
626, 627	Vol.		18	MR48				30-20	27	TCS47					5	6A7, 6D6, 75, 43, 25Z5	456	
630	Vol.	5-46	18	MR48	M26			5	20	TC22								
								7-32	1	2N518					6	6A7, 76, 6D6, 75, 41, 80	456	
633, 634	Vol.		75	MR48				5	15	TC22								
635M	Vol.		45	MR48	M26			8-8	23	TCS71					6	6A7, 6D6, 76, 75, 42, 80	466	7-3
								12, 12	23	RS215					6	6A8, 6K7, 6H6, 6F5, 6F6, 80	456	8-2
642	Vol.		18	UM154		See Note A96		8-8	4	TCS71	B3		294	C3	6	‡6D6, 6A7, 75, 6B5, 0Z4	456	7-4
645E	Vol.		18	MR48				.01		Buffer	B14							
								16	1	RS216					7	‡6K7, 6K8, 6Q7, 6F6G, 6U5, 5Y3G	456	10-10
								20	1	RS216								
								10	15	TC22								
650	Vol.	5-43	45	MR48				7-30	1	2N518			246	C3	5	1A6, 1A4, 30, 1B4, 1F4	456	
679	Vol.	5-41	18	MR48				.005		Buffer	B14							
								8-8	1	2N518			294	C3	7	6D8G, 6S7G, 6T7G, ‡6L5G, 6Z7G, 6ZY5G	456	
								5	15	TC22								
680	Vol.		18	MR48				.01-.01		Buffer	B14							
								8-8	1	2N518			294	C3	8	6D8G, 6S7G, 6T7G, ‡6L5G, 6Z7G, 6ZY5G, 6N5	456	
								5	15	TC22								
720	Vol.	5-55	45	MR48	M26			.01-.01		Buffer	B14							
								7-64	1	2N514					6	6A7, 6D6, 76, 75, 25L6G, 25Z5	456	
730	Vol.	5-46	18	MR48	M26			30-20	27	TCS47					6	6A7, 6D6, 75, 76, 25L6G, 25Z5	456	
								5	20	TC22								
733	Vol.		45	MR48				8-8	1	2N518	B3		246	C3	7	1C6,‡34,‡30, 19	456	7-2
								.005		Buffer	B14							
801	Vol.	5-69	18	MR48	M26			7-65	1	2S569					7	6A7, ‡6D6, 75, 76, 6AC5G, 80	456	
1555, 1555BT	Vol.	5-65	17	MR53	M27			7-56	12	TC42					5	1A7G, ‡1N5G, 1H5G, 1Q5G	456	
1556, 1556B, 1556BT	Vol.	5-65	17	MR53	M27			7-72	76/78	2N521/ TC2501					5	1A7G, 1N5G, 1H5G, 1T5G, 25Z6G	456	11-9
6300	Vol.	5-46	18	MR48	M26			7-32	1	2N518					6	6A7, 76, 6D6, 75, 41, 80	456	
								5	15	TC22								
TRIANGLE ELECTRIC CO.																		
5M17	Vol.	B16970	6	MR33	M26			B16973	27	RS207					4	6D6, 6C6, 43, 25Z5		
								B17042	27	RS207								
6M27	Vol.	B17010	17	MR53				B17041-3	4	RS224					5	6A8G, 6K7G, 6Q7G, 25B6G, 25Z6G	456	
	Tone	B17047	‡	MR44	M26			B17197	4	RS224								
6P	Vol.	6226	18	UM154-SS11				8-8	1	2N518		9600	249	C3	6	‡6D6, 6L7, 76, 75, 42	465	7-1,2
	Tone	6225	22	MR39				.005		Buffer	B14							
6U107, 6L137, 6C607	Vol.	B16542-2	18	MR48	M26			B16466	4	RS216					6	6A8G, 6K7G, 6Q7G, 6G5, 6K6G, 5Y3	456	
	Tone	B16540-2	34	MR42				B16467-2	4	HD684								
7U117, 7L147, 7C707	Vol.	B16542-2	18	MR48	M26			B16466	4	RS216					7	6L7G, 6C5G, 6K7G, 6Q7G, 6G5, 6F6G, 5Y3	456	
	Tone	B16540-2	34	MR42				B16467-2	4	HD684								
8C807	Vol.	B16542-2	18	MR48	M26			A15236-3	25	RS223					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G,‡6F6G, 5Y3	456	
	Tone	B16540-2	44	MR42				A15237-2	25	RS213								
8U127	Vol.	B16542-2	18	MR48	M26			A15236-3	25	RS223					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G,‡6F6G, 5Y3	456	
	Tone	B16539-2	44	Order from	Mfr.			A15237-2	25	RS213								
10C1007	Vol.	B16553-2	17	MRT448	M26			B16554-3	1	RS223					10	‡6K7G, 6L7G, 6C5G, 6Q7G, 6G5,‡6F6G, 5Z3	456	
	Tone	B16540-2	22	MR42				B15427	1	RS216								
								B16551-4	15	TN111								
TROPIC-AIRE																		
06W	Vol.		56	MR48				8-16	1	3S582			Order from Mfr.		6	‡78, 77, 85,‡41	262	§5-22
	Tone		44	MR42				4	13	TC52								
								4	15	TC22								
TROY RADIO MFG.																		
2A3	Vol.		‡	MR44				8, 8, 8	3	RS213					5	2A6, 53,‡2A3, 5Z3		7-1
								12	17	TC44								
2A5	Vol.		‡	MR44				8, 8, 8	3	RS213					5	56, 53,‡2A5, 80		7-1
								10	15	TC32								
								5	15	TC22								
4	Vol.		6	MR18				4-4	23	TCS71					4	6D6, 6C6, 42, 80		6-1
4 (Revised)	Vol.		6	MR18	M26	EX200		4-4	23	2S567					4	6D6, 76, 41, 80		11-1
4 Tube TRF	Vol.		6	MR21		EX250		4-4	23	TCS71					4	58, 57, 2A5, 80		5-4
5L5, 5U5	Vol.		56	MR48	M26			4-4	23	TCS71					5	6A7, 6D6, 85, 80, 42	465	6-1
14	Vol.		6	MR18				4-4	23	TCS71					4	58, 57, 2A5, 80		6-1
15, 15-5	Vol.		56	MR48	M26			4-4	23	TCS71					5	2A7, 58, 55, 2A5, 80	465	6-1
40	Vol.		6	MR18				4-4	23	TCS71					4	58, 57, 2A5, 80		6-1
42	Vol.		6	MR18		EX300		4-4	23	TCS71					4	6A7, 6F7, 42, 80	465	5-1
	Tone		22	MR39														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
TROY RADIO MFG.—Continued																		
45	Vol.		18	MR48				4-4	23	2S567					5	6A7, 6D6, 75, 41, 80	465	11-1
46	Vol.		17	UM154		See Note A96		4-4	4	TCS71					4	6A7, 6D6, 75, 42	465	5-2
								5-5	15	TN111								
51B5	Vol.		17	MR48											5	1A6, 34, 25S, 30, 19	465	7-3
	Tone		22	MR33														
52	Vol.		17	MR48	M26			4-4	23	TCS71					5	2A5, 2A6, 2A7, 58, 80	465	5-1
	Tone		22	MR33				10	15	TC22								
53	Vol.		17	MR48	M26			4-4	23	TCS71					5	6A8, 6K7, 6Q7, 6F6, 5Y3	465	7-4
	Tone		22	MR33				10	15	TC22								
54	Vol.		17	MR48				8-8	23	TCS71					5	2A5, 2A6, 2A7, 58, 80	465	5-3
	Tone		22	MR33														
55	Vol.		6	MR19				4-4	23	TCS71					5	6A7, 6D6, 76, 41, 80	465	8-1
55 (Revised)	Vol.		18	MR48				4-4	23	2S567					5	6A7, 6D6, 75, 41, 80	465	11-1
	Tone		22	MR33														
56	Vol.		17	UM154		See Note A96		4-4	1	2N518					5	[2]6D6, 6A7, 75, 42	175	5-2
								5-5	15	TN111								
57	Vol.	7374	18	MR48	M26			4-4	23	2S567					5	6A7, 6D6, 75, 41, 80	465	11-1
	Tone	7866	22	MR34														
62BC, 62BU	Vol.		17	MR48											6	[2]34, 1C6, 25S, 30, 19	465	6-2
	Tone		22	MR33														
62C, 62PC, 62L, 62U	Vol.		17	MR48				8-8	23	TCS71					6	[2]6D6, 6A7, 75, 42, 80	465	6-2
	Tone		21	MR33				10	15	TC22								
67	Vol.		18	MR48				4-4	23	TCS71					6	6A7, 6D6, 75, 6G5, 42, 80	465	8-2
67SW	Vol.		18	MR48				4-4	23	TCS71					6	6A7, 6D6, 75, 6G5, 42, 80	465	8-3
68	Vol.		17	UM154			A96	8-8	1	2N518			294	C3	5	6A8, 6K7, 6Q7, 6F6, 84	465	7-2
	Tone		22	MR33				10	15	TC22								
								.01		Buffer	B14							
75 (AC)	Vol.		18	MR48				4-4	23	TCS71					5	6A7, 6D6, 75, 42, 80	465	7-4
75B	Vol.		18	MR48											4	1A6, 1A4, 1B5, 33	465	7-3
	Tone		22	MR33														
77	Vol.		‡	MR48				8-8	23	TCS71					7	[2]6K7, 6A8, 6Q7, 6E5, 6F6, 5Y3	465	7-3
	Tone		22	MR33														
79	Vol.		18	MR48				8-4	23	TCS71					6	6A7, 6D6, 75, 6G5, 42, 80	465	8-3
	Tone		22	MR33														
84	Vol.		17	MR48				8-8	1	2N518					8	2A7, [2]58, 55, 53, [2]45, 80	465	5-3,4
	Tone		22	MR39				10	15	TC22								
84C, 84PC, 84U	Vol.		118	MR48				16-16	4	See Note	B3				8	[2]6D6, 6A7, 85, [2]42, 76, 80	465	6-3
	Tone		22	MR33				4	13	TC70								
								10	15	TC22								
TR86	Vol.		17	UM154		See Note A96		8-8	1	2N518			296	C3	6	[2]6D6, 6A7, 75, 41, 84	465	6-3
	Tone		22	MR33				10-10	15	TN111								
								.01		Buffer	B14							
95	Vol.		15	MR48				8-8	23	TCS71					8	6A8, [2]6K7, 6H6, 6G5, 6F5, 6F6, 5Y3	465	8-2
	Tone		22	MR44				10	15	TC22								
100	Vol.		18	MR48				8-4	23	TCS71					5	6A7, 6D6, 75, 42, 80	465	8-4
113	Vol.		15	250M			A19	8-8	23	2S567					11	6A8, [2]6K7, 6H6, [2]6C5, 6U5, [2]41, 80	465	11-2
	Tone		22	MR33				8	13	TC71								
								10	15	TC22								
151-5	Vol.		17	MR48				16-8-10-10	6/15	3S582/TN111	B98				5	6A7, 6D6, 75, 43, 25Z5	465	6-4
	Tone		22	MR33														
153, 153C	Vol.		17	MR48				4-12-16	8	UR193					5	6A8, 6K7, 6Q7, 25A6, 25Z6	465	7-4
	Tone		22	MR33				10	15	TC22								
162C, 162U	Vol.		17	MR48				16-12	6	2N509					6	[2]6D6, 6A7, 75, 43, 25Z5	465	6-4
	Tone		22	MR33				10-10	15	TN111								
170	Vol.		17	UM154		See Note A96		8, 8, 8, 8	26	RS213	B3				7	6A7, 6D6, 6R7G, [2]6V6G, 6U5, 80	465	9-2
								10	15	TC22								
175	Vol.		18	MR48				16-12-4	8	TN125					5	6A7, 6D6, 75, 43, 25Z5	465	7-2
	Tone		22	MR33				10	15	TC22								
179	Vol.		17	MR53				16-12	6	2N509					6	6A7, 6D6, 75, 6G5, 25L6, 25Z5	465	8-4
	Tone		22	MR33				10	15	TC22								
825	Vol.		18	MR48				4, 4	23	2S567					5	6A7, 6D6, 75, 41, 80	465	9-1
	Tone		22	MR33														
TRUETONE—See Western Auto Supply Co.																		
TRUEVALUE																		
6U	Vol.	P96015	18	UM147-SS3				P81028	1	2N518			253	C3	6	[2]78, 77, 75, 41, 84	262.5	§5-23
	Tone	P97012	22	MR42				P81021	15	TN111								
								.01		Buffer	B14							
TURNER CO.																		
M8	Vol.		15	MR44				8-8	1	2N518					3	57, 2A5, 5Z3		§6-34
	Tone		57	MR44				8	13	TC52								
								25	15	TC26								
M16	Vol.		15	MR44				8-8	1	2N518					5	[2]56, [2]2A5, 80		§6-34
	Tone		57	MR44				8	13	TC52								
								25	15	TC26								
MC16	Vol.		15	MR44				8-8	1	2N518					6	57, [2]56, [2]2A5, 80		5-1
								8	13	TC52								
								25	15	TC26								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
TURNER CO.—Continued																		
5780	Vol.		15	MR44				8-8	1	2N518					3	[3]57, 80		5-2
								8	13	TC52								
								25	15	TC26								
TYRMAN ELECTRIC CORP																		
Imperial 80	Vol.		29	MR37				‡	3	See Note	B3				10	[4]27, [3]22, 50, [3]81		§1-20
ULTRAMAR																		
306	Vol.		18	MR48	M26			20	1	RS207					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z5	465	10-4
								40	1	RS224								
307	Vol.		17	MR53				14	25	RS216					8	[2]6K7G, 6J7G, 6Q7G, 6C5G, 6G5, 6F6G, 5Y3G	465	9-1
	Tone		22	MR48	M26			16	25	RS216								
309	Vol.		18	MR44				40	11	TC48					8	[2]6K7G, 6A8G, 6R7G, 6G5, 25B6G, [2]25Z5	465	9-2
	Tone		22	MR33	M26			30-30	11/13	2N514								
316	Vol.		18	MR48				20	1	RS207					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z5	465	
								40	1	FP115								
317	Vol.		17	MR53				14	25	RS216					8	[2]6K7G, 6J7G, 6Q7G, 6C5G, 6G5, 6F6G, 5Y3G	465	9-1
	Tone		22	MR48	M26			16	25	RS216								
319	Vol.		18	MR44				1563	11	TC48					8	[2]6K7G, 6A8G, 6R7G, 6G5, 25B6G, [2]25Z5	465	9-2
	Tone		22	MR33	M26			9029	11/13	2N514								
325, 335	Vol.		18	MR48	M26			8, 8	25	RS213					5	6A8G, 6K7G, 6Q7G, 6F6G, 80	456	
327	Vol.		127	MR53				9055	1	2N516		9056	246	C3	8	[1]1A4, 1C6, 1B5, 6L5G, 19, 6AB5	465	11-1
	Tone		22	MR48	M27			.005		Buffer	B14							
337	Vol.		127	MR53				9055	1	2N516		9056	246	C3	8	[1]1A4, 1C6, 1B5, 6L5G, 19, 6AB5	465	11-1
	Tone		22	MR48	M27			.005		Buffer	B14							
345, 355	Vol.		17	MR53				9055	1	2N516	B3	9056	246	C3	6	6D8G, 6S7G, 6T7G, 6AB5, 6L5G, 19	465	
	Tone		57	MR48	M27			.005		Buffer	B14							
366, 376	Vol.		17	MR53				8, 8	25	RS213					7	6A8G, 6K7G, 76, 6Q7G, 6E5, 6F6G, 80	465	
	Tone		22	MR48	M26													
456	Vol.		18	MR48				12-12	1	2S569					6	6K8, 6K7, 75, 76, 6AC5G, 80	456	10-1
465	Vol.		18	MR48	M27			8-8	1	2N518					5	6A7, 6D6, 75, 41, 80	456	10-1
477	Vol.		45	MR48				40-12	1	2N514					6	6K8, 6K7, 76, 25L6G, 25Z5, L42C	456	10-1
587	Vol.		18	500M		See Note	A19	10	15	TC22								
								16	1	RS216					7	[2]6K7, 6K8, 6Q7, 6F6G, 6U5, 5Y3G	456	10-3
								20	1	RS216								
801, 802	Vol.	1110	75	‡		See Note	A19	10	15	TC22					8	[2]6K7, 6L7, 6H6, 6C5, 6F5, 6F6, 5Y3	465	8-1
	Tone	1109	57	MR48	M28			8	25	RS213								
	Sen.	1114A	59	A5MP				25	25	RS223								
826	Vol.		18	MR48				10-10	1	2S569					6	6J8G, 6D6, 75, 6V6G, 80, 6U5	465	11-3
	Tone		21	MR48														
856	Vol.		45	MR48				12-12	1	2S569			859	C3	6	6K8, 6S7G, 6L5G, 6T7G, 6G6G, 6ZY5G	456	10-1
								10	15	TC22								
								.012-.012		Buffer	B14							
857	Vol.		18	MR48				30-24	27	TCS47					6	6J8G, 6D6, 75, 25L6G, 6U5, 25Z5	465	11-3,4
	Tone		21	MR48				10	19	TC22								
877	Vol.		18	500M		See Note	A19	16, 16	1	RS216			859	C3	8	[3]6S7G, 6T7G, 6L5G, 6K8, 6Z7G, 6N5, 6ZY5G	456	10-3
								10	15	TC22								
								.012-.012		Buffer	B14							
889	Vol.		18	500M		See Note	A19	25	1	RS223					9	[3]6K7, 6K8, 6R7, [3]6V6G, 6U5, 5X4G	456	10-3
								20	1	RS216								
								4	13	RS213								
UNITED AIR CLEANER—See Sentinel.																		
UNITED AMERICAN BOSCH																		
Model T	Vol.		6	MR18				3-3	25	See Note	B1				5	[3]36, 37, 33		
04	Vol.	VR9515	7	MR28	M26			CE9520	6/15	2N509/TN111	B98				4	6D6, 6C6, 43, 25Z5, 185R8—Ballast		6-8
	Vol.	VR9526	7	MR28	M26													
05	Vol.	VR9514	17	MR48	M26			CE9519	6/15	2N513/TN111					5	6A7, 6D6, 75, 43, 25Z5	465	6-20
4 (Essex)	Vol.		6			See Note	A5	4-8	25	TCS71	B198				4	[2]24, 47, 80		3-5
5A	Vol.	102342	7	G	6			SA102553	25	TCS71	B199				5	[2]51, 24, 47, 80		2-12,13
5 (AC)	Vol.		6	MR18				4-8	25	TCS71	B198				5	[2]24, 47, 80		1-2,3
7, 7C (DC)	Vol.		6	MR18				3-3	25	See Note	B11				5	[3]36, 37, 33		3-4
10 (Essex)	Vol.		15	MR48				8-8-4	30	See Note	B3				10	51, [3]58, [4]27, [2]45, 80	175	3-6
	Tone		22	MR48														
20, 20J, 20K, 20L	Vol.	102347	6	G	6			2-3.5-2	26	See Note	B1				8	[3]51, [2]27, [2]47, 80	175	2-1,2
	Tone		22	‡		See Note	A5											
28 (AC)	Vol.		13	SRP179				2-4	1	See Note	B1				8	[4]26, 27, [2]71, 80		1-5,6
29 (AC)	Vol.		13	SRP179				2-4	1	See Note	B2				8	[4]26, 27, [2]10, 81		1-7
31, 32 (AC)	Vol.		6	MR18	M26			3.5-3.5	25	See Note	B1				6	[3]51, 24, 47, 27, 80	175	2-3,4
								.08		See Note	B9							
36, 36A & B, 37	Vol.		6	MR18	M26			8-4	25	TCS71	B199				6	[3]51, 24, 47, 80, 27	175	3-7,8
								8	14	TC52								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
UNITED AMERICAN BOSCH—Continued																		
38	Vol.		13	SRP179				2-4	1	See Note	B1				8	§26, 27, §71, 80		1-5
40, 41 (AC)	Vol.		15	MR48	M26			8-8-4	56	3S584	B205				8	§51, §27, 47, 80	175	4-1,2
	Tone		22	MR48														
45A, 45C	Vol.		18	MR48	M26			SA106878	1	2N518		SA106450	271		5	§77, 78, 75, 41	175	5-1,5
								SA105741	15	TC22								
46 (AC)	Vol.		14	MR48											7	71A, §26, 27, 80		1-8
48, 49 (AC)	Vol.		40/12	GK		Early	A79	4-2-1	3	See Note	B1				7	§45, 27, §24, 80		1-9,10
	Vol.		40/12	GE		Late	A79											
54 (DC)	Vol.		40/8	CE			A54	4-4	1	See Note	B11				7	§27, §24, §71		1-11,12
56 (Battery)	Vol.		40/12	GK											7	§22, §201A, §112A		1-13,14
58 (AC)	Vol.		8	D				2-2-4	3	See Note	B1				8	§24, 27, §45, 80		1-17
	Tone		41	MR48														
60, 60D, 60E, 61	Vol.		15	MR48				2-2-4-2	3	See Note	B1				9	§24, 27, §45, 80		1-16
	Tone		41	MR48														
62 (DC)	Vol.		8	D				4-4	1	See Note	B11				7	§24, 27, §45		1-18,19
	Tone		41	MR48														
63 (DC)	Vol.		15	MR48				4-4	1	See Note	B11				8	§24, 27, §45		1-20,21
	Tone		41	MR48														
66 (AC)	Vol.		14	MR48											6	§26, 27, 71		1-15
73, 74	Vol.		6	MR18	M26			2-2-4	26	See Note	B1				7	§24, 27, §45, 80		1-22,23
	Tone		144	MR33														
79C	Vol.	106514	18	MR48	M26			SA106536	4	TCS71			253	C3	6	§77, 78, 75, 42, 84	175	5-6,10
	Tone	106715	22	MR48				.008		Buffer	B14							
80, 84	Vol.		7	A20MP											5	§24, 12A		1-24,25
91, 92	Vol.		15	MR48	M26			16	25	TC74	B39				7	§51, §24, 47, 27, 80	175	2-6,7
	Tone		22	MR48				4	25	TC71	B39							
								8	14	TC52								
96 (AC)	Vol.		14	MR48											7	§26, 27, 71, 80		1-15
96 (DC)	Vol.		14	MR48											7	§26		1-8
100 (Adv. 9-20 Auto)	Vol.		‡	‡		See Note	A5	4-6	24	2N516					7	§36, 37, §38	175	2-8,9
107 (AC)	Vol.		14	MR48											7	§26, 27, 71		1-15
113	Vol.		15	MR48											7	§39, 85, 89, §52		
	Sen.		7	MR28														
113X	Vol.		18	MR48											7	§39, 75, 89, §52		
114	Vol.		15	MR48											7	§39, 85, 89, §52		
	Sen.		7	MR28														
116 (AC)	Vol.		14	MR48											6	§26, 27, 71		1-15
119 (Police Motorcycle Radio)	Vol.		18	UM154		See Note	A96	4-4	1	See Note	B3				5	§78, 6A7, 75, 41	456	5-11,13
								5	15	TC22								
123	Vol.		15	MR48											7	§39, 85, 89, §52		
	Sen.		7	MR28														
123X	Vol.		18	MR48											7	§39, 75, 89, §52		
126 (AC)	Vol.		14	MR48											6	71, §26, 27		1-8
129 (Police Motorcycle Radio)	Vol.		18	UM154		See Note	A96	4-4	1	See Note	B3				5	§78, 6A7, 75, 41	456	5-11,13
								5	15	TC22								
133, 135	Vol.		6	MR18	M26			2-2-4	26	See Note	B1				7	§24, 27, §45, 80		1-22,23
	Tone		‡	MR33														
136 (AC)	Vol.		14	MR48											6	§26, 27, 71		1-15
139 (Types H, L, HT, LT, HC, LC, HTC, LTC)	Vol.	VR951	18	UM154-SS23	M26			CE9510	1	2N516					5	78, 6A7, 75, 41, 77	456	5-14,20
								SA105910	15	TN111								
139 (Types V, VC, VT, VTC)	Vol.	VR951	18	UM154-SS23	M26			CE951	4	TCS71			253Y	C3	6	78, 6A7, 75, 41, 84, 77	456	5-14,20
								SA-105910	15	TN111								
								.008		Buffer	B14							
140A	Vol.		18	‡		See Note	A5	8-8	1	See Note	B3	SA105499	271		5	§78, 6A7, 75, 41	456	4-3
								10	15	TC22								
146	Vol.		14	MR48											6	71, 27, §26		1-8
149 (Types H, L, HT, LT, HC, LC, HTC, LTC)	Vol.	VR951	18	UM154-SS23	M26			CE9510	1	2N518					5	§78, 6A7, 75, 41	456	5-14,20
								SA105910	15	TN111								
149 (Types V, VC, VT, VTC)	Vol.	VR951	18	UM154-SS23	M26			CE951	4	TCS71		VI951	253Y	C3	6	78, 6A7, 75, 41, 77, 84	456	5-14,20
								SA105910	15	TN111								
								.008		Buffer	B14							
150 (Type 1)	Vol.		18	MR48				SA105456	1	2N518		SA104601	Order from Mfr.		6	§36, 39, 85, §41	175	4-4
								SA104614	1	TC52								
150 (Type 2)	Vol.		18	MR48				SA105456	1	2N518		SA105499	271		6	§77, 78, 85, §41	175	4-5
156 (DC)	Vol.		14	MR48											7	§26		1-8
160	Vol.		18	UM154		See Note	A96	8-8	1	2N518		SA105499	271		6	§77, 78, 85, §41	175	4-6
166, 176 (AC)	Vol.		14	MR48											6	71, 27, §26		1-8
169 (H, L, HT, LT, HC, LC, HTC, LTC)	Vol.	VR951	18	UM154-SS23	M26			CE9510	1	2N518					5	77, 78, 6A7, 75, 41	456	
								SA105910	15	TN111								
169 (V, VC, VT, VTC)	Vol.	VR951	18	UM154-SS23	M26			CE951	4	TCS71		VI951	253Y	C3	6	77, 78, 6A7, 75, 41, 84	456	5-15,19
								SA105910	15	TN111								
								.008		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
UNITED AMERICAN BOSCH—Continued																		
178	Vol.	SA106514	18	MR48	M26			SA106536	4	2S567		SA106561	296	C3	6	[2]77, 78, 75, 42, 84	‡	
	Tone	SA106715	22	MR48				.02		Buffer	B14							
179	Vol.	SA106514	18	MR48	M26			SA106536	4	2S567		SA106562	253	C3	6	[2]77, 78, 75, 42, 84	‡	
								.008		Buffer	B14							
200, 201 (AC)	Vol.	SA103706	7	G	6			SA101881	25	TCS71	B199				5	[2]51, 24, 47, 80		3-9,10
205, 205A, 206 (5A)	Vol.	SA102342	7	G	6			SA102553	25	TCS71	B199				5	[2]51, 24, 47, 80		2-12,13
224	Vol.	SA102552	6	G7	6			3-3	25	See Note	B11				8	[4]39, 71A, [2]52, 37	175	2-14
	Tone	SA102959	21	MR48				.01		See Note	B9							
226	Vol.		16	MR48											8	[2]32, [2]34, [2]30, [2]49	175	2-15
	Tone		114	‡		See Note	A5											
236, 237 (AC)	Vol.		6	MR18				8-4	25	TCS71	B199				6	[2]51, 57, 47, 27, 80	175	3-11
								8	14	TC71								
239AA	Vol.	SA102552	6	MR18				8-4	25	TCS71	B199				6	[2]51, 24, 27, 47, 80	175	3-11
	Tone		22	MR48				8	14	TC52								
239 AC	Vol.		6	MR18				8-4	25	TCS71	B199				6	[2]51, 57, 47, 27, 80	175	3-11
								8	14	TC71								
242, 243 (AC)	Vol.	SA103017	15	MR48	M26			SA103595	30/14	3S584/TC71	B200				8	[2]56, [2]58, 47, 80	175	3-12
	Tone	SA102959	22	MR48														
250, 251	Vol.	SA100194	15	MR48	M26			SA103950	3/13	3S584/TC71	B201				10	[4]58, [2]56, [2]45, 80	175	4-7
	Tone	SA100727	120	MR39				SA103740	1	2N518	B12							
260, 261	Vol.	SA103539	20	500M No. 1		See Note	A19	SA103950	3/13	3S584/TC71	B201				10	[4]58, [2]56, [2]45, 80	517.5	4-8, 5-21
	Tone	SA103548	120	MR39														
305A	Vol.	SA102552	6	G7	6			SA102768	25	TCS71	B199				5	[2]57, 58, 47, 80	456	3-13,14
305 Ed. 2	Vol.	SA104897	18	MR48	M26			SA105237	25/19	TCS71/TC26	B202				5	57, 58, 2A6, 47, 80	456	7-3,4
306	Vol.	VR9510	15	MR53				CE9516	59	HD684					10	[2]6K7, 6A8, 6C5, 6H6,		
								CE9517	59	RS216						6F5, [2]6F6, 5Z3	465	8-1,4
								SA107913	15	TN111								
307	Vol.	SA104437	18	MR48	M26			SA105165	25/19	TCS71/TC26	B202				7	57, [2]58, 55, 24, 80	175	5-23, 7-7
	Tone	SA104443	22	MR48														
310, 310A	Vol.	SA104437	15	MR48	M26			SA104422	30	3S584	B206				10	[4]58, [2]27, [2]45, 56, 80	175	5-25,26
	Tone	SA104443	22	MR48				SA103037	15	TC52								
	Sil.	SA105054	‡	10MP														
312, 313 (AC)	Vol.	SA103549	118	MR39	M26			SA103740	57	3S584	B203				12	[4]58, 57, [2]56, [2]46, 82	175	3-1, 2-16
	Tone	SA103548	122	MR39				SA103595	57	3S584	B204							
								SA103037	16	TC52								
350, 352	Vol.	SA105563	18	MR48				SA106340	25/19	TCS71/TC26	B202				5	2A7, 58, 2A6, 2A5, 80	175	4-9
	Tone	SA105560	22	MR48	M26													
355, 357	Vol.	SA105563	18	MR48				SA105700	8/15	TN125/TC22					5	6A7, 78, 75, 43, 25Z5	175	4-10
	Tone	SA105560	22	MR48	M26													
360, 361, 364	Vol.	SA105562	18	MR48				CE954	25/19	RM262/TC26	B213				7	2A5, 2A6, [2]58, 56, 80	456	7-5,6
	Tone	SA105561	22	MR48	M26													
370, 371	Vol.	SA105562	‡	MR48				SA105817	3	RM262					7	2A7, [2]58, 2B7, [2]53, 83	265	4-12, 5-31
	Tone	SA105561	22	MR48	M26			SA105818	3/13/15	3S584/TC26	B208							
376, 376BT, 376F, 376S	Vol.	SA106829	4/9	GG				SA107029	12/13	2N516	B209				5	1A6, [2]34, 33, 32	456	5-33, 6-1,2
	Tone	SA106823	121	MR48														
385	Vol.	SA106829	4/9	GG				CE959	12/13	2N516	B209				5	1A6, [2]34, 33, 32	463	6-3,4
386	Vol.	VR954	45	MR48				CE959	12/13	2N516	B209				6	1C6, [2]34, 30, 32, 33	463	6-5,7
402 Ed. 1, 2	Vol.	SA105308	18	MR48	M26			SA105722	8/15	UR182/TC22	B210				5	6F7, 78, 75, 43, 25Z5	456	6-9,10
402 Ed. 3	Vol.		18	MR48	M26			CE957	8	UR182	B210				5	6F7, 78, 75, 43, 25Z5	456	6-9,10
								CE958	15	TC22	B210							
405	Vol.	SA104897	18	MR48	M26			SA105237	25/19	TCS71/TC26	B202				5	57, 58, 2A6, 47, 80	456	7-3,4
420, 421	Vol.	SA107253	18	MR48				SA107288	1/15	RM265					5	6F7, 6D6, 75, 42, 80	456	5-35, 6-11
	Tone	SA107251	121	MR44	M26													
430, 430J, 430T, 431, 431J, 431T, 434, 434J, 434T	Vol.	SA107951	18	MR48	M26			SA107239	1	HD684					5	6A7, 6D6, 75, 42, 80-83V	450	6-13,14
								SA107288	1/13/15	RM265								
440C, 440T, 441C, 441T, 444C, 444T	Vol.	SA105562	18	MR48				SA106665	25/19	RM262/TC26	B213				6	6A7, [2]6D6, 75, 42, 80	456	6-15,16
	Tone	SA107250	121	MR44	M26			SA107239	13	HD684								
450L, 450H, 451L, 451H	Vol.	SA107951	18	MR48	M26			SA107239	1	HD684					6	6A7, [2]6D6, 75, 42, 80	450	6-17,19
								SA107288	1/13/15	RM265								
454L, 454H	Vol.	SA107951	18	MR48	M26			SA107239	1	HD684					6	6A7, [2]6D6, 75, 42, 83V	450	6-17,19
								SA107288	1/13/15	RM265								
460, 460A-B-R, 461A-B-R (Ed. 1 and 2), 464A-B-R	Vol.	SA105562	18	MR48				SA106665	25/19	RM262/TC26	B213				7	[2]58, 2A6, 2A5, 56, 80	456	5-36, 6-21
	Tone	SA105561	121	MR44	M26													
462A, 462Y	Vol.	SA105562	18	MR48											7	[2]78, 76, 85, [2]48	456	7-8,10
	Tone	SA105561	22	MR48	M26													
470G-U, 471G-U, 474G-U	Vol.	VR954	18	MR48				CE954	25/19	RM262/TC26	B213				7	[2]58, 2A6, 2A5, 56, 80, (83V)	456	6-27
	Tone	VR955	121	MR44	M26													
480 (Ed. 3)	Vol.	SA107585	18	MR48				SA107510	59	RM265					10	[2]78, 77, 6B7, 42, [2]6A6,		
	Tone	SA107584	121	MR44	M26			SA107516	15	TC22						76, 83V	456	6-25,28
480 (Ed. 1 and 2), 481, 484	Vol.	SA107585	18	MR48				CE955	59	RM262					10	[2]78, 77, 42, [2]6A6, 76,		
	Tone	SA107584	121	MR44	M26			SA107510	59/13	RM265						83V, 6B7	456	6-25,28
	Supp.	VR953	7	G				SA107516	15	TC22								
500	Vol.	SA105308	18	MR48	M26			SA105309	11/15	UR182/TC22	B214				5	[2]78, 75, 43, 25Z5	456	5-37,38

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
UNITED AMERICAN BOSCH—Continued																		
501, 502 (AC-DC)	Vol.	SA105308	18	MR48	M26			SA105722	8/15	UR182/TC22	B210				5	6F7, 78, 75, 43, 25Z5	456	5-39,40
503	Vol.	SA105308	18	MR48	M26			SA106487	25/19	TCS71/TC26					5	6F7, 78, 75, 43, 12Z3		5-43,44
505, 510, 510E	Vol.	VR957	18	MR48	M26			CE9512	25	RS215					5	6F7, 6D6, 75, 42, 80	465	6-29,32
								CE9511	25	RS213								
								CE958	19	TC22								
515	Vol.	VR957	18	MR48	M26			CE9512	1	RS215					5	6F7, 6D6, 75, 42, 80	465	8-5
								CE9511	1	RS213								
								CE958	19	TC22								
524A (Ed. 1, 2, 2D, 2G)	Vol.	VR951	18	UM154-SS23	M26			CE951	4	TCS71		VI951	253Y	C3	5	6A7, 78, 75, 42, 84	456	6-33,34
								.008		Buffer	B14							
536	Vol.	VR951	18	UM154-SS23	M26			CE951	4	TCS71		VI951	253Y	C3	5	6A7, 78, 75, 42, 84	456	7-11,12
								.008		Buffer	B14							
565W, 565K	Vol.	VR9516	18	MR48	M26			CE9512	1	RS215					6	6L7, 6K7, 75, 6F6, 6C5, 80	465	7-13,14
								CE9511	1	RS213								
								CE958	19	TC22								
575F, 575Q	Vol.	VR959	75	MR48				CE954	25/19	RM262/TC26	B213				7	[3]6K7, 6H6, 6F5, 6F6, 6A8, 80	465	7-15,18
	Tone	VR9512	121	MR48	M26			CE9511	14	RS213								
585, 585Y, 585Z, 586	Vol.	VR959	18	MR48				CE954	25/19	RM262/TC26	B213				8	[3]6K7, 6H6, 6F5, 6F6, 6A8, 6C5, 80	465	6-35,39
	Tone	VR9512	121	MR48	M26			CE9518	14	RS213								
								CE9515	15	TC22								
595M, 595P	Vol.	VR9510	15	MR53				CE9516	59	RS213					10	[3]6K7, 6A8, 6C5, 6H6, 6F5, [3]6F6, 5Z3	465	6-41,44
								CE9517	59	RS216								
								SA107913	15	TN111								
600	Vol.	VR9523	18	MR48	M26			CE9541	1/15	3S579		VI957	245	C3	4	6A7, 6D6, 75, 41	465	7-19, 9-2
								.008		Buffer	B14							
601	Vol.	VR9538	18	MR48	M23			CE9542	12	TC52					5	1C6, 1A4, 1B5, 30, 19	465	7-20
602	Vol.	VR9540	18	MR48											6	1C6, [3]1A4, 1B5, 30, 1J6G	465	7-21
	Tone	VR9539	22	‡		See Note A5												
604, 604B	Vol.	VR9531	7	‡		See Note A5		CE9533	6	RS215					4	6A7, 6C6, 43, K55C—Ballast, 25Z5	465	7-23,24
								CE9534	6	RS216								
								CE9515	15	TC22								
605, 605C	Vol.	VR9532	18	MR48	M26			CE9536	1	RS215					5	6A8, 6K7, 75, 6F6, 5Y3	465	7-25,26
								CE9535	1	RS216								
								CE9515	19	TC22								
610, 610A	Vol.	VR957	18	MR48	M26			CE9545	27	RS207					5	6A7, 6D6, 75, 43, 25Z5, K49C	465	7-38
								CE9546	27	RS215								
620	Vol.	VR9533	75	MRT431	M26			CE9539	27	RS207					6	6A8, 6K7, 6H6, 6F5, 25A6, 25Z6, K42C, —Ballast	465	7-27,28
	Tone	VR9534	22	MR24				CE9538	27	RS207								
								CE9540	13	RS213								
625	Vol.	VR9533	75	MRT431	6			CE9539	27	RS207					6	6A8, 6K7, 6H6, 6F5, 25A6, 25Z6, K42E —Ballast	465	7-27,28
	Tone	VR9534	22	MR24				CE9538	27	RS207								
								CE9540	13	RS213								
634A, 634A (Ed. 2)	Vol.	VR951	18	UM154-SS23	M26			CE951	4	TCS71		VI951	253Y	C3	6	[3]77, 78, 75, 42, 84	175	6-45,46
	Tone	VR952	121	MK401				.008		Buffer	B14							
636, 637	Vol.	VR9524	18	MR48	M26	RS246		CE951	4	TCS71		VI951	253Y	C3	6	[3]77, 78, 75, 42, 84	175	7-29,30
	Tone	VR9525	121	MR48				.008		Buffer	B14							
640, 650	Vol.	VR9533	75	MRT431	M26			CE9536	25	RS215					6	6A8, 6K7, 6H6, 6F6, 6F5, 5Z4 or 5Y3	465	7-31,34
	Tone	VR9534	125	MR24				CE9535	25	RS216								
								CE9537	13/15	RM262								
660T, 660C	Vol.	VR9536	75	MRT427				CE9536	25	RS215					7	[3]6K7, 6H6, 6F5, 6A8, 6F6, 5Z4 or 5Y3	465	7-35,37
	Tone	VR9512	121	MR48	M26			CE9535	25	RS216								
								CE9528	14	RS213								
								CE9526	15	TN111								
670S, 670C	Vol.	VR959	75	MR48				CE9536	25	RS215					9	[3]6K7, 6H6, 6C5, 6F5, 6A8, [3]6F6, 5Z4	465	7-39,42
	Tone	VR9537	22	MR39	M26		A99	CE9535	25	RS216								
								CE9528	14	RS213								
								CE9526	15	TN111								
680	Vol.	VR9510	15	MR53				CE9528	30	RS213					13	[4]6K7, 6A8, 6C5, [3]6H6, 6F5, [3]6L6G, 5Y3, 5Z3	465	7-43,44
								CE9536	30	RS215								
								CE9548	30	RS213								
								CE9547	15	TN111								9-7
								CE9549	3	TC71								
								CE9548	3	TC71								
736, 737, 738	Vol.	VR9527	75	MR44		RS246		CE951	4	TCS71		VI955	294	C3	7	6J7, 6A8, 6K7, 6H6, 6F5, 6F6, 0Z4	175	7-47,48
	Tone	VR9525	121	MR44				CE9524	19	TC22								
								.005		Buffer	B14							
838	Vol.	VR9527	75	MR44		RS246		CE951	4	TCS71		VI955	294	C3	8	[3]6K7, 6A8, 6H6, 6F5, [3]6F6, 0Z4	175	7-46
	Tone	VR9529	22	‡		See Note A5		CE9524	19	TC22								
								.005		Buffer	B14							
UNITED REPRODUCERS CORP. (Peerless)																		
20 Series	Vol.		35	‡		See Note A5		2-2-2	60	See Note	B1				9	[3]24A, [3]27, [3]45, 80		1-1
	Sen.		105	X														
45 (Arborphone)	Vol.		4	MR18				‡	1/14	See Note	B1				8	[4]26, 27, [3]71A, 80		
65 (Electro Static Spkr.)	Vol.		7	UC500				2-1	1	See Note	B1				9	[3]24A, [3]27, [3]45, 80, 99		1-2
70 Series (71, 72)	Vol.		6	E12		See Note A3		2-2	1	See Note	B1				9	[4]24A, 01A, 27, [3]45, 80		1-3
	Sen.		98	X		See Note A3												
UNITED SCIENTIFIC LABS.—See Dewald.																		

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
UNIVERSAL BATTERY CO.																		
5 tube 32V	Vol.		18	MR48				10	15	TC22					5	6A7, 6D6, 75, 76, 48	‡	
6 tube 6 volt	Vol.		15	MR48				12-6	1	3S582	B3		Order from Mfr.		6	6A7, 34, ²76, 75, 19	‡	
								10	15	TC22								
								.01-.01		Buffer	B14							
7 tube 6 volt	Vol.		15	MR48				12-6	1	3S582	B3		Order from Mfr.		7	²34, 6A7, ²76, 75, 19	‡	
								10	15	TC22								
								.01-.01		Buffer	B14							
50A6	Vol.		17	MR48				4-8	1	2N518			246	C3	5	1D7G, 1D5G, 1H4G, 1H6G, 1F5G	175	
	Tone		57	MR48				.01		Buffer	B14							
60	Vol.	24-103	18	UM157-SS17				18-203	74	3S579	B64	30-100	294	C3	6	6K7, 6A8, 6D6, 75, 41, 84	262	
	Tone	26-103	21	MR48				.005		Buffer	B14							
61A6	Vol.		17	MR48				4	1	TC70			245C	C3	6	6D8G, 1D5G, ²1H4G, 1J6G	465	
	Tone		65	MR48				20	1	TC55								
								.01		Buffer	B14							
70	Vol.	24-103	18	UM157-SS17				18-204	24/15	3S579		30-100	294	C3	7	6K7, 6A8, 6K7G, 6Q7G, 6J5G, 6N7G, 0Z4G	262	
	Tone		22	Order from	Mfr.			.008		Buffer	B14							
72A6	Vol.		17	MR48				4	1	TC70			245C	C3	7	²1D5G, 6D8G, 1H6G, ²1H4G, 1J6G	465	
	Tone		65	MR48				16	1	TC55								
								.01		Buffer	B14							
80	Vol.	24-103	18	UM157-SS17				18-204	24/15	3S579		30-100	294	C3	8	²6K7, 6A8, 6K7G, 6Q7G, 6J5G, 6N7G, 0Z4	262	
	Tone		22	Order from	Mfr.			18-205	13	TC70								
								.008		Buffer	B14							
613V (32 Volt DC)	Vol.		18	MR48											5	6A7, 6D6, 85, 6C6, 48	465	§6-35
636V	Vol.		15	MR48				4	1	TC70			See Note	C8	6	6D8G, 34, ²30, 19	‡	
	Tone		57	MR48				16	1	TC55								
								.01		Buffer	B14							
802	Vol.		18	UM154		See Note	A96	4-4	4	TCS71			294	C3	5	6A7, 6D6, 75, 42, 84	456	7-1
								.01		Buffer	B14							
803	Vol.		18	UM154		See Note	A96	4-4	4	TCS71			294	C3	6	²6D6, 6A7, 75, 42, 84	456	7-1
								.01		Buffer	B14							
5010	Vol.		18	MR48	M26			12-16	4	TCS44					5	6A8G, 6K7G, 6Q7G, 25A6G, 25Z6G	465	7-1
5032	Vol.		18	MR48				10	15	TC22					5	6A8G, 6K7G, 6Q7G, 6C5G, 48	465	7-1
6110	Vol.		18	MR48				8-8	23	2S567					6	6C5G, 6J7G, 6K7G, 6Q7G, 6F6G, 5Y3	456	7-2
6132	Vol.		18	MR48											6	6A8G, 6K7G, 6Q7G, 38, ²48	465	
	Tone		57	MR48														
6310	Vol.		18	MR48				8-8	23	2S567					6	6C5G, 6J7G, 6K7G, 6Q7G, 6F6G, 5Y3	456	7-2
7232, 7332 (32 V.)	Vol.		15	MR48				12-6	1	See Note	B3		F294		5	76, 6D6, 6C6, 6A7, 42	465	§6-35, 7-2
8210	Vol.		45	MR48				10	15	TC22								
	Tone		57	MR48				8, 8	3	RS213					8	6J7G, ²6C5G, 6K7G, 6Q7G, 6G5, 6N6G, 5Y3G	465	7-2
								4	3	TC70								
8232, 8332	Vol.		15	MR48				8, 8	1	TC71			F294	C3	8	²6K7G, 6A8G, 6H6G, 6G5, 6J7G, 6F6G, 6X5G	465	
	Tone		34	MR48				10	15	TC22								
								.01		Buffer	B14							
8410	Vol.		18	MR48				8, 8	3	RS213					8	6J7G, ²6C5G, 6K7G, 6Q7G, 6G5, 6N6G, 5Y3G	465	7-2
	Tone		57	MR48				4	3	TC70								
U. S. RADIO & TELEVISION	(Apex, Radiotrope)																	
3	Vol.		58	F				8, 8	4	RS213	B3				4	²24A, 47, 80		
5A (AC) (Chassis 502)	Vol.		6	MR18	M26			4703	1	2N518					5	²57, 58, 47, 80	455	3-1,2
7 (AC)	Vol.		15	MR48				3366	28	TC70					7	²35, ²24A, 27, 47, 80	262	2-1,4
	Lclzr.		‡	MR42				3529	28	TC70								
	Tone		22	Y200MP														
7D (Chassis 700)	Vol.		6	MR18				8-8	1	See Note	B3				7	²56, 57, ²58, 47, 80	455	4-1,2
	Tone		34	MR44				8	19	TC22								
8 Series	Vol.		15	MR53				2803	1	TC71	B194				8	²35, ²27, 47, 80	262	2-5,7
	Tone		34	MR42				2852	17	TC42								
9 (Chassis 900, 902)	Vol.		15	MR44	M26			8-8	28	2N518					9	²58, ²57, 56, ²46, 80	262	3-3,4
	Sen.		98	F				8	28	TC71								
	Tone		95	MR39				4	14	TC70								
10	Vol.		15	MR53				2803	1	TC71					10	²35, ²27, ²47, 80	262	2-8,10
	Tone		44	MR42				2719	13	TC52								
								2852	15	TC32								
10C (Chassis 1000-1001)	Vol.	2962	15	MR53				2803	1	TC71					10	²35, ²27, ²47, 80	262	2-11,14
	Tone	3838	41	MR44				2719	13	TC52								
								2852	15	TC32								
12 (Class "B") (Chassis 1200)	Vol.		15	MR44		See Note	A27	4	3	TC92					12	²58, ²56, ²46, ²57, 82	262	4-3,4
	Vol.		20	MRT427		See Note	A4	8-8-8	3/18	See Note	B3							
	Tone		‡	MR39		See Note	A27	8	16	TC32								
	Tone		21	MR48		See Note	A4											
	Sen.		7/12	Order from	Mfr.													
19 (Chassis 900, 902)	Vol.		15	MR44				8-8-8	28	See Note	B3				9	²58, ²57, 56, ²46, 80	262	3-3,4
	Tone		95	MR39				4	‡	TC40								
	Sen.		98	F														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
U. S. RADIO & TELEVISION	—Continued																	
20	Vol.		6	MR18				8-8	25	See Note	B3				4	24A, 71A, 80		1-1,2
24 (Chassis 400)	Vol.		40	MR24	M26			8-8	1	2N518					4	47, 57, 80	455	3-5,6
								4	19	TC22								
25 (Chassis 500) (2 types)	Vol.	4242	6	MR18	M26			8-8	1	See Note	B3				5	57, 58, 47, 80	455	4-5,6
26	Vol.	2234A	6	MR18				1942	1	HD684					5	24A, 45, 80		1-3,4
26P	Vol.	2234A	6	MR18				2678	1	HD684					5	24A, 47, 80		1-3,4
27 (Early)	Vol.		42	UC500				8-8	1	See Note	B3				5	24A, 27, 45, 80		1-5
27 (Late)	Vol.	2068	6	MR18	M26			8-8	1	See Note	B3				5	24A, 27, 45, 80		1-5
27P	Vol.		6	MR18				8-8	1	See Note	B3				5	24A, 27, 45, 80		1-6
	Phono.		87	‡		See Note	A5											
28 (Early) (Late)	Vol.		8	A400P				1-3-1	3	See Note	B1				8	24A, 27, 45, 80		1-7,8
	Tone		41	MR48														
29	Vol.		6	MR18	M26			8-8-8	1/14	See Note	B3				8	24A, 27, 45, 80		1-9
	Tone		41	MR48														
30 Auto	Vol.		7	MR19											5	24A, 26, 71A, 01A		2-16
31 Apex	Vol.		6	MR18	M26			8, 8, 8	28	HD684					8	27, 24A, 45, 80		1-10
	Tone		41	MR48														
31R (Remote Control)	Vol.		7	G				8, 8, 8	28	RS213					8	27, 24A, 45, 80		1-10
	Tone		41	MR48														
32 Series	Vol.		6	MR18				8, 8, 8	28	RS213					7	45, 27, 24A, 80		1-11
	Tone		41	MR48														
33 (DC)	Vol.		6	MR18											6	64, 71A		3-7,8
36, 37 Apex	Vol.		4	D12				1-1-1	3	See Note	B1				7	71A, 26, 27, 80		1-12
41 (60 Cycle)	Vol.		8	A400P				1-1.5-1	3	See Note	B1				8	27, 45, 80		1-13
42 (60 Cycle)	Vol.		8	A400P				1-1-1	3	See Note	B1				8	27, 45, 80		1-13
43 (25 Cycle)	Vol.		8	A400P				1-1.5-1	3	See Note	B1				8	27, 45, 80		1-13
44 (25 Cycle)	Vol.		8	A400P				1-1-1	3	See Note	B1				8	27, 45, 80		1-13
46, 46A, 47, 47A	Vol.		8	A400P				1-1.5-1	3	See Note	B1				7	27, 24A, 45, 80		1-14
48, 48A, 48W	Vol.		8	A400P				1-3-1	3	See Note	B1				8	27, 24A, 45, 80		1-15
	Tone		41	MR48														
49	Vol.		6	MR18											5	24A, 26, 01A, 71A		1-15
69 (Chassis 906)	Vol.		15	MR48				4-4	12/19	2N516					9	32, 34, 30	262	3-9
	Tone		44	MR42														
80 (Case)	Vol.		4	D12		See Note	A27	‡	‡	See Note	B1				9	26, 27, 71A, 80		1-16
	Vol.		40	MR18		See Note	A4											
99 Series	Vol.	3406	6	MR18				3366	1	TC70					5	24A, 35, 47, 80	262	2-17,18
								2803	1	TC71								
120 Class "B" (Chassis 1200)	Vol.		15	MR44		See Note	A27	4-8-8	3	See Note	B3				12	58, 56, 46, 57, 82	262	4-3,4
	Vol.		20	MRT427		See Note	A4	8	18	See Note	B3							
	Tone		‡	MR39		See Note	A27	8	17	TC32								
	Tone		21	MR48		See Note	A4											
	Sen.		7/12	Order from	Mfr.													
160, 250 (Chassis 90)	Vol.		40	‡		See Note	A5	2-2-2	1/14	See Note	B1				9	27, 45, 80		3-10
482	Vol.		8	A400P				1-3-1	3	See Note	B1				8	24A, 27, 45, 80		1-15
	Tone		41	MR48														
1006, 1007 Class "B"	Vol.		15	MR44				8-8-8	28	See Note	B3				10	58, 56, 46, 80	262	4-9,10
	Tone		95	MR33				8-8	‡	See Note	B3							
3040, 3056 (Chassis 507)	Vol.		6	MR24				8-8	1	2N518					5	47, 57, 58, 80	455	3-11,12
								4	17	TC22								
3070 (Chassis 1009)	Vol.		15	MR44				8-8	55	2N518					10	58, 56, 46, 80	262	4-11,12
	Tone		41	MR33				4	55	TC70								
3092 (Chassis 513)	Vol.	6223	6	MR24				4-12-4	11	UR182	B182				5	6F7, 78, 75, 43, 25Z5	455	5-1
UTAH PRODUCTS CO.																		
400A Series	Vol.		15	MR44				8-8-4-2	37	See Note	B3				14	58, 55, 56, 57, 47, 80	180	
	Supp.		‡	UM149-SS1		See Note	A4	40	15	TC29								
	Tone		41	MR53														
400B	Vol.		33	MR44				8-8-4-2-2	3	See Note	B3				17	55, 58, 56, 57, 2A5, 5Z3	180	
	Tone		‡	MR44				40	15	TC29								
	Supp.		44	MR19														
"B" Elim. (Non Sync.)								8	1	TC71			292	C3		84		1-1
								20	‡	TC26								
								.02		Buffer	B14							
VICTOR—See RCA.																		
VOCO RADIO MFG. CO., INC.																		
V41N	Vol.		6	SRP263				8-4	4	See Note	B3				4	35, 24A, 47, 80		§6-36
V60	Vol.		15	MR48				6-6	1	2N518	B3				6	58, 57, 55, 47, 80	175	§6-36
V80	Vol.		15	MR48				‡	1	See Note	B3				8	58, 56, Wunderlich, 47, 80	‡	§6-37
V100	Vol.		15	MR48				‡	1	See Note	B3				10	58, Wunderlich, 56, 47, 80	‡	§6-37

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS				Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note	No. Tubes			
WALGREEN—AETNA																		
B25-RS	Vol.	2009C	18	MR48	M27										5	1C6, 1A4, 1B5, 30, 19	456	8-1
B66RIS	Vol.	24-101	18	MR48				1845	1	TC42		3407	246	C3	6	30, 1A6, 1A4, 6T7G, 6L5G, 19	456	11-3
	Tone	26-102	21	MR53	M27			16-100	15	TC22								
								.01-.01		Buffer	B14							
M8 (Ch. M, ME)	Vol.	2011	18	MR48				317	1	RS213					8	6A7, 6D6, ²76, 6F5G, 42, 6G5, 80	456	10-1
	Tone	2012	34	MR36	M26			364	15	TC22								
ME5, NT5	Vol.		15	MR48				4-8-8	2	3S584					10	6K7, 6A8, 6D6, ²76, 75, 6G5, ²6B5, 80	456	13-3
	Tone		34	MR39				5	15	TC22								
P5	Vol.	P4820	18	MK402	M27			P4860	76	FP309					5	1A7, 1N5, 1H5, 3Q5, 117Z6	455	13-1,2
								P4831	78	TC2501								
R31 (Ch. R)	Vol.	2006	6	MR18	M26	EX300		316	8/15	TN125/TC22					4	6D6, 6C6, 43, 25Z5, L55B		10-3
XP5	Vol.	P4820	18	MK402	M27			P4860	76	FP309					5	1A7, 1N5, 1H5, 3Q5, 117Z6	455	13-1,2
								P4831	78	TC2501								
4-tube Batt	Vol.	1050	‡	MR18	M26	EX300		2037	12	TC52					4	²34, 32, 33	456	13-4
10, 12	Vol.		6	MR18		EX200		14-8-5-5	6/15	4S715					4	6D6, 6C6, 43, 25Z5		10-2
22U73	Vol.	2055	18	MR48	M26			2159	11	UR182					5	6A7, 6K7, 75, 43, 25Z5	465	11-1
	Tone	2373	22	MR33														
32B	Vol.	2239	18	MR48											4	1C6, 34, 1B5, 33	465	10-4
34B	Vol.	2260	18	MR48	M27			2272	1	TCD55		2269	245A	C3	4	1C6, 34, 1B5, 38	465	10-5
	Tone	2239	57	MR48				8876	15	TC22								
								.02		Buffer	B14							
41, 42	Vol.		7	G				4, 4	4	ST595					4	35, 24, 47, 80		10-2
41A, 42A	Vol.		7	G				4	4	ST595					4	58, 57, 47, 80		10-2
								8	4	ST595								
46	Vol.	1057	45	MR48	M26			2037	12	TC52					6	1C6, ²34, ²30, 33	456	13-4
55-RS	Vol.	2009	18	MR48	M26			317	4	RS213					5	6A7, 6D6, 75, 42, 80	456	8-2
57-RS	Vol.	2009	18	MR48	M26			311	27	ST599					6	6A7, 6D6, 75, 43, 25Z5, 6G5	456	8-3
								314	27	ST597								
66	Vol.		18	MR48				16-8-5-5	1/15	3S582/TN111					5	6A7, 6D6, 75, 43, 25Z5	456	11-2
78RLS, C78RLS	Vol.		18	MR48				40	23	RS224					8	²6K7G, 6J7G, 6L7G, 6Q7G, 6V6, 6G5, 5Y4	456	12-1,2
	Tone		22	MR33				16	23	RS216								
99RLS, C99RLS	Vol.		18	MR48				40, 40	23	RS224					10	²6K7G, 6J7G, 6L7G, 6Q7G, 6C5, ²6V6, 5Y4, 6G5	456	12-2,3
	Tone		44	MR33														
166RIS	Vol.	24-101	18	MR48				18-202	25	RS215					6	76, 6A7, 6D6, 75, 42, 80	456	10-6
	Tone	26-101	21	MR48	M26			18-201	25	RS215								
200	Vol.	2006	6	MR18	M26	EX300		316	24/15	TN125/TN111					4	6D6, 6C6, 43, 25Z5		11-3
204R	Vol.		6	MR39		EX350		12	4	RS215					4	6A7, 6C6, 42, 80	456	12-4
								16	4	RS216								
209	Vol.	2031	6	MR20	M26			344	1	2N513					2	12B8GT, 32L7GT		11-4
250	Vol.	W60	7	UM151-SS1				W70	1/15	3S582/TN111					4	78, 77, 38, 12Z3		11-5
252	Vol.		6	MR20	M26			16-12	27	TCS44					4	6D6, 6C6, 43, 25Z5		11-6
253CL Early	Vol.		6	MR29	M26			16-12	27	TCS44					4	6D6/6K7, 6C6/6J7, 43, 25Z5		12-4
253CL Late	Vol.		6	MR29	M26			16-12	27	TCS44					5	6D6/6K7, 6C6/6J7, 43, ²12Z3		12-4
255	Vol.	2426	6	MR24	M26	EX200		2525	1	FP115					4	6D6, 6C6, 25L6, 25Z5, R55CP		9-1
	Tone	259	21	MR48														
300CL	Vol.		18	MR48				8-8	23	RM262					6	6C6, 6D6, 75, 42, 76, 80	‡	12-4
300, 300P Early	Vol.		18	MR48				16-12	27	TCS44					5	6A7, 6D6, 75, 43, 25Z5	465	11-7, 12-4
	Tone		22			See Note A5												
300P Late	Vol.		18	MR48				16-8	11	2S569					5	6A7, 6D6, 75, 43, 25Z5	456	12-4
								8	11	TC52								
300T	Vol.		18	MR48				16-12-10-10	6/15	4S715					5	6A7, 6D6, 75, 43, 25Z5	‡	13-9
308 (Ch. 801, 802)	Vol.		75	‡		See Note A19		8	25	HD684					8	²6K7, 6L7, 6C5, 6F5, 6H6, 5Y3, 6F6	465	10-7
	Tone		57	MR48				25	25	RS223								
360 (Ch. HE)	Vol.	2009	18	MR33	M26			311	27	TC45					6	6A7, 6D6, 75, 6G5, 43, 25Z5, L42C	456	10-3
	Tone		22	MR36				314	27	TC42								
370	Vol.	2009	18	MR48	M26			311	27	TC45					6	6A7, 6D6, 85, 43, 25Z5, 6G5 or L49C	456	8-4
								314	27	TC42								
400	Vol.		6	MR18	M26	EX200		4, 4	1	TC70					4	78, 77, 42, 80		10-8
400 Late	Vol.	V600	7	MR37	M26	EX100		10	15	TC22								
								C514	1	2N518					4	39, 36, 41, 56		11-8
401	Vol.	1835	6	MR24	M26	EX200		C520	15	TN111								
								1258	4	RS213					4	6D6, 6C6, 42, 80		10-9
								1260	4	RS213								
404B, 404I	Vol.	2028	6	MR19	M26			8876	15	TC22								
								336	1	TN125					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT		11-9
409	Vol.	2009G	18	MR48	M27			10	12	TC55					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	‡	11-9
410	Vol.	2032	6	MR28	M26			343	1	2N513					4	12K7GT, 12SQ7GT, 50L6GT, 45Z5GT		11-4
419	Vol.	2009G	18	MR48	M27			10	12	TC55					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	‡	11-9
500 (2 Bands)	Vol.		17	MR53				8-8	1	See Note	B3				5	6A7, 78, 75, 42, 80	370	10-10
	Tone		34	MR44				10	19	TC22								

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WALGREEN—Continued																		
500 (3 Band)	Vol.		17	MR53				8-8	1	See Note	B3				5	6A7, 6D6, 75, 42, 80	370	10-10
	Tone		34	MR44				10	19	TC22								
500DC	Vol.		6	MR18	M26										5	[3]36, [3]38		13-5,8
502	Vol.		6	MR22		EX250		8, 8	4	TC71					5	6A7, 6D6, 76, 42, 80	456	11-8
	Tone		22	MR33														
510 AC (Early)	Vol.		18	MR48	M26			8, 8	4	RS213					5	6A7, 6D6, 75, 42, 80	456	11-10
510 AC-DC (Late)	Vol.	2009F	18	UM154	M26		A96	344	1	2N513					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	456	11-11
522	Vol.	5-301	18	MK401	M26			7-301	24	2N514					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	13-6
525	Vol.	V601	17	MR48	M26			C525	63	UR182					5	[2]6D6, 75, 43, 25Z5	456	11-2
529	Vol.	2009E	18	UM154	M27		A96	345	76/78	TN129/TC2501					5	1A7G, 1N5G, 1H5G, 1T5GT, 25Z6GT	456	11-11
532	Vol.		149	MR55	M26			40-40	24	2N511	B3				5	1A7GT, [3]1N5GT, 3Q5GT, 117Z6GT	456	13-9
540	Vol.	P101-1	17	MR48	M26			40-70-70	24/78	See Note	B3							
542	Vol.	24-127	6	UM154	M26		A96	C525C/C525D	11	UR182	B31				5	[2]6D6, 75, 43, 25Z5	456	10-11
								19-234	1/15	FP346					4	6D6, 6F5G, 25L6G, 25Z5		11-12
550AC	Vol.	P1008	17	MR48	M26			P1003	4	2S567	B33				5	2A7, 58, 2A6, 2A5, 80	456	10-12
550 Auto	Vol.		17	UM154		See Note	A96	4-8-4	4/15	3S579			See Note	C6	5	6A7, 6D6, 75, 42, 84	456	10-11
								.0075		Buffer	B14							
575	Vol.	P101-10	6	MR33	M26	EX100		P119-6	4	2S567					5	58, [3]57, 2A5, 80	175	10-13
576	Vol.	P101-10	69	MR36	M26	EX100		P119-8	8/15	3S584/TC22					5	6D6, [3]6C6, 43, 25Z5	175	13-10
585 Ser. A	Vol.	P101-18	18	MR48	M26			P119-11	1/15	3S579					5	6F7, 6D6, 75, 42, 80	370	10-14
600	Vol.		18	MR48	M26			8-8	1	2S567					6	6A7, 6D6, 75, [3]42, 80	456	11-15
	Tone		22	MR33				10	15	TC22								
604	Vol.		18	MR48				8, 8	1	RS213					6	[2]6D6, 75, 42, 76, 80	456	12-5
	Tone		22	MR33														
606	Vol.		18	MR48				8, 8	1	RS213					6	[2]6D6, 75, 42, 76, 80	456	12-5
	Tone		22	MR33														
630, 635, 652	Vol.		18	MR48				8-8	1	2S567					6	[2]6D6, 75, 6B5, 80, 76	456	9-1 & 12-2
	Tone		22	MR33														
630 (Revised)	Vol.	24-124	18	MR48	M26			18-232	6	2N509	B8				5	6A7, 6D6, 75, 25L6G, 25Z5, BK49B	455	12-2,5
								18-235	15	TC22								
650	Vol.		18	MR48	M26			8-8	1	2S567					6	6A7, 6D6, 75, [3]42, 80	456	11-15
	Tone		22	MR33				10	15	TC22								
651	Vol.	2055	18	MR48	M26			1477	25	RS215					6	6A7, 6D6, 75, [3]42, 80	465	10-15
	Tone	2056	34	MR33				1476	25	RS216								
653	Vol.		18	MR48				8, 8	1	RS213					6	[2]6D6, 75, 42, 76, 80	456	12-5
	Tone		22	MR33														
660 (Early, 2 Types)	Vol. 1st		17	UM154			A96	4-4-8	4/13	3S584			246	C12	6	[2]6D6, 6C6, 75, 41/42, 84	262.5	12-6
	Vol. 2nd		17	UM161			A96	.0075		Buffer	B14							
660 (Auto) Late	Vol.	V603	17	MR48	M26			C550	4	TCS71			Order from Mfr.		6	[2]6D6, 6A7, 75, 89, 6Z4	175	10-8
675	Vol.	P101-11	18	MR48	M26			P103-4	4	RS216					6	57, 27, 58, 2A6, 2A5, 80	370	10-16
								P103-3	4	RS216								
700	Vol.		18	MR48				16, 16	27	TC44					5	6A7, 6D6, 75, 43, 25Z5	156	8-2
	Tone		34	MR33														
750	Vol.	6216	75	MR48	M26			3004	1	RM262					7	[2]6K7, 6A8, 6H6, 6F5, 6F6, 5Y3	465	11-13
								8814	14	TC70								
								3003	15	TC22								
800 (Ch. M, ME)	Vol.	2011	18	MR48				317	1	RS213					8	6A7, 6D6, [3]76, 6F5G, 42, 6G5, 80	456	10-1
	Tone	2012	34	MR36	M26			364	15	TC22								
901	Vol.	64A	18	MR48	M26			16-16-8	63	2S567/TC42					5	6A7, 6D6, 75, 43, 25Z5	456	11-16
1050	Vol.	P1025	15	MR48				P1048	26	HD684					10	[3]58, 2A7, [4]56, [2]45, 80, Tun-a-lite	175	10-17
	Tone		‡	MR39	M26			P1038	26	ST595/[3]TC32								
	Supp.		12	F7														
4154	Vol.	9331	6	H7	6	2		9982	11	UR182	B31				4	6D6, 6C6, 43, 25Z5		10-18
								1693	15	TC22								
WALTHAM																		
32	Vol.		6	MR21				8-8	4	See Note	B3				6	[4]24A, 45, 80		3-1
WALTON RADIO CORP.																		
Wal-Tone "EX"	Vol.		8	H		2		A403	4	TC71					6	56, 57, [3]58, 47, 80	457.5	
								A404	4	TC70								
WARWICK																		
4 tube AC	Vol.		6	MR48			A14	12	4	RS215					4	6A7, 6C6, 42, 80	456	7-4
								16	4	RS216								
5-Tube Super A. C.	Vol.		17	MR48	M26			8-8	4	2S567					5	6A7, 6D6, 75, 42, 80	456	9-1
6-Tube AC Superhet	Vol.		17	MR48	M26			8-8	4	2S567					6	6A7, 6D6, 75, 42, 80, 6G5	456	9-1
6 tube Auto	Vol.		17	UM162		See Note	A96	4-4-8	4/15	3S579			246	C12	6	[2]6D6, 6C6, 75, 42, 84	262.5	7-2
	Tone		‡	MR39				.0075		Buffer	B14							
7 tube Battery	Vol.		18	MR48											6	1C6, [3]34, 1B5, 30, 19	456	7-3
	Tone		22	MR33														
0-30	Vol.	24-139	18	UM154	M26		A96	18-251	24	2N513					3	12SA7GT, 25D8GT, 70A7GT	455	11-1

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WARWICK—Continued																		
0-40	Vol.	24-138	18	MR53	M27			18-250	12	TC40					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	11-1
0-41	Vol.	24-138	18	MR53	M27			18-250	12	TC40					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	12-1
0-42	Vol.	24-138	18	MR53	M27			18-250	12	TC40					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	12-1
0-43, 0-44	Vol.	24-149	18	UM161	M27		A96	18-250	12	TC40					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	11-2
0-46	Vol.	24-151	18	UM161	M27		A96	18-250	12	TC40					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	12-1
0-50	Vol.	24-138	18	MR53	M27			18-257 18-258 18-259	76 76 78	TN129 TC44 TC39	B8				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z4GT	455	11-7
0-51	Vol.	24-140	18	MR48	M26			18-254	1	FP234	B117				5	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-3
0-53	Vol.	24-150	18	MK402				18-262 18-263	76 76/78	FP211 2N509					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	11-5
0-54	Vol.	24-142	18	MR48	M26			18-241	22	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-3
0-60	Vol.	24-140	18	MR48	M26			18-255	1	2N514					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	11-6
0-61	Vol.	24-142	18	MR48	M26			18-241	1	2N509					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	11-7
0-62	Vol.	24-142	18	MR48	M26			18-241	1	2N509					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	11-2
0-63	Vol.	24-146	45	MR48	M26			18-254 18-243	1 19	FP234 TC26	B117				6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-3
0-64	Vol.	24-144	18	MR48	M26			18-254 18-243	1 19	FP234 TC26	B117				6	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 6P5GT, 5W4GT	455	11-8
0-65	Vol.	24-145	45	UM154	M26		A96	18-254 18-243	1 19	FP234 TC26	B117				6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-9
0-66	Vol.	24-144	45	MR48	M26			18-254 18-243	1 19	FP234 TC26	B117				6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-8
0-67	Vol.	24-146	45	MR48	M26			18-254 18-243	1 19	FP234 TC26	B117				6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-9
0-70	Vol.	24-147	18	500M			A19	18-254	1	FP234	B117				7	6SA7GT, 6SK7GT, 6SQ7GT, ½6P5GT, 6AC5GT, 5W4GT	455	11-10
0-71	Vol.	24-146	18	MR48	M26			18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	455	11-10
0-72	Vol.	24-145	18	UM154	M26		A96	18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	455	11-11
0-73	Vol.	24-144	18	MR48	M26			18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	455	11-11
0-74	Vol.	24-144	45	MR48	M26			18-256 18-243	1 19	FP234 TC26					7	6SA7GT, 6SK7GT, ½6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-12
0-75	Vol.	24-143	45	UM154	M26		A96	18-256 18-243	1 19	FP234 TC26					7	6SA7GT, 6SK7GT, ½6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-12
0-76	Vol.	24-145	18	UM154	M26		A96	18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	455	11-13
0-77	Vol.	24-146	45	MR48	M26			18-255	1	2N514					6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 25L6GT, 25Z6GT	455	11-14
0-78	Vol.	24-144	18	MR48	M26			18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	455	11-13
0-79	Vol.	24-144	18	MR48	M26			18-254 18-243	1 19	FP234 TC26	B117				7	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 6P5GT, 6U5, 5W4GT	455	11-15
0-80	Vol.	24-131	45	UM154			A96	18-256	1	FP234					8	6SA7GT, 6SK7GT, ½6P5GT, 6SQ7GT, 6AC5GT, 5W4GT	455	11-14

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WARWICK—Continued																		
0-81	Vol.	24-144	18	MR48	M26			18-261	1	TC48					8	12SA7GT, 12SK7GT, 12SQ7GT, 12E5GT, [3]50L6GT, [3]45Z5GT	455	11-15
0-82, 0-82B, 0-82C	Vol.	24-144	45	MR48	M26			18-256 18-243	1 19	FP234 TC26					8	6SA7GT, 6SK7GT, [1]6P5GT, 6SQ7GT, 6K6GT, 6U5, 5W4GT	455	11-16
0-83	Vol.	24-144	45	MR48	M26			18-256 18-243	1 19	FP234 TC26					8	6SA7GT, 6SK7GT, [1]6P5GT, 6SQ7GT, 6K6GT, 6U5, 5W4GT	455	11-16
0-84	Vol.	24-144	18	MR48	M26			18-255	1	2N514					7	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT, 6U5, BM36C, 6P5GT	455	12-2
0-300 to 0-309 inc.	Vol.	24-139	18	UM154	M26		A96	18-251	24	2N513					3	12SA7GT, 25D8GT, 70A7GT	455	11-1
0-407	Vol.	24-138	18	MR53	M27			18-250	12	TC40					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	10-1
0-411	Vol.	24-138	18	MR53	M27			18-250	12	TC40					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	12-1
0-430 to 0-439 inc., 0-440 to 0-449 inc.	Vol.	24-149	18	UM161	M27		A96	18-250	12	TC40					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	11-2
0-501	Vol.	24-138	18	MR53	M27			18-257 18-258 18-259	76 76 78	2N511 TC44 TC39	.B8				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z4GT	455	11-7
0-530	Vol.	24-150	18	MK402				18-262 18-263	76 76/78	FP211 2S556					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-2
0-610 to 0-619 inc.	Vol.	24-142	18	MR48	M26			18-241	1	2N509					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	11-7
0-620 to 0-629 inc.	Vol.	24-142	18	MR48	M26			18-241	1	2N509					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	11-2
1-40 (1-400 to 1-409)	Vol.	24-152	18	MK402	M26			18-265	24/15	3N533					4	12SA7, 12SQ7, 50L6GT, 35Z5GT	455	12-3
1-41	Vol.	24-152	18	MK402	M26			18-265	24/15	3N533					4	12SA7, 12SQ7, 50L6GT, 35Z5GT	455	12-3
1-42 (1-420 to 1-429)	Vol.	24-154	18	MK402	M27			18-250	12	TC40					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	12-4
1-43 (1-430 to 1-439)	Vol.	24-148	18	UM161	M27		A96	18-250	12	TC40					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	12-6
1-50 (1-500 to 1-509)	Vol.	24-153	18	MK401	M26			18-266	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-4
1-52	Vol.	24-153	18	MK401	M26			18-266	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-4
1-53	Vol.	24-150	18	MK402				18-262 18-263	76 76/78	FP211 2N509					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-5
1-60	Vol.	24-153	18	MK401	M26			18-266	22	2N513					6	[2]12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-5,6
1-61	Vol.	24-146	18	MR48	M26			18-267	1/15	FP339	.B3				6	[2]6SK7, 6SA7, 6SQ7, 6K6GT, 5W4GT	455	12-5
1-541, 1-543 (Ch. 1-54)	Vol.	24-150	18	MK402				18-262 18-263	24 12/78	FP211 2N509					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z6GT	455	13-1,10
1-550, 1-559 (Ch. 1-55)	Vol.	24-152	18	MK402	M26			18-265	24/15	3N533					5	12SK7, 12SA7, 12SQ7, 50L6GT, 35Z5GT	455	13-2,10
1-561 (Ch. 1-56)	Vol.	24-156	18	TM249-SS25	M26			18-265	24/15	3N533					5	12SK7, 12SA7, 12SQ7, 50L6GT, 35Z5GT	455	13-3,10
1-621, 1-622	Vol.	24-155	18	‡		See Note A5		18-267	1/15	FP339	.B3				6	[2]6SK7, 6SA7, 6SQ7, 6K6GT, 5W4GT	455	12-6
2-400, 2-409 (Ch. 2-40)	Vol.	24-154	18	MK402	M27			18-250	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	13-5,10
2-500, 2-509 (Ch. 2-50)	Vol.	24-157	18	MK402	M26			18-266	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-5,10
2-530, 2-539 (Ch. 2-53) (1941)	Vol.	24-153	18	MK401	M26			18-266	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-6,10
2-541, 2-543 (Ch. 2-54)	Vol.	24-150	18	MK402				18-266 18-271	24 78	2N513 Order from	Mfr.				5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z4GT	455	13-4,9
2-550 to 2-559 (Ch. 2-55) (1941)	Vol.	24-153	18	MK401	M26			18-266	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-6,9

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WARWICK—Continued																		
2-560 to 2-569 (Ch. 2-56)	Vol.	24-162	18	MK402	M27			18-266 18-271	24 78	2N513 Order from	 Mfr.				5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z4GT	455	13-7,9
2-610, 2-619 (Ch. 2-61) (1941)	Vol.	24-161	18	MK401	M26			18-266	1	2N513					6	12SA7, 12SK7, 12SQ7, 12J5GT, 35L6GT, 35Z5GT	455	13-7,9
2-701 (Ch. 2-70) (1941)	Vol.	24-160	18	TM230-SS25	M26			18-266	1	2N513					7	6SA7, 6SK7, ¹6SQ7, ¹25L6GT, 25Z6GT	455	13-4,10
2-703, 2-704 (Ch. 2-70) (1941)	Vol.	24-160	18	TM230-SS25	M26			18-266	1	2N513					7	6SA7, 6SK7, ¹6SQ7, ¹25L6GT, 25Z6GT	455	13-4,10
2-708, 2-709 (Ch. 2-70) (1941)	Vol.	24-160	18	TM230-SS25	M26			18-266	1	2N513					7	6SA7, 6SK7, ¹6SQ7, ¹25L6GT, 25Z6GT	455	13-4,10
2-711, 2-714 (Ch. 2-71)	Vol.	24-160	18	TM230-SS25	M26			18-266	1	2N513					7	6SA7, 6SK7, ¹6SQ7, ¹25L6GT, 25Z6GT	455	13-8,9
3-561, 3-561V (Ch. 3-56)	Vol.	24-153	18	MK401	M26			18-266	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-6,10
3-571 (Ch. 3-57)	Vol.	24-153	18	MK401	M26			18-266	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-6,9
3-622, 3-622V, 3-623 (Ch. 3-62)	Vol.	24-161	18	MK401	M26			18-266	1	2N513					6	12SA7, 12SK7, 12SQ7, 12J5GT, 35L6GT, 35Z5GT	455	13-7,9
3-721 (Ch. 3-72)	Vol.	24-160	18	TM230-SS25	M26			18-266	1	2N513					7	6SA7, 6SK7, ¹6SQ7, ¹25L6GT, 25Z6GT	455	13-4,10
3-732 (Ch. 3-73)	Vol.	24-160	18	TM230-SS25	M26			18-266	1	2N513					7	6SA7, 6SK7, ¹6SQ7, ¹25L6GT, 25Z6GT	455	13-8,9
9-21 Phono-Oscil								18-241	24	2N509					2	6A7, 76		11-4
9-23								18-241	24	2N509					2	12SA7, 35Z4GT		10-2
9-41	Vol.	24-124	18	MR48	M26			18-236 .004	24	2N514 Buffer	 B14	34-103	246A	C3	4	6D8G, 6S7G, 6T7G, 6G6G	455	11-17
9-42	Vol.	24-126	18	MR53	M27			18-235	19	TC32					4	1A7G, 1N5G, 1H5G, 1A5G	455	11-19
9-43, 9-45	Vol.	24-130	18	MR53	M27			18-243	19	TC22					4	1A7G, 1N5G, 1I15G, 1Q5G	455	10-3
9-44	Vol.	24-124	18	MR48	M26			18-236 .004	24	2N514 Buffer	 B14	34-103	246A	C3	4	6D8G, 6S7G, 6T7G, 6G6G	455	11-17
9-46	Vol.		6	MR21	M26			40-10-20	1/15	3N533					4	12K7GT, 12F5GT, 50L6GT, 35Z4GT		10-4
9-51, 9-52	Vol.	24-127	6	MR22	M26			40-10-20	1/15	3N533					4	6D6, 6F5G, 25L6G, 25Z5		11-18
9-53	Vol.	24-130	18	MR53	M27			18-235	19	TC22					5	1A7G, 1N5G, 1I15G, ¹1A5G	455	10-7
9-54	Vol.		6	MR22	M26			40-10-20	1/15	3N533					4	6D6, 6F5G, 25L6G, 25Z5		11-18
9-58	Vol.		18	MR48	M26			40-10-20	1/15	3N533					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	10-6
9-59	Vol.	24-135	18	MR53	M26			18-246 .005	1	Order from Buffer	Mfr. B14	34-102	859	C3	5	6SA7, 6D6, 75, 41, 84	455	10-8
9-61	Vol.		18	UM154	M26		A96	40-10-20	1/15	3N533					5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-20
9-62	Vol.	24-155	18	‡		See Note A5		18-267	1/15	FP339	B3				6	¹6SK7, 6SA7, 6SQ7, 6K6GT, 5W4GT	455	12-6
9-63, 9-64	Vol.		18	UM154	M26		A96	40-10-20	1/15	3N533					5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-20
9-66	Vol.	24-124	18	MR48	M26			18-241	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, BK49B	455	10-9
9-220 to 9-229 inc. (9-22)	Vol.	24-136	6	‡		See Note A5		18-249	1	2N509					2	12B8GT, 35L7GT		10-10
9-480 to 9-489 inc.	Vol.	24-130	18	MR53	M27			18-243	19	TC22					4	1A7G, 1N5G, 1H5G, 1Q5G	455	10-11
9-550 to 9-559 inc.	Vol.	24-132	18	MR48	M26			18-241	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	10-12
9-627	Vol.	24-119	18	MR48	M26			18-240 .004	40	Order from Buffer	Mfr. B14	34-102	859	C3	6	6A7, 6D6, 6R7, 76, 41, 6Z4 or 84	456	11-21
9-670 to 9-679 inc.	Vol.	24-132	18	MR48	M26			18-241	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, BK49B	455	10-12
9-680 to 9-689 inc.	Vol.	24-132	18	MR48	M26			18-241	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, BK49B	455	10-11
10-70	Vol.	24-146	18	MR48	M26			18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	455	11-6

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WATTERSON—Continued																		
630	Vol.		18	UM154	M26		A96	40-40	6	2N521					5	6A7, 6D6, 75, 25L6G		
								10	15	TC22						25Z5, BK49B	455	12-1
								20	1	ST598					6	6A8G, 6U7G, 75,		
L640W	Vol.		18	MR48				8	1	TC71						6P5G, 6AC5G, 80	456	12-3
W651	Vol.	24-101	18	MR48				1845	1	2N516		3407	246	C3	6	30, 1A6, 1A4, 6T7G,		
	Tone	26-102	21			See Note	A5	16-100	15	TC22						6L5G, 19	456	12-1
								.01-.01		Buffer	B14							
669	Vol.		45	MR48				15-15-40	1/15	FP339			See Note	C8	6	6A8, 6S7, [3]6L5, 1J6	465	12-3
	Tone		34			See Note	A5	.02		Buffer	B14							
WEBSTER CO.																		
OC2	Vol.		35	B				20-8	1	2N509					3	6J7, 25A6, 25Z6,		
								12, 12	15	TC22						R3003		8-1
OC2A	Vol.		35	B				16-16	24	2N509					3	6J7, 25L6, 25Z6,		
								10	15	TC22						R3003		8-1
C (OX and OXM)	Vol.		35	UM118-SS4				16-16	1	2N509					3	6J7, 25L6, 25Z6,		
								10	15	TC22						R3003		8-2
								20	15	TC26								
D (OC3 to OC10)	Vol.		35	‡		See Note	A5	16-16	24	2N509					3	6J7, 25L6, 25Z6,		
								10	15	TC22						R3003		8-2
								20	15	TC26								
B53	Vol.		‡	‡		See Note	A5	8-8-8	3	See Note	B3				4	2A6, [3]53, 82		5-2
	Phono.		‡	‡		See Note	A5	20, 20	15	TC26								
								20	14	TC26								
HG417	Vol.		15	MR53				8-8-8-8	3/13	See Note	B3				6	57, 53, [2]A5, 5Z3		§6-38
	Phono.		63	MR33				12	15	TC22								
	Tone		41	MR39				8	15	TC32								
								8	14	TC52								
K358A	Vol.		16	MR33				8-8-8	3	See Note	B3				5	57, 56, [2]A3, 83		5-4
	Phono.		63	S				4	15	TC22								
								8	15	TC22								
K359A	Vol.		16	MR33				8-8-8	3	See Note	B3				5	‡, ‡, [2]A3, 83		5-4
	Mic. Adj.			M100P				4	15	TC22								
PA17	Vol.		16	MR39				8, 8, 8, 8	3	RS213	B3				5	58, 56, [2]B6, 5Z3		5-1
	Phono.		‡	MR33				20-20	15	TC26								
PA42	Vol.		16	MR33				8-8	1	See Note	B3				4	79, [3]42, 82		5-1
	Phono.		63	MR18				20	‡	TC26								
	Tone		34	MR18				4	15	TC22								
WR85	Vol.		15	MR53				8-8-8	3	See Note	B3				5	58, 56, [2]A5, 80		2-3
	V.R.		‡	Order from	Mfr.			8	13	TC71								
	P.E. Adj.		‡	M50MP														
	Tone		‡	‡		See Note	A5											
WELLS-GARDNER & CO.—	"Gulbransen"		"True tone"—(See		Trade	Names)												
A1	Vol.	36X235	75	MR48	M26			44X31	23	RS215					8	6J7, 6K7, 6H6, 6C5,		
	Tone	40X223	34	MR42				44X35	23	RS223						6G5, 6F5, 6F6, 5Y3,		
																or glass equivalents	456	9-14,16
A2	Vol.	36X236	45	MRT428	M26			44X30	25	RS216					11	[3]6K7, [3]6J7, [3]6C5, 6H6,		
	Tone	40X224	34	MR53				44X11	25	RS216						6G5, [3]6F6, 5Y3, or		
								45X223	13	TC52						glass equivalents	456	9-21,23
								45X222	19	TC26								
A3	Vol.	36X238	15	MRT450	M26			44X21	25	RS223					13	[3]6K7, 6J7, [3]6C5, 6H6,		
	Tone	40X225	41	MR55				44X36	25	RS224						6G5, [3]6L6, [3]5Y3	456	9-17,20
								45X224	19	TC26								
A4	Vol.	36X235	18	MR48	M26			44X31	23	RS215					7	6J7, 6K7, 6C5, 6Q7,		
	Tone	40X223	34	MR39				44X35	23	RS223						6G5, 6F6, 5Y3G	456	9-25
A5	Vol.	36X236	75	MRT428	M26			44X10	23	RS216					9	[3]6K7, 6J7, 6C5, 6G5,		
	Tone	40X223	34	MR39				44X11	23	RS216						6H6, 6F5, 6F6,		
																5Y3G	456	9-27
A6	Vol.	36X238	15	MRT450	M26			44X21	25	RS223					13	[3]6K7, 6J7, [3]6C5, 6H6,		
	Tone	40X225	41	MR55				44X36	25	RS224						6G5, [3]6L6, [3]5Y3	456	9-17,20
								45X224	19	TC26								
A7	Vol.	36X236	18	MRT428	M26			44X10	12	RS216					9	[3]6K7, 6J7, 6C5, 6H6,		
	Tone	40X223	95	MR42				44X11	12	RS216						6G5, 6F5, 6F6,		
																5Y3G	456	14-5-7
A8	Vol.	36X227	18	UM154	M26		A96	44X31	23	HD684					6	6A8, 6K7, 6Q7, 6F6,		
								44X32	23	RS216						6G5, 5W4	456	10-25
A10	Vol.	36X243	18	MR48	M26			44X37	23	RS219					7	6A8G, 6U7G, 6Q7G,		
	Tone	40X227	34	MR39				44X38	23	RS224						6K6G, 6J5G, 6U5,		
																5Y3G	456	10-27,28
A11	Vol.	36X244	71	UM120-SS18	M26			45X237	1/15	3N527					4	[3]6J7, 25L6G, 25Z6G,		
								45X242	1/15	Order from	Mfr.					L55B	456	
A12	Vol.	36X245	20	TM247-SS25				44X30	25	RS216					11	[3]6U7G, [3]6J7G, [3]6J5G,		9-36,38
	Tone	40X228	‡	MK402				44X36	25	RS224						6U5, 6H6, [3]6F6G,		and
								45X238	1‡	TC29						5Y3G	456	10-31,32
A13	Vol.	36X249	127	UM165-SS25	M26			44X37	23	RS219					7	6A8G, 6U7G, 6Q7G,		
	Tone	40X229	34	UM144-SS25				44X38	23	RS224						6J5G, 6K6G, 6U5,		
																5Y3G	456	10-33,34
A14	Vol.	36X250	20	TM247-SS25	M26			44X39	23	RS219					11	[3]6U7G, [3]6J7G, 6J5G,		
	Tone	40X228	‡	MK402				44X40	23	RS224						6H6, 6U5, 6F5G,		
								45X239	15	TC22						6K6G, 5Y3G	456	9-39,40

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WELLS-GARDNER & CO.—Continued																		
A15	Vol.	36X249	127	UM165-SS25	M26			44X37	23	RS219					7	6A8G, 6U7G, 6J5G,		
	Tone	40X229	34	UM144-SS25				44X38	23	RS224						6U5, 6Q7G, 6K6G, 5Y3G	456	10-35,36
A16	Vol.	36X253	20	MRT450				44X21	25	RS223					13	[3]6U7G, 6J7G, 6H6,		
	Tone	40X232	21	Order from	Mfr.			44X36	25	RS224						6J5G, 6F8G, 6U5, [4]6F6G, 5U4G	456	10-37-39
								44X244	19	TC39								
								45X239	15	TC22								
A17	Vol.	36X251	45	UM163-SS22	M26			44X39	4	RS219					11	[3]6K6, 6C6, [4]76, 6U5, [3]41, 80	465	
	Tone	40X230	...‡..	UM161-SS22	.....See Note A100			44X40	4	RS224								
								45X239	15	TC22								
A20	Vol.	36X255	17	TM247-SS25	M26			44X41	23	RS219					9	6A7, 6D6, [3]76, 75,		
	Tone	40X235	22	UM165-SS25				44X42	23	RS224						6U5, [3]41, 80	456	10-41,42
								45X247	13	TC40								
								45X239	15	TC22								
A22	Vol.	36X255	17	TM247-SS25	M26			44X41	23	RS219					9	6A7, 6D6, 75, [3]76,		
	Tone	40X235	22	UM165-SS25				44X42	23	RS224						6U5, [3]41, 80	456	
								45X247	13	TC70								
								45X239	15	TC22								
A23	Vol.	36X256	76	MR48	M26			44X42	23	RS224					7	6A7, 6D6, 75, 76,		
	Tone	40X238	76	MR57				44X41	23	RS219						6U5, 41, 80	456	10-45
A24	Vol.	36X255	17	TM247-SS25	M26			44X43	23	RS219					9	6A7, 6D6, 75, [3]76,		
	Tone	40X235	22	UM165-SS25				44X44	23	RS224						6U5, [3]41, 80	456	
								45X247	13	TC70								
								45X239	15	TC22								
B1	Vol.	36X237	18	MR53	M27			4	12	TC52					4	1D7G, 1D5G, 1H6G, 1F5G	456	10-9
	Fil.	43X70	27	C6R														
B2	Vol.	36X239	45	MR53	M26			45X225	13	2N516					7	1C7G, 1D5G, [4]1H4G, 1E5G	456	
	Tone	40X226	44	MR42														
B2A	Vol.	36X239	18	MR53				45X225	13	2N516		19A28	246	C3	7	1C7G, 1D5G, [4]1H4G,		
	Tone	40X226	44	MR42				45X234	1	2N514						1E5G	456	10-13,14
								45X233	...‡..	Order from	Mfr.							
								.02		Buffer	.B14							
B3, B4	Vol.	36X258	18	MR48	M27			45X250	12	TC52					5	1A7G, [3]1N5G, 1H5G, 1C5G	456	
C6	Vol.	36X248	15	MR55	M26			45X236	24	TCS64/TC22			952W	C3	5	6A8G, 6U7G, 6H6,		
								45X239	15	TC22						6F5G, 6K6G	456	9-31
								.018		Buffer	.B14							
C7	Vol.	36X246	17	UM163	M26		A96	45X235	1	2N518		19A33	952W	C3	6	[3]6U7G, 6J7G, 6B8G,		
								45X240	13	TC70						6K6G, 6N7G	175	
								45X239	15	TC22								
								.008		Buffer	.B14							
C11	Vol.	36X246	127	UM163			A96	45X235	1	2N518		19A33	248	C3	6	[3]6U7G, 6J7G, 6B8G,		
	Tone		22	UM163			A96	45X240	13	TC70						6K6G, 6N7G	175	10-29
								45X239	15	TC22								
								.008		Buffer	.B14							
C13, C14	Vol.	36X275	124	Order from	Mfr.			40-20-20	24/15	FP346		R19A33	248	C3	6	6SA7, [3]6SK7, 6B8G,		
	Tone	40X212	22	MR55				.008		Buffer	.B14					6K6G, 6N7G	456	
Federal Recorder & Record Changer	Vol.	36X292	15	MK403	M26			45X287	13/15	TC72/TC26					2	[3]6SJ7		14-15-17
0C Series (20C5)	Vol.	P96005	15	MR55	M26			P81039	2	RS216					10	[4]6D6, [3]76, [3]45, 80	456	5-1,2
	Tone	P97003	41	MR57				P81018	2/13	3S584								
0DM	Vol.	P36X206	7/15	DRP315	6T			44X10	4	RS216					10	[4]6K7, [3]76, [3]45, 80	456	7-1,3
	Tone	P40X205	41	MR57				44X11	4	RS216								
								44X18	13	RS213								
OEL	Vol.	P36X219	62	MRT447	M26			44X10	25	RS216					11	[4]6K7, [3]6C5, 6G5, [3]6F6,		
	Tone	P40X213	65	Order from	Mfr.			44X11	25	RS216						5Z4MG	456	8-1,4
								44X213	13/15	TC40/TC22								
OF Series	Vol.	P36X220	64	MRT447	M24			P45X214	12	3S582					10	[6]30, 32, [3]34	456	8-5,7
	Tone	P40X211	44	Order from	Mfr.													
OFLB	Vol.	P36X220	45	MRT447	M26			45X214	13	3S582			Order from Mfr.		11	[3]34, 32, 6N5, [6]30	456	
	Tone	P40X211	44	Order from	Mfr.			45X226	23	TCS45								
								45X228	...‡..	Order from	Mfr.							
								.01		Buffer	.B14							
00A	Vol.	P96009	62	MR53				80968	12	TC52					9	[3]34, [6]30, 10AB	175	4-1
	Tone	P97005	44	MR42														
00B	Vol.	P96011	15	MR55	M26			P80990	2	RS216					10	[4]58, [3]56, [3]45, 80	175	
	Tone	P97009	41	MR57				P81000	2/13	2N518								
S2	Vol.	36X249	17	UM165-SS25	M26			45X243	1/15	TCS64/TC22		19A28	246	C3	6	6D8G, [3]6S7G, 6T7G,		
	Tone	40X231	22	Order from	Mfr.			45X239	15	TC22						6AB5, 6G6G	456	
								.015		Buffer	.B14							
T1	Vol.	36X213	18	MR48	M26			45X227	12/15	TC39/TC22					7	6A8G, [3]6U7G, 6V7G,		
	Tone	40X209	44	MR36												6C5G, 25A6G, 6N7G	456	
T2	Vol.	36X252	17	UM165-SS25	M26			45X241	12/15	TC36/TC26					7	6A8G, [3]6U7G, 6V7G,		
	Tone	40X229	41	UM144-SS25												25A6G, 6J5G, 6N7G	456	10-15,16
T3	Vol.	36X252	17	MR57	M26			45X241	12/15	2N514					7	6A8G, [3]6U7G, 6V7G,		
	Tone	40X229	41	UM147-SS25												6J5G, 25A6G, 6N7G	456	10-17,18
02A	Vol.	P96008	17	MR55	M26			P80984	2/13/14	3S584/TC71/TC42	.B164				12	[4]58, 55, [3]56, [3]45, 82	175	4-2
	Tone	P97006	41	MR57														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WELLS-GARDNER & CO.—Continued																		
02AA	Vol.		17	MR55	M26			P80984	2/13/14	3S584/TC71/TC42	B164				12	‡58, 55, ‡45, ‡56, 82	175	
	Tone		41	MR57														
022	Vol.		45	MR36				8	58	TC82					12	‡58, ‡56, ‡57, ‡46, 82	175	4-10
	Tone		41	MR42				8	58	RS213								
	Supp.	91032	8	E				4	58	RS213								
								4	19	TC40								
05A	Vol.	P91019C	6	MR18	M26	EX300		P80944	11	UR182					5	‡77, 78, 43, 25Z5	262	4-3
								80878C	19	TC40								
								80936C	15	TC22								
05AA	Vol.	P91019D	6	MR21	M26			80944E	11	2N509/TC44					5	6C6, ‡6D6, 43, 25Z5	262	4-4
05BA	Vol.	P91019D	6	MR21	M26			80944E	11	2N509/TC44					5	6C6, ‡6D6, 43, 25Z5	262	4-5
052 Series	Vol.		6	MR21	M26	EX300		8-8	4	TCS71					5	‡57, 35, 47, 80	262	2-1
06A	Vol.	P96001	97	TRP602	14			P80968	12	TC52					5	32, ‡34, 19, 30	175	4-6
06W	Vol.	P91061	18	UM154	M26		A96	P80939	2	3S584	B8	P1765	Order from Mfr.		6	‡78, 77, 85, ‡41	262	4-7,8
	Tone	P91013	44	MR42				P80937	14/15	2N516								
								.01		Buffer	B14							
06Z	Vol.	P91066	17	UM154	M26		A96	P80956	25/19	RM262/TC26	B126	P1926	292	C12	6	‡78, 77, 75, 41, 84	262	
								P80937	14/15	2N516								
								.02		Buffer	B14							
062 (Auto Set)	Vol.		45	MR48				4	13	TC52			Order from Mfr.		6	‡39, 37, 36, 38	262	3-1
								4	15	TC32								
062A	Vol.		45	UM154			A96	4	13	TC52			Order from Mfr.		6	‡39, 36, 37, 41	262	5-8
								4	15	TC32								
07A	Vol.		15	MR53	M26			P80990	25	RS216					7	‡6D6, 6C6, ‡37, 42, 80	175	4-9
	Tone		22	MR42				P80916	25	RS213								
072	Vol.		18	MR48				P80902	13/15	See Note	B3		Order from Mfr.		7	‡39, 36, 37, ‡38	262	
	Tone		44	MR42														
073	Vol.		15	MR48				4	13	TC40					7	‡36, ‡39, ‡41	175	4-11
	Tone		22	MR33														
092 Series Battery	Vol.		45	MR48				P80878C	12	TC40					9	‡34, ‡30	175	3-2
	Tone		22	MR42														
1A17	Vol.		15	UM163			A96	20	23	RS219					11	‡6D6, 6C6, ‡76, ‡41, 6U5, 80	456	11-1
	Tone		22	UM165			A96	40	23	RS224								
1A29 Early	Vol.		124	2 Meg.			A19	10	15	TC22								
	Noise		7	UM120		See Note	A96	14	23	RS216					11	‡6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, ‡6V6G, 5Y3G, 6U5	456	11-3,4
								40	23	RS224								
								10	13	TC62								
								10	15	TC22								
1A29 Issue D	Vol.		124	2 Meg.			A19	14	23	RS216					11	‡6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, ‡6V6G, 5Y3G, 6U5	456	11-5,6
	Noise		7	UM120		See Note	A96	40	23	RS224								
								10	13	TC62								
								10	15	TC22								
1A62-4 (1A62 Series)	Vol.	36X320	124	MK401	M26			45X322	4	TC75/TC78					11	‡6SK7, 6SJ7, 6J5GT, 6U5, ‡6SQ7, ‡6K6GT, 5Y3G	456	13-1,2
	Tone	40X269	22	Order from	Mfr.													
1A63-3, 1A63-4 (1A63 Series)	Vol.	36X320	124	MK401	M26			45X322	.4	TC75/TC78					11	‡6SK7, 6SJ7, 6J5GT, 6U5, ‡6SQ7, ‡6K6GT, 5Y3G	456	13-3,4
	Tone	40X270	22	Order from	Mfr.													
2B Series (22B5)	Vol.	P96005	15	MR55	M26			P81058	2	RS216					11	‡6D6, ‡76, ‡42, 80	456	6-1,3
	Tone	P97011	21	MR42				P81039A	2	RS216								
								P81056	13	2N518								
								P82000	19	TC36								
2CM	Vol.	36X210	7/15	DRP315	6			P44X21	25	RS223					12	‡6K7, ‡76, ‡6F6, ‡80	456	7-4,6
	Tone	40X206	21	MR57				P44X11	25	RS216								
2DL	Vol.	P36X221	20	MRT450	M26			P44X20	19	Order from	Mfr.							
	Tone	P40X214	65	Order from	Mfr.			44X21	30	RS223					13	‡6K7, 6H6, ‡6C5, ‡6L6, ‡5Z4MG, 6G5	456	7-7,9
								44X11	30	RS216								
								44X216	13	TC40								
								44X209	19	TC22								
5A25S	Vol.	36X268	18	MR48	M26			45X255	1/15	3N527					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	11-11
	Tone	40X245	21	MR57				45X259	1	2N511/TC26								
5B	Vol.	P91019C	6	MR18	M26	EX300		P80944	11	UR182					5	‡77, 78, 43, 25Z5	262	4-12
								P80878C	19	TC40								
								P80936C	15	TC32								
5C6	Vol.	36X248	15	MR55	M26			45X236	24/15	TCS64/TC22			952W	C3	5	6A8G, 6U7G, 6H6, 6F5G, 6K6G	456	
5D Series	Vol.	P96019	6	MR21	M26			.018		Buffer	B14							
								P82004	23	RS215					5	6C6, ‡6D6, 42, 80	456	6-4,5
5E Series (25E1, 25E5)	Vol.	P96001	97	TRP602	14			P82003	23	RS213								
5F, 5FL	Vol.		18	MR48				P80968	12	TC40					5	‡32, ‡34, 30, 19	175	5-3,4
								12	23	RS215					6	6A8, 6K7, 6Q7, 6G5, 6F6, 5W4	456	8-8,10
5G Series (35G510, 35G560)	Vol.	36X201	97	TRP617	14			16	23	RS216								
5 Tube D. C. Model	Vol.	P90928	6	MR21			A14	P45X28	12	TC40					5	‡32, ‡34, 30, 19	175	6-6,8
	Tone	P90920	21	MR53											5	‡24A, ‡01A, 71A		
Series 5H	Vol.	36X226	18	MR53	M26			45X218	46	TN129		19A28	246	C3	5	1C6, ‡34, 1B5, 1F4	456	8-11,13
								.01		Buffer	B14							
5K, 5KL	Vol.		18	MB48				12	23	RS213					6	6A8, 6K7, 6Q7, 6G5, 6F6, 5W4	456	8-14,16
								16	23	RS216								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WELLS-GARDNER & CO.—Continued																		
5Y Series (25Y1)	Vol.	P96017	17	MR55	M26			P82002	1/15	2N516/TC22			286S	C3	5	[36]D6, 6C6, 75, 41	175	6-9,11
								.007		Buffer	B14		G286S	C16				
6A44	Vol.	36X280	18	MK401	M26			45X277	4	TC78 /TC75					6	6SA7, [3]6SK7, 6SQ7, 6V6GT, 5Y3G	456	14-1,2
	Tone	40X248	21	UM165-SS25				45X293	13	TC52								
6A65-3, 6A65-4 (6A65 Series)	Vol.	36X280	18	MK401	M26			45X277	4	TC78 /TC75					6	6SA7, [3]6SK7, 6SQ7, 6V6GT, 5Y3G	456	13-10,11
	Tone	40X248	21	UM165-SS25			A36											
6B Series (26B1, 26B5)	Vol.	P96014	56	MR48				P81016	23	2S567		P2153	F294	C3	6	6F7, 6D6, 6B7, 12A5, [2]12Z3	175	6-12,14
	Tone	P97011	34	MR42				.015		Buffer	B14							
6B10	Vol.	36X286	18	MK401	M27			45X283	76/13	TN129					6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	12-3,4
								45X284	76/78	FP304	B3							
6B16	Vol.	36X299	18	MK401				45X297	46	TN129					6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	14-3,4
								45X283	46	TN129	B12							
								45X284	78	FP304	B117							
6B18	Vol.	36X299	18	MK401				45X297	46	TN129					6	1A7GT, [2]1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	13-5,6
								45X301	78	FP304	B117							
								45X283	46	TN129	B12							
								45X284	78	FP304	B117							
6C Series	Vol.	P96018	17	MR55				P81042	23	RS215					6	[36]D6, 6A7, 42, 6B7, 80	456	6-15,17
	Tone	P97014	34	MR42				P81043	23	RS216								
								P81003	15	TC22								
6C1	Vol.	36X234	18	UM147-SS3	M26			45X210	4	TC571		19A25	294	C3	6	[36]D6, 6C6, 75, 41, 84	175	8-17,19
	Tone	40X207	22	MR42				.0075		Buffer	B14							
6C7	Vol.	36X246	127	UM163	M26		A96	45X235	1	2N518			248	C3	6	[36]U7G, 6K8G, 6K6G, 6N7G	175	
								45X240	...‡..	TC70								
								.008		Buffer	B14							
6C17	Vol.	36X296	18	UM154-SS3	M26			40-20-20	24/15	See Note	B3	19A37	Order from Mfr.		6	[36]SK7, 6SA7, 6SQ7, 6K6GT, 6X5GT or 6X5	456	13-7,8
								.0055		Buffer	B14							
6C18	Vol.	36X298	18	TM227-SS3	M26			45X294	24/15	Order from	Mfr.	19A33	248	C3	6	[36]SK7, 6SA7, 6SQ7, 6K6GT, 6N7	456	13-9,8
	Tone	40X257	22	MK403														
6D	Vol.	36X213	18	MR48	M26			25	12	TC36					6	[36]D6, 6A7, 85, 43, 6A6	175	7-10,11
	Tone		44	MR36				30	13	RS207								
								12	15	TC22								
6F	Vol.		7/15	Order from	Mfr.			P44X22	3	RS223					16	[4]6K7, [3]76, 6B7, 6F7, [4]2A3, 45, [5]5Z3	456	7-12,17
	Tone		34	MR53				P44X23	13	RS224								
								P45X205	13/‡	2N518/TC44								
								P44X26	13	TC62								
6G	Vol.	36X218	18	MR53	M24			45X212	12	TC40					6	1C6, 34, 1B5, [3]30	456	7-18,19
6J	Vol.	36X233	56	Order from	Mfr.			45X219	1/15	3S579		19A30	248	C3	6	[36]K7, 6J7, 6B7, 41, 6A6	175	9-33,34
	Tone	40X212	22	MR53				.0055		Buffer	B14							
6K	Vol.	36X217	56	Order from	Mfr.			E45X211B	1/15	TCD72/TC22		19A26	248	C3	6	[36]K7, 6J7, 6B7, 41, 6A6	175	7-20,21
	Tone	40X212	22	MR53				.005		Buffer	B14							
6L	Vol.	36X216	18	UM154-SS3	M26			45X210	4	TC571		19A25	294	C3	6	[36]D6, 6C6, 75, 41, 84	175	7-22,23
	Tone	40X207	22	MR42				.0075		Buffer	B14							
6N, 6R	Vol.	36X200	17	UM163-SS3	M26			E45X206C	4/15	3S579		19A25	294	C3	6	[36]D6, 6C6, 75, 41, 84	175	7-24,28
	Tone	40X207	34	MR42				.0075		Buffer	B14							
6S (26S1)	Vol.	36X200	17	UM163-SS3	M26			45X204	1	2N518			253	C3	6	[36]D6, 6C6, 75, 41, 84	175	8-20,22
	Tone	40X201	22	MR44				45X203	15	TN111								
								.01		Buffer	B14							
6 Tube 32 Volt	Vol.		56	MR48				P81016	23	TCS71			F294	C3	6	6F7, 6D6, 6B7, 12A5, [2]12Z3	175	
	Tone		34	MR42				.015		Buffer	B14							
6U Series (26U1)	Vol.	P96015	18	UM147-SS3	M26			P81028	1	2N518		2080	253	C3	6	[3]78, 77, 75, 41, 84	262	5-5,7
	Tone	P97012	22	MR42				P81021	15	TN111		2110	253	C3				
								.01		Buffer	B14							
7A66-2 (7A66 Series)	Vol.	36X280	18	MK401	M26			45X277	4	TC78 /TC75					7	6SJ7, 6J5GT, [3]6SK7, 6SQ7, 6V6GT, 5Y3G	456	13-12,13
	Tone	40X248	21	UM165-SS25			A36											
7C Series (27C1, 27C5)	Vol.	P96012	45	MR53				P81014	12	TCS55					7	[3]34, [3]30, 19	175	6-18,19
7C15	Vol.	36X275	124	Order from	Mfr.			45X271	24/15	FP346	B3	19A33	248	C3	7	[3]6SK7, 6SA7, 6SQ7, 6K6G, 6N7G	456	12-12-14
	Tone	40X212	22	MR53				.008		Buffer	B14							
7D Series (27D1, 27D5)	Vol.	P96014	56	MR48	M26			P81043	4	RS216	B10				7	76, [3]6D6, 6B7, 42, 80	456	5-9,10
	Tone	P97011	34	MR42				P81042	4	RS216	B10							
								P80916	4	RS213								
								P81032	4	RS213								
7D11-3 (7D11 Series)	Vol.	36X309	18	TM227-SS25	M26			30-20-30-20	46/15	2N513/2N509					7	12SJ7, 6L5G, [2]12SK7, 12SQ7, 35L6GT, 35Z5GT	456	13-14,15
	Tone	40X267	21	UM165-SS25														
7E	Vol.	36X209	45	MR53	M27			P44X17	40	RS207					7	[3]34, 1C6, [3]30, 19	456	8-23,26
	Tone	40X203	44	MR42														
7F, 7FL	Vol.	36X215	17	MRT446	M26T			44X10	23	RS216					8	[3]6K7, 6C5, 6Q7, 6G5, 6F6, 5Z4MG	456	8-27,29
	Tone	40X211	34	Order from	Mfr.			44X11	23	RS216								
								45X209	15	TC22								
7GM Series (37G508, 37G566)	Vol.	36X204	7/56	DRP314	6T			44X10	23	RS216					7	[3]6K7, 6B7, 6F6, 76, 80	456	6-21,23
	Tone	40X203	34	MR42				44X11	23	RS216								
7H Series (37H508, 37H566)	Vol.		45	MR53	M24			20	12	TC47					7	[3]34, 1C6, [3]30, 19	456	6-24,26
	Tone		44	MR42														

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WELLS-GARDNER & CO.—Continued																		
7J	Vol.	36X205	56	MR48	M26			44X11	23	RS216					7	[3]6D6, 6B7, 76, 42, 80	456	8-30,32
	Tone	40X204	34	MR42				44X10	23	RS216								
7K	Vol.		7/56	DRP314	6			44X10	23	RS216					7	[3]6K7, 76, 6B7, 6F6, 80	456	7-29,31
	Tone		34	MR42				44X11	23	RS216								
7L	Vol.	36X215	17	MRT446	M26T			44X10	23	RS216					8	[3]6K7, 6C5, 6Q7, 6F6, 6G5, 5Z4MG	456	8-33,34
	Tone	40X211	34	Order from Mfr.				44X11	23	RS216								
								44X209	15	TC22								
7P	Vol.	36X213	18	MR48	M26			45X217	12/15	2N513					7	[3]6K7, 6A8, 6A6, 85, 43	456	
	Tone	40X209	44	MR36														
7Q	Vol.	36X222	45	MR53	M27			P45X215	1/13	TN129		19A27	Order from Mfr.		7	[3]34, 1C6, [3]30, 19	456	
	Tone	40X215	44	MR42				P44X17	1	RS207								
								.01		Buffer	B14							
7T5-4	Vol.	36X319	17	UM165-SS25	M26			45X262	13/15	2N513					7	6SA7, [3]6SK7, 6J5G, 6V7G, 25A6G, 6N7G	456	13-15,16
	Tone	40X263	41	UM144-SS25				45X250	13	TC52								
8A30	Vol. & Tone	36X241	124	Order from Mfr.				20	23	RS219					8	[3]6SK7, 6SA7, 6SQ7, 6V6G, 6U5, 5Y3G	456	11-19,20
								40	23	RS224								
8A31	Vol.		124	‡			A19	20	23	RS219					8	[3]6SK7, 6SA7, 6SQ7, 6V6G, 6U5, 5Y3G	456	11-21,22
	Tone		22	UM165			A96	40	23	RS224								
8A51-3, 8A51-4	Vol.	36X303	140	TM233-SS25	M26			45X277	4	TC78 /TC75					8	6SJ7, 6J5GT, 6U5, [3]6SK7, 6SQ7, 6V6GT, 5Y3G	456	13-17,18
	Tone	40X259	140	UM165-SS25														
8T (AC)	Vol.		2/7	GG				‡	‡	See Note	B1				5	24A, [2]7, 45, 80		
	Tone		41	MR53														
9 in Line	Vol.	P917	1/15	Order from Mfr.				2-1-1-1.5	3	See Note	B1				9	[3]26, 24A, [3]45, 80		
9B Series (29B5)	Vol.	P96016	15	MR55				P82001	24	2N516					9	[4]34, [4]30, 19	456	5-11,13
	Tone	P97013	41	MR33														
9C	Vol.		15	MR55				P82001	13	2N516					9	[4]34, [4]30, 19	456	7-32,34
	Tone		44	MR42														
10-7 Tube Super	Vol.		7	F		2		80848	23	RS213					7	[3]35, [3]24A, 47, 27, 80	175	
	Tone		103	MR53	M26			80849	23	RS213								
20 Series	Vol.		78	MR48				8, 8, 8	30	RS213					10	[4]35, [3]27, [3]47, 80	175	
	Tone		41	MR55	M26													
20C5	Vol.	P96005	15	MR55	M26			P81039	2	RS216					10	[4]6D6, [3]76, [3]45, 80	456	5-1,2
	Tone	P97003	41	MR57				P81018	2/13	3S584								
27D	Vol.	P96014	17	MR48	M26			P80916	23	RS213					7	[3]6D6, 6B7, 76, 42, 80	456	
	Tone	P97011	34	MR42				P81043	23	RS216	B20							
29B	Vol.	P96016	15	MR55				P82001	12/13	2N516					9	[4]34, [4]30, 19	456	9-45
	Tone	P97013	44	MR33														
40	Vol.		111	Y5MP				P80896	30	3S584					8	[3]35, [3]24A, 47, 27, 80	175	5-15,16
	Tone		34	MR42				P80878	13	TC40								
40A	Vol.		14	MR48				P80896	30	3S584					8	[3]35, [3]24A, 47, 27, 80	175	5-15,16
	Tone		34	MR42				P80878	13	TC40								
50	Vol.		‡	A400P				P80196	4	RS213					7	[3]35, [3]24A, 47, 80	175	4-15
	Tone		34	MR42				P80878C	13	TC40								
51A2	Vol.	36X236	75	MRT428	M26			44X11	25	RS216					11	[3]6K7, [3]6J7, 6H6, [3]6C5, 6G5, [3]6F6, 5Y3G	456	
	Tone	40X224	34	MR53				44X30	25	RS216								
								45X222	19	TC26								
								45X223	13	TC40								
53A3	Vol.	36X238	20	MRT450	M26			44X21	25	RS223					13	[3]6K7, 6J7, 6H6, [3]6C5, 6G5, [3]6L6, [3]5Y3G	456	
	Tone	40X225	41	MR55				44X36	25	RS224								
								45X224	19	TC26								
57A4	Vol.	36X235	18	MR48	M26			44X31	23	RS215					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	
	Tone	40X223	34	MR39				44X35	23	RS224								
59A5	Vol.	36X236	45	MRT428	M26			44X10	23	RS216					9	[3]6K7, 6J7, 6C5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456	
	Tone	40X223	34	MR39				44X11	23	RS216								
60, 63	Vol.	90942C	97	Order from Mfr.				P80849	25	RS213					6	[4]24A, 45, 80		
								P80848	25	RS213								
72	Vol.		6	MR21				‡	‡	See Note	B1				7	[3]24A, 27, [3]45, 80		1-3
	Tone		41	MR53														
80, 82A	Vol.	90918	2/7	GG				‡	‡	See Note	B1				8	[3]24A, [3]27, [3]45, 80		1-4
	Tone		41	MR53														
80A, 82	Vol.	P90966	‡	D	6			‡	‡	See Note	B1				8	[3]24A, [3]27, [3]45, 80		
	Tone	P90920	41	MR53														
88A9	Vol.	36X235	75	MR48	M26			44X37	23	RS219					8	6J7, 6K7, 6H6, 6J5, 6G5, 6F5, 6F6, 5Y3G	456	
	Tone	40X223	34	MR39				44X38	23	RS224								
90, 91, 92, 93	Vol.		4	Order from Mfr.				4	12	TC40					5	[4]32, 33	175	5-14
161, 162	Vol.	90942C	97	Order from Mfr.				P80849	25	RS213					6	[4]24A, 45, 80		
								P80848	25	RS213								
200, 291, 292, 295	Vol.		1/15	Order from Mfr.				2-1-1-1.5	3	See Note	B1				9	[3]26, 24A, [3]45, 80		
322	Vol.		45	MR36				8	30	HD682					12	[4]58, [3]56, [3]57, [3]46, 82	175	
	Tone		41	MR42				8	30	RS213								
	Supp.		8	E				4	30	RS213								
								4	19	TC40								
352 Series	Vol.		6	H7	6	3		8-8	4	TCS71					5	[3]57, 35, 47, 80	175	
502	Vol.		15	MR48	M26			P80923A	30	3S584					10	[3]58, [3]57, [3]56, [3]47, 80	175	4-16
	Tone		21	MR53				80873	30	TC71								
								80878C	13	TC40								

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WELLS-GARDNER & CO.—Continued																		
572 (AC)	Vol.	P91041	‡	X				80894B	4	TCS71					7	[2]58,[2]57, 47, 80	175	3-3,4
	Tone	P90993	34	MR42				80891B	13	TC40								
872 Series	Vol.		‡	X				80894B	4	TCS71					7	[2]58,[2]57, 47, 80	175	
	Tone		34	MR42				80891B	13	TC40								
C-CG (1st and 2nd types)	Vol.	P917	60/15	DRP243		See Note	A4	2-1-1-1	59	See Note	B1				9	[2]26, 24A,[2]45, 80		1-1
	Vol.	P911	2	E12		See Note	A27											
V6Z2, Z6Z1	Vol.	P91066	17	UM154	M26		A96	P80956	25/19	RM262/TC26	B125	P1804	292	C12	6	[2]78, 77, 75, 41, 84	262	4-13,14
								P80937	14/15	2N516								
								.02		Buffer	B14							
WESTERN AIR PATROL																		
5-Tube 3-Dial (209)	Vol.		9	Y200MP											5	[4]01A, 71		
	Fil.		29	M60R														
Model 100 D. C. (W215)	Vol.		6	MR18		See Note	A14	2-2-2	3	See Note	B1				8	[6]27, 45, 80		
Model 100 D. C. (W216)	Vol.		7	MR34				2-2-4	3	See Note	B1				8	[2]27,[2]71, 80		
80 Midget (W184)	Vol.		3	MR21	M26			2-2-4	3	See Note	B1				7	[4]26, 27, 71A, 80		
80 Console (W185)	Vol.		3	MR21	M26			2-2-4	3	See Note	B1				7	[4]26, 27, 71A, 80		
80 Console (W186)	Vol.		3	MR21	M26			2-2-4	3	See Note	B1				7	[4]26, 27, 71A, 80		
80 Power Pack								2-2-4	3	See Note	B1					80		
90 A. C. (W170)	Vol.		6	A		See Note	A14	2-2-4	3	See Note	B1				8	[2]27, 24, 45, 80		
70 (W172)	Vol.		6	‡		See Note	A3	8-8	1	2N518					7	[2]24,[2]27, 45 or 71A, 80		
	Tone		22	‡		See Note	A3											
40 (W187)	Vol.		8	‡		See Note	A3	8-8	1	2N518					7	[2]35,[2]27, 47, 80		
	Tone		22	MR39				10	17	TC22								
60 Console (W188)	Vol.		7	H	6		A14	8, 8	1	ST595					9	[2]51, 24,[2]27,[2]47, 80		
25 Midget (W159)	Vol.		6	F7				4-8	23	2S567					4	58, 57, 47, 82		
	Tone		22	MR18														
25SW Police (W152)	Vol.		6	F7				8-4	23	2S567					4	58, 57, 47, 82		
	Tone		22	MR18														
44 (W157)	Vol.		15	MR48	M26			8-4	1	See Note	B3				7	57,[2]58, 56, 55, 59, 82	262	
	Tone		22	MR42				10	15	TC22								
46 Console (W151)	Vol.		127	MR48	M26			8-8	35	See Note	B3				10	[2]57,[2]58, 55,[2]56,[2]59, 82	262	
	Tone		22	MR42				4	19	TC40								
	Sil.		‡	MR42														
46 Console, No. 46 Power Tubes	Vol.		15	MR48	M26			4-8-4	3	See Note	B3				10	55,[2]56,[2]58,[2]46, 83, 57	262	
46 Console, No. 59 Power Tubes	Vol.		15	MR48	M26			8-8	35	See Note	B3				10	55,[2]56,[2]57,[2]58,[2]59, 82	262	
	Tone		22	MR42				4	19	TC40								
	Supp.		‡	MR42														
49 Console (W158)	Vol.		15	MR48	M26			8-4	1	See Note	B3				7	57, 56, [2]58, 55, 59, 82	262	
	Tone		22	MR42				10	15	TC22								
30 Table Type (W202)	Vol.		6	MR18				4, 4	23	ST595					4	57, 58, 2A5, 80		
31 Super Table Type (220)	Vol.		6	E12				4-4	23	2S567					4	2A7, 57, 2A5, 80		
	Tone		22	MR33														
32 Super (W219)	Vol.		56	MR48				8-4	23	See Note	B3				5	57, 58, 55, 2A5, 80		
	Tone		22	MR18														
J8 (W435)	Vol.		7	MR34		EX150		21632	11	[2]TC55/TC77					6	[2]6D6, 6A7, 75, 43, 25Z5	175	
	Tone		22	MR33														
S10 Motorola	Vol.		83	MR48				8-8-12	3	See Note	B3				8	[2]78, 77, 85, 56,[2]45, 83	175	
	Tone		21	MR33				25	15	TC26								
	Sen.		7	MR34		EX300												
35 Console (W225)	Vol.		56	MR48	M26			8-4	23	See Note	B3				5	57, 58, 55, 2A5, 80	175	
	Tone		22	MR18														
37 (W221)	Vol.		15	MR48	M26			8-8	1	See Note	B3				7	55, 56, 57, [2]58, 59, 80	262.5	11-1
	Tone		22	MR42				10	15	TC22								
51 (W404)	Vol.		6	G7	6			6-4	1	See Note	B3				4	6A7, 6F7, 42, 80	‡	
	Tone		22	MR33				10	15	TC22								
79 8-Tube Console (W224)	Vol.		‡	MR48	M26			8-8	1	See Note	B3				8	55, 56, 57, [2]58, [2]59, 5Z3	262.5	12-9
	Tone		22	MR42														
	Sen.		8	UC500														
79 7-Tube Console (W224)	Vol.		15	MR48	M26			8-8	1	See Note	B3				7	55, 56, 57,[2]58, 59, 82	262.5	12-8
	Tone		22	MR42				10	15	TC22								
79 10-Tube Console (W224)	Vol.		127	MR48	M26			4-8-8	35	See Note	B3				10	[2]57,[2]58, 55, 53, 56,[2]59, 80	262.5	12-10
	Tone		22	MR42				4	‡	TC40								
PR10 (W403)	Vol.		7	D	6			8, 8	35	RS213					10	[2]55,[2]57,[2]58, 59, 5Z3	467.5	11-2
	Sen.		7	C1MP				10	15	TC22								
	Meter		26	C1MP														
	Gain		15	MR48														
17 (W405)	Vol.		6	G7				4-4	23	See Note	B3				4	58, 57, 2A5, 80		
19 (W410)	Vol.		113	G7		EX300	A14	4-4	23	See Note	B3				5	57, 58, 56, 2A5, 80	458	
20C5 (W416)	Vol.	P96005	15	MR48	M26			P81039	2	RS216					10	[6]6D6,[2]76,[2]45, 80	456	11-5,6
	Tone	P97003	41	MR57				P81018	2/13	3S584								

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTERN AIR PATROL—Continued																		
28 (W405)	Vol.		18	MR48	M26			4-8	23	See Note	B3				5	57, 58, 2A6, 2A5, 80	175	
	Tone		22	MR33														
36 (W407)	Vol.		15	MR48	M26			8-8	4	See Note	B3				6	2A7,‡58, 55, 2A5, 80	262.5	
	Tone		22	MR33				10	15	TC22								
48 (W408)	Vol.		15	MR48	M26			8-8	4	2S567					6	‡2A5,‡58, 55, 80	262.5	
	Tone		22	MR33				10	15	TC22								
15A (W417)	Vol.		6	H7				4, 4	23	ST595					4	58, 57, 2A5, 80		
18 (W418)	Vol.		6	G7		See Note	A14	4, 4	23	ST595					4	58, 57, 2A5, 80		
25E1 (W409)	Vol.	P96001	97	TRP602	14										5	32,‡34, 30, 19	175	
29 (W414)	Vol.		18	MR48	M26			8	23	TC71					5	57, 58, 2A6, 2A5, 80	175	
	Tone		22	MR33				4	23	TC70								
38 (W415)	Vol.		18	MR44	M26			8-4	1	2N518					5	6A7, 78, 75, 42, 80	460	
								10	19	TC22								
175AW (W421)	Vol.		15	MR53				16	1	RS216					7	6A7, 6D6, 6B7, 6A6,		
	Sen.		7	‡		See Note	A5	8	1	RS213						‡42, 80	‡	
								10	15	TC22								
185AW (W411)	Vol.		18	MR48	M26			8-8	1	2N518					8	‡6D6, 6A7, 76, ‡42, 80	432	
	Tone		149	MR33				8	14	RS213								
1105AW (W423)	Vol.		45	MRT430	M26			8	7	RS213					10	‡6D6, 6A7, ‡85, 76,‡42,		
	Tone		22	MR33				8-8	7	2N518						5Z3	432	
	Sil.		48	C1MP				5	15	TC22								
4G1T (W476)	Vol.		6	H7				5-5	23	2S567					4	78, 77, 42, 80		12-13
4G2T (W477)	Vol.		6	G7				4-4	23	2S567					4	58, 57, 2A5, 80		12-2
5G1T (W478)	Vol.		6	H7		See Note	A14	4-4	23	2S567					5	‡77, 78, 42, 80	460	
6M2T (W479)	Vol.		45	MR48	M26			4-8	23	2S567					6	6J7, 6K7, 6H6, 6F5,		
	Tone		22	MR33												6F6, 5Z4	175	
6M3T (W480)	Vol.		75	MR44	M26			8, 8	1	ST595					6	6A8, 6K7, 6H6, 6F5,		
								10	19	TC22						6F6, 5Z4	460	
7M3C (W481)	Vol.		127	MR48				8, 8	1	RS213					7	‡6K7, 6A8, 6H6, 6F5,		
	Tone		‡	MR33				10	19	TC32						6F6, 5Z4	460	
9M3C (W482)	Vol.		127	MR48	M26			16	25	RS216					9	‡6K7, 6A8, 6H6, ‡6C5,		
	Tone		21	MR33				18	25	RS219						‡6F6, 5Z4	460	
	Sen.		7	UC500				10	19	TC32								
11M3C (W483)	Vol.		75	MR48	M26			16	1	RS216					11	‡6K7, 6A8, 6H6, ‡6C5,		
	Tone		‡	MR44				18	1	RS219						‡6F6, 5Z4	460	
	Sen.		7	UC500				10	19	TC32								
25G (W419)	Vol.	36X201	97	TRP617	14			4	12	TC40					5	32,‡34, 30, 19	175	12-3
27E (W420)	Vol.		45	MR53				P44X17	40	RS207					7	‡34, 1C6,‡30, 19	456	12-5,6
	Tone		44	MR42														
2116 (W491)	Vol.		7/83	DRP314				16	1	RS216					11	‡6K7, 6A8, 6R7, 6G5,		
	Tone		44	MR33				18	1	RS219						‡6C5,‡6F6, 5X4G	462*	11-7
								8	13	TC71								
								25	19	TC26								
2136 (W492)	Vol.		7/56	DRP314				16	1	RS216					13	‡6K7, 6H6, ‡6C5, 6A8,		
	Tone		44	MR33				8	13	TC71						6G5, 6Q7, ‡6F6,		
								25	15	TC26						5X4G	462	12-14
16 (W497)	Vol.	9-012-008	6	MR21	M26			5, 5	23	ST595					4	78, 76, 42, 80		
26G (W493)	Vol.		18	MR53	M24			45X212	12	TC52					6	1C6, 34, 1B5,‡30	456	11-9,10
27T (W496)	Vol.		45	MR53				P45X215	1/13	TN129			Order from Mfr.		7	1C6,‡34,‡30, 19	456	12-15,16
	Tone		44	MR42				P44X17	1	RS207								
								.01		Buffer	B14							
46	Vol.		6	MR21				5-5	23	TCS71					4	78, 77, 42, 80		
24B1 (W831)	Vol.		18	MR53				4	12	TC40					4	1D7G, 1D5G, 1H6G,		
	Fil.		29	C6P												1F5G	456	11-8
57 (W499)	Vol.	A33005	18	MR48				8-8	23	TCS71					5	6A7, 78, 75, 42, 80	460	
77 (W481)	Vol.		75	MR48				8, 8	25	RS213					7	6A7, 78, 6H6, 6F5,		
	Tone		22	MR33				10	19	TC22						6T5, 42, 80	460	
157 (W827)	Vol.		18	MR48				A10005	23	TCS71					5	6A8, 6K7, 6Q7, 6F6,		
																5Z4	460	12-11
257 (W500)	Vol.	A33005	18	MR48				A10005	23	TCS71					5	6A7, 78, 75, 42, 80	460	12-12
	Tone	A34002	22	MR33														
258 (W958)	Vol.		18	MR48				A10005	23	TCS71					5	6A7, 78, 75, 42, 80	460	
	Tone		22	MR33														
377	Vol.		75	MR48	M26			8, 8	25	RS213					7	6A7, 6H6, 78, 6F5,		
	Tone		22	MR33				10	19	TC22						6T5, 42, 80	460	
388	Vol.		124	500M		See Note	A19	12	1	ST597					8	6A8G, 78, 75, 6J5G,		
								16	1	ST597						‡41, 6U5, 80	460	
								12	13	ST597								
								8	19	TC42								
587 (W835)	Vol.		127	MR48				8, 8	1	ST595					8	‡6K7G, 6A8G, 6U5,		
	Tone		22	MR33				10	19	TC32						6H6G, 6F5G, 6F6G,		
	Sen.		98	D												5Y3	460	
557M (W496)	Vol.	A33005	18	MR48				A10005	23	TCS71					5	6A7, 78, 75, 42, 80	460	
56 (W485)	Vol.		18	MR48				5-5	23	TCS71					5	6A7, 6D6, 75, 42, 80	460	12-18
	Tone		22	MR33				10	15	TC22								
66 (W486)	Vol.		75	MR48	M26			8-4	23	TCS71					7	6A8, 6K7, 6H6, 6F5,		
	Tone		22	MR33												6G5, 6F6, 5Y3	175	
76 (W487)	Vol.		127	MR48				8, 8	1	ST595					7	‡6K7, 6A8, 6H6, ‡6F5,		
	Tone		22	MR33				10	19	TC32						5Y3	460	
146 (W488)	Vol.		6	G7		See Note	A14	4-4	23	TCS71					4	58, 57, 2A5, 80		

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTERN AIR PATROL—Continued																		
708 (W832)	Vol.		62	MR48				18, 18	1	TC55			246	C3	7	[3]6S7G, [3]6L5G, 6K6G, 6N5	456	
	Tone		34	MR42				4	15	TC32								
								.01		Buffer	B14							
1337 (W838)	Vol.		127	500M No. 1		See Note A19		18	1	RS219					13	[3]6K7G, 6A8G, 6H6G, 6U5G, 6F5G, [3]6C5G, [3]6F6G, [3]5Y3G	460	
								10	1	RS215								
								25	19	TC36								
1388	Vol.		18			See Note A19		12	25	ST597					8	6A8G, 78, 75, 6U5, 6J5G, [3]42, 80	460	
								16	25	ST597								
								12	14	ST597								
								8	19	TC42								
1487 (W839)	Vol.		127	MR48				8, 8	1	ST595					8	[3]6K7G, 6A8G, 6H6G, 6U5, 6F5G, 6F6G, 5Y3	460	
	Tone		22	MR33														
	Sen.		98	D														
WESTERN AUTO SUPPLY CO. (Truetone, Wells-Gardner)																		
062, 062A	Vol.		45	UM154			A96	4	13	TC52			Order from Mfr.		6	[3]39, 36, 37, 41	262	5-1
	Tone		34	MR42				4	15	TC32								
06W	Vol.	P91061	56	UM154	M26		A96	16-8	1	3S584	B8	P1765	Order from Mfr.		6	[3]78, 77, 85, [3]41	262	
	Tone	P91013	41	MR42				4	15	TC32								
06Z	Vol.	P91066	17	UM154	M26		A96	P80956	25/19	RM262/TC26	B12e	P1926	292	C12	5	78, 77, 41, 84, 75	262	
								P80937	14/15	2N516								
								.02		Buffer	B14							
6S	Vol.	36X200	17	UM163-SS3	M26			45X204	1	2N518			253	C3	6	[3]6D6, 6C6, 75, 41, 84	175	
	Tone	40X201	22	MR44				45X203	15	TN111								
								.01		Buffer	B14							
6U	Vol.	P96015	18	UM147-SS3	M26			P81028	1	2N518		2080	253	C3	6	[3]78, 77, 75, 41, 84	262	5-2
	Tone	P97012	22	MR42				P81021	15	TN111		2110	253	C3				
								.01		Buffer	B14							
670	Vol.	P101-9	17	MR48	M26			P103-2	4	RM262		142-1	296	C3	6	6D6, 6C6, 78, 75, 42, 84	175	6-1,2
								20	15	TC26								
								.02		Buffer	B14							
685, 686 Series	Vol.	101-46	18	MR53	M26			P103-6	23	RS213					7	6L7, 6K7, 6C5, 6Q7, 6F6, 5Y3, 6G5	465	
	Tone	101-53	22	MR33				P103-7	23	RS213								
720, 732	Vol.		18	MR53	M26			103-6	42	RS213					7	6L7, 6K7, 6C5, 6Q7, 6G5, 6F6, 5Y3	465	
	Tone		22	MR33				103-7	42	RS213								
786 Series A	Vol.	101-46	18	MR53	M26			P103-6	23	RS213					7	6L7, 6K7, 6C5, 6Q7, 6F6, 5Y3, 6G5	465	
	Tone	101-53	22	MR33				P103-7	23	RS213								
1312 (R131)	Vol.	83728	17	UM154-SS3	M26			84829	4	TCS71		84905	294	C3	6	[3]78, 77, 75, 41, 84	177.5	6-9,10
								83803	15	TC22								
								.03-.03		Buffer	B14							
D580	Vol.	P101-9	18	MR48	M26			119-15	4	2S567		P-142-4	299	C3	5	6D6, 6A7, 75, 42, 84	175	13-21
								.01		Buffer	B14							
D689	Vol.	36X250	20	TM247-SS25	M26			44X39	4	RS219					9	[3]6U7G, 6J7G, 6J5G, 6H6, 6F5G, 6K6G, 5Y3G, 6U5	456	
	Tone	40X228	22	MK402				44X40	4	RS224								
								45X239	15	TC22								
D690	Vol.	3800	15	DTM298-SS1				4649	4	RS223					14	[3]6D6, 6A7, 6H6G, [3]76, [3]42, 80, 6G5	456	
	Tone	2737	‡	MR55				4062	4	RS224								
								3079	14	TC42								
D691	Vol.		18	MR48	M26			3375	23	RS216					11	6A7, 6D6, 6Q7G, [3]76, [3]42, 6G5, 80	456	10-7,8
	Tone		147	MR55				4062	23	RS224								
								4528	14	TC40								
D692 (155)	Vol.	3800	124	DTM298-SS1				3111	72	RS216					11	[3]6K7, 6A7, 6H6, 6G5, 6C5, [3]76, [3]42, 80	456	10-9-12
	Tone	3799	147	UM181-SS1	M28			3112	72	RS216							385	
	Sen.	3801	48	A2MP				3113	72	RS216								
								3136	72	TC26								
D692 (164)	Vol.	3800	124	DTM298-SS1				3111	72	RS216					11	[3]6D6, 6A7, [3]76, 75, [3]42, 80, 6G5	456	
	Tone	3799	147	UM181-SS1	M28			3112	72	RS216								
	Sen.	3801	105	A2MP				3113	72	RS216								
								3136	72	TC26								
D694	Vol.	3800	124	DTM298-SS1				3111	72	RS216					15	[3]6K7G, 6A7, 6H6G, 6G5, [3]76, [3]42, 5Z3	456	10-13
	Tone	3799	147	UM181-SS1	M28			3112	72	RS216								
	Sen.	3801	48	A2MP				4062	72	RS224								
								3079	14	TC42								
D695	Vol.	36X221	20	MRT450	M26			4071	15/72	TC26					13	[3]6K7, [3]6C5, 6H6, 6G5, [3]6L6, [3]5Z4MG	456	10-14-16
	Tone	40X214	41	Order from	Mfr.			P44X21	30	RS223								
								P44X11	30	RS216								
								P45X216	14	TC40								
								P45X209	15	TC22								
D697	Vol.	36X236	75	MRT428	M26			44X30	1	RS216					11	[3]6K7, [3]6C5, 6H6, 6G5, 6J7, [3]6F6, 5Y3G	456	
	Tone	40X224	‡	MR53				44X11	1	RS216								
								45X223	13	TC40								
								45X222	19	TC26								
D698	Vol.	36X235	75	MR48	M26			44X35	23	RS215					8	6J7, 6K7, 6H6, 6C5, 6F5, 6G5, 6F6, 5Y3	456	
	Tone	40X223	34	MR42				44X31	23	RS223								
D699 (147E)	Vol.	2726	18	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 76, [3]42, 80, 6G5	456	
	Tone	2737	147	MR55				3351	23	HD684								
D699 (840)	Vol.	101-74	18	MR53	M26			103-6	4	RS213					8	6A8, 6K7, 6Q7, 6C5, [3]6F6, 5Y3, 6G5	465	9-1,2
	Tone	101-75	22	MR44				103-14	4	RS216								
D700	Vol.	2726	18	MR48	M26			3375	23	RS216					7	6A7, 6D6, 75, 76, [3]42, 80	456	
	Tone	2737	147	MR55				3351	23	HD684								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTERN AUTO SUPPLY CO.—Continued																		
D701	Vol.	36X215	20	MRT446	M26T			44X10	23	RS216					8	§6K7, 6C5, 6R7, 6F6,		
	Tone	40X211	34	Order from	Mfr.			44X11	23	RS216						6G5, 5Z4G	456	10-25
								44X209	15	TC22								
D702	Vol.	P1515	18	MR53	M26			P1511	23	RM262					5	6A7, 6D6, 75, 41, 80	456	
D703 (6Y)	Vol.	P1555	18	MR48	M26			P1561	4	TCS45					5	6A7, 6D6, 75, 25B6G, 25Z5, L49BJ	456	
D705	Vol.	36X245	20	TM247-SS25				44X30	25	RS216					11	§6U7G, §6J7G, §6J5G,		
	Tone	40X228	‡	MK402				44X36	25	RS224						6U5, 6H6, §6F6G,		
								45X238	19	TC29						5Y3G	456	
D706	Vol.	101-66	18	MR48	M27			119-32	1	2N516		126-4	246	C3	8	§6S7G, 6D8G, §6L5G,		
	Tone	101-67	22	MR39				.005		Buffer	B14					6T7G, 19, 6N5	465	9-3,4
D707	Vol.	3612	7	11	6			3229	23	TC44/TC42					4	6D6, 6C6, 43, 25Z5, BK55B		8-3
D708	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 34, §30, 32, 33	456	
	Tone	P682	34	MR39				.01-.01		Buffer	B14							
D709	Vol.	P2271	18	Order from	Mfr.			P2251	1	2N516		P1414	859	C3	6	6A8G, 6J5G, 6U7G,		
								.015		Buffer	B14					6Q7G, 6G6G, 6ZY5G	456	
D709 (1935)	Vol.		6	TRP617				4	12	TC40					5	32, §34, 30, 19	175	10-33
D710 (1935) (7J)	Vol.	36X205	56	MR48	M26			44X11	23	RS216					7	§6D6, 76, 6B7, 42, 80	456	10-35
	Tone	40X204	31	MR42				44X10	23	RS216								
D711 (7J)	Vol.	36X205	56	MR48	M26			44X11	23	RS216					7	§6D6, 76, 6B7, 42, 80	456	
	Tone	40X204	34	MR42				44X10	23	RS216								
D711 (209)	Vol.	5100	18	MR48				3285	1	RS216					8	6A7, 6D6, 6Q7G, 76,		
	Tone	5099	107	MR55	M26			5101	1	RS216						§41, 80, 6G5	456	12-13
D712	Vol.	36X206	7/15	DRP315	6T			44X10	4	RS216					10	§6K7, §76, §45, 80	456	
	Tone	40X205	41	MR57				44X11	4	RS216								
								44X18	13	RS213								
D712 (193)	Vol.	2726	18	MR48	M26			3375	23	RS216					9	6A7, 6D6, 6Q7G, §76,		
	Tone	2737	147	MR55				3351	23	HD684						§42, 80, 6G5	456	
D712M (1935)	Vol.	P36X206	7/15	DRP315	6T			44X10	4	RS216					10	§6K7, §76, §45, 80	456	10-39
	Tone	P40X205	41	MR57				44X11	4	RS216								
								44X18	14	RS213								
D713 (7H)	Vol.	36X207	45	MR53	M24			20	12	TC47					7	§34, 1C6, §30, 19	456	
	Tone	40X203	44	MR42														
D713 (7GM)	Vol.	36X204	7/56	DRP314	6T			44X10	23	RS216					7	§6K7, 6B7, 6F6, 76, 80	456	
	Tone	40X203	34	MR42				44X11	23	RS216								
D713 (6B)	Vol.	P2271	18	Order from	Mfr.			10-5	23	2S567					6	6A7, 6D6, 76, 75, 41,		
	Tone	P2093	‡	MK401	M26											80	456	
D714	Vol.	101-142	17	MK402	M26			119-69	25	TC44					6	6K8G, 6K7, 6Q7G,		
	Tone	101-143	22	MK400												6P5G, 6AC5G, 5Y3G	465	
D714M (1935)	Vol.	36X204	56/7	DRP314	6T			44X10	23	RS216					7	§6K7, 6B7, 76, 6F6, 80	456	10-47
	Tone	40X203	34	MR42				44X11	23	RS216								
D715 (205)	Vol.	4982	18	MR48	M25			5006	1	2N518					5	6A7, 6D6, 6Q7G, 41,		
																80	456	
D716 (1935)	Vol.	36X210	7/15	DRP315	6			P44X21	25	RS223					12	§6K7, §76, §6F6, §80	456	
	Tone	40X206	22	MR57				P44X11	25	RS216								
								P44X20	19	Order from	Mfr.							
D716 (1938-39)	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P2147	859	C3	7	6D8G, 6S7G, 6T7G,		
	Tone	P2137	34	MR39	M27			.015		Buffer	B14					6G6G, 6L5G, 6AB5, 6ZY5G	456	11-2
D717	Vol.	101-94	18	MR53	M26			119-38	23	2S567					5	6A7, 6K7, 75, 41, 80	465	11-3
	Tone	101-59	21	MR53														
D717 (6V-110V)	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P2147	859	C3	7	6D8G, 6L5G, 6S7G,		
	Tone	P2137	34	MR39	M27			.015		Buffer	B14					6T7G, 6G6G, 6ZY5G, 6AB5	456	
D718	Vol.	P1677	18	MR48	M27			P958	1	2N518		P402	245C	C3	6	6D8G, 6S7G, 6T7G,		
	Tone	P1764	44	MR39				.01-.01		Buffer	B14					§30, 19	456	
D719	Vol.	3418	18	MR48	M27			4459	24	2N513			245	C3	4	6D8G, 6S7G, 6T7G,		
								.03		Buffer	B14					1G5G	456	
D720 (142)	Vol.	2726	18	MR48	M26			16	25	RS216					6	78, 6A7, 6D6, 75, 42,		
	Tone		147	MR55				8	25	HD684						80	456	
D721	Vol.	36X215	17	MRT446	M26T			44X10	23	RS216					8	§6K7, 6Q7, 6C5, 6F6,		
	Tone	40X211	34	Order from	Mfr.			44X11	23	RS216						6G5, 5Z4MG	456	10-23
								44X209	15	TC22								
D721 (206)	Vol.		45	MR48				10-6	1	2S569					6	6A7, 6D6, 76, 6AC5G,		
																41, 80	456	
D722	Vol.	36X219	62	MRT447	M26			44X10	25	RS216					11	§6K7, §6C5, 6G5, §6F6,		
	Tone	40X213	65	Order from	Mfr.			44X11	23	RS216						5Z4MG	456	
								44X213	13/15	TC40/TC22								
D723	Vol.	2726	18	MR48	M26			3375	23	RS216					7	6A7, 6D6, 75, 76, §42,		
	Tone	2737	147	MR55				3351	23	HD684						80	456	
D723 (723)	Vol.	101-108	18	MK402	M26			11959C	24	2N513			246	C3	4	6D8G, 6S7G, 6T7G,		
								.003		Buffer	B14					6K6G	465	12-1,2
D724	Vol.	2726	18	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 76, §42,		
	Tone	2737	147	MR55				3351	23	HD684						80, 6G5	456	
D724U	Vol.	2726	18	MR48	M26			4297	73	RS207					8	6A7, 6D6, 6Q7G,		
	Tone	2737	147	MR55				4298	73/15	3N533						§43, 76, 25Z5, 6G5	456	12-5
D725	Vol.	P-96014	15	MR48	M26			P81043	12	RS216					7	§6D6, 6B7, 76, 42, 80	456	13-96 97
	Tone	P-97011	22	MR42				P81042	12	RS216								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTERN AUTO SUPPLY CO.—Continued																		
D725 (A3)	Vol.	P934	18	MR48	M26			8-4	32	2N518					6	6A7, 6D6, 76, 75, 42, 80	456	
	Tone	P943	34	MR39				4	32	TC70								
D726 (B1)	Vol.	P912	18	MR48	M26			P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	
D727	Vol.	2726	18	MR48	M26			3375	23	RS216					8	6A7, 6D6, 75, 6G5, 76, ‡42, 80	456	
	Tone	2737	147	MR55				3351	23	HD684								
D728 (X8)	Vol.	P630	18	MR48	M26			P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	
D729	Vol.	2574	7	II	6			3229	23	TC44/TC42					4	6D6, 6C6, 43, 25Z5		11-5
D730	Vol.	P2213	6	MR36	M26			P2216	1	2N509					4	6D6, 6C6, 25L6G, 25Z5		
D731 (1935)	Vol.	101-18	18	MR48	M26			103-6	4	RS213					5	6F7, 6K7, 75, 6F6, 80	465	11-6
D731 (1938-9)	Vol.	101-108	18	MK402	M26			103-7	4	RS213								
								119-53	1/19	3N533	B188				5	6A8, 6K7, 6Q7, 25L6, 25Z6, L49B	470	
D732 (686 Ser. A, B)	Vol.	101-46	18	MR53	M26			103-6	42	RS213					6	6L7, 6K7, 6C5, 6F6, 5Y3	465	
	Tone	101-53	22	MR33				103-7	42	RS213								
D734	Vol.	101-41	17	UM154-SS17	M26			119-33	4	2S567		126-1	294	C3	5	6A8, 6K7, 6Q7, 6F6, 6X5	465	9-5,6
								.005		Buffer	B14							
D734 (1935)	Vol.	101-41	18	UM154-SS3	M26			119-20	4	TCS71		126-1	294	C3	5	6A8, 6K7, 75, 41, 84/6Z4	465	11-10
								.01		Buffer	B14							
D735	Vol.	P-96017	18	MR55	M26			P82002	1/15	3S579		P2229	286S		5	‡6D6, 6C5, 75, 41	175	13-98,99
								.007		Buffer	B14							
D737 (1935)	Vol.		17	UM161-SS3				E45X206C	4/15	3S579		19A25	294	C3	6	‡6D6, 6C6, 75, 41, 84	175	
	Tone		34	MR42				.0075		Buffer	B14							
D737C (1936)	Vol.		17	UM161-SS3				E45X206C	4/15	3S579		19A25	294	C3	6	‡6D6, 6C6, 75, 41, 84	175	
	Tone		34	MR42				.0075		Buffer	B14							
D739	Vol.	101-21	56	MR44	M26	EC256		P119-17	4	TCS71		142-4	299	C3	6	‡6D6, 6A7, 6B7, 42, 84	175	
								.01		Buffer	B14							
D740	Vol.	SA106514	18	MR48	M26			SA106536	4	2S567		SA106561	296	C3	6	‡77, 78, 75, 42, 84	175	11-16
	Tone	SA106715	22	MR48				.02		Buffer	B14							
D743	Vol.	101-41	18	UM154-SS17	M26			119-37	4	2S567		126-1	294	C3	6	‡6K7, 6A8, 6Q7, 41, 6X5	465	
								.005		Buffer	B14							
D743W (1935)	Vol.	36X200	17	UM163-SS3	M26			45X204	1	2N518		2080	253	C3	6	‡6D6, 6C6, 75, 41, 84	175	11-19,20
	Tone	40X201	22	MR44				45X203	15	TN111		2110	253	C3				
								.01		Buffer	B14							
D744	Vol.	101-73	18	UM147-SS17	M26			119-34	4	2S567		126-1	294	C3	6	‡6K7, 6A8, 6Q7, 6F6, 6X5	262.5	
D744, Series "A"	Tone	101-45	22	Order from	Mfr.			.01		Buffer	B14							
	Vol.	101-73	18	UM147-SS17	M26			119-34	4	2S567		126-1	294	C3	6	‡6K7, 6A8, 6Q7, 6X5, 6F6	262.5	11-25,26
D744 (1936)	Tone	101-45	22	Order from	Mfr.			.01		Buffer	B14							
	Vol.	101-42	18	UM133-SS17	M26			119-21	1	2N518		126-1	294	C3	6	‡6K7, 6A8, 6Q7, 6N6, 6X5	465	11-23,24
D745	Vol.	36X217	56	Order from	Mfr.			.01		Buffer	B14							
	Tone	40X212	22	MR53				P45X211	1/15	TCD72/TC26		P19A26	248	C3	6	‡6K7, 6J7, 6B7, 41, 6A6	175	
D745 (Late)	Vol.	36X217	18	Order from	Mfr.			.005		Buffer	B14							
	Tone	40X212	22	MR53				P45X211	1/15	TCD72/TC26		P19A26	248	C3	6	‡6K7, 6J7, 6B7, 41, 6A6	175	13-102, 103
D746, Series "A" (Issue "A" & "B")	Vol.	101-110	18	MK402	M26			.005		Buffer	B14							
								119-50	40	2S567		126-7	294	C24	5	6A8, 6K7, 6Q7, 6K6, 6X5	465	
D746, Issue "C"	Vol.	101-110	18	MK402	M26			.005		Buffer	B14							
								119-50	40	2S567		126-7	294	C24	5	6SA7, 6SK7, 6Q7, 6K6, 6X5	465	
D746D (577D)	Vol.	101-110	18	MK402	M26			.005		Buffer	B14							
								119-105	24/15	FP339		126-7	294	C24	5	6SA7, 6SK7, 6SQ7, 6K6G, 6X5G	465	12-6
D747, Series "A" (Issues "A," "B," & "C")	Vol.	101-109	18	TM238-SS18	M26			.005		Buffer	B14							
								119-51	4	2S569		126-1	294	C3	6	6A8, ‡6K7, 6Q7, 6V6, 0Z4 or 6X5	465	
D748	Vol.	36X246	127	UM163	M26		A96	.01		Buffer	B14							
								45X235	1	2N518		19A33	952W	C3	6	‡6U7G, 6J7G, 6B8G, 6K6G, 6N7G	175	
								45X240	13	TC70								
								45X239	15	TC22								
								.008		Buffer	B14							
D900 (215)	Vol.	5100	15	MR48				16	1	RS216					7	6A7, 6D6, 6Q7G, 76, ‡41, 80	456	
	Tone		147	MR55				16	1	RS216								
D901	Vol.	5100	45	MR48				3285	1	RS216					9	6A7, 6D6, ‡76, 6G5, 6K5G, ‡6V6G, 80	456	
	Tone	5099	107	MR55	M26			5101	1	RS216								
D904 DC (308)	Vol.	5100	18	MR48				16-16	1	2S569					7	6A8G, 6K7G, 6Q7G, 6C5G, ‡6F6G, 80	455	
	Tone	5511	34	MR39	M26													
D905 (214)	Vol.		18	MR48	M26			16-8	4	TC44/TC42					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BK49BG	*	
D906 (311EPCW)	Vol.	7196	17	‡			A19	16-16	1	TC74					11	‡6K7G, 6K8G, 6Q7G, ‡76, ‡6AC5, 6U5, 80	456	12-5
	Tone	‡	21	‡			A5	20	13	TC47							455	
D906C (DC) (332EPCW)	Vol.	7196	17	3 Meg.			A19	16, 16	1	TC74					11	‡6K7G, 6K8G, 6Q7G, ‡76, ‡6AC5, 6U5	455	
D909 (216)	Vol.	5252	8	MR22	M26			16-6	23	TC44/TC42					4	6K7, 6J7, 25L6, 25Z6		
D910 Series A, B	Vol.	101187	18	MR53				11980	1	TC74					6	6K8/6K8G, 6SK7, 6Q7G, 6P5G, 6AC5G, 5Y3G	465	
	Tone	101189	22	MR53	M26													
D911	Vol.	5100	18	MR48				3285	1	RS216					8	6K8G, 6D6, 6G5, 6Q7G, 76, ‡41, 80	455	13-22,23
	Tone	5099	76	MR55	M26			5101	1	RS216								
D911B (312)	Vol.	7196	17	3 Meg.			A19	16	1	RS216					8	6K8G, 6K7G, 6Q7G, 76, ‡6N6G, 80, 6U5	455	
	Tone	7195	21	MR48	M26			16	1	RS216								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTERN AUTO SUPPLY CO.—Continued																		
D912 (5L)	Vol.	P2935	18	MR48	M26			P2936	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5, L49B	456	
D913 (7B)	Vol.	P3099	18	MR48	M26			P2936	1	2N509					7	6A8G, 6K7G, 6Q7G, 25L6G, ‡25Z6G, 6P5G	455	
	Tone	P3279	22	MR48														
D913 (7K)	Vol.	P3099	18	MR48	M26			20-20	1	2N509					7	6A8G, 6K7G, 6P5G, 6Q7G, 25L6G, ‡25Z6G	455	
	Tone		22	MR48				20	15	TC26								
D914 (7BS)	Vol.	P3099	18	MR48	M26			25-25-5	46	TN129					7	6A8G, 6K7G, 6P5G, 6Q7G, 25L6G, ‡25Z6G	455	
	Tone	P3279	22	MR48														
D914C (7KS)	Vol.	P3099	18	MR48	M26			25-25-20	1/15	3N533					7	6A8G, 6K7G, 6P5G, 6Q7G, 25L6G, ‡25Z6G	455	
	Tone		22	MR48														
D915 (Issue A, B)	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N513					5	12SA7, 12SK7GT, 12SQ7, 50L6GT, 35Z5GT	455	13-32, 33,28
D915C (5Q)	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	
D920	Vol.	101-133	127	MK402				119-64	1	2S569					8	6K8G, 6K7, 6Q7G, ‡6K6G, 6A8G, 6U5, 5Y3G	465	12-7,8
	Tone	101-134	22	MK400														
D921, Issue "A"	Vol.	101-159	45	MK402				119-73B	1	ST597					9	6K8, 6K7, ‡6J5, 6Q7, 6U5, ‡6K6, 5Y3	465	12-8-10
	Tone	101-165	21	MK402	M26			119-69	1	ST597								
D924 (313)	Vol.	7357	17	3 Meg			A19	16	1	RS216					11	‡6K7G, 6K8G, 6Q7G, ‡76, ‡6AC5, 80, 6U5	455	
	Tone	7195	21	MR48	M26			16	1	RS216								
								20	13	TC47								
D924C	Vol.	7357	17	3 Meg			A19	16	1	RS216					11	‡6K7G, 6K8G, 6Q7G, ‡76, ‡6AC5, 6U5, 80	455	
	Tone	7195	21	MR48	M26			16	1	RS216								
								20	13	TC47								
D925 (312)	Vol.	7196	17	3 Meg			A19	16	1	RS216					8	6K8, 6K7G, 6Q7G, 76, ‡6N6G, 80, 6U5	455	
	Tone	7195	21	MR48	M26			16	1	RS216								
D925B (336)	Vol.		17	3 Meg			A19	16	1	RS216					8	6K8G, 6K7G, 6Q7G, 76, ‡6N6G, 80, 6U5	455	
	Tone		21	MR48	M26			16	1	RS216								
D926	Vol.	36X270	20	TM254-SS25				14	23	RS216					11	‡6SK7, 6SA7, ‡6P5G, 6SQ7, ‡6V6G, 5Y3G, 6AD6G	456	
								40	23	RS224								
D926 (Issue A)	Vol.	36X270	124	TM254-SS25				44X30	23	RS216					11	‡6SK7, 6SA7, ‡6P5G, 6SQ7, 6AD6G, ‡6V6G, 5Y3G	456	13-39,40
								44X36	23	RS224								
								45X239	15	TC22								
D926 (Issue B)	Vol.	36X270	124	TM254-SS25				44X30	23	RS216					11	‡6SK7, 6SA7, 6AD6G, ‡6P5G, 6SQ7, ‡6V6G, 5Y3G	456	13-41, 40,42
								44X36	23	RS224								
								45X239	15	TC22								
D929	Vol.	101-137	18	MK402				119-80	1	TC74					7	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5	465	12-11,12
	Tone	101-157	22	MK402	M26													
D930	Vol.	5100	18	MR48				3285	1	RS216					8	6A7, 6D6, 6Q7G, 76, ‡41, 80, 6G5	456	12-13
	Tone	5099	107	MR55	M26			5101	1	RS216								
D935, D936 (4A)	Vol.	P2600	18	MK401	M27			P2602	19	TC26					4	1A7G, 1N5G, 1H5G, 1C5G	456	
D937	Vol.	36X258	18	MR48	M27			45X250	12	TC40					5	1A7G, 1H5G, ‡1N5G, 1C5G	456	12-15
D939 (4F)	Vol.	P3317	18	MK401	M27			P3024	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	
D940 (Issue A, B)	Vol.	P3560	18	UM161-SS22	M27			P3563	1	2N513					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 70L7GT	455	13-45,46
								P3562	78	TC29								
D940 (5N)	Vol.	P3560	18	UM161-SS22	M27			P3563	1	2N514					5	1A7GT, 1N5GT, 3Q5GT, 1H5GT, 70L7GT	455	
								P3562	15/12	TC29								
D941, Issue "A"	Vol.	101-108	45	MK402	M26			119-53D	1/15	3N533	.B193				6	12SA7, 12SK7, 12J5GT, 12SQ7, 35L6GT, 35Z5GT	465	
D941, (Issue B)	Vol.	101-108	45	MK402	M26			119-94	46	FP357					6	12SA7, 12SK7, 12J5GT, 12SQ7, 35L6GT, 35Z5GT	465	13-47,48
D976, Issue "A"	Vol.	101-161	18	Order from	Mfr.			119-81	74	TC65		12610	294	C3	6	‡6K7, 6A8, 6Q7, 6K6, 6X5	465	
								.008		Buffer	B14							
D978	Vol.	101-161	18	Order from	Mfr.			119-78	24	FP426		1269	248	C3	6	6K7, 6A8, 6SK7, 6Q7, 6J5G, 6N7	465	
	Tone	101-162	106	UM163-SS18				.0055		Buffer	B14							
D1001 (Issue A)	Vol.	101-209	18	MK401	M26			11992	24	FP211					5	12SA7,12SK7,12SQ7, 35L6GT, 35Z4GT	465	
D1002 (323)	Vol.		106	MR48	M26			16, 16	23	RS216					7	6K8G, 6K7G, 6Q7G, 6C5G, ‡6F6G, 80	455	
	Tone		106	MR55														
D1003	Vol.	P4089	64	MRT431	M26			P4264	1/15	FP339					7	‡6SK7, 6SA7, 6SQ7, 6K6G, 5Y3G	455	12-27,28
	Tone	P4193	22	Order from	Mfr.													
D1011, D1012 (612A)	Vol.	101-211	18	MK402	M26			11994	46	FP357					6	12SA7,‡12SK7,12SQ7, 35L6GT, 35Z5GT	455	
D1013 (Issue A)	Vol.	P4089	62	TM231-SS22	M26			P4106	1/15	3N533					7	6SA7, ‡6SK7, 6SQ7, 6J5G, 25L6G, 25Z6G	455	13,54-55

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTERN AUTO SUPPLY CO.—Continued																		
D1014 (Issue A)	Vol.	P4089	62	TM231-SS22	M26			P4106	1/15	3N533					7	6SA7, ½6SK7, 6SQ7, 6J5G, 25L6G, 25Z6G	455	13-54,55
D1015, D1016	Vol.	101-230	18	MK401	M26			11992	24	FP354	B69				5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	
D1020 (4J)	Vol.	P3317	18	MK401	M27			P3024	12	TC42					4	1A7G, 1N5G, 1H5G, 1Q5G	455	
D1022	Vol.	P4231	18	MK401	M27			P4224	1/15	FP360		P4221	246A	C3	6	6D8G, 6S7G, 6T7G, 6G6G, 6L5G, 6X5GT	455	
								.015		Buffer	B14							
D1040	Vol.	101-208	18	MK402	M26			119102	1	FP228					6	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 5Y3G	465	
D1041	Vol.	101-214	18	MK401	M26			119106	1/13	FP380					10	½6SK7, 6SA7, 6SQ7, 6P5G, ½6F6G, 6U5, 5Y3G	465	
	Tone	101-213	22	MK402														
D1042	Vol.		17	2 Meg			A19	40	23	RS224					11	½6SK7, 6SA7, ½6SQ7, ½6V6GT, 6AD6G, 5Y3G	456	12-17-20
								30	23	RS223								
								20-4	14/15	2N509								
D1070	Vol.	101-217	18	MK401	M26			11994	46	FP357					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	465	12-21,22
D1075DC	Vol.	2726	106	MR48	M26			7113	40	TC75					7	6K8G, 6K7G, 6J5G, 6Q7G, ½6F6G, 80	455	13-60
	Tone	2737	106	MR55														
D1076	Vol.	101232	18	MK402	M26			119115	1	2S569					6	6SA7, ½6SK7, 6SQ7, 6V6GT, 5Y3G	455	12-29, 30,31
	Tone	101231	22	MK402														
D1077	Vol.	25004	124			See Note A19		14670	1	FP234					11	½6SK7, 6SA7, ½6J5GT, 6U5, 6SQ7, ½6V6GT, 5Y3G	456	13-61
D1080, 1080B	Vol.	101210	18	UM161-SS22	M27			119104	76	FP304					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT, 5459	465	12-29
D1081	Vol.	P4418	18	MK402	M27			P4415	1	FP211	B117				6	½1N5, 1A7, 1H5, 3Q5, 117Z6	455	13-62
								P4414	78	WP520	B117							
D1090 (Issues A, C)	Vol.	36X275	‡	Order from	Mfr.			45X271	24/15	FP346	B117	19A33	248	C3	6	½6SK7, 6SA7, 6B8G, 6K6G, 6N7G	456	13-64,65
	Tone	40X212	22	MR55				.008		Buffer	B14							
D1090, D1091 (C13, C14)	Vol.	36X275	124	Order from	Mfr.			40-20-20	24/15	FP346		19A330	248	C3	6	6SA7, ½6SK7, 6B8G, 6K6G, 6N7G	456	
	Tone	40X212F	22	MR55				.008		Buffer	B14							
D1109	Vol.	9008	18	MR48	M26			8948	24	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-5
D1118	Vol.	36X309	64	TM227-SS25	M26			45X308	1/13/15	2N513/2N509					7	12SA7, ½12SK7, 6L5G, 12SQ7, 35L6GT, 35Z5GT	456	13-68,69
D1120	Vol.	P4916	18	MK401	M27			P2602	19	TC26					4	1A7, 1N5, 1H5, 3Q5	455	14-6
D1124	Vol.	101210	18	UM161-SS22	M26			119117	12	TC44					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	
D1125	Vol.	25367	18	UM154	M27		A96	25396	12	TC45					5	1P5GT, 1A7GT, 1N5GT, 1H5GT, 3Q5GT	456	14-7
								17080	19	TC22								
D1126	Vol.	25004	46			See Note A19		14670	1	FP234					11	½6SK7, 6SA7, ½6J5GT, 6U5, 6SQ7, ½6V6GT, 5Y3G	456	14-8,7
D1135	Vol.	P4916	18	MK401	M27			P2602	19	TC26					4	1A7, 1N5, 1H5, 3Q5	455	14-9
D1136	Vol.	P3720	18	MK402	M27			P4568	1/78	FP357					6	1A7GT, ½1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	14-10
D1143 (Issue A)	Vol.	25004	18			See Note A19		14670	1	FP234					8	6SA7, 6SK7, 6SQ7, 6J5GT, 6U5, ½6K6GT, 5Y3	456	13-72,73
D1144	Vol.	25004	46			See Note A19		14670	1	FP234					11	½6SK7, 6SA7, ½6J5GT, 6U5, 6SQ7, ½6V6GT, 5Y3G	456	14-8
D1145	Vol.	36X280	64	MK401	M26			45X277	4	TC78/TC75					6	6SA7, ½6SK7, 6SQ7, 6V6GT, 5Y3G	456	13-74, 67,78
	Tone	40X248	21	UM165-SS25														
D1169	Vol.	P3720	18	MK402	M27			P4568	1/78	FP357	B3				6	1A7GT, ½1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	14-10
D1170	Vol.	9051	18	MR48	M26			8525	24	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-11
D1171 (Early)	Vol.	P4060	18	MK401	M26			P4683	77	2N520					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	14-12
D1171 (Issue B)	Vol.	P4060	18	MK401	M26			P4683	77	2N520					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	13-75,76
D1172 (Issue A)	Vol.	36X280	64	MK401	M26			45X277	4	TC78/TC75					6	6SA7, ½6SK7, 6SQ7, 6V6GT, 6X5GT	456	13-78,77
	Tone	40X248	21	UM165-SS25														
D1173	Vol.	9221	18	MR48	M26			8525	24	2N514					6	12SA7,12SK7,½12SQ7, 35L6GT, 35Z5GT	455	14-13,14
D1174	Vol.	9051	18	MR48	M26			9363	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-15
D1175	Vol.	25004	124			See Note A19		14670	1	FP234					8	6SA7, 6SK7, 6SQ7, 6J5GT, 6U5, ½6K6GT, 5Y3	456	13-72,73

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTERN AUTO SUPPLY CO.—Continued																		
D1176	Vol.	36X280	64	MK401	M26			45X277	4	TC78/TC75					6	6SA7, ‡6SK7, 6SQ7, 6V6GT, 5Y3G	456	13-74, 67,78
	Tone	40X248	21	UM165-SS25														
DW1177	Vol.	P4231	18	MK401	M27			P4224	1/15	FP371		P4221	246A	C3	6	6D8G, 6L5G, 6S7G, 6T7G, 6G6G, 6X5GT	455	14-16
								.015		Buffer	B14							
D1180	Vol.	36X310	18	MK401	M27			45X309	24/78	Order from	Mfr.				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	456	13-79,69
D1181	Vol.	P4820	18	MK402	M27			P4860	1/78	FP309					6	‡1N5, 1A7, 1H5, 3Q5, 117Z6	455	14-17
D1182	Vol.	101252	18	MK402	M27			119123	76/78	Order from	Mfr.				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	455	
D1183	Vol.	P4706	18	UM161-SS18				P4589	24/78	FP304					5	1R5, 1T4, 1S5, 3S4, 35Z5	455	14-19
D1184	Vol.	8958	18	Order from	Mfr.			8952	24/78	FP304					5	1R5, 1T4, 1S5, 3S4, 45Z3	455	14-20
D1191 (Issue A)	Vol.	36X298	18	TM227-SS3	M26			45X294	24/15	FP346	B117	19A33	248	C3	6	‡6SK7, 6SA7, 6SQ7, 6K6GT, 6N7	456	13-81, 82,65
	Tone	40X257	22	MK403				.008		Buffer	B14							
D1191 (Issue B)	Vol.	36X298	18	TM227-SS3	M26			45X294	24/15	FP346	B117	19A33	248	C3	6	‡6SK7, 6SA7, 6SQ7, 6K6GT, 6N7	456	13-82,65
	Tone	40X257	22	MK403				.008		Buffer	B14							
D1191 (Issue C)	Vol.	36X298	18	TM227-SS3	M26			45X294	24/15	FP346	B117	19A33	248	C3	6	‡6SK7, 6SA7, 6SQ7, 6K6GT, 6N7	456	
	Tone	40X257	22	MK403				.016		Buffer	B14							
D1192	Vol.	101242	18	UM154-SS17	M26			119118	24/15	FP339		12627	248	C3	6	‡6SK7, 6SA7, 6SQ7, 6J5GT, 6N7	455	
	Tone	101245	21	Order from	Mfr.			.005		Buffer	B14							
D1202	Vol.	36X309	64	TM227-SS25	M26			45X308	1/13/15	2N513/2N509					7	12SA7, ‡12SK7, 6L5G, 12SQ7, 35L6GT, 35Z5GT	456	13-68,69
D1203	Vol.	101211	18	MK402	M26			11994	46	FP357					6	‡12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	14-21
								11995	46	Order from Mfr.	B12							
D1210	Vol.	101277	‡	DTM296-SS25				119109	1/13	FP390					8	‡6SK7, 6SA7, ‡6SQ7, 6V6GT, 6U5, 5Y3G	455	
D1215	Vol.	101230	18	MK401	M26			11992	24	FP354	B69				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-24
D1224	Vol.	101210	18	UM161-SS22	M27			119117	12	TC44					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	14-25
D1250	Vol.	101278	18	MK401	M26			119124	1	Order from	Mfr.				11	‡6SK7, 6SA7, ‡6SQ7, 6J5GT, ‡6F6G, 6U5, 5Y3G	455	14-26,27
	Tone	101279	22	MK402														
D1281	Vol.	P4820	18	MK402	M27			P4860A	1/78	FP309					6	‡1N5, 1A7, 1H5, 3Q5, 117Z6	455	14-18,28
D1294	Vol.	101242	18	UM154-SS17	M26			119118	15/24	FP339		12627	248	C3	6	‡6SK7, 6SA7, 6SQ7, 6J5GT, 6N7	455	14-29
	Tone	101245	21	Order from	Mfr.			.005		Buffer	B14							
D1296	Vol.	101276	18	Order from	Mfr.			119105	24/15	FP339		12629	Order from Mfr.		5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5	455	14-30
								.0035		Buffer	B14							
D1926	Vol.	36X270	124	TM254-SS25				44X30	23	RS216					11	‡6SK7, 6SA7, ‡6P5G, 6SQ7, ‡6V6G, 5Y3G, 6AD6G	456	13-38,40
								44X36	23	RS224								
								45X239	15	TC22								
D1926 (Issue A)	Vol.	36X270	124	TM254-SS25				44X30	23	RS216					11	‡6SK7, 6SA7, ‡6P5G, 6SQ7, 6AD6G, ‡6V6G, 5Y3G	456	13-39,40
								44X36	23	RS224								
								45X239	15	TC22								
D1926 (Issue B)	Vol.	36X270	124	TM254-SS25				44X30	23	RS216					11	‡6SK7, 6SA7, 6AD6G, ‡6P5G, 6SQ7, ‡6V6G, 5Y3G	456	13-41, 40,42
								44X36	23	RS224								
								45X239	15	TC22								
D2015, D2016	Vol.	101211	18	MK402	M26			11994	46	FP357					6	‡12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	14-4
D2106	Vol.	9008	18	MR48	M26			8948	24	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-5
D2121	Vol.	25367	18	UM154	M27		A96	25396	12	TC45					5	1P5GT, 1A7GT, 1N5GT, 1H5GT, 3Q5GT	456	14-7
								17080	19	TC22								
D2127	Vol.	36X309	64	TM227-SS25	M26			45X308	1/13/15	2N513/2N509					7	12SA7, ‡12SK7, 6L5G, 12SQ7, 35L6GT, 35Z5GT	456	13-68,69
D2133	Vol.	36X280	18	MK401	M26			45X277	4	TC78/TC75					7	6SJ7, 6J5GT, ‡6SK7, 6SQ7, 6V6GT, 5Y3G	456	13-107, 108
	Tone	40X248	21	UM165-SS25														
D2142	Vol.	9051	18	MR48	M26			8525	24	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-11
D2144 (Early)	Vol.	P4060	18	MK401	M26			P4683	77	2N520					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	14-12
D2149 (Issue A)	Vol.	36X280	64	MK401	M26			45X277	4	TC78/TC75					6	6SA7, ‡6SK7, 6SQ7, 6V6GT, 6X5GT	456	13-77,78
	Tone	40X248	21	UM165-SS25														
D2155	Vol.	9221	18	MR48	M26			8525	24	2N514					6	12SA7, 12SK7, ‡12SQ7, 35L6GT, 35Z5GT	455	14-13,14
D2163	Vol.	P4916	18	MK401	M27			P2602	19	TC26					4	1A7, 1N5, 1H5, 3Q5	455	14-6
D2166	Vol.	P4916	18	MK401	M27			P2602	19	TC26					4	1A7, 1N5, 1H5, 3Q5	455	14-9
D2206	Vol.	9008	18	MR48	M26			8948	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-32
D2210	Vol.	101230	18	MK401	M26			11992	24	FP354	B69				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-24

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTERN AUTO SUPPLY CO.—Continued																		
D2211	Vol.	101230	18	MK401	M26			11992	24	FP354	B69				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-33
D2215	Vol.	101211	18	MK402	M26			11994	46	FP357					6	§12SK7, 12SA7, 12SQ7,		
								11995	46	Order from Mfr.	B12					35L6GT, 35Z5GT	455	14-21
D2224	Vol.	36X309	64	TM227-SS25	M26			45X308	1/13/15	2N513/2N509					7	12SA7, §12SK7, 6L5G, 12SQ7, 35L6GT, 35Z5GT	456	13-68,69
D2245	Vol.	9051	18	MR48	M26			9363	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-15
D2261	Vol.	101210	149	UM161-SS22	M27			119117	12	TC44					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	14-25
D2269	Vol.	P4820	18	MK402	M27			P4860A	1/78	FP309					6	§1N5, 1A7, 1H5, 3Q5, 117Z6	455	14-18,34
D3115	Vol.	36X310	18	MK401	M27			45X309	24/78	Order from	Mfr.				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	456	13-79,69
D3123	Vol.	P4706	18	UM161-SS18				P4589	24/78	FP304					5	1R5, 1T4, 1S5, 3S4, 35Z5	455	14-19
D3124	Vol.	8958	18	Order from	Mfr.			8952	24/78	FP304					5	1R5, 1T4, 1S5, 3S4, 45Z3	455	14-20
D3130	Vol.	P4820	18	MK402	M27			P4860	1/78	FP309					6	§1N5, 1A7, 1H5, 3Q5, 117Z6	455	14-17
D3230	Vol.	P4820	18	MK402	M27			P4860	1/78	FP309					6	§1N5, 1A7, 1H5, 3Q5, 117Z6	455	14-18,28
D4035	Vol.	36X275	124	Order from	Mfr.			45X271	24/15	FP346		19A33	248	C3	6	§6SK7, 6SA7, 6B8G, 6K6G, 6N7G	456	13-63,38
	Tone	40X212	22	MR55				.008		Buffer	B14							
D4035 (Issues A, C)	Vol.	36X275	‡	Order from	Mfr.			45X271	24/15	FP346		19A33	248	C3	6	§6SK7, 6SA7, 6B8G, 6K6G, 6N7G	456	13-64,65
	Tone	40X212	22	MR55				.008		Buffer	B14							
D4040 (Issue A)	Vol.	36X275	‡	Order from	Mfr.			45X271	24/15	FP346		19A33	248	C3	6	§6SK7, 6SA7, 6B8G, 6K6G, 6N7G	456	13-66, 10,67
	Tone	40X212	21	MR55				.008		Buffer	B14							
D4140 (Issue A)	Vol.	36X298	18	TM227-SS3	M26			45X294	24/15	FP346	B117	19A33	248	C3	6	§6SK7, 6SA7, 6SQ7, 6K6GT, 6N7	456	13-81, 82,65
	Tone	40X257	22	MK403				.008		Buffer	B14							
D4140 (Issue B)	Vol.	36X298	18	TM227-SS3	M26			45X294	24/15	FP346	B117	19A33	248	C3	6	§6SK7, 6SA7, 6SQ7, 6K6GT, 6N7	456	13-82,65
	Tone	40X257	22	MK403				.008		Buffer	B14							
D4220	Vol.	101276	18	Order from	Mfr.			119105	24/15	FP339		12629	Order from	Mfr.	5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5	455	14-30
								.0035		Buffer	B14							
D4230	Vol.	36X296	18	UM154-SS3	M26			45X296	24/15	FP346	B117	19A37	Order from	Mfr.	6	§6SK7, 6SA7, 6SQ7, 6K6GT, 6X5/GT	456	13-109, 110
								.0055		Buffer	B14							
D4240	Vol.	36X298	18	TM227-SS3	M26			45X294	24/15	FP346	B117	19A33	248	C3	6	§6SK7, 6SA7, 6SQ7, 6K6GT, 6N7	456	13-85,65
	Tone	40X257	22	MK403				.008		Buffer	B14							
D4255	Vol.	101242	18	UM154-SS17	M26			119118	24/15	FP339		12627	248	C3	6	§6SK7, 6SA7, 6SQ7, 6J5GT, 6N7	455	14-29
	Tone	101245	21	Order from	Mfr.			.005		Buffer	B14							
DE3000, Issue "A"	Vol.	101-41	18	UM154-SS17	M26			119-65C	74	TC65		126-7	294	C24	6	§6K7G, 6A8G, 6Q7G, 6K6G, 6X5G	465	
								.008		Buffer	B14							
DE3001	Vol.	P4231	18	MK401	M27			P4224	1/15	FP371		P4221	246A	C3	6	6D8G, 6L5G, 6S7G, 6T7G, 6G6G, 6X5GT	455	14-16
								.015		Buffer	B14							
DE3002	Vol.	9143	18	MR48	M27			9146	12	TC42					5	1A7GT, 1N5GT, 1H5GT, §3Q5GT	455	14-31,14
DW2090	Vol.	9143	18	MR48	M27			9146	12	TC42					5	1A7GT, 1N5GT, 1H5GT, §3Q5GT	455	14-31,14
L7	Vol.	P691	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	7	1C6, 19,§30,§34	456	
	Tone	P682	‡	MR39				.01-.01		Buffer	B14							
S690, S691	Vol.		45	MR48				4	13	TC40			Order from	Mfr.	5	§39, 36, 38	262	7-1
	Tone		34	MR39				4	15	TC32								
S709 (1935)	Vol.	36X201	6	TRP617				P45X28	12	TC40					5	32, §34, 30, 19	175	
S710, S711	Vol.	36X205	56	MR48				44X11	23	RS216					7	§6D6, 76, 6B7, 42, 80	456	
	Tone	40X204	34	MR42				44X10	23	RS216								
S712 (1935)	Vol.	36X204	56/7	DRP314	6T			44X10	23	RS216					7	§6K7, 6B7, 76, 6F6, 80	456	10-47-49
	Tone	40X203	34	MR42				44X11	23	RS216								
S712M	Vol.	36X206	7/15	DRP315	6T			44X10	4	RS216					10	§6K7,§76,§45, 80	456	
	Tone	40X205	41	MR57				44X11	4	RS216								
								44X18	13	RS213								
S716, S717	Vol.		8	A5MP				4-2-6	46	3S584					8	§35,§24, 27, 47, 80	175	7-2,3
	Tone		34	MR42														
S719	Vol.		6	MR24	M26	EX300		8-8	4	TCS71					5	§57, 35, 47, 80	262	7-4
S720	Vol.		‡	A400P				P80916	4	RS213					7	§35, §24, 47, 80	175	11-4
	Tone		34	MR42				P80878C	13	TC40								
S721	Vol.	P91041	‡	X				P80894	4	RS213					7	§58,§57, 47, 80	175	8-1,2
	Tone	P90993	34	MR42				P80891-C	13	TC40								
S724	Vol.	P96001	97	TRP602	14			P45X28	12	TC40					5	§32,§34, 30, 19	175	8-3,4
S725, S726	Vol.	P96014	56	MR48	M26			P81043	23	RS216					7	§6D6, 6B7, 76, 42, 80	456	7-5,6
	Tone	P97011	34	MR42				P81032	23	RS213								
S727	Vol.	P96005	15	MR55	M26			P81039	2	RS216					10	§6D6, §76, §45, 80	456	8-5,6
	Tone	P97003	41	MR57				P81018	2/13	3S584								
S732, S733	Vol.	P91066	17	MR48	M26			P80956	25/19	RM262/TC26	B126	P1926	292	C12	6	§78, 77, 75, 41, 84	262	6-3,4
								P80937	14/15	2N516								
								.02		Buffer	B14							
S735	Vol.	P96017	17	MR55	M26			P82002	1/15	TCD52/TC22		P2229	286S	C3	5	§6D6, 6C6, 75, 41	175	6-6,7

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTERN AUTO SUPPLY CO.—Continued																		
S740	Vol.		18	UM147-SS3	M26			P81028	1	2N518			253	C3	6	‡78, 77, 75, 41, 84	262	6-8
	Tone		22	MR42				P81021	15	TN111								
								.01		Buffer	B14							
S740 (1934)	Vol.	SA106514	18	MR48	M26			SA106536	4	2S567		SA106561	296	C3	6	‡77, 78, 75, 42, 84	175	
	Tone	SA106715	22	MR48				.02		Buffer	B14							
S741 Series A, B, C	Vol.	101-21	15	MR44	M26	EC256		11916	1	3S584	B8	142-4	299	C3	8	‡6D6, 6A7, 6A6, 85, ‡76, 84	465	12-3,4
	Tone	101-39	22	MR39				.015		Buffer	B14							
S743	Vol.	83728	17	UM154-SS3	M26			84829	4	TCS71		84905	294	C3	6	‡78, 77, 75, 41, 84	177.5	6-9,10
								83803	15	TC22								
								.03-.03		Buffer	B14							
V6Z2	Vol.		17	MR48	M26			P80956	25/19	RM262/TC26	B126		292	C12	6	‡78, 77, 75, 41, 84	262	
								P80937	14/15	2N516								
								.02		Buffer	B14							
Z4	Vol.	P680	45	Order from	Mfr.			P391	1	2N516		P402	245C	C3	6	1C6, 19, ‡30, 32, 34	456	
	Tone	P682	44	MR39				.01-.01		Buffer	B14							
Z5	Vol.	P691	45	Order from	Mfr.			P958	1	2N516		P402	245C	C3	6	1C6, 19, ‡30, 32, 34	456	
	Tone	P962	44	MR39				.01-.01		Buffer	B14							
Z6Z1	Vol.	P91066	17	MR48	M26			P80956	25/19	RM262/TC26	B126		292	C12	6	‡78, 77, 75, 41, 84	262	5-3,4
								P80937	14/15	2N516								
								.02		Buffer	B14							
WESTERN AUTO SUPPLY OF CALIFORNIA																		
158	Vol.		18	MR48				8-8	23	2S567					5	6A7, 78, 75, 41, 5W4	460	
	Tone		22	MR33														
168P	Vol.		45	MR48				8-8	23	ST595					6	6A7, 78, 6H6, 6J7G, 42, 80	460	
169	Vol.	24-145	45	UM154	M26		A96	18-254	1	FP234	B197				6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	§11-9
								18-243	15	TC26								
268	Vol.		18	MR48				12	25	ST597					5	6K8, 78, 75, 41, 80	460	
								16	25	ST597								
279	Vol.	24-147	18	See Note			A19	18-254	1	FP234	B197				7	6SA7GT, 6SK7GT, 6SQ7GT, ‡6P5GT, 6AC5GT, 5W4GT	455	§11-9
558	Vol.		18	MR48				8-8	23	2S567					5	6A7, 78, 75, 41, 80	460	
WESTERN ROYAL																		
W261	Vol.	101-240	18	MK402	M26			119115	1	2S569					6	6SA7, ‡6SK7, 6SQ7, 6K6GT, 5Y3G	455	
	Tone	101-241	22	MK402														
W481	Vol.	101-239	18	MK401	M26			11997	1/15	FP339					8	‡6J5GT, ‡6SK7, 6SQ7, 6K6GT, 6U5, 5Y3G	455	
	Tone	125-140	21	Order from	Mfr.													
W642	Vol.	101-193	18	UM161-SS22	M26			11994	46	FP357	B211				6	‡12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	
W671	Vol.	101-232	18	MK402	M26			119115	1	2S569					6	6SA7, ‡6SK7, 6SQ7, 6V6GT, 5Y3G	455	
	Tone	101-231	22	MK402														
WESTINGHOUSE																		
(For Model References See RCA)																		
WR4—See Radiola 48																		
WR5—See Radiola 80																		
WR6—See Radiola 82																		
WR6R—See Radiola 82R																		
WR7—See Radiola 86																		
WR7R—See Radiola 86R																		
WR8—See Radiola 82 (with clock)																		
WR8R—See Radiola 82R (mod. for vertical operation.)																		
WR9—See T5																		
WR10—See R7 (Superette)																		
WR10A—See R7A																		
WR10 (DC)—See R7 (DC)																		
WR12—See R9																		
WR12 (DC)—See R9 (DC)																		
WR12K1	Vol.	35344	18	MR48	M26		A106	36301	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-1,11
WR12X1, WR12X2	Vol.	35344	18	MR48	M26		A106	36301	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-1,11
WR12X3	Vol.	36584	18	MR48	M26		A106	36301	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-2
WR12X4	Vol.	35728	18	Order from	Mfr.			36301	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-1
WR12X5, WR12X6	Vol.	36584	18	MR48	M26		A106	36301	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-2
WR12X7	Vol.		18	MR44	M26			30-50	77	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-3,4
WR12X8	Vol.	36584	18	MR48	M26		A106	36301	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-3,11
WR12X9	Vol.	38410	18	MR48	M26			36301	77	2N520					6	12SG7, 12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	13-4,11
WR12X10, WR12X11	Vol.	36242	18	MR48	M26T		A106	36301	1	2N520					6	‡12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-5,6

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTINGHOUSE — Continued																		
WR12X12	Vol.	38410	18	MR48	M26			36301	77	2N520					6	12SG7, 12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	13-4,11
WR12X14	Vol.	36242	18	MR48	M26T		A106	36301	1	2N520					6	‡12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	13-5,6
WR12X15	Vol.	38410	18	MR48	M26			36301	1	2N520					6	12SG7, 12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	13-7, 6,8
WR12X16	Vol.	38404	124	MRT454	M26			39150	24	2N521/TC47	B217				8	6SG7, 6SA7, 6SK7, ‡6SQ7, ‡25L6GT, 25Z6GT	455	13-9, 10,8
	Tone	38409	22	MR48														
WR13—See RE16																		
WR13A—See RE16A																		
WR13K5	Vol.	35344	18	MR48	M26		A106	36301	1	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-5,6
WR13X8	Vol.	36584	18	MR48	M26		A106	36301	1	2N520					5	12SA7, 12SQ7, 12SK7, 50L6GT, 35Z5GT	455	14-2
WR14—See R5																		
WR14 (DC)—See R5 (DC)																		
WR14CR—See R5X																		
WR15—See R11																		
WR15A—See R10																		
WR16—See RO23																		
WR17—See R4																		
WR18—See R8																		
WR18 (DC)—See R8 (DC)																		
WR19—See R71																		
WR20	Vol.		6	MR24	M26			4-8	4	TCS52					4	6D6, 6C6, 38, 1V		5-1
WR21	Vol.	SR78	6	MR24	M26	EX300		KC68	11	UR193	B264				5	‡78, 77, 43, 25Z5	456	5-2
WR22	Vol.		6	MR24		EX500		UC93	4	TCS71					5	‡58, 57, 47, 80	456	5-9
WR23, WR24	Vol.	WR05562	18	MR48				SA106665	25	RM262/TC26	B213				7	‡58, 2A6, 2A5, 56, 80	456	5-3,4
	Tone	WR05561	26	MR44	M26													
WR25	Vol.	WRWR92	17	UM154	M26		A96	ZC123	1	2N518			294	C20	6	‡78, 6A7, 75, 41, 84	172,5	5-5,6
								IC43	15	TC22			296	C20				
								.02		Buffer	B14							
WR26	Vol.	WR06514	18	MR48	M26			WR06558	4	TCS71			294	C20	6	‡77, 78, 75, 42, 84	175	5-7,8
	Tone	WR06715	22	MR48				.02		Buffer	B14		296	C20				
WR27	Vol.	WRBBR112	6	MR36	M26	EX250		WRUC-93	4	TCS71					4	6A7, 77, 42, 80	456	5-10
WR28, WR29	Vol.	WR05562	18	MR48				WR06665	25/19	RM262/TC26	B213				6	6A7, ‡6D6, 75, 42, 80	456	5-11,12
	Tone	WR07250	121	MR44	M26			WR07239	13	RS213								
WR30	Vol.	WR07585	18	MR48				WR07510	59	RM265					10	‡78, 77, 6B7, ‡6A6, 42, 76, 83V	456	5-13,14
	Tone	WR07584	121	MR44	M26			WR07516	15	TC22								
WR42X1	Vol.	37977	18	MR48				36301	77	2N520					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	13-12
WR42X2	Vol.	38408	18	MRT440	M26			37845	9/13	Order from	Mfr.				6	‡6SK7, 6SA7, 6SQ7, 25L6GT, 25Z6GT	455	14-8
WR42X3	Vol.	38404	124	MRT454	M26			37845	9/13	Order from	Mfr.				6	‡6SK7, 6SA7, 6SQ7, 25L6GT, 25Z6GT	455	13-13,14
WR42X4	Vol.	38404	17	MRT454	M26			37846	9	TC47								
								37888	1/19	FP339					8	6SG7, 6SA7, 6SK7, ‡6SQ7, ‡6K6GT, 5Y3G	455	13-15,16
								37877	13	TC74								
WR42X5	Vol.	38404	17	MRT454	M26			37888	1/19	FP339					8	6SG7, 6SA7, 6SK7, ‡6SQ7, ‡6K6GT, 5Y3G	455	13-17,16
								37877	13	TC74								
WR42X7	Vol.	38404	124	MRT454	M26			37845	9/13	Order from	Mfr.				6	‡6SK7, 6SA7, 6SQ7, 25L6GT, 25Z6GT	455	13-13,14
WR42X14	Vol.	38404	17	MRT454	M26			37846	9	TC47								
								36888	1/19	FP339					8	6SG7, 6SA7, 6SK7, ‡6SQ7, ‡6K6GT, 5Y3G	455	13-15,16
								37877	13	TC74								
WR42X15	Vol.	38404	17	MRT454	M26			37888	1/19	FP339					8	6SG7, 6SA7, 6SK7, ‡6SQ7, ‡6K6GT, 5Y3G	455	13-17,16
								37877	13	TC74								
WR62K1, WR62K2	Vol.	38405	18	MR53				36301	24	2N520					6	‡1N5GT, 1A7GT, 1H5GT, 3Q5GT, 35Z5GT	455	13-15
								38775	78	Order from	Mfr.							
WR62K3	Vol.	D8958	18	MK402				30-20-100	24/78	See Note	B3				5	1R5, 1T4, 1S5, 3S4, 45Z3	455	13-18
WR100	Vol.	2DR169	18	MR48	M26			2DC203	27	TC44/TC42					5	6A7, 6D6, 75, 43, 25Z5	456	6-1
WR101 (U6A)	Vol.	ZZR190A	55	MR48	M26			ZZC192A	11/27	UR193	B99				6	6A8, ‡6K7, 75, 43, 25Z5	456	6-2,3
	Tone	ZZR191A	121	MR44				YC98A	19	TC40	B99							
WR101 (U6F)	Vol.	ZZR190A	55	MR48	M26			2LC224	11/27	UR193	B99				6	6A7, 6K7, 6H6, 6F5, 43, 25Z5	456	7-1,2
	Tone	ZZR191A	121	MR44				YC98A	19	TC40								
WR102	Vol.	VR9531	7	MR18	M26	EX300		CE9533	6	RS215					4	6A7, 6C6, 43, 25Z5, K55C	465	7-1
								CE9534	6	ST597								
								CE9515	15	TC22								
WR102A	Vol.	VR9531	7	MR18	M26	EX300		CE9553	27	FP115					4	6A7, 6F7, 25B6G, 25Z5, K55C	465	8-1
WR103, WR103A	Vol.	VR957	18	MR48	M26			CE9534	27	ST597								
								CE9545	27	RS207					5	6A7, 6D6, 75, 43 or 25B6, 25Z5, K49C	465	8-2,4
								CE9546	27	RS215								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTINGHOUSE—	Continued																	
WR116	Vol.	VR9533	45	MRT430	M26			CE9539	27	RS207					6	6A8, 6K7, 6H6, 6F5,		
	Tone	VR9534	22	MR24				CE9538	27	RS207						25A6, 25Z6, K42E	465	9-1,4
								CE9540	13	RS213								
WR120	Vol.	VR9549	18	MR48	M26			CE9559	4	FP115					5	6A8G, 6K7G, 6Q7G,		
								CE9560	4	RS207						25B6G, 25Z6G,		
																K49CB	455	11-1
WR140	Vol.	VR9547	18	MR48	M26			CE9557	4	FP115					5	6A8, 6K7, 6Q7G,		
								CE9574	4	RS207						25L6, 25Z6G,		
								CE9575	13	RS213						K49CB	455	11-3,4
WR150	Vol.	36X244	71	UM120-SS18	M26			45X237	1/15	3N527					4	‡6J7, 25L6G, 25Z6G	456	11-5
WR152	Vol.	D5486	18	MR48	M26			D5499	1	2N509					5	6A8G, 6K7G, 6Q7G,		
																25L6G, 25Z6G	455	11-7
WR154	Vol.		18	MR44	M26T			16-16	1	2N509					5	6A8G, 6K7, 6Q7G,		
																25L6G, 25Z6G,		
																BK42B	455	10-10
WR158	Vol. & Tone	K85479-3	75/‡	SMD504			A67	86019-1	1	2N509					6	6A8G, 6K7, 6H6, 6F5,		
																25L6G, 25Z6G	455	12-1,2
WR162	Vol.	D5576	18	MR48				D5780	27	TC47					8	6K8, 6K7G, 6Q7G,		
	Tone	D5575	44	MR39	M26			D5968	27	TC48						6U5, ‡25A6G,		
																6C5G, 25Z6G	455	11-9
WR165W, WR165I, WR165M	Vol.	32578	18	MR44	M26			39124-1	1	2N509					5	6A8, 6SK7, 6SQ7,		
																25L6, 25Z6	455	11-6
WR166B, C, G, I, R, W	Vol.		18	MR44	M26			20-12	1	2N509					5	12SA7,12SK7,12SQ7,		
																35L6GT, 35Z4GT	455	11-11
WR166A	Vol.		18	MR44	M26			20-12	1	2N509					5	12SA7,12SK7,12SQ7,		
																50L6GT, 35Z5GT	455	11-7
WR166L, LB, LC, LG, LI, LR, LW	Vol.		18	MR44	M26			20-12	1	2N509					5	12SA7,12SK7,12SQ7,		
																50L6GT, 35Z5GT	455	11-36
WR168, WR168A	Vol.		18	MR44	M26			30-30	24	2N513					5	12SA7,12SK7,12SQ7,		
																50L6GT, 35Z5GT	455	11-12
WR168B	Vol.		18	MR44	M26			30-30	24	2N513					5	12SA7,12SK7,12SQ7,		
																50L6GT, 35Z5GT	455	11-13
WR169	Vol.		18	MR48	M26			30-20	24	2N514					5	12SA7,12SK7,12SQ7,		
																50L6GT, 35Z5GT	455	11-14
WR170	Vol.		18	MR55	M26			50-50	24	FP214					5	12SA7,12SK7,12SQ7,		
																50L6GT, 35Z5GT	455	11-23
WR172	Vol.		18	MR53			A27	50-50	24	FP214					6	12SA7,12SK7,12SQ7,		
	Vol.		18	1 Meg			A19									35L6GT, 6N5,		12-3,
																35Z5GT	455	4,32
WR173L	Vol.		18	MR44	M26			20-12	1	2N509					5	12SA7,12SK7,12SQ7,		
																50L6GT, 35Z5GT	455	12-5
WR174L	Vol.		18	MR44	M26			20-12	1	2N509					5	12SA7,12SK7,12SQ7,		
																50L6GT, 35Z5GT	455	12-5
WR175	Vol.		18	MR48	M26		A106	30-20	1	2N514					5	12SA7,12SK7,12SQ7,		
																50L6GT, 35Z5GT	455	12-4,5
WR176	Vol.		18	MR48	M26		A106	30-20	1	2N514					5	12SA7,12SK7,12SQ7,		
																50L6GT, 35Z5GT	455	12-4,6
WR177, WR178, WR179, WR180	Vol.	35728	18	Order from	Mfr.			35348	1	2N513					5	12SA7, 12SK7, 12SQ7,		
																50L6GT, 35Z5GT	455	14-6,11
WR182	Vol.	36584	18	MR48	M26		A106	35348	1	2N513					5	12SA7, 12SK7, 12SQ7,		
																50L6GT, 35Z5GT	455	14-12
WR182A	Vol.	36584	18	MR48	M26		A106	36301	77	2N520					5	12SA7, 12SK7, 12SQ7,		
																50L6GT, 35Z5GT	455	14-12
WR184	Vol.	36390	18	MR44	M26			35673	77	2N520					5	12SA7, 12SK7, 12SQ7,		
																50L6GT, 35Z5GT	455	14-13
WR186	Vol.	36390	18	MR44	M26			35673	77	2N520					5	12SA7, 12SK7, 12SQ7,		
																50L6GT, 35Z5GT	455	14-3,4
WR201	Vol.		6	E12		EX150		8-6	1	See Note	B3				5	‡6D6, 76, 42, 80	456	6-4
								12	15	TC22								
WR203	Vol.	XXR185A	55	MR44				XXC188	4	2S567					6	6A8, ‡6K7, 75, 6F6, 80	456	6-5,6
	Tone	XXR186A	22	MR44	M26													
WR204	Vol.	VR959	75	MR48				CE954	25/19	RM262/TC26	B213				7	‡6K7, 6A8, 6H6, 6F5,		
	Tone	VR9512	121	MR48	M26			CE9511	14	RS213						6F6, 80	465	6-7,10
								CE9515	15	TC22								
WR205	Vol.	VR959	75	MR48				CE954	25/19	RM262/TC26	B213				8	‡6K7, 6A8, 6C5, 6H6,		
	Tone	VR9512	121	MR48	M26			CE9518	14	RS213						6F5, 6F6, 80	465	6-11,14
								CE9515	15	TC22								
WR208	Vol.	2NR214	56	MR44	M26			2NC246	1	RS216					5	6A7, 6D6, 85, 42, 80	456	7-3,4
								2NC247	1	RS216								
								IC43A	15	TC22								
WR209	Vol.	VR957	18	MR48	M26			CE9512	1	RS215					5	6F7, 6D6, 75, 42, 80	465	7-2
								CE9511	1	RS213								
								CE9558	19	TC22								
WR210	Vol.	VR9532	18	MR48	M26			CE9536	1	RS215					5	6A8, 6K7, 75, 6F6,		
								CE9535	1	RS216						5Y3	465	7-3 &
								CE9515	19	TC22								12-7,8

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTINGHOUSE —	Continued																	
WR211	Vol.	VR9533	75	MRT430	M26			CE9536	25	RS215					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Y3	465	8-9
	Tone	VR9534	22	MR24				CE9535	25	RS216								
WR212	Vol.	VR9536	75	MRT430				CE9537	13/15	2N518					7	‡6K7, 6A8, 6F5, 6H6, 6F6, 5Y3 or 5Z4	465	8-5,8
	Tone	VR9512	15	MR48	M26			CE9536	25	RS215								
WR214, WR214X	Vol.	VR959	75	MR48				CE9535	25	RS216					10	‡6K7, 6A8, 6C5, 6H6, 6F5, ‡6F6, 5Y3 or 5Z4, 6G5	465	9-5,8
	Tone	VR9537	22	MR53	M26			CE9528	13	RS213								
WR217	Vol.	3FR256A	18	MR48	M26			CE9526	15	TN111					5	6A7, 6D6, 75, 41, 80	456	
WR222	Vol.	VR9553	18	MR48	M26			3RC318	23	TCS71					5	6A8G, 6K7, 6Q7G, 6Y6G, 5Y3G	455	9-9,10
WR224	Vol.	VR9553	18	MR48	M26			CE9564	4	RS216					5	6A8G, 6K7, 6Q7G, 6V6G, 5Y3G	455	11-15,16
								CE9565	4	RS216								
WR226	Vol.	VR9548	75	MR48	M26			CE9554	1	RS216					6	6A8, 6K7, 6H6, 6F5, 6V6G, 5Y3G	455	10-1,2
								CE9562	1	RS216								
WR228	Vol.	VR9556	18	MRT451	M26			CE9568	13	RS213					8	‡6K7, 6Q8, 6Q7G, ‡6F6G, 6U5, 5Y3G	455	10-3,4
								CE9554	1	RS216								
WR256	Vol.		18	MR44	M26T			CE9562	1	RS216					5	6A8, 6K7, 6Q7G, 6K6G, 5Y4G	455	10-19
								CE9568	13	RS213								
WR258 (All Runs)	Vol.		18	MR44	M26T			5-5	1	2N518					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y4G	455	11-18
WR260 (All Runs)	Vol.		18	MR48	M26T			5-5	1	2N518					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y4G	455	11-19
WR262	Vol.	D5576	18	MR48				8	1	HD684					6	6A8G, 6K7G, 6Q7G, 6V6G, 6U5, 5Y4G	455	11-13
	Tone	D5575	44	MR39	M26			18	1	RS216								
WR264	Vol. & Tone		15/22	SMD501				10-10-5-20	1/13/15	FP424	B48				7	6K8, 6K7, 6H6, 6F5, 6U5, 6K6G, 5Y4G	455	10-5
WR270	Vol.		18	MR53	M26			10-10	1	FP231					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y4G	455	11-21
WR272	Vol.		18	MR53	M26			10-10	1	FP231					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y4G	455	12-4,11
WR272L	Vol.		18	MR53	M26			10-10-20	1/15	FP332					5	6SA7, 6K7, 6SQ7, 6F6G, 5Y4G	455	12-9,10
WR274	Vol.		75	TM221-SS1	M26			10-10-20	1/15	FP332					7	6SA7, 6SK7, 6H6, 6SF5, 6F6G, 6U5, 5Y4G	455	12-12,22
WR288	Vol.	35859	18	MRT420	M26			35858	1/15	FP332					6	‡6SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	14-17,18
WR290	Vol.		124	MRT449	M26			10-10-10-20	1/13/15	FP424					8	‡6SK7, 6SA7, 6SQ7, 6SF5, ‡6K6GT, 5Y3G	455	12-41-42
WR303	Vol.	XXR185A	55	MR44				XXC188	4	2S567					6	6A8, ‡6K7, 75, 6F6, 80	456	6-5,6
	Tone	XXR186A	22	MR44	M26													
WR304	Vol.	VR959	75	MR48				CE954	25/19	RM262/TC26	B213				7	‡6K7, 6A8, 6H6, 6F5, 6F6, 80	465	6-7,10
	Tone	VR9512	121	MR48	M26			CE9511	14	RS213								
WR305	Vol.	VR959	75	MR48				CE9515	15	TC22					8	‡6K7, 6A8, 6C5, 6H6, 6F5, 6F6, 80	465	6-11,14
	Tone	VR9512	121	MR48	M26			CE954	25/19	RM262/TC26	B213							
WR306	Vol.	VR9510	15	MR53				CE9518	14	RS213					10	‡6K7, 6A8, 6C5, 6H6, 6F5, ‡6F6, 5Z3	465	7-5,8
								CE9515	15	TC22								
WR310	Vol.	VR9532	18	MR48	M26			CE9516	59	RS213					5	6A8, 6K7, 75, 6F6, 5Y3	465	12-7,8
								CE9517	59	RS216								
WR311	Vol.	VR9535	75	MR48	M26			SA107913	15	TN111					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Y3 or 5Z4	465	7-4
	Tone	VR9534	22	MR24				CE9536	1	RS215								
WR311 (Late)	Vol.	VR9535	18	MR48	M26			CE9535	1	RS216					6	6A8, 6K7, 6H6, 6F5, 6F6/G, 5Y3 or 5Z4	465	13-19-22
	Tone	VR9534	22	MR24				CE9515	19	TC22								
WR312	Vol.	VR9536	75	MRT430				CE9536	23	RS215					7	‡6K7, 6A8, 6F5, 6H6, 6F6G, 5Y3 or 5Z4	465	8-5,8
	Tone	VR9512	15	MR48	M26			CE9535	23	RS216								
WR314, WR314X	Vol.	VR959	75	MR48				CE9537	13/15	2N518					10	‡6K7, 6A8, 6C5, 6H6, 6F5, ‡6F6, 5Y3 or 5Z4, 6G5	465	9-5,8
	Tone	VR9537	22	MR53	M26			CE9536	1	RS215								
WR315	Vol.	VR9536	18	MRT430				CE9535	1	RS216					12	‡6K7, ‡6A8, 6J7, 6H6, 6Q7, ‡6L6, 5Z3, 6G5	465	8-10,13
								CE9528	13	RS213								
								CE9526	15	TN111								
								CE9536	25	RS215								
								CE9535	25	RS216								
								CE9528	13	RS213								
								CE9526	15	TN111								
								CE9536	3	RS215								
								CE9528	3	RS213								
								CE9535	3	RS216								
								CE9515	15	TC22								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTINGHOUSE—	Continued																	
WR316	Vol.	VR9533	75	MRT430	M26			CE9539	27	RS207					6	6A8, 6K7, 6H6, 6F5, 25A6, 25Z6, K42E	465	9-1,4
	Tone	VR9534	22	MR24				CE9538	27	RS207								
								CE9540	13	RS213								
WR326	Vol.	VR9548	75	MR48	M26			CE9554	1	RS216					6	6A8, 6K7, 6H6, 6F5, 6V6G, 5Y3G	455	
								CE9562	1	RS216								
								CE9568	13	RS213								
WR328	Vol.	VR9556	18	MRT451	M26			CE9554	1	RS216					8	[2]6K7, 6A8, 6Q7G, [2]6F6G, 6U5, 5Y3G	455	
								CE9562	1	RS216								
								CE9568	13	RS213								
WR330, WR332	Vol.	VR9555	124	MRT451				CE9554	1	RS216					10	[2]6K7, 6A8, 6H6, 6F5, 6C5, [2]6F6G, 6U5, 5Y3G	455	10-7-9
								CE9562	1	RS216								
								CE9528	14	RS213								
WR334	Vol.	VR9555	124	MRT451				CE9554	3	RS216					12	[2]6K7, 6A8, 6Q7, 6J7, 6H6, 6C5, [2]6V6G, 6U5, 5X4G	465	
								CE9570	3	RS216								
								CE9562	3	RS216								
WR336	Vol.	VR9555	124	MRT451				CE9554	3	RS216					12	[2]6K7, 6A8, 6Q7, 6C5, 6J7, 6H6, [2]6V6G, 6U5, 5X4G	465	
								CE9562	3	RS216								
								CE9570	3	RS216								
WR338	Vol.	VR9548	75	MR48	M26			CE9554	1	RS216					6	6A8, 6K7, 6H6, 6F5, 6V6G, 5Y3G	455	
								CE9562	1	RS216								
								CE9568	13	RS213								
WR342	Vol.	VR9561	124	MRT451	M26			CE9554	1	RS216					8	[2]6K7, 6A8, 6Q7, [2]6F6G, 6U5, 5Y3G	455	12-15-18
								CE9562	1	RS216								
								CE9568	14	RS213								
WR366	Vol.		17	MRT449			A108	10	25	RS215					8	[2]6K7, 6A8, 6Q7G, 6F6G, 6U5, 6J7, 5Y4G	455	11-24
	Tone		22	MR53	M26			16	25	RS216								
WR368	Vol.		17	MRT449			A108	25	25	RS223					10	[2]6K7, 6A8, 6Q7G, [2]6F6G, 6F5, 6U5, 6J7, 5U4G	455	11-31
	Tone		22	MR53	M26			16	25	RS216								
WR370	Vol.		17	MRT449				20	25	ST598					12	[2]6K7, 6A8, 6R7, [2]6J5, [2]6F6, 6U5, 6J7, 5T4	455	11-33
	Tone		‡	Order from	Mfr.			16-16	25/14	2S569								
WR372	Vol.		75	MRT440	M26			10-10	1	FP231					6	6SA7, 6SK7, 6H6, 6SF5, 6F6G, 5Y4G	455	12-4,19
WR372L	Vol.		75	MR55	M26			10-10	1	FP231					6	6SA7, 6K7, 6H6, 6SF5, 6F6G, 5Y4G	455	12-20
	Vol.		75	MR44	M26		A4											
WR373	Vol.		75	MRT440	M26			10-10	1	FP231					7	6SA7, 6SK7, 6H6, 6SF5, 6F6G, 6U5, 5Y4G	455	12-4,19
WR373L	Vol.		75	MRT449	M26			10-10	1	FP231					7	6SA7, 6K7, 6H6, 6SF5, 6F6G, 6U5, 5Y4G	455	12-20
WR373Y	Vol.		18	MR53			A27	50-50	24	FP214					6	12SA7,12SK7,12SQ7, 25L6GT, 6N5, 35Z5GT	455	12-3, 4,32
	Vol.		18	1 Meg			A19											
WR374	Vol.		18	MRT420	M26			10-10-10-20	1/13/15	FP424					8	6SA7, 6SK7, 6SQ7, [2]6F6G, 6SF5, 6U5/ 6G5, 5Y4G	455	12-21,22
WR374L	Vol.		18	MRT427	M26			10-10-10-20	1/13/15	FP424					8	6SA7, 6K7, 6SQ7, [2]6F6G, 6SF5, 6U5, 5Y4G	455	12-23,24
WR386	Vol.		18	MRT420	M26			10-10-20	1/15	FP332					6	[2]6SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	12-26
WR388	Vol.	35962	124	MRT449	M26			35858	1/15	FP332					9	[2]6SK7, 6SA7, 6H6, [2]6SF5,[2]6F6G, 5Y3G	455	12-28
WR468	Vol.		18	MR44	M26			30-30	24	2N513					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	11-35
WR468L	Vol.		18	MR44	M26			30-30	24	2N513					5	12SA7,12SK7,12SQ7, 50L6GT, 35Z5GT	455	11-35
WR470	Vol.		18	MRT438	M26			10-10	1	FP231					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y4G	455	12-29,32
WR472	Vol.	72357-27	18	MR44	M26T			86005-1	1	2S569					5	6A8, 6K7, 6Q7G, 6K6G, 5Y3G	455	10-11
WR473, WR474	Vol.		18	MRT438	M26			10-10-20	1/15	FP332					8	6SA7, 6SK7, 6SQ7, [2]6F6G, 6U5, 6SF5, 5Y4G	455	12-31,32
WR474L	Vol.		18	MRT449	M26			10-10-20	1/15	FP332					8	6SA7, 6K7, 6SQ7, [2]6F6G, 6SF5, 6U5, 5Y4G	455	12-30, 33,34
WR475	Vol.		18	MR44	M26			20-12	1	2N509					5	12SA7,12SK7,12SQ7, 35L6, 35Z5	455	11-9
WR476	Vol.		124	MRT449	M26			10-10-20	1/15	FP332					7	6SA7, 6K7, 6SQ7, [2]6F6G, 6SF5, 5Y4G	455	12-24, 34,35
WR480	Vol.	36892	124	MRT443	M26			35858	1/15	FP332					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G	455	13-31,32
WR482	Vol.		17	MRT449	M26			15-10-40	1/19	FP339					6	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	12-37,38
WR484	Vol.		17	MRT449	M26			15-10-40	1/19	FP339					7	6SF5, 6SA7, 6SK7, 6SQ7, [2]6K6GT, 5Y3G	455	12-37,38

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTINGHOUSE — Continued																		
WR486	Vol.		124	MRT454	M26			10-15-40	1/19	FP339					9	6SA7, 6SK7, [2]6K6GT, [2]6Q7, 6U5, 6SJ7, 5Y3G	455	12-36
	LF Tone		‡	MR65	M26			16, 16	13	TC65								
	HF Tone		22	MR53														
	Mike		127	MR48														
WR500	Vol.	VR951	18	UM154-SS23	M26			CE951	4	TCS71		VI951	253Y	C3	6	[3]77, 78, 75, 42, 84	175	6-15
	Tone	VR952	121	MR48				.008		Buffer	B14							
WR501	Vol.		17	UM157			A96	QQC169A	1	4S718			253Y	C3	5	78, 6A7, 85, 41, 84	172.5	6-16
								.008		Buffer	B14							
WR502	Vol.	VR9524	18	MR48	M26	RS246		CE951	4	TCS71		VI951	253Y	C3	6	[3]77, 78, 75, 42, 84	175	11-37,40
	Tone	VR9525	121	MR44				.008		Buffer	B14							
WR503	Vol.	VR9527	75	UM150			A96	CE951	4	TCS71		VI955	294	C3	7	[2]6K7, 6A8, 6H6, 6F5, 6F6, 0Z4	175	11-41-43
	Tone	VR9525	121	UM150			A96	CE9524	14	TC22								
								.005		Buffer	B14							
WR601	Vol.		17	MR48	M27										5	33, 34, 25S, 1C6, 30	456	6-4
WR603	Vol.	VR9523	18	MR48	M26			CE9541	1/15	3S579		VI957	245	C3	4	6D6, 6A7, 75, 41	465	10-13,14
								.008		Buffer	B14							
WR604	Vol.	VR9538	18	MR48	M24			CE9542	12	RS213					5	1C6, 1A4, 1B5, 30, 19	465	10-15,16
WR605	Vol.	VR9540	18	MR48	M24			CE9543	12	RS207					6	1C6, [1]1A4, 1B5, 30, 19	465	10-17,18
	Tone	VR9539	22	MR18														
WR606	Vol.	VR9523	18	MR48	M26			CE9541	1/15	3S579		VI957	245	C3	4	6D6, 6A7, 75, 41	465	
								.008		Buffer	B14							
WR607	Vol.	VR9538	18	MR48	M24			CE9542	12	RS213					5	1C6, 1A4, 1B5, 30, 19	465	
WR608	Vol.		18	MR48	M24			CE9543	12	RS207					6	1C6, [1]1A4, 1B5, 30, 19	465	
	Tone		22	MR18														
WR610	Vol.	VR9560	18	MR48	M26			CE9573	1	RS213		VI9512	245	C3	4	6D8G, 6S7G, 6T7G, 6K6G	455	
	Tone	VR9559	22	MR24				CE9550	15	TC29								
								.02-.02		Buffer	B11							
WR675, WR675A	Vol.		18	MR48	M27			8	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G or 1Q5G	455	11-44
WR676	Vol.	34972	18	MR53	M27			34472	24/78	FP304					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z6G	455	13-33
								34965	78	TC26								
WR677	Vol.	3480	18	MR53	M27			2463	12	TC42					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	11-47
WR678, WR679	Vol.		18	MR53	M27			40-20-100	24/78	FP309					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z4GT	455	14-19
WR680, WR681	Vol.	8.153	18	MR53	M27			5.362	24/78	Order from	Mfr.				5	1A7, [1]1N5, 1H5, 3Q5	455	14-20
WR682, WR682A	Vol.	94817-1	18	Order from	Mfr.			36718	12	TC44					4	1R5, 1T4, 1S5, 1S4	455	12-40
WESTINGHOUSE INTERNATIONAL																		
M101	Vol.		18	MR48				20-20	24	FP234	B117				5	6SA7, 6SK7, 6SQ7, 6K6GT, 80	456	13-1,2
M102	Vol.	36X312	18	MK401	M26			45X298	24	FP234					5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	456	13-3,4 14-1,2
M103	Vol.	36X306	18	MK401	M26			45X330	1/13	FP371	B117				5	6SA7, 6SK7, 6SQ7, 6U6GT, 80	456	13-5, 6,7
M104	Vol.	36X306	18	MK401	M26			45X323	22	TC78					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	456	14-3, 4,5
								45X324	22	TC55								
								45X333	13/15	FP328	B69							
M106	Vol.	8.153A	18	MR53	M27			5.378A	24/78	Order from	Mfr.				7	[1]1N5GT, 1R5, 1H5GT, 3Q5GT, 50L6GT, 35Z5GT	455	14-7,8
M108	Vol.	36X300	18	MK401	M26			45X326	1/13	FP380					6	6SJ7, 6J5GT, 6SK7, 6SQ7, 6U6GT, 80	456	13-11, 12,13
	Tone	40X256	22	UM165-SS25				45X328	15	TC26								
M109, M109B, M109C	Vol.	W29560	18	MRT440				W32052	1/13/15	FP429					7	[2]6SK7, 6SA7, 6SQ7, 6V6GT, 6U5, 80	455	14-9,10, 12,13
M109X	Vol.	W29560	18	MRT440				W32052	1/13/15	FP429					7	[2]6SK7, 6SA7, 6U5, 6SQ7, 6V6GT, 80	455	14-11,9, 12,13
M110	Vol.	36X304	18	MK401	M26			45X302	23	FP146					9	[2]6SK7, 6SA7, [2]6SQ7, [2]6V6GT, 6U5, 5Z4	456	13-15, 14,16
	Tone	40X260	21	UM165-SS25				45X310	13	TC52								
M111	Vol.	36X312	18	MK401	M26			45X298	24	FP234					5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	456	13-3,4
M112	Vol.	36X306	18	MK401	M26			45X330	1/13	FP380					5	6SA7, 6SK7, 6SQ7, 6U6GT, 80	456	13-5, 6,7
M113, M113C	Vol.	W29560	18	MRT440				W32052	1/13/15	FP429					7	[2]6SK7, 6SA7, 6U5, 6SQ7, 6V6GT, 80	455	14-13,9, 14,12
M114	Vol.	36X304	18	MK401	M26			45X302	23	FP146					9	[2]6SK7, 6SA7, [2]6SQ7, [2]6V6GT, 6U5, 5Z4	456	13-15, 14,16
	Tone	40X260	21	UM165-SS25				45X310	13	TC52								
M115	Vol.	81670	18	MR53	M26		A102	50385	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	14-6
M116	Vol.	36X306	18	MK401	M26			45X330	1/13	FP380					5	6SA7, 6SK7, 6SQ7, 6U6GT, 80	456	13-5, 6,7
N204	Vol.	36X306	18	MK401	M26			45X323	22	TC78					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	456	14-3, 4,5
								45X324	22	TC55								
								45X333	13/15	FP328	B69							
WR102	Vol.	VR9531	7	MR18	M26	EX300		CE9533	6	RS215					4	6A7, 6C6, 43, 25Z5	465	7-1
								CE9534	6	ST597								
								CE9515	15	TC22								
WR102A	Vol.	VR9531	7	MR18	M26	EX300		CE9553	27	FP115	B197				4	6A7, 6F7, 25B6G, 25Z5	465	10-1
								CE9534	27	ST597								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTINGHOUSE INTERNATIONAL — Continued																		
WR103	Vol.	VR957	18	MR48	M26			CE9545	2	RS223					5	6A7, 6D6, 75, 43, 25Z5	465	13-8, 9,10
								CE9546	2	2N516	B8							
WR116	Vol.	VR9533	45			See Note A19		CE9539	27	RS207					6	6A8, 6K7, 6H6, 6F5, 25A6, 25Z6	465	9-1,2
	Tone	VR9534	22	MR24				CE9538	27	RS207								
								CE9540	13	RS213								
WR209	Vol.	VR957	18	MR48	M26			CE9512	1	RS215					5	6F7, 6D6, 75, 42, 80	465	7-2
								CE9511	1	RS213								
WR210	Vol.	VR9532	18	MR48	M26			CE958	19	TC22					5	6A8, 6K7, 75, 6F6, 5Y3	465	7-3
								CE9536	1	RS215								
								CE9535	1	RS216								
WR211	Vol.	VR9533	75			See Note A19		CE9515	19	TC22					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Y3	465	8-3,8-9
	Tone	VR9534	22	MR24				CE9536	25	RS215								
								CE9535	25	RS216								
WR212	Vol.	VR9536	75			See Note A19		CE9537	13/15	2N518					7	[2]6K7, 6A8, 6F5, 6H6, 6F6, 5Y3 or 5Z4	465	8-5,6
	Tone	VR9512	15	MR48	M26			CE9536	25	RS215								
								CE9535	25	RS216								
								CE9528	13	RS213								
								CE9526	15	TN111								
WR214, WR214X	Vol.	VR959	75	MR48				CE9536	25	RS215					10	[2]6K7, 6A8, 6C5, 6H6, 6F5, [2]6F6, 5Y3 or 5Z4, 6G5	465	9-5,6
	Tone	VR9537	22	MR53	M26			CE9535	25	RS216								
								CE9528	13	RS213								
								CE9526	15	TN111								
WR310	Vol.	VR9532	18	MR48	M26			CE9536	1	RS215					5	6A8, 6K7, 75, 6F6, 5Y3	465	
								CE9535	1	RS216								
								CE9515	19	TC22								
WR314, WR314X	Vol.	VR959	75	MR48				CE9536	25	RS215					10	[2]6K7, 6A8, 6C5, 6H6,, 6F5, [2]6F6, 5Y3 or 5Z4, 6G5	465	9-5,6
	Tone	VR9537	22	MR53	M26			CE9535	25	RS216								
								CE9528	13	RS213								
								CE9526	15	TN111								
WR315	Vol.	VR9536	18			See Note A19		CE9536	3	RS215					12	[2]6K7, [2]6A8, 6J7, 6H6, 6Q7, [2]6L6, 5Z3, 6G5	465	8-11,12
								CE9528	3	RS213								
								CE9535	3	RS216								
								CE9515	15	TC22								
WR316	Vol.	VR9533	75			See Note A19		CE9539	27	RS207					6	6A8, 6K7, 6H6, 6F5, 25A6, 25Z6	465	9-1,2
	Tone	VR9534	22	MR24				CE9538	27	RS207								
								CE9540	13	RS213								
WR330	Vol.	VR9555	18	MRT451				CE9562	1	RS216					10	[2]6SK7, 6A8, 6H6, 6F5, 6C5, [2]6F6G, 6U5, 5Y3G	455	13-17-21
								CE9554	1	RS216								
								CE9528	13	RS213								
WRL165	Vol.	W32003	18	MR53	M26			W32348	1/15	FP429					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-15, 16,17
WRL217	Vol.		18	MR48				5-5	23	2S567					5	6A7, 6D6, 75, 41, 80	456	14-18,19
WRL250	Vol.	W31694	18	MR53	M26			W31682	46	FP357					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	14-18, 20,21
WRL258, WRL258C, WRL259, WRL259C	Vol.	W32003	18	MR53	M26			W31976	24/13/15	FP429					5	6SA7, 6SK7, 6SQ7, 6K6GT, 80	455	14-22, 23,24
WRL263, WRL263C	Vol.	W29518	18	MR53				W31976	24/13/15	FP429					5	6SA7, 6SK7, 6SQ7, 6K6GT, 80	455	14-25, 26,27
	Tone	W32821	21	MR53	M26													
WRL277, WRL277B	Vol.	W29560	18	MRT440				W29566	1	RS223					7	[2]6SK7, 6SA7, 6SQ7, 6V6GT, 6U5, 80	455	14-28-31,37
	Tone	W32821	‡	MR53	M26			W31976	1/13/15	FP429								
WRL295, WRL295B	Vol.	W29560	18	MRT440				W29566	1	RS223					9	[2]6SK7, 6SA7, 6U5, [2]6SQ7, [2]6V6GT, 80	455	14-32-36
								W31976	13/15	FP429								
WRL371	Vol.	W29560	18	MRT440				W30008	1	RS223					7	[2]6SK7, 6SA7, 6U5, 6SQ7, 6V6, 80	455	14-37, 38,30,31
								W31976	1/13/15	FP429								
WRL451, WRL451C, WRL451D	Vol.	W32003	18	MR53	M26			W31976	24/13/15	FP429					5	6SA7, 6SK7, 6SQ7, 6K6GT, 80	455	14-22, 23, 24
	Tone	W32259	‡	MR53														
WRL471, WRL471D	Vol.	W29560	18	MRT440				W30008	1	RS223					7	[2]6SK7, 6SA7, 6U5, 6SQ7, 6V6, 80	455	14-37, 38,30,31
	Treble	W32782	121	MR53				W31976	1/13/15	FP429								
WRL493, WRL493D	Vol.	W29560	18	MRT440				W30008	1	RS223					9	[2]6SK7, 6SA7, 6U5, [2]6SQ7, [2]6V6GT, 80	455	14-32-36
	Bass	W33252	‡	MR53				W31976	13/15	FP429								
WESTONE RADIO CORP.																		
20	Vol.		6	MR18				4-4	4	2S567					4	58, 56, 2A5, 80		6-2
34 (4 Tube)	Vol.		6	MR18				4-4	23	2S567					4	2A7, 57, 2A5, 80	456	6-1
34 (5 Tube)	Vol.		6	MR18				4-4	23	2S567					5	57, 58, 56, 2A5, 80	‡	6-1
40	Vol.		18	MR48				4-4	23	2S567					5	2A7, 58, 2A6, 2A5, 80	456	6-2
WEXTARK RADIO CORP.	(See Allied Radio & Knight Radio)																	
WHOLESALE RADIO SERVICE "Lafayette"—Also see Wells-Gardner																		
LI (AC)	Vol.		45	MR36				8	58	HD684					12	[3]56, [3]57, [4]58, [2]46, 82	175	3-1
	Tone		41	MR42				8	58	HD684								
	Supp.		8	E				4	58	RS213								
								4	19	TC40								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WHOLESALE RADIO SERVICE—Continued																		
BS-3	Vol.		17	MR53	M26			16-16	1	2S569					8	6K8G, 6D6, 6Q7G, 6F5G, §6V6G, 6U5, 80	456	13-1
	Tone		21	MR44				10	15	TC22								
								5	15	TC22								
10	Vol.		7	F	6	2		8, 8	23	RS213					7	§35, §24A, 27, 47, 80	175	
	Tone		103	MR53														
C16	Vol.	8-139B	17	MR53	M26			16-16	1	2S569					6	6K8, 6D6, 6Q7, 42, 6U5, 80	456	13-3
19	Vol.	8-139B	17	MR53	M26			16-16	1	2S569					6	6K8, 6D6, 6Q7, 42, 6U5, 80	456	13-3
20	Vol.		78	MR48				8, 8, 8	30	RS213					10	§35, §27, §47, 80	175	
	Tone		41	MR55	M26													
L20 (05A Series)	Vol.	P91019C	6	MR18	M26	EX300		P80944	11	2N509/TC44					5	§77, 78, 43, 25Z5	262	3-2
								P8087C	20	TC40								
								P80936C	15	TC32								
M31	Vol.	534	6	MR18				271	4	TC70					5	§57, 58, 47, 80	‡	3-3
C34	Vol.	8-139B	18	MR53	M26			5.336	4	ST597					7	§6D6, 6K8, 6Q7, 42, 6U5, 80	456	13-7
	Tone	8-140	22	MR53				5.338	4	ST597								
M35, M37	Vol.	535	124	MR48				4, 4	4	TC70					7	§58, 55, 56, 47, 80	175	3-3
	Tone	534	22	MR44														
40	Vol.		111	Y5MP				4-2-6	30	3S584					8	§35, §24A, 27, 47, 80	175	
	Tone		34	MR42				4	13	TC52								
40A	Vol.		14	MR48				4-2-6	30	3S584					8	§35, §24A, 27, 47, 80	175	
	Tone		34	MR42				4	13	TC52								
M42	Vol.		20			See Note A19		12	1	RS215					12	§6K7, 6A8, §6H6, 6G5, §6C5, §6F6, §5Y3	465	13-8
								18	1	RS216								
								8	13	TC71								
M53	Vol.	535	124	MR42				4, 4	4	TC70					7	§58, 55, 56, 47, 80	175	3-3
	Tone	534	22	MR44														
S53	Vol.	3487	18	MR48	M26			16-16	1	2S569					9	6SA7, 6SK7, §6SQ7, §6K6GT, 6U5, 5Z4	455	13-2
	Tone	3488	22	MR53														
CC57, CC57T	Vol.		18	MR53	M26			80-40-25	1/13	See Note	B3				9	§6D6, 6K8G, 6Q7, 76, §25L6G, 6U5, 25Z5	455	13-4
	Tone		22	MR53				10	15	TC22								
CC98	Vol.		18	MR53	M26			40-80-25	1/13	See Note	B3				9	§6D6, 6K8G, 6Q7, 76, §25L6G, 6U5, 25Z5	456	13-5
	Tone		22	MR53				10	15	TC22								
C117 (Series B)	Vol.		18	MR53	M26			20-20-10	1/15	3N527					7	6SA7GT, 6SK7GT, 6J5GT, 6SQ7GT, 6K6GT, 6U5, 5W4GT	455	13-9
	Tone		22	MR39														
259	Vol.	8.139B	17	MR53	M26			16-16	1	2S569					6	6K8, 6D6, 6Q7, 42, 6U5, 80	456	13-3
269	Vol.	8.139B	17	MR53	M26			16-16	1	2S569					6	6K8, 6D6, 6Q7, 42, 6U5, 80	456	13-3
493	Vol.		18	MR53	M26			40-80-25	1/13	See Note	B3				9	§6D6, 6K8G, 6Q7, 76, §25L6G, 6U5, 25Z5	455	13-4
	Tone		22	MR53				10	15	TC22								
939	Vol.		18	MR53	M26			40-80-25	1/13	See Note	B3				9	§6D6, 6K8G, 6Q7, 76, §25L6G, 6U5, 25Z5	456	13-5
	Tone		22	MR53				10	15	TC22								
3790	Vol.	8.139B	18	MR53	M26			5.336	4	ST597					7	§6D6, 6K8, 6Q7, 42, 6U5, 80	456	13-7
	Tone	8.140	22	MR53				5.338	4	ST597								
Mighty Atom	Vol.		6	MR18	M26			2-2	1	See Note	B2				5	§51, 24, 47, 80		
V.A.	Vol.	8753	6	MR21				5, 5	4	ST595					5	§24A, 51, 47, 80	‡	
Great Duo-Symphonic	Vol.		24	GG				1-1-1.5-1.5	61	See Note	B1				8	§24, §27, §45, 80		1-1
	Tone		41	MR53														
Duo-Symphonic Jr. 1931	Vol.		6	MR21				1-1-5	‡	See Note	B1				7	§24A, 27, §45, 80		1-1
	Tone		41	MR53														
Duo-Symphonic 1930	Vol.	P911	1	E12				1-1-1-2	59	See Note	B1				9	§26, 24, §45, 80		1-2
Auto Radio Superheterodyne	Vol.		64	MR48											6	§39, 36, 37, 38	262	3-4
WILCOX-GAY																		
A3, A4 (5A6)	Vol.		15	MR44											6	1A6, §34, §30, 33	456	9-1
A5, A6 (5F8)	Vol.		45	MR48				6-6	1	2N516			296	C3	8	§34, §30, 33, 84	456	9-2
	Tone		106	MR44				4	13	TC52								
								25	19	TC26								
								.015		Buffer	B14							
A11 (6A5)	Vol.	19-1291	18	MR48	M26			18-2005	1	ST597					5	6A7, 78, 75, 42, 80	175	
								18-2006	1	RS216								
								18-928	15	TC26								
A16	Vol.	19-1291	18	MR48	M26			18-2005	1	ST597					5	6A7, 78, 75, 42, 80	175	
								18-2006	1	RS216								
								18-928	15	TC26								
A18, A19	Vol.	19-1319	17	MR48				18-2005	1	ST597					6	6A8, 6K7, 6Q7, 6F6, 6G5, 5Z4	175	8-4
	Tone	19-1317	21	MR45				18-2006	1	RS216								
								18-928	15	TC26								
A21	Vol.	19-2005	15	MR48	M26			18-721	4	RS213					12	§6K7, 6A8, 6H6, §6F5, §6L6, §5Z4, 6G5	456	
	Tone	19-2004	21	MR45	M27			18-2004	14	TC70								
								18-928	15	TC26								
A22, A23	Vol.	19-1315	12	MR48											4	1C6, 1A4, 1B4, 1F4	175	
A24, A25	Vol.	19-1296	6	MR18	M26			18-2006	1	RS216		72-2001	See Note	C8	4	6A7, §15, 38	175	
								18-928	15	TC26								
								.015		Buffer	B14							

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WILCOX-GAY—Continued																		
A26	Vol.	19-1291	18	MR48	M26			18-721	4	RS213					11	6A8, ‡6K7, 6H6, ‡6F5, 6G5, ‡6F6, ‡80	456	
	Tone	19-1317	21	MR45				18-2005	4	HD684								
A27, A28	Vol.	19-1291	18	MR48	M26			18-2005	1	HD684					5	6A7, 78, 75, 42, 80	175	
	Tone	19-1317	21	MR45				18-2006	1	RS216								
								18-928	15	TC26								
A29	Vol.	19-1315	18	MR48				18-2003	8	TN125					5	6A7, 78, 75, 25L6, 25Z5	175	
	Tone	19-1317	21	MR45				18-928	15	TC26								
A30, A31	Vol.	19-1291	18	MR48	M26			18-2008	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5Z4	456	
	Tone	19-1317	21	MR45				18-928	15	TC26								
A33	Vol.	19-1291	18	MR48	M26			18-2005	1	HD684					5	6A7, 78, 75, 42, 80	175	
	Tone	19-1317	21	MR45				18-2006	1	RS216								
								18-928	15	TC26								
A35, A36, A37	Vol.	19-2008	17	MR48				18-721	1	RS213					7	‡78, 6A7, 75, 42, 80	456	
	Tone	19-2009	21	MR45				18-2005	1	HD684								
								18-928	15	TC26								
A40	Vol.	19-1291	18	MR48	M26			18-2005	1	HD684					5	6A7, 78, 75, 42, 80	175	
	Tone	19-1317	21	MR45				18-2006	1	RS216								
								18-928	15	TC26								
A41, A42	Vol.	19-2008	17	MR48											5	1C7G, ‡1D5G, 1H6G, 1F5G	456	
	Tone	19-2010	21	MR45	M27													
A43, A44, A45	Vol.	19-1291	18	MR48	M26			18-2008	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5Z4	456	
	Tone	19-1317	21	MR45				18-928	15	TC26								
A48	Vol.	19-2007	18	MR48	M26			18-2009	1	2N513					5	6A7, 78, 75, 43, 25Z5	456	10-3
								18-928	15	TC22								
A49	Vol.	19-2007	18	MR48	M26			18-2009	1	2N513					5	6A7, 78, 75, 43, 25Z5	456	10-4
	Tone	19-2009	21	MR45				18-928	15	TC26								
A50 (Ch. 8D5)	Vol.	19-2007	18	MR48	M26			18-2010	1	TC44					5	6A7, 6D6, 75, 43, 25Z5	456	10-5
	Tone	19-2009	21	MR45				18-2011	1	TC42								
								18-928	15	TC26								
A51 (8C4)	Vol.	19-2011	7	MR22	M26			18-2010	23	TC44					4	6K7, 6J7, 25L6, 25Z6		12-13
								18-2011	23	TC42								
								18-2012	15	TC22								
A52 (Ch. 8E5)	Vol.	19-2007	18	MR48	M26			18-2014	23	TC71					5	6A7, 6D6, 75, 42, 80	456	10-6
	Tone	19-2009	21	MR45				18-2013	23	TC70								
A53 (Thin Man, Ch. 8J5)	Vol.	19-2012	18	MR48	M26			18-2011	8	TC42					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	10-7
								18-2010	8	TC44								
								18-2012	15	TC22								
A53 (9C5)	Vol.	19-2012	18	MR48	M26			18-2010	6	TC44					5	12A8, 12K7, 12Q7, 35L6, 45Z5	456	12-11
								18-2011	6	TC42								
								18-2012	15	TC22								
A54 (Ch. 8L7)	Vol.	19-2007	17	MR48	M26			18-721	1	RS213					7	6A7, 6D6, ‡75, ‡42, 80	456	10-8
	Tone	19-2009	22	MR45				18-2006	1	RS216								
								18-2012	15	TC22								
A55 (Ch. 8N7)	Vol.	19-2007	17	MR48	M26			18-721	1	RS213					7	6A7, 6D6, ‡75, ‡42, 80	456	10-8
	Tone	19-2009	22	MR45				18-2006	1	RS216								
								18-2012	15	TC22								
A56, A57, A60 (8K2)								18-2010	24	TC44					2	6A7, 25Z5		12-11
								18-2011	24	TC42								
A58 (9R4)	Vol.	19-2008	18	MR48											4	1A7G, 1N5G, 1H5G, 1C5G	456	
A61 (9A2)								19-2010	24	TC44					2	12A8, 35Z4		11-5
								18-2011	24	TC42								
A63 (9B3)	Vol.	19-2013	50	MR44	M26			18-2016	24	TC48					3	12A8, 25X6, 35L6		
	Tone	19-2013	21	MR44	M26			18-2011	24	TC42								
								18-2012	15	TC22								
A64 (9G3)	Vol.	19-2013	50	MR44	M26			18-2016	24	TC48					3	12A8, 25X6, 35L6		
	Tone	19-2013	21	MR44	M26			18-2011	24	TC42								
								18-2012	15	TC22								
A65 (9F2)	Vol.	19-2013	50	MR44	M26			18-2010	24	TC44					2	12SA7, 35Z4		
								18-2011	24	TC42								
A69 (9L5)	Vol.	19-2014	17	MR48	M26			18-2015	1	TC71					5	6A8, 6K7, 6Q7, 6K6, 5W4	456	11-6
	Tone	19-2009	22	MR45				18-2012	15	TC22								
A70 (9J9)	Vol.	19-2014	17	MR48	M26			18-2017	1/13/15	FP424					9	6A8, 6K7, ‡6Q7, 6J7, ‡6K6, 6U5/6G5, 5W4	456	11-7-12
	Tone	19-2009	22	MR45				18-2012	15	TC22								
A71 (9M5)	Vol.	19-2007	15	MR48	M26			18-2010	1	TC44					5	12J7, 12Q7, 35L6, 6N5, 45Z5		11-21
	Tone	19-2009	22	MR45				18-2011	13	TC42								
								18-2012	15	TC22								
A72 (9Q5)	Vol.	19-2014	15	MR48	M26			18-2017	1/13/15	FP424					5	6J7, 6Q7, 6U5/6G5, 6K6, 5W4		11-13,14
	Tone	19-2009	22	MR45				18-2012	15	TC22								
A73 (9E5)	Vol.	19-2017	18	MR53	M27			18-2018	76/78	FP409					5	1A7, 1N5, 1H5, 1A5, 45Z5	456	11-15,16
A74 (9R5)	Vol.	19-2014	17	MR48	M26			18-2010	1	TC44					5	12A8, 12K7, 12Q7, 35L6, 45Z5	456	
								18-2011	13	TC42								
								18-2012	15	TC22								
A78 (9P7)	Vol.	19-2014	17	MR48	M26			18-2015	1	TC71					7	6A8, 6K7, ‡6Q7, ‡6K6, 5W4	456	11-17,18
	Tone	19-2009	34	MR45				18-2006	1	RS216								
								18-2012	15	TC22								
A79 (9N7)	Vol.	19-2014	17	MR48	M26			18-2015	1	TC71					7	6A8, 6K7, ‡6Q7, ‡6K6, 5W4	456	11-19,20
	Tone	19-2009	34	MR45				18-2006	1	RS216								
								18-2012	15	TC22								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WILCOX-GAY—Continued																		
A81	Vol.	19-2014	17	MR48	M26			18-2017	1/13/15	FP424					9	6A8, 6K7, ‡6Q7, 6J7, ‡6K6, 6U5/6G5, 5W4	456	11-7-12
	Tone	19-2009	22	MR45				18-2012	15	TC22								
A82	Vol.	19-2014	17	MR48	M26			18-2017	1/13/15	FP424					9	6A8, 6K7, ‡6Q7, 6J7, ‡6K6, 6U5/6G5, 5W4	456	11-7-12
	Tone	19-2009	22	MR45				18-2012	15	TC22								
A85, A87, A88	Vol.	19-2014	17	MR48	M26			18-2017	1/13/15	FP424					7	6A8, 6K7, 6Q7, 6K6, 6J7, 6U5/6G5, 5W4	456	12-9,10
	Tone	19-2009	34	MR45				18-2012	15	TC22								
A89	Vol.	19-2014	17	MR48	M26			18-2020	1/13	FP389					10	‡6K7, 6A8, ‡6Q7, 6J7, ‡6K6, 6U5/6G5, 5W4	456	12-13,14
	Tone	19-2009	22	MR45				20	15	TC26								
A90	Vol.	19-2014	17	MR48	M26			18-2017	1/13/15	FP424					7	6A8, 6K7, 6Q7, 6K6, 6J7, 6U5/6G5, 5W4	456	12-9,10
	Tone	19-2009	34	MR45				18-2012	15	TC22								
A91, A92, A93, A94	Vol.	19-2014	17	MR48	M26			18-2020	1/13	FP389					10	‡6K7, 6A8, ‡6Q7, 6J7, ‡6K6, 6U5/6G5, 5W4	456	12-13,14
	Tone	19-2009	22	MR45				20	15	TC26								
A95								18-2010	24	TC44					2	12A8, 35Z4		13-12
								18-2011	24	TC42								
A100	Vol.	19-2018	17	MR48	M26			18-2020	1/15	FP389					5	6A8, 6K7, 6SQ7, 6K6, 5W4	456	12-19,20
								18-2021	15	TC26								
A103	Vol.		15	MR48				10-10-10	1/13	FP389	B3				5	6J7, 6Q7, 6V6, 5Y3, 6U5		13-5
	Tone		22	MR44				20, 20, 20	15	TC26	B3							
A104	Vol.		15	MR48	M26			10-10-10	1/13	FP389	B3				7	6A8, 6K7, 6J7, 6Q7, 6U5/6G5, 6K6, 5W4	456	13-13,14
	Tone		22	MR44				10	15	TC22								
								20	15	TC26								
A105	Vol.		18	MR48	M26			10-10-10	46	FP389					6	6A8, 6K7, 6SQ7, 6K6, 6J5, 5Y3	456	13-15
	Tone		22	MR44				20	15	TC26								
A107	Vol.		15	MR48	M26			10-10-10	1/13	FP389	B3				7	6A8, 6K7, 6J7, 6Q7, 6U5/6G5, 6K6, 5W4	456	13-13,14
	Tone		22	MR44				10	15	TC22								
								20	15	TC26								
A113	Vol.		15	MR48				10-10-10	1/13	FP389	B3				11	‡6K7, 6A8, 6J5, ‡6SQ7, 6J7, 6U5, ‡6K6, 5Y3	456	13-20,21
	Tone		22	MR44				20, 20, 20	15	TC26	B3							
A113B	Vol.		15	MR48				10-10-10	1/13	FP389	B3				11	‡6K7, 6A8, 6J5, ‡6SQ7, 6J7, 6U5, ‡6K6, 5Y3	456	13-20,21
	Tone		22	MR44				20, 20, 20	15	TC26	B3							
A114	Vol.		15	MR48				10-10-10	1/13	FP389	B3				11	‡6K7, 6A8, 6J5, ‡6SQ7, 6J7, 6U5, ‡6K6, 5Y3	456	13-20,21
	Tone		22	MR44				20, 20, 20	15	TC26	B3							
A115, A115B	Vol.		15	MR48				10-10-10	1/13	FP389	B3				11	‡6K7, 6A8, 6J5, ‡6SQ7, 6J7, 6U5, ‡6K6, 5Y3	456	13-20,21
	Tone		22	MR44				20, 20, 20	15	TC26	B3							
C15	Vol.	19-1291	18	MR48	M26			18-2005	1	IID684					5	6A7, 78, 75, 42, 80	175	
								18-2006	1	RS216								
								18-928	15	TC26								
2S5	Vol.	534	6	MR18				4, 4	4	TC70					5	‡57, 58, 47, 80	175	3-1
2T5	Vol.	534	6	MR18				4, 4	4	TC70					5	‡57, 58, 47, 80	175	3-2
2U7	Vol.		18	MR48				4-12	4	See Note	B3				7	2A5, 2A6, 56, ‡58, 80	175	
	Tone		21	MR44														
2VA7	Vol.	535	124	MR48	M26			4, 4	4	TC70					7	‡58, 56, 55, 47, 80	175	4-1
	Tone		22	MR44														
2VB7	Vol.		18	MR48				4-12	4	See Note	B3				7	‡58, 2A6, 2A5, 56, 80	‡	4-2
	Tone		21	MR44														
3D5	Vol.	445	6	MR18	M26			4, 4	4	TC70					5	‡57, 58, 47, 80	175	4-3
	Tone		21	MR44														
3F7	Vol.		6	MR18	M26			4-12	4	See Note	B3				7	57, 58, ‡56, 47, 80	115	4-4
	Tone		21	MR44														
3J4	Vol.	19-1315	18	MR48											4	‡34, 33, 1A6	175	7-4
3J5, 3K5	Vol.	853	6	MR18	M26			965	8	TN125					5	‡78, 77, 43, 25Z5	175	4-7
								928	15	TC26								
3JC5	Vol.	19-1296	6	MR18	M26			18-1085	8	TN125					5	6A7, 78, 77, 43, 25Z5	175	7-1
								18-928	15	TC26								
3JD5, 3JG5	Vol.	19-1296	6	MR18	M26			18-1085	8	TN125					5	6A7, 78, 77, 43, 25Z5	115	6-1
								18-928	15	TC26								
3JE5	Vol.	19-1296	6	MR18	M26			18-1085	8	TN125					5	6A7, 78, 77, 43, 25Z5	175	7-1
								18-928	15	TC26								
3JF5	Vol.	19-1296	6	MR18	M26			18-2001	6	2N516					5	6A7, 78, 77, 43, 25Z5	175	6-2
3JM6, 3JQ6	Vol.	19-1291	17	MR48	M26			18-2003	8	TN125					6	6A7, 78, 75, 43, 25Z5, L49B	175	7-2
	Tone	19-1317	21	MR45														
3KD5	Vol.		6	MR18	M26			4-10-4	8	TN125					5	‡77, 43, 78, 25Z5	115	5-1
								25	15	TC26								
3KE5	Vol.	19-1296	6	MR18	M26			18-1085	8	TN125					5	‡77, 78, 43, 25Z5	175	6-2
								18-928	15	TC26								
3LB7	Vol.		18	MR48				8-8-4-4-4-4	62	See Note	B3				7	‡78, 6A7, 75, 42, ‡25Z5	175	4-5
	Tone		76	MR44														
3PA6-66, 3P6	Vol.	512	6	MR18	M26			18-1085	8	TN125					6	‡77, 78, 43, 25Z5	115	4-7
	Tone		22	MR44				18-928	15	TC26								
3PB8	Vol.		6	MR18	M26			4-10-4	8	TN125					8	‡43, 76, ‡77, 78, 25Z5	115	
	Tone		21	MR44														
3R6	Vol.		7	MR28	M26		A1	8-4	1	2N518			296	C3	6	77, ‡78, 75, 79, 84	175	4-6
	Tone		22	MR44				928	15	TC26								
								.02		Buffer	B14							
3SB5	Vol.		15	MR48				8-4	25	See Note	B3				5	6A7, 78, 75, 42, 80	175	5-2
	Tone		21	MR44				25	19	TC26								

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WILCOX-GAY—Continued																		
3S5-66	Vol.	535	76	MR48	M26			4-4	4	TCS71	B3				5	6A7, 78, 75, 42, 80	175	4-8
	Tone		76	MR44				928	15	TC26								
3T6-66	Vol.	535	18	MR48	M26			18-1085	8	TN125					6	6A7,‡78, 75, 43, 25Z5	175	4-8
	Tone		21	MR44				18-928	15	TC26								
3TB8	Vol.		18	MR48				4-19-4	8	UR182	B3				8	‡78, 6A7, 76, 75,‡43, 25Z5	175	
	Tone		22	MR44														
3V6 (BC & SW) 3VA6 (BC only)	Vol.		17	MR48				4-4	4	TCS71					6	‡78, 6A7, 75, 42, 80	175	5-4
	Tone		21	MR45				25	19	TC26								
3VB6	Vol.		17	MR48	M26			4-4	4	TCS71					6	6A7,‡78, 42, 75, 80	175	5-3
	Tone		21	MR45				25	19	TC26								
4B6 Road Mate	Vol.		18	MR48				1327	1	TCD72			296	C23	6	‡78, 77, 75, 41, 84	175	5-5
								25	15	TC26								
								.015		Buffer	B14							
4C5, 4CA5 4CB5	Vol.		17	MR48				8-4	25	See Note	B3				5	6A7, 78, 75, 42, 80	175	5-6
								25	19	TC26								
4CD5	Vol.		17	MR48				8-4	25	See Note	B3				5	6A7, 78, 75, 42, 80	175	5-7
								25	19	TC26								
4D10, 4DB10	Vol.		106	MR48	M26			8-8	1	2N518					10	2B7, ‡45, 2A7,‡58, 56, 80	175	5-9
	Tone		106	MR45				25	15	TC26								
4E6	Vol.		17	MR48	M26			4-4	4	TCS71	B3				6	42, 75, 76, 77, 78, 80	115	5-10
	Tone		21	MR45				25	15	TC26								
4G7	Vol.	19-1291	17	MR48	M26			18-1129	4	RM262					7	42, 75, 76,‡78, 80	456	6-5
	Tone	19-1317	76	MR45				18-928	20	TC26								
4H11	Vol.	19-1291	76	MR48	M26			18-721	1	RS213					11	‡45, 6B7,‡76,‡78, 80	456	6-6
	Tone	19-1317	76	MR45				75-267A	13	TC52								
								18-928	15	TC26								
4J6, 4JC6	Vol.	19-1291	76	MR48	M26			1295	8	TN125					6	6A7,‡78, 43, 75, 25Z5	456	6-4
	Tone	19-1317	76	MR45				1379	13	TC42								
								928	15	TC26								
4JA6, 4JB6	Vol.	19-1291	76	MR48	M26			1295	8	TN125					6	6A7,‡78, 43, 75, 25Z5	456	6-3
	Tone	19-1317	76	MR45				1379	8	TC42								
								928	15	TC26								
5A6	Vol.	19-1317	45	MR45											6	1A6, ‡34, ‡30, 33		13-6
5B5, 5BC5	Vol.	19-1291	17	MR48	M26			18-2002	4	TCS71					5	6A7, 78, 75, 42, 80	456	7-4
	Tone	19-1317	21	MR45				18-928	15	TC26								
5BA5	Vol.	19-1291	17	MR48	M26			18-1274	4	TCS71					5	6A7, 78, 75, 42, 80	456	7-5
	Tone	19-1317	76	MR45				18-928	15	TC26								
5BE6	Vol.	19-1291	17	MR48	M26			18-2002	4	TCS71					6	6A7, 78, 75, 42, 80, 6E5	456	7-6
	Tone	19-1317	21	MR45				18-928	19	TC26								
5E7	Vol.	19-1291	17	MR48	M26			18-1274	4	TCS71	B3				7	76,‡78, 42, 75, 80	456	6-7
	Tone	19-1317	21	MR45				18-928	15	TC26								
5EA7	Vol.	19-1291	76	MR48	M26			18-1274	4	TCS71	B3				7	76,‡78, 75, 42, 80	456	6-8
	Tone	19-1317	76	MR45				18-928	20	TC26								
5E8, 5E9	Vol.	19-1291	17	MR48	M26			18-2004	4	ST595					8	‡6K7, 6C5, 6H6, 6F5, 6F6, 5Z4	456	7-5
	Tone	19-1317	22	MR45				18-2002	4	TCS71								
								18-928	19	TC26								
6A5	Vol.	19-1291	15	MR48	M26			18-2005	1	HD684					5	6A7, 78, 75, 42, 80	175	8-1
								18-2006	1	RS216								
								18-928	15	TC26								
6AB5, 6AC5	Vol.	19-1291	15	MR48	M26			18-2005	1	HD684					5	6A7, 78, 75, 42, 80	175	
								18-2006	1	RS216							115	
								18-928	15	TC26								
6B8	Vol.	19-1291	17	MR48	M26			18-2002	4	TCS71					8	78, ‡76, 6K7, 6J7, 42, 6E5, 80	175	8-2
	Tone	19-1317	21	MR45				18-928	15	TC26								
6D6	Vol.	19-1291	17	MR48	M26			18-2003	8	TN125					5	6A7, 78, 75, 43, 25Z5, L49B	175	8-3
								18-928	15	TC26								
6F6, 6FB6	Vol.	19-2006	17	MR48				18-2005	1	HD684					6	6A8, 6K7, 6Q7, 6F6, 6G5, 5Z4	175	8-4
	Tone	19-1317	21	MR45				18-2006	1	RS216								
								18-928	15	TC26								
6J4	Vol.	19-1296	6	MR18	M26			18-2006	1	RS216		72-2001	See Note	C8	4	6A7,‡15, 38	175	
								18-928	15	TC26								
								.015		Buffer	B14							
6M6	Vol.	19-1315	17	MR48				18-2003	11	TN125					5	6A7, 78, 75, 43, 25Z5, L49B	115	12-2,3
	Tone	19-1317	21	MR45				18-928	15	TC26								
6P4	Vol.	19-1315	12	MR48											4	1C6, 1A4, 1B4, 1F4	175	
6S12	Vol.	19-2005	15	MR48	M26			18-721	4	RS213					12	‡6K7, 6A8, 6H6, ‡6F5, ‡6L6, ‡5Z4, 6G5	456	
	Tone	19-2004	21	MR45	M27			18-2004	14	TC70								
								18-928	15	TC26								
6T11	Vol.	19-1291	18	MR48	M26			18-721	4	RS213					11	6A8, ‡6K7, 6H6, ‡6F5, 6G5,‡6F6,‡80	456	9-3
	Tone	19-1317	21	MR45				18-2005	4	HD684								
7A5	Vol.	19-1291	18	MR48	M26			18-2005	1	HD684					5	6A7, 78, 75, 42, 80	175	
	Tone	19-1317	21	MR45				18-2006	1	RS216								
								18-928	15	TC26								
7AB5	Vol.	19-1291	18	MR48	M26			18-2005	1	HD684					5	6A7, 78, 75, 42, 80	115	
	Tone	19-1317	21	MR45				18-2006	1	RS216								
								18-928	15	TC26								
7AC5	Vol.	19-1291	18	MR48	M26			18-2005	1	HD684					5	6A7, 78, 75, 42, 80	175	
	Tone	19-1317	21	MR45				18-2006	1	RS216								
								18-928	15	TC26								
7R6	Vol.	19-1291	18	MR48	M26			18-2003	8	TN125					5	6A7, 78, 75, 25L6, 25Z5	175	13-10
	Tone	19-1317	21	MR45				18-928	15	TC26								

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WILCOX-GAY—Continued																		
7BA6	Vol.	19-1291	18	MR48	M26			18-2003	8	TN125					5	6A7, 78, 75, 25L6, 25Z5	175	13-11
	Tone	19-1317	21	MR45				18-928	15	TC26								
7C6, 7CB6	Vol.	19-1315	17	MR48				18-2005	1	HD684					5	6A8, 6K7, 6Q7, 6F6, 5Z4	175	12-2,7
	Tone	19-1317	21	MR45				18-2006	1	RS216								
	Vol.	19-2006	17	MR48			A4	18-928	15	TC26								
7D6	Vol.	19-1315	18	MR48				18-2003	8	TN125					5	6A7, 78, 75, 25L6, 25Z5	175	
	Tone	19-1317	21	MR45				18-928	15	TC26								
7E5, 7EA5	Vol.	19-1291	18	MR48	M26			18-2008	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5Z4	456	
	Tone	19-1317	21	MR45				18-928	15	TC26								
7G5, 7GB5	Vol.	19-1291	18	MR48	M26			18-2005	1	HD684					5	6A7, 78, 75, 42, 80	175	
	Tone	19-1317	21	MR45				18-2006	1	RS216								
								18-928	15	TC26								
7J7, 7K7	Vol.	19-2008	17	MR48				18-721	1	RS213					7	[1]78, 6A7, 75, 42, 80	456	
	Tone	19-2009	21	MR45				18-2005	1	HD684								
								18-928	15	TC26								
7R5	Vol.	19-2008	17	MR48											5	1C7G, [2]1D5G, 1H6G, 1F5G	456	
	Tone	19-2010	21	MR45	M27													
7S5 (Chassis)	Vol.	19-2007	18	MR48	M26			18-2009	1	2N513					5	6A7, 78, 75, 43, 25Z5	456	10-3
								18-928	15	TC22								
7T5	Vol.	19-2007	18	MR48	M26			18-2009	1	2N513					5	6A7, 78, 75, 43, 25Z5	456	
	Tone	19-2009	21	MR45				18-928	15	TC26								
7X10 (Police Receiver)	Vol.	10-2007	75	MR48	M26			18-721	‡	RS213					10	[1]78, 6A7, 6H6, [2]76, 42, 80	175	
	Tone	19-2010	‡	MR45	M27			18-928	15	TC26								
	Muter	19-1296	8	MR18	M26													
8A5	Vol.	19-2007	18	MR48	M26			18-2008	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5Z4	456	
8C4	Vol.	19-2011	7	MR22	M26			18-2010	23	TC44					4	6K7, 6J7, 25L6, 25Z6		12-13
								18-2011	23	TC42								
								18-2012	15	TC22								
8D5	Vol.	19-2007	18	MR48	M26			18-2010	1	TC44					5	6A7, 6D6, 75, 42, 25Z5	456	10-5
	Tone	19-2009	21	MR45				18-2011	1	TC42								
								18-928	15	TC26								
8E5	Vol.	19-2007	18	MR48	M26			18-2014	23	TC71					5	6A7, 6D6, 75, 42, 80	456	10-6
	Tone	19-2009	21	MR45				18-2013	23	TC70								
8J5	Vol.	19-2012	18	MR48	M26			18-2011	8	TC42					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	10-7
								18-2010	8	TC44								
								18-2012	15	TC22								
8K2								18-2010	24	TC44					2	6A7, 25Z5		12-11
								18-2011	24	TC42								
8L7	Vol.	19-2007	17	MR48	M26			18-721	1	RS213					7	6A7, 6D6, [2]75, [2]42, 80	456	10-8
	Tone	19-2009	22	MR45				18-2006	1	RS216								
								18-2012	15	TC22								
8N7	Vol.	19-2007	17	MR48	M26			18-721	1	RS213					7	6A7, 6D6, [2]75, [2]42, 80	456	10-8
	Tone	19-2009	22	MR45				18-2006	1	RS216								
								18-2012	15	TC22								
8P2								18-2010	24	TC44					2	6A8GT, 5Z4GT		
								18-2011	24	TC42								
8R4	Vol.	19-2008	18	MR48											4	1A7G, 1N5G, 1H5G, 1C5G	456	
9A2								19-2010	24	TC44					2	12A8, 35Z4		11-5
								18-2011	24	TC42								
9B3	Vol.	19-2013	50	MR44	M26			18-2016	24	TC48					3	12A8, 35L6, 25X6		
	Tone	19-2013	21	MR44	M26			18-2011	24	TC42								
								18-2012	15	TC22								
9C5	Vol.	19-2012	18	MR48	M26			18-2010	6	TC44					5	12A8, 12K7, 12Q7, 35L6, 45Z5	456	12-11
								18-2011	6	TC42								
								18-2012	15	TC22								
9E5	Vol.	19-2017	18	MR53	M27			18-2018	78/76	FP409					5	1A7, 1N5, 1H5, 1A5, 45Z5	456	11-15,16
9F2	Vol.	19-2013	50	MR44	M26			18-2010	24	TC44					2	12SA7, 35Z4		
								18-2011	24	TC42								
9G3	Vol.	19-2013	50	MR44	M26			18-2016	24	TC48					3	12A8, 25X6, 35L6		
	Tone	19-2013	21	MR44	M26			18-2011	24	TC42								
								18-2012	15	TC26								
9J9	Vol.	19-2014	17	MR48	M26			18-2017	1/13/15	FP424					9	6A8, 6K7, [2]6Q7, 6J7, [2]6K6, 6U5/6G5, 5W4	456	11-7-12
	Tone	19-2009	22	MR45				18-2012	15	TC22								
9L5	Vol.	19-2014	17	MR48	M26			18-2015	1	TC71					5	6A8, 6K7, 6Q7, 6K6, 5W4	456	11-6
	Tone	19-2009	22	MR45				18-2012	15	TC22								
9M5	Vol.	19-2007	15	MR48	M26			18-2010	1	TC44					5	12J7, 12Q7, 35L6, 6N5, 45Z5		11-21
	Tone	19-2009	22	MR45				18-2011	13	TC42								
								18-2012	15	TC22								
9N7	Vol.	19-2014	17	MR48	M26			18-2015	1	TC71					7	6A8, 6K7, [2]6Q7, [2]6K6, 5W4	456	11-19,20
	Tone	19-2009	34	MR45				18-2006	1	RS216								
								18-2012	15	TC22								
9P7	Vol.	19-2014	17	MR48	M26			18-2015	1	TC71					7	6A8, 6K7, [2]6Q7, [2]6K6, 5W4	456	11-17,18
	Tone	19-2009	34	MR45				18-2006	1	RS216								
								18-2012	15	TC22								
9Q5	Vol.	19-2014	15	MR48	M26			18-2017	1/13/15	FP424					5	6J7, 6Q7, 6U5, 6G5, 6K6, 5W4		11-13,14
	Tone	19-2009	22	MR45				18-2012	15	TC22								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WILCOX-GAY—Continued																		
9R5	Vol.	19-2014	17	MR48	M26			18-2010	1	TC44					5	12A8, 12K7, 12Q7, 35L6, 45Z5	456	
								18-2011	13	TC42								
								18-2012	15	TC22								
9-559 (8T6)	Vol.	19-2008	17	MR48				18-2014	1	TC71					5	6A8, 6D6, 75, 42, 80	456	
	Tone	19-2009	21	MR45				18-2013	1	TC70								
								18-2012	15	TC22								
9-569 (8S5)	Vol.	19-2008	17	MR48				18-2014	1	TC71					6	6A8, 6D6, 75, 42, 80, 6E5	456	
	Tone	19-2009	21	MR45				18-2013	1	TC70								
								18-2012	15	TC22								
9-689 (8V8)	Vol.	19-2007	17	MR48	M26			18-2005	1	HD684					8	6A7, 6D6, [2]75, [2]42, 6E5, 80	456	
	Tone	19-2009	17	MR45	M26			18-2015	1	TC71								
								18-2012	15	TC22								
WINDHAM—See Airking																		
WINGS—See Goodyear Service.																		
RUDOLPH WURLITZER—Also see All American Mohawk "Lyric"																		
Model "B" 1930-31	Vol.	5740	25	DRP169											6	[2]32, 30, [2]31		
C4, M4	Vol.		‡	MR53	M26			16	10	TC55					4	6A7, 6B7, 43, 25Z5	456	4-1, 5-10
								8-4-10	10/15	3S579								
P5	Vol.		17	MR48	M26			Y3764RA	6/15	3S582/TN111	B98				5	6A7, 78, 75, 43, 12Z3	456	4-2, 5-11
SA5	Vol.		18	MR48				Y3715RA	1/15	3S579					5	2A7, 58, 2A6, 2A5, 80	175	4-3, 5-12
	Tone		22	MR18	M26			10	15	TC22								
SU5	Vol.		17	MR48	M26			16-12-10	6/15	3N527					5	6A7, 78, 75, 43, 12Z3	456	4-5, 5-15
	Tone		22	MR21														
SA6	Vol.		18	MR48				8-8	1	RM262					6	2A7, [2]58, 2A6, 2A5, 80	175	4-4, 5-13
	Tone		22	MR18	M26			10	15	TC22								
B6	Vol.		25	DRP244											5	1A6, [2]34, 32, 33, 10AB	175	5-19
	Tone		22	MR21	M26													
D.C. 7, 110 volts	Vol.	1821	24		‡		See Note A5	1.5-2	1	See Note	B7				7	[2]33, [2]36, [2]37	175	
	Tone	1587	34	MR33														
S40	Vol.		2	MR24				8, 8	1	ST595					4	47, [2]57, 80	175	
								10	19	TC22								
S50	Vol.		6	MR15	M26			8, 8	1	RS213					5	47, [2]57, 58, 80	175	
	Tone		22	MR18				10	19	TC22								
U50	Vol.		6	MR24	M26			16-12-10	6/15	3N527					5	[2]44, 43, 25Z5	485	4-6
A60	Vol.		‡	MR42				Y3773RA	1/15	3S579			292	C3	6	6B7, [2]78, 6A7, 41, 84	485	4-7
	Tone		22	MR21				.02		Buffer	B14							
S63	Vol.		42	H				6900	1	RS213					6	24, 27, [2]35, 47, 80	175	
	Tone		22	MR18				10	15	TC22								
DC65, 110 volts	Vol.		8	G				3.5	‡	See Note	B11				6	[2]33, 36, 37, [2]39	175	
	Tone		34	MR33														
SA65	Vol.		15	MR48	M26			8, 8	1	RS213					6	47, 55, 57, [2]58, 80	175	
	Tone		22	MR18				10	16	TC22								
B80	Vol.		43	DRP169				8	12	RS213					8	[2]30, [2]34, 32	175	
	Tone		21	MR44														
SW80	Vol.		15	MR48				8, 8	1	RS213					8	47, [2]56, [2]57, [2]58, 80	485	
	Tone		22	MR18														
SW88	Vol.		15	MR48				8, 8	1	RS213					8	[2]57, [2]58, [2]56, 2A5, 80	485	4-8, 5-16
	Tone		22	MR18	M26			10	15	TC22								
SA90	Vol.		45	MR48	M26			8, 8	1	RS213					9	[2]24, 27, [2]35, [2]47, 55, 80	175	
	Tone		21	MR48				10	15	TC22								
	Sen.		‡	F		See Note A4												
SA91	Vol.		45	MR48	M26			8, 8	1	RS213					9	[2]47, 56, [2]57, [2]58, 55, 80	175	
	Tone		21	MR48				10	15	TC22								
	Sen.		‡	F		See Note A4												
SA91A	Vol.		45	MR48				8, 8	1	RS213					9	[2]57, [2]58, 56, 55, [2]2A5, 80	175	4-9, 5-14
	Tone		21	MR48	M26			10	15	TC22								
	Sen.		‡	F														
SA120	Vol.		45	MR48				8, 8	1	RS213					12	[2]58, [2]56, [2]57, [2]46, 80	175	4-10
	Tone		21	MR48				5	15	TC32								
	Supp.		‡	F				5	17	TC32								
SA130	Vol.		15	MR48				8, 8, 8	7	RS213					13	[2]47, [2]56, [2]57, [2]58, 82	175	
	Tone		39	MR48	M26			5	15	TC32								
	Sen.		8	H		See Note A4												
SA133	Vol.		15	MR53				8, 8, 8	7	RS213					13	[2]56, [2]57, [2]58, [2]2A5, 82	175	4-11, 5-17
	Tone		21	MR48	M26													
450	Vol.		6	F7	6	1		Y3715RA	1/15	3S579					5	[2]58, 57, 2A5, 80	456	5-1,2
454	Vol.		18	MR48	M26			Y3715RA	1/15	3S579					5	6A7, 6D6, 75, 41, 80	456	5-4
								10	15	TC22								
460	Vol.		17	UM154-SS3				8-6-10	4/15	3S579	B3		292	C3	6	41, 6B7, [2]6D6, 84	175	5-5,6
	Tone		22	MR21				.02		Buffer	B14							
470, 471	Vol.		18	MR48				8-8	1	2N518					7	[2]6D6, 76, 6A7, 75, 41, 80	370	5-7,8
	Tone		22	MR18				10	15	TC22								
480	Vol.		18	MR48				8	1	ST595					7	[2]6D6, 6A7, 75, 41, 80	456	5-9
	Tone		21	MR39				12	1	ST597								
								10	15	TC22								
U500	Vol.		17	MR48	M26			Y3764RA	6/15	3N527					5	6A7, 78, 6B7, 43, 25Z5	456	4-12

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH																		
A, B, C, D (2004)	Vol.	63-141	‡	Order from	Mfr.			22-87	1	RS213					6	§24, §45, 80		1-26
	Tone	63-142	34	Order from	Mfr.			22-84	1	TC70								
AH	Vol.	63-161	8	SRP262	6			22-118	4	RS213					8	§27, §51, 24, 47, 80	175	1-23,24
	Tone	63-154	22	MR53				22-119	4	RS213								
BH (2021)	Vol.	63-181	7	G	6			22-132	26	TC71					7	§51, 24, §27, 47, 80	175	2-11
	Tone	63-200	22	MR33				22-133	26	TC70								
								22-131	26	TC71								
CH	Vol.	63-161	8	SRP262	6			22-118	4	RS213					8	§27, §51, 24, 47, 80	175	1-23,24
	Tone	63-154	21	MR53				22-119	4	RS213								
L (2009-C)	Vol.	63-153	6	MR18				22-87	1	RS213					5	§24, 45, 80		1-27
								22-102	1	RS213								
LH, MH (2022)	Vol.	63-209	8	A10MP	6			22-131	4	TC71					7	§51, 24, §27, 47, 80	175	2-12
	Tone	63-200	34	MR48				22-140	4	TC71								
LP (2009CP)	Vol.	63-164	6	MR18				22-119	1	RS213					5	§51, 24, 47, 80		1-25
								22-118	1	RS213								
RH (2012)	Vol.	63-161	8	SRP262	6			22-118	4	RS213					8	§27, §51, 24, 47, 80	175	1-23,24
	Tone	63-154	21	MR53				22-119	4	RS213								
S7000, S7001, S7002, S7003								22-876	24	2N514					2	12SA7GT, 35Z4GT		
S8500, S8501								22-876	24	2N514					2	12SA7GT, 35Z4GT		
S8500Z								22-1061	24	2N509					2	7B8, 25Z6G		
S9000								22-876	24	2N514					2	12SA7GT, 35Z4GT		
S9001, S9002 (Phono. Osc.)								22-1061	24	2N509					2	7B8, 25Z6G		13-47
S9005 (Ch. 6B25)	Vol.	63-1272	124	MK401				22-1320	46	TC78					6	7G7, 7C7, 7A6, 7B4, 6V6G, 5Y4G		13-48
								22-1321	46	FP234/TC65	B8							
								22-991	13	2S569								
WH (2022)	Vol.	63-209	8	A10MP	6			22-131	4	TC71					7	§51, 24, §27, 47, 80	175	2-12
	Tone	63-200	34	MR48				22-140	4	TC71								
								8-8	4	TCS71	B10							
4B106, 4B131, 4B132 (5406)	Vol.	63-534	18	MR48	M26			22-419	1	2N516		190-6	246	C3	4	§15, 75, 38	456	7-1,2
	Tone	63-469	34	MR44				22-225	15	TC22								
								.01-.01		Buffer	B14							
4B231 (Chassis 5409)	Vol.	63-547	18	MR48	M26			22-582	1/15	3S579		190-6	246	C3	4	6D8G, 6S7G, 6T7G, 38	456	8-1,6
								.01-.01		Buffer	B14							
4B313, 4B355 (5410)	Vol.	63-955	18	UM147-SS18	M26			22-739	46	FP380		190-6	246	C3	4	6A8G-6D8G, 6K7G-6S7G, 6Q7G-6T7G, 6G6G	455	9-1
								.01-.01		Buffer	B14							
4B314, 4B317 (5411)	Vol.	63-955	18	UM147-SS18	M26			22-739	46	FP380		190-6	246	C3	4	6A8G-6D8G, 6K7G-6S7G, 6Q7G-6T7G, 6G6G	455	9-3
								.01-.01		Buffer	B14							
4B422, 4B437, 4B466, 4B468 (Chassis 5417)	Vol.	63-1079	18	UM161-SS33	M26			22-742	46	FP380		190-17	Order from Mfr.		4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-1
								22-961	78	WP057	B223							
								.04-.04		Buffer	B14							
4B515 (Ch. 4A01)	Vol.	63-1079	18	UM161-SS33	M26			22-742	46	FP380		190-17	Order from Mfr.		4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-1
								22-961	78	WP057	B223							
								.04-.04		Buffer	B14							
4B536 (Ch. 4A03)	Vol.	63-1079	18	UM161-SS33	M26			22-742	46	FP380		190-17	Order from Mfr.		4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-1
								22-961	78	WP057	B223							
								.04-.04		Buffer	B14							
4B639 (Ch. 4B04)	Vol.	63-1079	18	UM161-SS33	M26			22-742	46	FP390		190-17	Order from Mfr.		4	1A7G, 1N5G, 1H5G, 1Q5G	455	13-1,3
								22-961	78	TC1505								
								.04-.04		Buffer	B14							
4F133 (Chassis 5407)	Vol.	63-548	17	MR53	M27			22-522	1	2N516		190-8	W246	C3	4	1C7, 1D5, 1F7, 1F5	456	8-2
								.01-.01		Buffer	B14							
4F227 (Chassis 5408)	Vol.	63-548	17	MR53	M27										4	1C7G, 1D5G, 1F7G, 1F5G	456	8-3
4K310 (5412)	Vol.	63-997	18	UM154-SS26	M27			22-684	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	10-5
4K329 (Ch. 5413)	Vol.	63-548	17	MR53	M27			22-684	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	10-6
4K331, 4K355 (Ch. 5412)	Vol.	63-997	18	UM154-SS26	M27			22-684	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	456	10-5
4K400D, 4K400L, 4K400M, 4K400S (Ch. 5416)	Vol.	63-1026	18	MK402	M27			22-684	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	14-1,2
4K402 (Ch. 5419)	Vol.	63-1034	18	Order from	Mfr.			22-684	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-2
4K422, 4K435, 4K465, 4K466 (Ch. 5420)	Vol.	63-1072	18	UM161-SS33	M27			22-684	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-3
4K515 (Ch. 4A02)	Vol.	63-1072	18	UM161-SS33	M27			22-684	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	12-2

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
4K535, 4K570 (Ch. 4A04)	Vol.	63-1072	18	UM161-SS33	M27			22-684	12	TC42					4	1A7G, 1N5G, 1H5G, 1C5G	455	12-2
4K600 (Ch. 4B01)	Vol.	63-1176	18	1 Meg			A3	22-1176	12	TC42					4	1R5, 1T4, 1S5, 1S4	455	12-30
4K616 (Ch. 4B02)	Vol.	63-1235	18	MK402	M27			22-684	12	TC42					4	1A7G, 1N5GT, 1H5GT, 1C5G	455	13-3
4K635 (Ch. 4B03)	Vol.	63-1235	18	MK402	M27			22-684	12	TC42					4	1A7G, 1N5GT, 1H5G, 1C5G	455	13-3
4K640 (Ch. 4B05)	Vol.	63-1236	18	TM243-SS25	M27			22-684	12	TC42					4	1R5, 1N5GT, 1H5GT, 1C5GT	455	13-4,5
4K658 (Ch. 4B03)	Vol.	63-1235	18	MK402	M27			22-684	12	TC42					4	1A7G, 1N5GT, 1H5G, 1C5G	455	13-3
4K2616 (Ch. 4B02)	Vol.	63-1235	18	MK402	M27			22-684	12	TC42					4	1A7G, 1N5GT, 1H5G, 1C5G	455	13-3
4P26, 4T26 (Chassis 5403)	Vol.	63-455	6	D7	6			22-407	4/13	RM265	B58				4	6A7, 6F7, 42, 80, or 6A8, 6P7, 6F6, 5Y3	456	6-17,18
4P51, 4T51 (Chassis 5401)	Vol.	63-455	6	D7	6			22-407	4/13	RM265	B58				4	6A7, 6F7, 42, 80, or 6A8, 6P7, 6F6, 5Y3	456	6-17,18
4V31, 4V59 (5405)	Vol.	63-468	18	MR44	M26			22-419	1	2N516		190-5	246	C3	4	‡15, 75, 38	456	6-19,20
	Tone	63-469	34	MR44				22-225	15	TC22								
								.006		Buffer	B14							
5A119, 5A126, 5A127, 5A151 (Ch. 5517A)	Vol.	63-525	18	MR48	M27			22-294	4	RS216					5	6A8G, 6K7, 6Q7G, 6F6G, 5W4/5Y3	456	10-15
	Tone	63-521	34	MR33				22-505	4	RS215								
5A318, 5A325 (Ch. 5532A)	Vol.	63-998	18	UM147	M26		A96	22-775	4	TC71					5	6J8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	10-13
								22-776	4	TC71								
5D610, 5D610W, 5D625 (Ch. 5B01)	Vol.	63-1112	18	MK401	M26			22-1186	24	FP357					5	12SA7G, 12K7GT, 12SQ7GT, 50L6GT, 35Z5G	455	12-31
5D611 (Ch. 5B02)	Vol.	63-1112	18	MK401	M26			22-1186	46	FP357					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5G	455	13-6
5D627 (Ch. 5B02)	Vol.	63-1112	18	MK401	M26			22-1186	46	FP357					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5G	455	13-6
5D2611 (Ch. 5B02)	Vol.	63-1112	18	MK401	M26			22-1186	46	FP357					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5G	455	13-6
5F134 (Chassis 5518)	Vol.	63-541	17	MR53	M27			22-522	1	2N516		190-8	W246	C3	5	1C7, 1D5, 1F7, 1H4, 1J6	456	8-4
	Tone	63-521	44	MR33				.01-.01		Buffer	B14							
5F166 (Chassis 5518)	Vol.	63-541	17	MR53	M27			22-522	1	2N516		190-8	W246	C3	5	1C7, 1D5, 1F7, 1H4, 1J6	456	8-4
	Tone	63-521	44	MR33				.01-.01		Buffer	B14							
5F233, 5F251 (Chassis 5522)	Vol.	63-541	15	MR53	M27										5	1C7G, 1D5G, 1F7G, 1H4G, 1J6G	456	8-5,6
5G401 (Ch. 5537)	Vol.	63-1026	18	MK402	M27			22-918	46	2N514					5	1A7G, 1N5G, 1A5G, 1H5G, 117Z6G	455	
								22-871	46/24	FP354								
5G441, 5G442, 5G461 (Ch. 5539)	Vol.	63-1080	18	Order from	Mfr.			22-879	46	FP214	B211				5	1A7G, 1N5G, 1H5G, 1Q5G, 117Z6G	455	
								22-880	46/24	FP354								
5G484 (Ch. 5538)	Vol.	63-1026	18	MK402	M27			22-918	46	2N514					4	1A7G, 1N5G, 1H5G, 1A5G	455	11-6
								22-871	46/24	FP354								
5G438, 5G467 (Ch. 5536)	Vol.	63-1081	18	Order from	Mfr.			22-879	46	FP214	B211				5	1A7G, 1N5G, 1H5G, 1Q5G, 117Z6G	455	
								22-928	46/13	2N514								
5G500, 5G501 (Ch. 5A01)	Vol.	63-1121	18	MK402	M27			22-1026	76	FP354	B211				5	1LA6, 1LN5, 1LH4, 1LB4, 117Z6G	455	12-3
								22-1027	76	FP211	B211							
5G504 (Ch. 5A03)	Vol.	63-1126	18	MK402	M27			22-1026	76	FP354	B211				5	1LA6, 1LN5, 1LH4, 1LB4, 117Z6G	455	12-4,9
								22-1027	76	FP211	B211							
5G510, 5G534 (Ch. 5A10)	Vol.	63-1144	18	1 Meg			A3	22-1026	76	FP354	B211				5	1LA6, 1LN5, 1LH4, 1LB4, 117Z6G	455	12-5
								22-1027	76	FP211	B211							
5G537, 5G572 (Ch. 5A02)	Vol.	63-1124	18	Order from	Mfr.			22-1047	76	FP371	B211				5	1A7G, 1N5G, 1H5G, 3Q5G, 117Z6G	455	12-6
								22-1027	76	FP211	B211							
5G603 (Ch. 5B07)	Vol.	63-1126	149	MK402	M27			22-1026	46	FP354	B8 / B211				5	1LA6, 1LN5, 1LH4, 1LB4, 117Z6G	455	13-7,5
								22-1027	46/13	FP211								
5G617 (Ch. 5B05)	Vol.	63-1241	18	TM243-SS25	M27			22-1026 or 22-1281	46	FP354	B8 / B211				5	1LA6, 1LN5, 1LH4, 1LB4, 117Z6G	455	13-9
								22-1027 or 22-1286	46/13	FP211								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
5G636 (Ch. 5B06)	Vol.	63-1236	18	TM243-SS25	M27			22-1026 or 22-1281	46	FP354	B8 or B112				5	1LA6, 1LN5, 1LH4, 1LB4, 117Z6G	455	13-9
5G2617 (Ch. 5B05)	Vol.	63-1241	18	TM243-SS25	M27			22-1027 or 22-1286	46/13	FP211								
								22-1026 or 22-1281	46	FP354	B8 or B211				5	1LA6, 1LN5, 1LH4, 1LB4, 117Z6G	455	13-9
								22-1027 or 22-1286	46/13	FP211								
5J217, 5J247, 5J255 (Chassis 5524)	Vol.	63-689	18	MR48	M27			22-577	1/15	3S579		190-11	294	C3	5	6D8G, 6S7G, 6T7G, 38, 6ZY5G	456	8-6,8
								.02-.02		Buffer	B14							
5J217T (5524T)	Vol.	63-689	18	MR48	M27			22-653	1/13/15	3S582/TC22		190-11	294	C3	5	6D8G, 6S7G, 6T7G, 38, 6ZY5G	456	9-5
								.02-.02		Buffer	B14							
5K637 (Ch. 5B04)	Vol.	63-1236	18	TM243-SS25	M27			22-684	12	TC42					5	[2]1N5GT, 1A7GT, 1115GT, 1C5GT	455	13-10
5L228, 5L237 (Ch. 5525A)	Vol.	63-511	18	UM154	M26		A96	22-596	25	3S584	B8				5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	456	10-15
5M90 (Chassis 5510)	Vol.	63-434	18	MR48	M26	EC256		22-388	4	TCS71		190-4	854	C3	5	6A7, 6D6, 75, 41, 6Z4	456	7-3,4
								.01		Buffer	B14							
5M191 (Chassis 5520)	Vol.	63-551	17	MR53	M27		A31	22-528	23	2S567		190-9	294	C3	5	6A8G, 6K7G, 6Q7G, 6F6G, 6X5 or 0Z4	465	8-9,12
								.008		Buffer	B14							
5M291 (Ch. 5527)	Vol.	63-939	18	TM230-SS34	M27			22-659	1/15	3S579		190-13	853	C3	5	6A8G, 6K7G, 6Q7G, 6F6G, 6X5G	455	10-9,10
								.006		Buffer	B14							
5M294 (Ch. 5530)	Vol.	63-952	18	TM230-SS34	M26			22-659	1/15	3S579		190-13	853	C3	5	6A8G, 6K7G, 6Q7G, 6F6G, 6X5G	456	10-11
								.006		Buffer	B14							
5R123, 5R135, 5R165 (Chassis 5519)	Vol.	63-547	18	MR48	M26			22-505	4	RS215					5	6A8, 6K7, 6Q7, 6F6, 5W4, or glass equivalents	456	8-13
								22-506	4	RS216								
5R216, 5R226, 5R236 (Chassis 5526)	Vol.	63-565	18	MR48	M26			22-596	4	3S584	B8				5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	456	8-14
								8	4	RS213	B10							
								14	4	RS216	B10							
5R303, 5R312, 5R316, 5R317, 5R337 (5528)	Vol.	63-955	18	UM147-SS18	M26			22-691	4	TC71					5	6A8G, 6K7G, 6Q7G, 6K6G, 6X5G	455	9-7,8
								22-692	4	TC71								
5R680 (Ch. 5B03)	Vol.	63-1112	18	MK401	M26			22-1026	1	FP354	B8 or B211				5	12SA7G, 14R7, 12SK7GT, 50L6GT, 35Z5G	455	13-10
5R680X, 5R680XJ (Ch. 5B14)	Vol.	63-1112	18	MK401	M26			22-1026	1	FP354	B8 or B211				5	12SA7G, 14R7, 12SK7GT, 50L6GT, 35Z5G	455	13-11,5
5R686, 5R686J (Ch. 5B13 Phono)	Vol.	63-1112	18	MK401	M26			22-1026	1	FP354	B8 or B211				5	12SA7G, 14R7, 12SK7GT, 50L6GT, 35Z5G	455	13-12
5S29, 5S56 (Chassis 5513, 5513A)	Vol.	63-366	18	MR44	M26			22-125	23	RS213					5	6A8, 6K7, 6B6, 6F6, 5Z4, or glass equivalents	252.5	7-5,6
	Tone	63-475	34	MR33														
5S119, 5S126, 5S127, 5S150, 5S151, 5S161 (5516)	Vol.	63-520	18	MR48	M26			22-505	4	RS215					5	6A8, 6K7, 6Q7, 6F6, 5W4, or glass equivalents	456	7-2,7
	Tone	63-521	34	MR33				22-506	4	RS216								
5S201, 5S218, 5S220, 5S228, 5S237, 5S250, 5S252 (Chassis 5521)	Vol.	63-565	18	MR48	M26			22-596	25	3S584					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	456	8-22
								8	25	RS213	B10							
								16	25	RS216	B10							
5S218AT, 5S228AT, 5S237AT (5521AT)	Vol.	63-929	124	MR48	M26			22-686	25	TC82					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	456	9-9,10
								22-634	25/13	3S584	B8							
5S313B (Ch. 5535BT)	Vol.	63-1027	18	‡		See Note	A5	22-775	4	TC71					5	6J8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	10-13
								22-776	4	TC71								
5S319, 5S327, 5S330, 5S338, 5S339 (5529)	Vol.	63-956	18	MK400	M26			22-700	4	TC71					5	6A8G, 6K7G, 6Q7G, 6K6G, 6X5G	455	9-11
								22-701	4	TC71								
5X230, 5X248, 5X274 (Ch. 5523)	Vol.	63-520	18	MR48	M26			22-647	1/13	2N518		190-10	Order from Mfr.		5	6A8G, 6K7G, 6Q7G, 6V6G, 6X5G	456	10-15
	Tone	63-521	34	MR33				22-648	1/15	3S579	B8							
								.1-.1		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
6A203, 6A223, 6A229, 6A239 6A241(Ch.5640AT)	Vol..	63-525	18	MR48	M27			22-633	25	TC82					6	6L7G, 6J5G, 6K7G,		
	Tone	63-934	34	MR33				22-637	25/13	3S584/TC70	B8					6Q7G, 6V6G, 5Y4G	456	10-19
6B107, 6B129, 6B164 (5635)	Vol.	63-522	124	MRT454	M26			22-459	1	2N516		190-6	246	C3	6	‡15, 6A7, 75, 76, 19	456	7-8,9
								.01-.01		Buffer	B14							
6B321 (5653)	Vol.	63-983	18	MK400	M26			22-742	46	FP380		190-6	246	C3	6	6D8G, ‡6S7G, 6T7G,		
	Tone	63-982	34	UM133-SS25				22-741	13	TC52						‡6G6G	455	9-17,18
								.01-.01		Buffer	B14							
6D116, 6D117, 6D118 (5633)	Vol.	63-517	18	MR48	M26			22-517	11	2N509					5	6A8, 6K7, 6Q7, 25A6,		
								22-518	11	TC52						25Z6, or glass		
								22-481	11	UR182	B10					equivalents	456	7-10,11
6D202, 6D219, 6D221, 6D238 (Chassis 5639)	Vol.	63-687	18	MR48	M26			22-560	1/15	3N533					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G	456	8-15,16
6D302, 6D311, 6D326, 6D336, 6D360 (5646)	Vol.	63-953	18	UM147-SS11	M26			22-681	25	TC48					5	6A8G, 6K7G, 6Q7G,		
								22-680	25	TC44						25L6G, 25Z6G	455	9-4
6D312, 6D316, 6D317, 6D337 (5647)	Vol.	63-955	18	UM147-SS18	M26			22-681	25	TC48					5	6A8G, 6K7G, 6Q7G,		
								22-680	25	TC44						25L6G, 25Z6G	455	9-13
6D315 (Ch. 5657)	Vol.	63-1004	18	Order from	Mfr.			22-681	25	TC48					5	6A8G, 6U7G, 6Q7G,		
								22-680	25	TC44						25L6G, 25Z6G	455	10-17
6D410, 6D411 (Ch. 5659)	Vol.	63-1028	18	Order from	Mfr.			22-835	1/15	3N533					5	12A8G, 12K7G, 12Q7G, 35L6G, 35Z5G	455	11-7
6D413, 6D414 (Ch. 5660, 5664)	Vol.	63-1028	18	Order from	Mfr.			22-835	1/15	3N533					5	12A8G, 12K7G, 12Q7G, 35L6G, 35Z5G	455	11-8
6D425 (Ch. 5659, 5663)	Vol.	63-1028	18	Order from	Mfr.			22-835	1/15	3N533					5	12A8G, 12K7G, 12Q7G, 35L6G, 35Z5G	455	11-7
6D426, 6D427, 6D446, 6D455 (Ch. 5660, 5664)	Vol.	63-1028	18	Order from	Mfr.			22-835	1/15	3N533					5	12A8G, 12K7G, 12Q7G, 35L6G, 35Z5G	455	11-8
6D510 (Ch. 6A01)	Vol.	63-1130	18	MK401	M26			22-1073	1/15	FP306					6	12J7G, 12SA7G, 12K7GT, 12SQ7GT, 35L6G, 35Z5G	455	12-7
6D512, 6D512W (Ch. 6A16)	Vol.	63-1130	18	MK401	M26			22-1073	1/15	FP306					6	14H7, 12SA7G, 12K7GT, 35L6GT, 12SQ7GT, 35Z5G	455	12-8
6D516 (Ch. 6A24)	Vol.	63-1130	18	MK401	M26			22-1014	1	FP211	B211				6	12J7G, 12SA7G, 12K7GT, 12SQ7GT, 35L6G, 35Z5G	455	12-32
6D520, 6D520W (Ch. 6A26)	Vol.	63-1149	18	TM230-SS22	M26			22-1014	1	FP211	B211				6	12J7G, 12SA7G, 12K7GT, 12SQ7GT, 35L6G, 35Z5G	455	12-34
6D525, 6D526 (Ch. 6A10)	Vol.	63-1112	18	MK401	M26			22-1014	1	FP211	B211				6	12J7G, 12SA7G, 12K7GT, 12SQ7GT, 35L6GT, 35Z5G	455	12-7
6D538 (Ch. 6A26)	Vol.	63-1149	18	TM230-SS22	M26			22-1014	1	FP211	B211				6	12J7G, 12SA7G, 12K7GT, 12SQ7GT, 35L6G, 35Z5G	455	12-34
6D539 (Ch. 6A16)	Vol.	63-1130	18	MK401	M26			22-1073	1/15	FP306					6	14H7, 12SA7G, 12K7GT, 12SQ7GT, 35L6GT, 35Z5G	455	12-8
6D612, 6D612W (Ch. 6B04)	Vol.	63-1112	18	MK401	M26			22-1014	1	FP211					6	12J7G, 12SA7G, 12SK7GT, 12SQ7GT, 35L6G, 35Z5G	455	13-13
6D614, 6D614W (Ch. 6B01)	Vol.	63-1236	18	TM243-SS25	M27			22-1014	1	FP211					6	14C7, 14Q7, 14R7, 14A7/12B7, 35L6G, 35Z5G	455	13-14
6D615, 6D615W (Ch. 6B05)	Vol.	63-1233	18	TM230-SS25	M26			22-1014	1	FP211					6	14C7, 14Q7, 14R7, 14A7/12B7, 35L6G, 35Z5G	455	13-15

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
6D620 (Ch. 6B14)	Vol.	63-1238	18	MK401	M26			22-1280	1	FP211					6	§12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5G	455	13-16
6D621 (Ch. 6B01)	Vol.	63-1236	18	TM243-SS25	M27			22-1014	1	FP211					6	14C7, 14Q7, 14R7, 14A7/12B7, 35L6G, 35Z5G	455	13-14
6D622 (Ch. 6B04)	Vol.	63-1112	18	MK401	M26			22-1014	1	FP211					6	12J7G, 12SA7G, 12SK7GT, 12SQ7GT, 35L6G, 35Z5G	455	13-13
6D623 (Ch. 6B05)	Vol.	63-1233	18	TM230-SS25	M26			22-1014	1	FP211					6	14C7, 14Q7, 14R7, 14A7/12B7, 35L6G, 35Z5G	455	13-15
6D624 (Ch. 6B14)	Vol.	63-1238	18	MK401	M26			22-1280	1	FP211					6	§12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5G	455	13-16
6D628 (Ch. 6B04)	Vol.	63-1112	18	MK401	M26			22-1014	1	FP211					6	12J7G, 12SA7G, 12SK7GT, 12SQ7GT, 35L6G, 35Z5G	455	13-13
6D629 (Ch. 6B01)	Vol.	63-1236	18	TM243-SS25	M27			22-1014	1	FP211					6	14C7, 14Q7, 14R7, 14A7/12B7, 35L6G, 35Z5G	455	13-14
6D630 (Ch. 6B05)	Vol.	63-1233	18	TM230-SS25	M26			22-1014	1	FP211					6	14C7, 14Q7, 14R7, 14A7/12B7, 35L6G, 35Z5G	455	13-15
6D644 (Ch. 6B14)	Vol.	63-1238	18	MK401	M26			22-1280	1	FP211					6	§12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	13-16
6D2612 (Ch. 6B04)	Vol.	63-1112	18	MK401	M26			22-1014	1	FP211					6	12J7G, 12SA7G, 12SK7GT, 12SQ7GT, 35L6G, 35Z5G	455	13-13
6D2614 (Ch. 6B01)	Vol.	63-1236	18	TM243-SS25	M27			22-1014	1	FP211					6	14C7, 14Q7, 14R7, 14A7/12B7, 35L6G, 35Z5G	455	13-14
6D2615 (Ch. 6B05)	Vol.	63-1233	18	TM230-SS25	M26			22-1014	1	FP211					6	14C7, 14Q7, 14R7, 14A7/12B7, 35L6G, 35Z5G	455	13-15
6DL120, 6DL122 (Ch. 5636 AC-DC)	Vol.	63-538	18	MR48	M27			22-517 22-516	27 27	2N509 ST595					5	6A8G, 6K7G, 6Q7G, 25A6G, 25Z6G, or 6A8, 6K7, 6Q7, 25A6, 25Z6	456	10-19
6G501, 6G505 (Ch. 6A19)	Vol.	63-1121	18	MK402	M27			22-1026 22-1159	‡ ‡	FP354 B211 FP306 B211					6	§1LN5, 1LA6, 1LH4, 3Q5G, 117Z6G	455	12-10
6G533 (Ch. 6A25)	Vol.	63-1178	18	1 Meg.			A19	22-1026 22-1159	46 46/‡	FP354 B211 FP306 B211					6	§1LN5, 1LA6, 1LH4, 3Q5G, 117Z6G	455	12-33
6G560 (Ch. 6A25)	Vol.	63-1178	18	1 Meg.			A19	22-1026 22-1159	46 46/‡	FP354 B211 FP306 B211					6	§1LN5, 1LA6, 1LH4, 3Q5G, 117Z6G	455	12-33
6G601D, 6G601L, 6G601M, 6G601MH, 6G601ML (Ch. 6B03)	Vol.	63-1231	18	MK402	M27			22-1026 22-1159	24 13/78	FP354 Order from Mfr.					6	§1LN5, 1LA6, 1LH4, 3Q5G, 117Z6G	455	13-17
6G638 (Ch. 6B09)	Vol.	63-1244	18	Order from Mfr.				22-1234 or 22-1298 22-1289 or 22-1047	12/78 24/13	Order from Mfr. FP371					6	§1N5GT, 1A7G, 1H5GT, 3Q5GT, 117Z6GT	455	13-18,5
6G660 (Ch. 6B09)	Vol.	63-1244	18	Order from Mfr.				22-1234 or 22-1298 22-1289 or 22-1047	12/78 24/13	Order from Mfr. FP371					6	§1N5GT, 1A7GT, 1H5GT, 3Q5GT, 117Z6GT	455	13-18,5
6J230, 6J257 (Chassis 5642)	Vol.	63-798	17	MR53	M27			22-577	1/15	3S579		190-11	294	C3	6	6D8G, 6S7G, 6T7G, 6L5G, 1J6G, 6ZY5G	456	8-17,18
	Tone	63-521	44	MR33				.02-.02		Buffer B14								
6J322, 6J357 (5654)	Vol.	63-991	18	UM144-SS22	M27			22-742 22-405 .02-.02	46 15 Buffer B14	FP380 TC32		190-11	294	C3	6	6D8G, 6S7G, 6T7G, §6G6G, 6ZY5G	455	9-19
6J436, 6J463 (Ch. 5679)	Vol.	63-990	124	DTM295-SS26	M27			22-771 22-974 .015-.015	46 13/15 Buffer B14	FP371 FP217 B223		190-11	859	C3	6	6D8G, 6S7G, 6T7G, §6G6G, 6ZY5G	455	11-9
6M90S, 6M90D (Chassis 5630)	Vol.	63-485	18	MR48	M26	EC256		22-464 .008	4 Buffer B14	TCS71		190-7	294	C3	6	§6K7G, 6A8G, 6Q7G, 6F6G, 6X5G	252.5	7-12,13
	Tone	63-487	22	Order from Mfr.														
6M91S, 6M91D (Chassis 5631)	Vol.	63-485	18	MR48	M26	EC256		22-464 .008	4 Buffer B14	TCS71		190-7	294	C3	6	§6K7G, 6A8G, 6X5G, 6Q7G, 6F6G	252.5	7-13,14
	Tone	63-487	22	Order from Mfr.														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
6M92 (Chassis 5632)	Vol.	63-514	18	UM147-SS17	M26			22-474	4	TCS71		190-7	294	C3	6	[26]K7G, 6A8G, 6Q7G, 6F6G, 6X5G	252.5	7-13,15
								.008		Buffer	B14							
6M192	Vol.	63-551	17	MR53	M27		A31	22-526	23	2S567		190-9	294	C3	6	[26]K7G, 6A8G, 6Q7G, 6F6G, 6X5 or 0Z4	262.5	8-19,21
								.008		Buffer	B14							
6M193, 6M194 (5637)	Vol./ Tone	63-549	145	SMD500				22-526	4	2S567		190-9	294	C3	5	[26]K7G, 6A8G, 6Q7G, 6F6G, 6X5 or 0Z4	252.5	8-20,21
								.008		Buffer	B14							
6M292, 6M293 (Ch. 5645)	Vol.	63-950	18	TM239-SS17				22-656	1/15	3S679		190-13	853	C3	6	[26]K7G, 6A8G, 6Q7G, 6V6G, 6X5G	252.5	10-21
								.006		Buffer	B14							
6M295 (Ch. 5650)	Vol.	63-980	18	DTM295-SS26				22-656	1/15	3S579		190-13	853	C3	6	[26]K7G, 6A8G, 6Q7G, 6V6G, 6X5G	252.5	10-23
								.006		Buffer	B14							
6M390	Vol.	63-995	18	Order from	Mfr.			22-721	24/15	FP332	B197	190-14	853	C3	6	[27]8, 6A7, 75, 42, 84	455	10-25,26
	Sen.	63-994	8	‡		See Note	A5	.012-.012		Buffer	B14							
6MF490	Vol.	63-1073	17	Order from	Mfr.			22-955	24/15	FP332		190-15	859	C3	6	[27]A7, 7B8, 7B6, 7C5, 7Y4	455	11-13-14
								.012-.012		Buffer	B14							
6MF590, 6MF591 (Ch. 6A21)	Vol.	63-1133	18	250M			A19	22-955	24/15	FP332		190-15	859	C3	6	[27]A7, 7B8, 7B6, 7C5, 0Z4/6Z5GT	455	12-41,42
								.006		Buffer	B14							
6MN495	Vol.	63-1040	18	TM240-SS3	M26			22-904	24/19	FP332		190-15	859	C3	6	[26]K7GT, 6SA7GT, 6Q7GT, 6K6GT, 6X5GT	455	11-15
								.006		Buffer	B14							
6MN496 (Ch. 5676)	Vol.	63-1040	20	TM240-SS3	M26			22-917	24/15	FP339		190-16	246	C3	6	[26]K7GT, 6SA7GT, 6Q7GT, [26]V6GT	455	11-16
								.007		Buffer	B14							
6MN595 (6A17)	Vol.	63-1128	18	250M			A19	22-904	24/15	FP332		190-15	859	C3	6	[27]A7, 7B8, 7B6, 7B5, 0Z4/6X5GT	455	12-45,46
								.006		Buffer	B14							
6MN695	Vol.	63-1266	18	Order from	Mfr.			22-1233	24/15	FP328		190-19	1100	C3	6	[27]A7, 7B8, 7B6, 7C5, 7Y4	265	
								.008		Buffer	B14							
6MW693	Vol.	63-1254	18	Order from	Mfr.			22-1233	24/15	FP328		190-19	1100	C3	6	[27]A7, 7B8, 7B6, 7C5, 7Y4	265	13-19,20
								.008		Buffer	B14							
6R481 (Ch. 5675)	Vol.	63-1028	18	Order from	Mfr.			22-894	1/15	FP331	B117				5	12A8G, 12K7G, 12Q7G, 35L6F, 50Z7G	455	11-11
								22-893	‡	ST599								
6R485 (Ch. 5672P)	Vol.	63-1028	18	Order from	Mfr.			22-894	1/15	FP331	B117				5	12A8G, 12K7G, 12Q7G, 35L6G, 50Z7G	455	11-12
								22-893	‡	ST599								
6R583 (Ch. 6A08)	Vol.	63-1112	18	MK401	M26			22-1014	1	FP211					6	12J7G, 12SA7G, 12K7GT, 12SQ7GT, 35L6G, 35Z5G	455	
6R592 (Ch. 6A08)	Vol.	63-1112	18	MK401	M26			22-1014	1	FP211					6	12J7G, 12SA7G, 12K7GT, 12SQ7GT, 35L6G, 35Z5G	455	13-21
6R631 (Ch. 6B02)	Vol.	63-1245	18	TM251-SS25	M26			22-1221	1	FP369	B8				6	7A7, 7Q7, 7R7, 7C7, 6K6GT, 6X5G	455	13-22,23
6R683, 6R684 (Ch. 6B06)	Vol.	63-1246	140	TM231-SS25	M26			22-1036	1	TC74					6	[26]SK7GT, 6SA7GT, 6SQ7GT, 6K6GT, 6X5GT	455	13-24
	Tone	63-1247	140	MK402				22-719	1	TC65								
6R687R, 6R688 (Ch. 6B06)	Vol.	63-1246	140	TM231-SS25	M26			22-1036	1	TC74					6	[26]SK7GT, 6SA7GT, 6SQ7GT, 6K6GT, 6X5GT	455	13-24
	Tone	63-1247	140	MK402				22-719	1	TC65								
6S27, 6S52 (Chassis 5619)	Vol.	63-456	18	MR44	M26			22-414	25	2S567					6	6A8, [26]K7, 6F6, 6H6, 5Y3	252.5	7-16,20
	Tone	63-458	34	MR24				22-420	15	TC22								
6S128, 6S137, 6S147, 6S152, 6S157 (5634)	Vol.	63-522	124	MRT454	M26			22-294	1	RS216					6	6A8, 6K7, 6F6, 6H6, 6F5, 5W4, or glass equivalents	456	7-17
								22-491	1/13	2N518								
6S203, 6S222, 6S223, 6S229, 6S239, 6S241 (Chassis 5638)	Vol.	63-520	18	MR48	M26			22-596	25	3S584	B8				6	6A8G, 6K7G, 6H6G, 6F5G, 6F6G, 5Y4G	456	8-23,24
	Tone	63-521	34	MR33				8	25	RS213	B10							
								14	25	RS216	B10							
6S254, 6S256 (Chassis 5644)	Vol.	63-799	124	MRT454	M26			22-551	25	RS216					6	6A8G, 6K7G, 6H6G, 6F5G, 6F6G, 5Y4G	456	8-33
								22-552	25	RS219								
6S254AT, 6S256AT (5644AT)	Vol.	63-936	45	MRT454	M26			22-633	25	TC82					6	6A8G, 6K7G, 6H6G, 6F5G, 6F6G, 5Y4G	456	9-21
								22-634	25/13	3S584	B8							
6S301, 6S302, 6S303, 6S304, 6S305, 6S306, 6S321, 6S322, 6S340 (5651)	Vol.	63-983	45	MK400	M26			22-718	25	TC74					6	6A8G, 6K7G, 6J5G, 6F5G, 6F6G, 6X5G	455	9-15
	Tone	63-982	34	UM133-SS25				22-719	25	TC74								
6S341, 6S362 (5649)	Vol.	63-799	20	MRT454	M26			22-551	25	RS216					6	6A8G, 6K7G, 6H6G, 6F5G, 6F6G, 5Y4G	456	9-23
								22-552	25	RS219								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
6S439, 6S469 (Ch. 5678)	Vol.	63-1030	124	TM251-SS25	M26			22-975	25	ST598					6	‡6K7G, 6A8G, 6Q7G, 6F6G, 6X5G	455	11-17
								22-976	25/13	FP234								
6S511, 6S527, 6S528 (Ch. 6A02)	Vol.	63-1118	18	MK401	M26			22-1029	4	3S584	B267				6	7H7, 7B8, 7A7, 7B6, 6K6G, 6X5G	455	12-13
6S532 (Ch. 6A05R)	Vol.	63-1123	124	SM317			A109	22-1036	4	TC74					6	7H7, 7B8, 7A7, 7B6, 6F6G, 6X5G	455	12-35,36
								22-1034	4/13	FP234								
6S546, 6S556 (Ch. 6A05)	Vol.	63-1123	124	SM317			A109	22-1036	4	TC74					6	7H7, 7B8, 7A7, 7B6, 6F6G, 6X5G	455	12-11,12
								22-1034	4/13	FP234								
6S580 (Ch. 6A04)	Vol.	63-1118	18	MK401	M26			22-1029	4	3S584	B267				6	7A7, 7B8, 7H7, 7B6, 6K6G, 6X5G	455	12-9,13 27,28
6S596, 6S597 (Ch. 6A20)	Vol.	63-1123	124	SM317			A109	22-1036	25	TC74					6	7H7, 7B8, 7A7, 7B6, 6F6G, 6X5G	455	12-14,26
								22-1034	25/13	FP234								
6S632 (Ch. 6B08)	Vol.	63-1123	18	SM317				22-1036	1	TC74					6	7H7, 7B8, 7A7, 7B6, 6F6G, 6X5G	455	13-27,23
								22-1034	1/13	FP234								
6S646 (Ch. 6B08)	Vol.	63-1123	18	SM317				22-1036	1	TC74					6	7H7, 7B8, 7A7, 7B6, 6F6G, 6X5G	455	13-27,23
								22-1034	1/13	FP234								
6S656 (Ch. 6B08)	Vol.	63-1123	18	SM317				22-1036	1	TC74					6	7H7, 7B8, 7A7, 7B6, 6F6G, 6X5G	455	13-27,23
								22-1034	1/13	FP234								
6V27, 6V62 (Chassis 5621)	Vol.	63-456	18	MR44	M26			22-432	1	2N516		190-5	246	C3	6	‡15, 6A7, 75, 76, 19	456	6-21,22
	Tone	63-458	34	MR24				.01		Buffer	B14							
6VA27, 6VA62 (Ch. 5629)	Vol.	63-456	18	MR44	M26			22-459	1	2N516		190-6	246	C3	6	‡15, 6A7, 75, 76, 19	456	10-27
	Tone	63-458	22	MR24				.01-.01		Buffer	B14							
7	Vol.	7101-9	17	UM154-SS3	M26			7119-4	4	2S567		P7142-1	296	C3	5	6D6, 75, 42, 6C6, 84	175	5-3
								.015		Buffer	B14							
7D119, 7D126, 7D127, 7D138, 7D148, 7D151, 7D162, 7D168 (5707)	Vol.	63-520	45	MR48	M26			22-514	1/11	3S582	B218				6	6A8, 6K7, 6H6, 6F5, 25A6, 25Z6, or glass equivalents	456	7-11,18
	Tone	63-521	34	MR33				22-515	11/13	2N516	B218							
7DA119, 7DA126, 7DA127, 7DA138, 7DA148, 7DA162, 7DA168(Ch.5708E)	Vol.	63-525	18	MR48	M27			22-514	11	3S582	B8				6	6A8, 6K7, 6H6, 6F5, 25A6, 25Z6, or glass equivalents	456	10-27
	Tone	63-521	34	MR33				22-515	11/13	2N516								
7D203, 7D222, 7D223, 7D229, 7D239, 7D241, 7D243, 7D253 (Chassis 5710)	Vol.	63-520	75	MR48	M26			22-559	6/13/15	TN129/TC22					6	6A8G, 6K7G, 6H6G, 6F5G, 25L6G, 25Z6G	456	8-25,26
	Tone	63-521	34	MR33														
7G605 (Ch. 7B04)	Vol.	63-1265	18	TM243-SS25	M27			22-1307 or 22-1330	46/78	Order from	Mfr.				7	‡1LN5, 1LA6, 1LE3, 1LD5, 3Q5G, 117Z6G	455	13-25, 26,42,46
								22-1282 or 22-1159	46/12/78	Order from	Mfr.							
7J232, 7J259 (Chassis 5711)	Vol.	63-568	124	MRT454				22-577	1/15	3S579		190-11	294	C3	7	‡6S7G, 6D8G, 6T7G, 6L5G, 1J6G, 6Z5G	456	8-27,28
								.02-.02		Buffer	B14							
7J232T, 7J259T (5711T)	Vol.	63-931	124	MRT449				22-653	1/13/15	3S582/TC22		190-11	294	C3	7	‡6S7G, 6D8G, 6T7G, 6L5G, 1J6G, 6ZY5G	456	9-25
								.02-.02		Buffer	B14							
7J323, 7J368 (5715)	Vol.	63-990	124	DTM295-SS26	M27			22-742	46	FP380					7	‡6S7G, 6D8G, 6T7G, ‡6G6G, 6ZY5G	455	9-27
								22-741	13	TC52								
								.02-.02		Buffer	B14							
7M91S, 7M91D (Chassis 5706)	Vol.	63-507	18	MRT427	M26	RS246		22-469	1/15	3S579		190-7	294	C3	7	‡6K7G, 6A8G, 6Q7G, 6X5G, 6C5G, 6N7G	252.5	7-19,20
	Tone	63-487	22	Order from	Mfr.			.008		Buffer	B14							
7ML592 (7A09)	Vol. & Tone	63-1134	140	Order from	Mfr.			22-917	24/15	FP339		190-15	859	C3	7	‡7A7, 7B8, 7B6, ‡7C5, 6X5GT/0Z4	455	12-49,50
								.008		Buffer	B14							
7MN596 (7A08)	Vol. & Tone	63-1129	140	Order from	Mfr.			22-917	24/15	FP339		190-15	859	C3	7	‡7A7, 7B8, 7B6, ‡7C5, 6X5GT/0Z4	455	12-47,48
								.007		Buffer	B14							
7S28, 7S53 (Chassis 5704)	Vol.	63-457	45	MR48	M26			22-416	25/13	3S584					7	‡6K7, 6A8, 6H6, 6F6, 5Y3	456	7-20,21
	Tone	63-458	34	MR24				22-420	15	TC22								
7S204, 7S232, 7S240, 7S242, 7S258, 7S260, 7S261 (Chassis 5709)	Vol.	63-611	124	MRT449	M26			22-569	25	ST597					7	6A8G, 6K7G, 6H6G, 6T5, 6F5G, 6F6G, 5Y4G	456	8-29,30
								22-562	13/25	3S584	B8							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS: Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	CONDENSERS: Original Part	Circuit	Correct Replacement	*Note	VIBRATORS: Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
ZENITH—Continued 7S232AT, 7S240AT, 7S242AT, 7S258AT, 7S260AT (5709AT)	Vol.	63-935	45	MRT454	M26			22-633 22-634	25 25/13	TC82 3S584	 B8				7	6A8G, 6K7G, 6H6G, 6T5, 6F5G, 6F6G, 5Y4G	456	9-29
7S323, 7S342, 7S343, 7S363, 7S364, 7S366 (5715)	Vol.	63-985	124	DTM295-SS26	M26			22-718 22-719	25 25	TC74 TC74	 				7	6A8G, 6K7G, 6J5G, 6U5, 6F5G, 6F6G, 6X5G	455	9-31
7S432, 7S433, 7S434 (Ch. 5719)	Vol.	63-1030	18	TM251-SS25	M26			22-852 22-851	10 10/13	FP135 FP371	 B211				7	6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, ‡25Z6G	455	11-18
7S432, 7S433, 7S434 (Ch. 5724)	Vol.	63-1030	124	TM251-SS25	M26			22-941 22-719	25/13 25	FP234 TC65	 				7	‡6K7G, 6A8G, 6J5G, 6F5G, 6F6G, 6X5G	455	
7S449, 7S450 (Ch. 5719)	Vol.	63-1030	18	TM251-SS25	M26			22-852 22-851	10 10/13	FP135 FP371	 B211				7	6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, ‡25Z6G	455	11-18
7S449, 7S450 (Ch. 5724)	Vol.	63-1030	124	TM251-SS25	M26			22-941 22-719	25/13 25	FP234 TC65	 				7	‡6K7G, 6A8G, 6J5G, 6F5G, 6F6G, 6X5G	455	
7S458, 7S459, 7S460, 7S461, 7S462 (Ch. 5719)	Vol.	63-1030	18	TM251-SS25	M26			22-852 22-851	10 10/13	FP135 FP371	 				7	6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, ‡25Z6G	455	11-18
7S458, 7S459, 7S460, 7S461, 7S462 (Ch. 5724)	Vol.	63-1030	124	TM251-SS25	M26			22-941 22-719	25/13 25	FP234 TC65	 				7	‡6K7G, 6A8G, 6J5G, 6F5G, 6F6G, 6X5G	455	
7S487, 7S488 (Ch. 5721)	Vol.	63-1035	18/‡	SMD509				22-852 22-851	10 10/13	FP135 FP371	 				7	6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, ‡25Z6G	455	11-20
7S487, 7S488 (Ch. 5725)	Vol.	63-1035	124/‡	SMD509				22-941 22-719	25/13 25	FP234 TC65	 				7	‡6K7G, 6A8G, 6J5G, 6F5G, 6F6G, 6X5G	455	11-21
7S490 (Ch. 5721)	Vol.	63-1035	18/‡	SMD509				22-852 22-851	10 10/13	FP135 FP371	 				7	6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, ‡25Z6G	455	11-20
7S490 (Ch. 5725)	Vol.	63-1035	124/‡	SMD509				22-941 22-719	25/13 25	FP234 TC65	 				7	‡6K7G, 6A8G, 6J5G, 6F6G, 6F5G, 6X5G	455	11-21
7S529, 7S530, 7S547, 7S557, 7S558, 7S559 (Ch. 7A02)	Vol.	63-1122	124	SM317				22-1036 22-1034	25 25/13	TC74 FP234	 				7	1232, 7B8, 7A7, 7A4, 7B4, 6F6G, 6X5G	455	12-15,16
7S581, 7S582 (Ch. 7A04)	Vol.	63-1122	124	SM317				22-1036 22-1034	25 25/13	TC74 FP234	 				7	1232, 7B8, 7A7, 7A4, 7B4, 6F6G, 6X5G	455	
7S585 (Ch. 7A01)	Vol.	63-1115	124/‡	Order from	Mfr.			22-941 22-719	25/13 25	FP234 TC74	 				7	‡6K7G, 6A8G, 6J5G, 6F5G, 6F6G, 6X5G	455	12-17
7S598 (Ch. 7A11)	Vol.	63-1122	124	SM317				22-1187	1/15	FP234/TC39					7	7G7/1232, 7B8, 7A7, 7B6, 6AD7G, 6F6G, 5Y4G	455	12-37,38
7S633, 7S634, 7S633R, 7S634R (Ch. 7B01R)	Vol.	63-1122	18	SM317				22-1035	1/13	FP390	B3				7	7H7, 7B8, 7A7, 7B6, 6P5G, 6AC5G, 6X5G	455	13-28,29
7S657, 7S657R (Ch.7B01,7B01R)	Vol.	63-1122	18	SM317				22-1035	1/13	FP390	B3				7	7H7, 7B8, 7A7, 7B6, 6P5G, 6AC5G, 6X5G	455	13-28,29
7S681, 7S682, 7S685 (Ch. 7B02-Phono)	Vol.	63-1122	18	SM317				22-1187	1/15	FP234/TC29					7	7H7, 7B8, 7A7, 7B6, ‡6AD7G, 5Y4G	455	13-30,23
8A129, 8A147, 8A154, 8A157 (Ch. 5802A)	Vol.	63-526	125	MRT449	M27			22-294 22-491	25 25/13	RS216 2N518	 				7	‡6K7, 6A8, 6H6, 6F5, 6F6, 5W4, or glass equivalents	456	10-29
8A232, 8A242, 8A244, 8A262 (Ch. 5804AT)	Vol. Sen.	63-931 63-812	124 7	MRT449 ‡		See Note A5		22-633 22-636	25 25/13	TC82 3S584/TC74					8	‡6K7G, 6T5, 6L7G, 6J5G, 6Q7G, 6V6G, 5Y4G	456	10-29

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
8M195 (Chassis 5803)	Vol./Tone	63-549	145	SMD500				22-527	1/15	Order from	Mfr.	190-9	294	C3	8	[3]6K7, 6A8G, 6H6G, [3]6C5G, 6N7G, 6X5G	252.5	8-31,32
	Sen.	63-560	‡	X				.008		Buffer	B14							
8ML692	Vol.	63-1262	140	TM221-SS25	M26			22-1272	24/15	FP339		190-15	859	C3	8	[3]7A7, 7B8, 7B6, 7A4, [3]7C5, 7Y4	265	
	Tone	62-1261	140	Order from	Mfr.			.008		Buffer	B14							
8S129, 8S154 (Chassis 5801)	Vol.	63-522	124	MRT454	M26			22-294	25	RS216					8	[3]6K7, 6A8, 6H6, 6C5, 6F5, 6F6, 5W4, or glass equivalents	456	[3]8-34,36
								22-491	25/13	2N518								
8S359 (Ch. 5807)	Vol.	63-985	124	DTM295-SS26	M26			22-718	1	TC74					8	6A8G, 6K7G, 6U5, 6J5G, 6F5G, 6P5G, 6AC5G, 6X5G	455	10-31
								22-719	1	TC65								
8S432, 8S433, 8S434 (Ch. 5810)	Vol.	63-1030	124	TM251-SS25	M26			22-851	10/13	FP371					8	1232, 6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, [2]25Z6G	455	11-22
								22-852	10	FP135								
8S443 (Ch. 5808)	Vol.	63-1075	124	DTM296-SS26	M26			22-933	25/13	3S584	B8				8	1232, 6A8G, 6K7G, 6J5G, 6F5G, 6F6G, 6U5, 6X5G	455	11-23
								22-719	25	TC65								
8S449, 8S450 (Ch. 5801)	Vol.	63-1030	124	TM251-SS25	M26			22-851	10/13	FP371					8	1232, 6A8G, 6Q7G, 6K7G, 6AF5G, 25AC5G, [2]25Z6G	455	11-22
								22-852	10	FP135								
8S451 (Ch. 5808)	Vol.	63-1075	124	DTM296-SS26	M26			22-933	25/13	3S584	B8				8	1232, 6A8G, 6K7G, 6J5G, 6F5G, 6F6G, 6U5, 6X5G	455	11-23
								22-719	25	TC65								
8S458 to 8S462 inc. (Ch. 5810)	Vol.	63-1030	124	TM251-SS25	M26			22-851	10/13	FP371					8	1232, 6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, [2]25Z6G	455	11-22
								22-852	10	FP135								
8S463 (Ch. 5808)	Vol.	63-1075	124	DTM296-SS26	M26			22-933	25/13	3S584	B8				8	1232, 6A8G, 6K7G, 6J5G, 6F5G, 6F6G, 6U5, 6X5G	455	11-23
								22-719	25	TC65								
8S531, 8S548, 8S563 (Ch. 8A02)	Vol.	63-1075	124	DTM296-SS26	M26			22-1035	1/13	FP390					8	1232, 6A8G, 6K7G, 6J5G, 6F5G, 6P5G, 6AC5G, 6X5G	455	12-18
8S586 (Ch. 8A01)	Vol.	63-1117	124/‡	Order from	Mfr.			22-933	25/13	3S584	B8				8	1232, 6A8G, 6K7G, 6J5G, 6F5G, 6F6G, 6X5G, 6U5	455	12-19,20
								22-719	25	TC65								
8S587, 8S588 (Ch. 8A03)	Vol.	63-1075	124	DTM296-SS26	M26			22-1035	1/13	FP390					8	1232, 6A8G, 6K7G, 6J5G, 6F5G, 6P5G, 6AC5G, 6X5G	455	12-18
8S593, 8S594 (Ch. 8A04)	Vol.	63-1123	124	SM317			A109	22-1036	25	TC74					8	7H7, 7B8, 7A7, 7B6, 6V6G, 6U5, 7C7, 5Y4G	455	12-21,26
	Mike	63-1146	‡	‡			A5	22-1099	12/25/13	FP380								
								22-1069	15	TC26								
8S647 (Ch. 8B01)	Vol.	63-1075	18	DTM296-SS26	M26			22-1108	1	FP234					8	7H7, 6A8G, 6SK7GT, 6SQ7GT, 6J5G, [3]6F6G, 5Y4G	455	13-31,29
8S661 (Ch. 8B01)	Vol.	63-1075	18	DTM296-SS26	M26			22-1108	1	FP234					8	7H7, 6A8G, 6SK7GT, 6SQ7GT, 6J5G, [3]6F6G, 5Y4G	455	13-31,29
9S30, 9S54, 9S55 (5903)	Vol.	63-450	45	MRT438	M26			22-412	46	3S584/TC70	B8				8	[3]6K7, 6A8, 6H6, 6C5, [3]6F6, 5Y3	456	6-27,28
	Tone	63-451	‡	MR53				22-420	15	TC22								
9S203, 9S232, 9S242, 9S244, 9S262, 9S263, 9S264 (Chassis 5905)	Vol.	63-568	124	MRT454				22-569	1	ST597					9	[3]6K7G, 6L7G, 6J5G, 6H6G, 6T5, 6F5G, 6F6G, 5Y4G	456	8-35
								22-571	1/13/15	3S584								
9S204AT, 9S232AT, 9S244AT, 9S262AT, 9S264AT (5905AT)	Vol.	63-931	20	MRT449				22-633	25	TC82					9	[3]6K7G, 6L7G, 6H6G, 6F5G, 6F6G, 5Y4G, 6J5G, 6T5	456	9-33
								22-637	25/13/14	3S584/TC70	B8							
9S307, 9S324, 9S344, 9S367, 9S369 (5907)	Vol.	63-978	45	DTM295-SS26				22-711	25/13	FP231					8	[3]6K7G, 6L7G, 6J5G, 6U5, 6F5G, 6F6G, 5Y4G	455	9-35
								22-710	25/14	FP234								
9S365 (5906)	Vol.	63-568	124	MRT454				22-569	25	ST597					9	[3]6K7G, 6L7G, 6H6G, 6U5, 6J5G, 6F5G, 6F6G, 5Y4G	455	9-37
								22-571	25/13/14	3S584								
10, 11, 12	Vol.	63-128	12	SRP289				22-72	3	RS213					8	[4]24, 27, 45, 80		2-9,10
	Tone	63-126	41	MR48														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
10H551 (Ch. 10A3)	Vol.	63-1074	124	DTM296-SS26	M26			22-1124	1	FP145					10	[3]6AC7/1852, 7J7, 7G7/1232, [3]7C7, 7A6, 7B6, 6V6G, 5Y4G	455	12-12,22
								22-1125	1/13	FP380								
								22-1123	13	TC62								
10H571R (Ch. 10A3R)	Vol.	63-1074	124	DTM296-SS26	M26			22-1178	25/13	FP380					10	[3]7V7, 7J7, [3]7C7, 7A6, 7B6, 5Y4G, 6V6G	455	12-35,
								22-1124	25	FP145							8600	38,39,40
10H571 (Ch. 10A3)	Vol.	63-1074	124	DTM296-SS26	M26			22-1124	1	FP145					10	[3]6AC7/1852, 7J7, 7G7/1232, [3]7C7, 7A6, 7B6, 6V6G, 5Y4G	455	12-12,22
								22-1125	1/13	FP380								
								22-1123	13	TC62								
10H573 (Ch. 10A3R)	Vol.	63-1074	124	DTM296-SS26	M26			22-1178	25/13	FP380					10	[3]7V7, 7J7, [3]7C7, 7A6, 7B6, 5Y4G, 6V6G	455	12-35,
								22-1124	25	FP145							8600	38-40
10S130, 10S153, 10S155, 10S156, 10S157, 10S160, (1004)	Vol.	63-522	124	MRT454	M26			22-504	3	RS213					10	[3]6K7, 6A8, 6H6, [3]6C5, [3]6L6, 5W4, or glass equivalents	456	8-36,38
								22-506	14	RS216								
								22-493	3	2N518								
								22-405	19	TC52								
								22-507	15	TC22								
10S147 (1004)	Vol.	63-522	124	MRT454	M26			22-512	3	RS213					10	[3]6K7, 6A8, [3]6C5, [3]6L6, 6H6, 5W4, or glass equivalents	456	8-37,38
								22-510	3/14	3S584								
								22-405	19	TC32								
								22-507	15	TC22								
10S443, 10S452, 10S464, 10S470, 10S491, 10S492 (Ch. 1005)	Vol.	63-1074	124	DTM296-SS26	M26			22-934	1	FP234	B128				10	1232, 6A8G, 6K7G, 6Q7G, 6J5G, [3]6V6G, 6U5, [3]6X5G	455	
10S531, 10S549, 10S566 (Ch. 10A1)	Vol.	63-1074	124	DTM296-SS26	M26			22-934	1	FP234	B128				10	1232, 6A8G, 6K7G, [3]6J5G, 6F5G, [3]6V6G, [3]6X5G	455	12-23
10S589, 10S590 (Ch. 10A2)	Vol.	63-1074	124	DTM296-SS26	M26			22-934	1	FP234	B128				10	1232, 6A8G, 6K7G, [3]6J5G, 6F5G, [3]6V6G, [3]6X5G	455	
10S669 (Ch. 10B1)	Vol.	63-1075	45	DTM296-SS26	M26			22-1108	1	FP234					10	7G7/1232, 6A8G, 6K7G, [3]6J5GT, 6F5G, 6J5G, [3]6V6G, 5Y4G	455	13-32,29
10S690 (Ch. 10B2)	Vol.	63-1075	45	DTM296-SS26	M26			22-1108	1	FP234					10	7G7/1232, 6A8G, 6K7G, [3]6J5GT, 6J5G, 6F5G, [3]6V6G, 5Y4G	455	13-32,29
11S474 (Ch. 1103)	Vol.	63-1074	124	DTM296-SS26	M26			22-934	1	FP234	B128				11	1232, 6A8G, 6K7G, [3]6J5G, 6F5G, [3]6V6G, 6U5, [3]6X5G	455	
11, 12	Vol.		11	MR39											6	[3]01A, 71A, 00A, 12A		1-2
12 (2nd Type)	Vol.		11	MR39											6	12A, [4]01A, 71A		1-2
12A57, 12A58, 12L57, 12L58 (Chassis 1202, 1202A)	Vol.	63-450	124	MRT438	M26			22-294	3	RS216					12	[3]6K7, 6A8, [4]6C5, 6H6, [3]6F6, [5]5Z4, or glass equivalents	456	7-23,25
	Tone	63-451	‡	MR53				22-445	3	2N518								
								22-405	19	TC32								
								22-420	15	TC22								
12H650 (Ch. 12B1)	Vol.	63-1074	18	DTM296-SS26	M26			22-1124	1	FP145					12	[3]6SD7GT, 7S7, [3]7C7, 7A6, 7B6, 7A4, [3]6V6G, 5X4G	AM 455 kc. FM 8.3 mc.	13-33, 34,41
								22-1178	1/13	Order from	Mfr.							
12H671 (Ch. 12B1)	Vol.	63-1074	18	DTM296-SS26	M26			22-1124	1	FP145					12	[3]6SD7GT, 7S7, [3]7C7, 7A6, 7B6, 7A4, [3]6V6G, 5X4G	AM 455 kc. FM 8.3 mc.	13-33, 34,41
								22-1178	1/13	Order from	Mfr.							
12H678, 12H679 (Ch. 12A6)	Vol.	63-1074	45	DTM296-SS26	M26			22-1124	1	FP145					12	[3]7V7, 7J7, [3]7C7, 7A6, 7A4, 7F7, [3]6V6G, 5Y4G	AM 455 kc. FM 8.3 mc.	13-35, 36,41
								22-1178	1/13	Order from	Mfr.							
								22-1123	13	TC62								
12H689 (Ch. 12B2 Phono)	Vol.	63-1074	45	DTM296-SS26	M26			22-1124	1	FP145					12	[3]6SD7GT, 7S7, [3]7C7, 7A6, 7N7, 7F7, [3]6V6G, 5X4G	AM 455 kc. FM 8.3 mc.	13-37, 38,41
								22-1178	1/13	Order from	Mfr.							
12H691 (Ch. 12B1)	Vol.	63-1074	18	DTM296-SS26	M26			23-1124	1	FP145					12	[3]6SD7GT, 7S7, [3]7C7, 7A6, 7B6, 7A4, [3]6V6G, 5X4G	AM 455 kc. FM 8.3 mc.	13-33, 34,41
								23-1178	1/13	Order from	Mfr.							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
12H695 (Ch. 12B2 Phono)	Vol.	63-1074	45	DTM296-SS26	M26			22-1124	1	FP145					12	[2]6SD7GT, 7S7, [3]7C7, 7A6, 7N7, 7F7, [2]6V6G, 5X4G	AM 455 kc. FM 8.3 mc.	13-37, 38,41
								22-1178	1/13	Order from Mfr.								
12S205, 12S232, 12S245, 12S265, 12S266, 12S267, 12S268 (1204)	Vol.	63-568	124	MRT454				22-566	1	2S569					12	[2]6K7G, 6L7G, [4]6J5G, 6H6G, 6T5, [2]6V6G, 5Y4G	456	8-41
								22-573	13/14	2N518								
								22-572	15/19	TN111/TC22								
12S345, 12S370, 12S371 (1206)	Vol.	63-980	124	DTM295-SS26				22-714	1	2S569					12	[2]6K7G, 6L7G, [2]6J5G, 6U5, 6F8G, [2]6V6G, 5Y4G	455	9-39
								22-728	13/14	Order from Mfr.								
								22-748	15/19	Order from Mfr.								
12S445, 12S453, 12S471, 12S475, 12S494 (Ch. 1207)	Vol.	63-1078	124	DTM296-SS26				22-970	1	FP234					12	[2]6K7G, 6A8G, [2]6J5G, 6F8G, [2]6V6G, 6U5, [2]6X5G	455	11-25,26
								22-991	13	2S569								
12S550 (Ch. 12A3)	Vol.	63-1078	124	DTM296-SS26				22-970	1	FP234					12	[2]6K7G, 6A8G, [2]6J5G, [2]6V6G, [2]6X5G	455	
								22-991	13	2S569								
12S550Z (Ch. 12A1)	Vol.	63-1078	124	DTM296-SS26				22-1108	1	FP234					12	1232, 7B8, 6K7G, [2]6J5G, 6AE7GT, [2]6AC5G, 5Y4G	455	12-25,28
								22-1053	13	2S569								
12S568, 12S569 (Ch. 12A3)	Vol.	63-1078	124	DTM296-SS26				22-970	1	FP234					12	[2]6K7G, 6A8G, [2]6J5G, [2]6V6G, [2]6X5G	455	
								22-991	13	2S569								
12S568E, 12S568Z, 12S569E, 12S569Z (Ch. 12A1)	Vol.	63-1078	124	DTM296-SS26				22-1108	1	FP234					12	1232, 7B8, 6K7G, [2]6J5G, 6AE7GT, [2]6AC5G, 5Y4G	455	12-25,28
								22-1053	13	2S569								
12S595 (Ch. 12A4)	Vol.	63-1078	124	DTM296-SS26				22-970	1	FP234					12	[2]6J5G, [2]6K7G, 6A8G, [2]6V6G, [2]6X5G	455	
								22-991	13	2S569								
12S595Z (Ch. 12A2)	Vol.	63-1078	124	DTM296-SS26				22-1108	1	FP234					12	1232, 7B8, 6K7G, [2]6J5G, 6AE7GT, [2]6AC5G, 5Y4G	455	12-25,28
								22-1053	13	2S569								
12U158, 12U159 (Chassis 1203)	Vol.	63-522	124	MRT454	M26			22-504	3	RS213					12	[2]6K7, 6H6, 6F5, 6F6, [2]6L6, [2]5W4, 6L7, [2]6C5, or glass equivalents	456	8-36,40
								22-294	3	RS216								
								22-125	3	RS213								
								22-506	14	RS216								
								22-405	15	TC32								
								22-509	19	TC32								
14	Vol.		11	MR39											6	[3]01A, 12A, 71A, 00A		1-2
14H697 (Ch. 14B1)	Vol.	63-1074	45	DTM296-SS26	M26			22-1124	1	FP145					14	[2]6SD7GT, 7S7, [3]7C7, 7A6, 7N7, 7F7, 7B6, [2]6U5, [2]6V6G, 5X4G	AM 455 kc. FM 8.3 mc.	13-39, 40,42
								22-1178	1/13	Order from Mfr.								
								22-1123	13	TC62								
15S308, 15S346, 15S372, 15S373 (1502)	Vol.	63-980	124	DTM295-SS26				22-569	3	ST597					15	[2]6K7G, 6L7G, [2]6J5G, 6U5, 6F8G, [4]6V6G, [2]5Y4G	455	9-41
								22-727	3	2N518								
								22-747	‡	Order from Mfr.								
								22-748	‡	Order from Mfr.								
15S479, 15S495 (Ch. 1503)	Vol.	63-980	124	DTM295-SS26				22-727	3	2N518					15	[2]6K7G, 6A8G, [2]6J5G, 6C5G, 6F8G, [4]6V6G, 6U5, [2]5Y4G	455	12-27,28
								22-569	3	ST597								
								22-747	‡	Order from Mfr.								
								22-960	19/15	FP311	B3							
15U246, 15U269, 15U270, 15U271, 15U272 (Chassis 1501)	Vol.	63-688	124	DTM295-SS1				22-569	3	ST597					15	[2]6K7G, 6L7G, 6T5, [4]6J5G, 6H6G, [4]6V6G, [2]5Y4G	456	8-43,44
								22-568	3	2N518								
								22-578	13/14	2N518								
								22-580	15	TN111/TC22								
16A61, 16A63 (1601C, 1601P)	Vol.	63-450	15	MRT438	M26			22-361	1/3/14	RS216					16	[2]6K7, 6A8, 6C5, 6H6, 6F5, [2]6F6, [4]5Z4	456	7-27,29
	Tone	63-451	‡	MR53				22-438	15	TC36								
	Fid.	63-480	‡	‡		See Note A3		22-420	15	TC22								
								22-321	13	TC71								
17	Vol.		11	MR39											6	[3]01A, 71A		1-4
22H698, 22H699 (Ch. 22B1)	Vol.	63-1074	45	DTM296-SS26	M26			22-1124	24	FP145					22	[2]6SD7GT, 7S7, [3]7C7, 7A6, 7N7, [3]7A4, [6]6A3, 6AD7G, [2]5X4G	AM 455 kc. FM 8.3 mc.	13-42-46
								22-1178	24/13	Order from Mfr.								
								22-1303	3	FP238								
								22-1304	3	FP143								
								22-719	13	TC65								
								22-893	19	TC55								

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
31, 32 Battery	Vol.	S353	11	SRP289											6	‡01A, 12A, 71A, 00A		1-6
34P	Vol.	S387	11	SRP289											8	‡27, 10, ‡81		1-7
33, 33X, 34, 35, 35A	Vol.	S387	11	SRP289											6	‡27, 71A		1-8
35P, 35AP	Vol.	S353	11	SRP289											8	‡27, 10, ‡81		1-10
35APX, 35PX	Vol.	63-93	11	SRP289											7	‡27, 26, 50		1-9
37A, 39, 39A	Vol.	S353	11	SRP289											6	‡27, 10		1-9,11
40A	Vol.	S339	11	SRP289											8	‡27, 26, 10		1-11
41, 42	Vol.	S387	11	SRP289											6	24, ‡27, 71A		1-13
	Sen.	S434	1	MR33														
52, 53, 54, 55 (50 Series)	Vol.	S446	12	SRP261		Single	A82	22-61	3	FP434	B83				9	‡24, ‡27, ‡45, 80		1-14,15
	Vol.	S516	123	DRP221		Dual	A83											
60, 61, 62, 64, 67 (60 Series)	Vol.	S446	12	SRP261		Single	A82	22-61	3	FP434	B83				9	‡24, ‡27, ‡45, 80		1-16
	Vol.	S516	123	DRP221		Dual	A83											
71, 72, 73, 77 (70 Series)	Vol.	63-122	12	SRP261		Single	A82	22-72	3	HD684					9	‡24, ‡27, ‡45, 80		1-18
	Vol.	63-126	123	DRP221		Dual	A83	22-73	3	RS216								
	Tone		41	MR44		See Note	A4											
80 (Hypermetron)	Vol.	63-128	12	SRP289				22-72	3	HD684					10	‡24, ‡27, ‡45, 80		1-20,22
	Tone	63-147	41	MR48				22-73	3	RS216								
91, 92	Vol.	63-171	111	A5MP		See Note	A27	22-119	26	RS213					10	‡51, ‡27, ‡45, 24, 80	175	2-3,8
	Vol.	63-212	15	MR48		See Note	A4	22-125	26	RS213								
	Tone	63-172	41	MR48														
102	Vol.	63-128	12	SRP289				22-72	3	HD684					8	‡24, 27, ‡45, 80		2-9,10
103 (2017) Serials 450,001 to 450,450	Vol.	63-171	111	Y5MP				22-119	26	RS213					13	‡51, ‡24, ‡27, ‡45, 80	175	2-16
	Tone	63-193	41	MR48				22-125	26	RS213								
103 (2017) Serials above 450,451	Vol.	63-213	23	MM				22-119	26	RS213					13	‡51, ‡24, ‡27, ‡45, 80	175	2-15
	Tone	63-193	41	MR48				22-125	26	RS213								
112, 122	Vol.	63-128	12	SRP289				22-72	3	HD684					8	‡24, 27, ‡45, 80		2-9,10
	Tone	63-126	41	MR48														
200	Vol.		6	MR18		EX200		8	4	ST595					5	‡57, 58, 47, 80		10-33
								4	4	ST595								
210, 210-5, 211-5 (2022 A & B)	Vol.	63-209	8	A10MP	6			22-156	4	TC71					7	‡58, 24, ‡27, 47, 80	175	3-1,2
	Tone	63-200	34	MR48				22-157	4	TC71								
215, 216, 217 (Chassis 2044)	Vol.	63-235	15	MR48	M26			22-173	25	TC71					7	‡58, 56, 55, 59, 80	175	7-30
	Tone	63-232	34	MR48														
	Sen.	63-255	7	SRP262														
220, 221 (2022 A & B)	Vol.	63-209	8	A10MP	6			22-157	4	TC71					7	‡58, 24, ‡27, 47, 80	175	3-2
	Tone	63-200	34	MR48				22-156	4	TC71								
225 (Chassis 2044)	Vol.	63-235	15	MR48	M26			22-173	25	TC71					7	‡58, 56, 55, 59, 80	175	7-30
	Tone	63-232	34	MR48														
	Sen.	63-255	7	SRP262														
230, 240, 241, 244, 245 (Chassis 2036)	Vol.	63-235	15	MR48	M26			22-172	23	TC70					8	‡58, 56, ‡57, 59, 80	175	3-3,4
	Tone	63-232	34	MR48				22-173	23	TC71								
	Sen.	63-233	7	UC513														
250, 251, 252 Chassis 2031)	Vol.	63-209	8	A10MP	6			22-156	4	TC71					9	‡58, 24, ‡27, 47, 57, 80	175	2-20, 7-32
	Tone	63-200	34	MR48				22-157	4	TC71								
258 (Chassis 2051)	Vol.	63-284	15	MR48	M26			22-204	1	RM262					8	‡58, 55, 56, 59, 80	485	8-45,47
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-286	7	MR28														
259, 260, 261, 262 (Chassis 2031)	Vol.	63-209	8	A10MP	6			22-156	4	TC71					9	‡58, 24, ‡27, 57, 47, 80	175	2-20, 7-32
	Tone	63-200	34	MR48				22-157	4	TC71								
263 (Chassis 2044)	Vol.	63-235	15	MR48	M26			22-173	1	TC71					7	‡58, 56, 55, 59, 80	175	7-30
	Tone	63-232	34	MR48														
	Sen.	63-255	7	SRP262														
268 (Chassis 2051)	Vol.	63-284	15	MR48	M26			22-204	1	RM262					8	‡58, 56, 55, 59, 80	485	8-45,47
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-286	7	MR28														
269 (Chassis 2031)	Vol.	63-209	8	A10MP	6			22-157	4	TC71					9	‡58, 57, 24, ‡27, 47, 80	175	2-20, 7-32
	Tone	63-200	34	MR48				22-156	4	TC71								
270-5	Vol.	63-209	8	A10MP	6			22-156	4	TC71					7	‡58, 24, ‡27, 47, 80	125	3-1
	Tone	63-200	34	MR48				22-157	4	TC71								
271 (Chassis 2036)	Vol.	63-235	15	MR48	M26			22-173	42/12	TC71					8	‡58, 56, ‡57, 59, 80	175	3-3,4
	Tone	63-232	34	MR48				22-172	42	TC70								
	Sen.	63-233	7	UC513														
272 (Chassis 2031)	Vol.	63-209	8	A10MP	6			22-156	4	TC71					9	‡58, 24, ‡27, 47, 57, 80	175	2-20, 7-32
	Tone	63-200	34	MR48				22-157	4	TC71								
273 (Chassis 2030)	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					10	‡58, ‡56, 57, ‡59, 80	175	3-5,8
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-233	7	UC513														
277 (Chassis 2056)	Vol.	63-284	17	MR48	M26			22-204	1	RM262					8	‡58, 56, 2A6, 59, 80	485	4-15
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-309	7	E														

‡ Data not substantiated. * IMPORTANT: Read Notes in Note Section if specified in Note Column. § Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
278, 280, 281 (Chassis 2051)	Vol.	63-284	15	MR48	M26			22-204	1	RM262					8	[458, 56, 55, 59, 80	485	8-45,47
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-286	7	MR28														
281 (2nd) (Chassis 2056)	Vol.	63-284	17	MR48	M26			22-204	1	RM262					8	[458, 56, 2A6, 59, 80	485	4-15
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-286	7	E														
288, 289 (Chassis 2051)	Vol.	63-284	15	MR48	M26			22-204	1	RM262					8	[458, 56, 55, 59, 80	485	8-45,47
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-286	7	MR28														
288 (2nd) (Chassis 2056)	Vol.	63-284	17	MR48	M26			22-204	1	RM262					8	[458, 56, 2A6, 59, 80	485	4-15
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-309	7	E														
291, 292 (Chassis 2022)	Vol.	63-209	8	A10MP	6			22-157	4	TC71					7	[458, 24, [427, 47, 80	175	3-2
	Tone	63-200	34	MR48				22-157	4	TC71								
293 (Chassis 2056)	Vol.	63-284	17	MR48	M26			22-204	1	RM262					8	[458, 56, 2A6, 59, 80	485	4-15
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-309	7	E														
299 (Chassis 2031)	Vol.	63-209	8	A10MP	6			22-157	4	TC71					9	[458, 57, 24, [427, 47, 80	175	2-20, 7-32
	Tone	63-200	34	MR48				22-156	4	TC71								
333	Vol.	S353	11	SRP289											6	[401A, 71A		1-29
342	Vol.	S353	11	SRP289											6	[427, 71A		1-8
342P	Vol.	S387	11	SRP289											8	[427, 10, [281		1-7
352, 352A	Vol.	S353	11	SRP289											6	[427, 71A		1-8
352P, 352AP	Vol.	S353	11	SRP289											8	[427, 10, [281		1-10
352PX, 352APX	Vol.	63-93	11	SRP289											7	[427, 26, 50		1-9
353A	Vol.	S353	11	SRP289											6	[401A, 71A		1-29
362, 362X	Vol.	S353	11	SRP289											6	[427, 71A		1-5,8
392, 392A	Vol.		11	SRP289											9	[427, 10, [281		1-11
410, 411	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					9	[458, [456, [459, 57, 80	175	3-5,8
	Tone	63-232	41	MR48				22-169	15	TC32								
412 (414)	Vol.	S387	11	SRP289											6	[24, [427, 71A		3-5,8
420	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					10	[456, 57, [458, [459, 80	175	3-5,8
	Tone	63-232	41	MR48				22-169	15	TC32								
422	Vol.	S387	11	SRP289											6	[24, [427, 10		1-13
	Sen.	S434	1	MR33														
430, 440, 441, 442	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					12	[456, [457, [458, [459, 80	175	3-7
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-250	8	A400P														
443 (Chassis 2030)	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					10	[458, [456, 57, [459, 80	175	3-5,8
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-233	7	UC513														
444 (Chassis 2033)	Vol.	63-231	124	MRT431	M26			22-167	28	TC71					12	[458, [456, [457, [459, 80	175	3-7
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-250	8	A400P														
460 (2047) (Auto)	Vol.	63-276	‡	MR48				22-183	1	2N518		190-1	292	C3	7	[6D6, 85, [89, 6Z4, 6C6	485	4-1,2
	Tone	63-253	44	MR33				22-195	15	TC22								
	Sen.	63-283	7	MR28				.02		Buffer	B14							
462 (Chassis 2057)	Vol.	63-321	17	UM147-SS3	M26			22-236	4/15	2S567/TC22		190-2	292	C3	6	6C6, 6F7, 6D6, 75, 42, 84	252.5	4-3,4
	Tone	63-330	34	MR33				.02		Buffer	B14							
470 (Chassis 2044)	Vol.	63-235	15	MR48	M26			22-173	1	TC71					7	[458, 56, 55, 59, 80	175	7-30
	Tone	63-232	34	MR48														
	Sen.	63-255	7	SRP262														
472 (Chassis 2031)	Vol.	63-209	8	A10MP	6			22-157	4	TC71					9	[458, 57, 24, [427, 47, 80	175	2-20
	Tone	63-200	34	MR48				22-156	4	TC71								
473 (Chassis 2030)	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					10	[458, [456, 57, [459, 80	175	3-5,8
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-233	7	UC513														
474 (Chassis 2053)	Vol.	63-306	17	MR48	M26			22-168	1	2N518					8	[458, 55, [459, 56, 80	175	4-8
	Tone	63-232	41	MR48														
	Sen.	63-255	7	SRP262														
475 (Chassis 2054)	Vol.	63-306	15	MR48	M26			22-168	1	2N518					9	[456, [458, [459, 80	175	4-11
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-304	7	UC500														
476, 476A (Chassis 2032)	Vol.	63-231	20	MRT430	M26			22-241	28	2N518					12	[456, [457, [458, [459, 80	175	4-12
	Tone	63-232	41	MR48				22-240	28	HD684								
	Supp.	63-250	7	A400P														
476B (Chassis 2059)	Vol.	63-306	15	MR48	M26			22-230	3	2N518					12	[456, [458, [459, 80	175	4-13,14
	Tone	63-315	57	MR33				22-247	3	HD684								
	Sen.	63-316	7	MR34				22-225	15	TC22								
478 (Chassis 2056)	Vol.	63-284	17	MR48	M26			22-204	1	RM262					8	[458, 56, 2A6, 59, 80	485	4-15
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-309	7	E														
478 (2nd) (Chassis 2051)	Vol.	63-284	15	MR48	M26			22-204	1	RM262					8	[458, 56, 55, 59, 80	485	8-45,47
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-286	7	MR28														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
479 (Chassis 2059)	Vol.	63-306	15	MR48	M26			22-217	3	HD684					12	§58,§56,§59, 80	175	4-13,14
	Tone	63-315	57	MR33				22-230	3	2N518								
	Sen.	63-316	58	MR34				22-225	15	TC22								
500, 501, 502, 503, 514, 515, 516 (Chassis 2037)	Vol.	63-235	15	MR48	M26			22-173	23	TC71					8	56,§57,§58, 59, 80	175	2-21,22
	Tone	63-232	34	MR48				22-172	23	TC70								
	Sen.	63-234	7	UC500														
517, 518 (Chassis 2031)	Vol.	63-209	8	A10MP	6			22-157	4	TC71					9	§58, 57, 24,§27, 47, 80	175	2-20
	Tone	63-200	34	MR48				22-156	4	TC71								
520, 521, 530, 531, 533, 535 (Chassis 2035)	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					12	§58,§56,§59,§57, 80	175	8-48,50
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-234	7	UC500														
530, 531, 532, 533 (2038)	Vol.	63-231	124	MRT430	M26			22-167	28	TC71					12	§58,§56,§57,§59, 80	175	8-49
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-249	7	‡		See Note A5												
558 (Chassis 2051)	Vol.	63-284	15	MR48	M26			22-204	1	RM262					8	§58, 56, 55, 59, 80	485	8-45,47
	Tone	63-285	34	MR33				22-203	15	TC32								
	Sen.	63-286	7	MR28														
563	Vol.	63-120	11	SRP289				22-61	3	FP434	B83				7	§01A,§71		1-29
568 (Chassis 2051)	Vol.	63-284	15	MR48	M26			22-204	1	RM262					8	§58, 56, 55, 59, 80	485	8-45,47
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-286	7	MR28														
577 (Chassis 2056)	Vol.	63-284	17	MR48	M26			22-204	1	RM262					8	§58, 56, 2A6, 59, 80	485	4-15
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-309	7	E														
578 (Chassis 2051)	Vol.	63-284	15	MR48	M26			22-204	1	RM262					8	§58, 56, 55, 59, 80	485	8-45,47
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-286	7	MR28														
588 (Chassis 2056)	Vol.	63-284	17	MR48	M26			22-204	1	RM262					8	§58, 56, 2A6, 59, 80	485	4-15
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-309	7	E														
589, 590 (Chassis 2051)	Vol.	63-284	15	MR48	M26			22-204	1	RM262					8	§58, 56, 55, 59, 80	485	8-45,47
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-286	7	MR28														
593 (Chassis 2056)	Vol.	63-284	17	MR48	M26			22-204	1	RM262					8	§58, 56, 2A6, 59, 80	485	4-15
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-309	7	E														
600 (Chassis 2037)	Vol.	63-235	15	MR44	M26			22-173	23	TC71					8	56,§57,§58, 59, 80	175	2-21,22
	Tone	63-232	34	MR48				22-172	23	TC70								
	Sen.	63-234	7	UC500														
M601 (P51)	Vol.	63-164	6	MR18				22-119	1	RS213					5	§35, 24, 47, 80		5-1,2
								22-118	1	RS213								
602	Vol.	S446	12	SRP261		See Note A82		22-61	3	FP434	B83				9	§24,§27,§45, 80		1-16
602 (2035)	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					12	§58,§56,§59,§57, 80	175	8-48
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-234	7	UC500														
603 (Chassis 2038)	Vol.	63-231	124	MRT430	M26			22-167	28	TC71					12	§58,§56,§57,§59, 80	175	8-49,50
	Tone	63-232	41	MR48				22-169	50	TC32								
	Sen.	63-249	8	‡		See Note A5												
604, 606 (Chassis 2037)	Vol.	63-235	15	MR48	M26			22-173	23	TC71					8	56,§57,§58, 59, 80	175	2-21,22
	Tone	63-232	34	MR48				22-172	23	TC70								
	Sen.	63-234	7	UC500														
605 (2035)	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					12	§58,§56,§59,§57, 80	175	8-48
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-234	7	MR34														
608 (Chassis 2035)	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					10	§58,§56, 57,§59, 80	175	8-48,50
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-234	7	MR34														
610 (Chassis 2031)	Vol.	63-235	15	MR48	M26			22-173	23	TC71					8	§58, 56,§57, 59, 80	175	2-21,22
	Tone	63-232	34	MR48				22-172	23	TC70								
	Sen.	63-234	7	UC500														
611 (Chassis 2035)	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					10	§58,§56, 57,§59, 80	175	8-48,50
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-234	7	UC500														
612 (Chassis 2038)	Vol.	63-231	124	MRT430	M26			22-167	28	TC71					12	§58,§56,§57,§59, 80	175	8-49,50
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-249	8	‡		See Note A5												
612, 613	Vol.	S446	12	SRP261		See Note A82		22-61	3	FP434	B83				8	§24,§27,§45		1-16
615 (Chassis 2035)	Vol.	63-231	20	MRT430	M26			22-167	28	TC71					10	§58,§56, 57,§59, 80	175	8-48,50
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-234	7	MR34														
616 (Chassis 2037)	Vol.	63-235	15	MR48	M26			22-173	23	TC71					8	56,§57,§58, 59, 80	175	2-21,22
	Tone	63-232	34	MR48				22-172	23	TC70								
	Sen.	63-234	7	UC500														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
617 (Chassis 2038)..	Vol.	63-231	124	MRT430	M26			22-167	28	TC71					12	§58, §56, §57, §59, 80	175	8-49,50
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-249	8	‡		See Note A5												
618 (Chassis 2037)..	Vol.	63-235	15	MR44	M26			22-173	23	TC71					8	§58, 56, §57, 59, 80	175	2-21,22
	Tone	63-232	34	MR48				22-172	23	TC70								
	Sen.	63-234	7	UC500														
619 (Chassis 2033)..	Vol.	63-231	124	MRT430	M26			22-167	28	TC71					12	§58, §56, §57, §59, 80	175	3-7
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-250	8	A400P														
620 (Chassis 2038)..	Vol.	63-231	124	MRT430	M26			22-167	28	TC71					12	§58, §56, §57, §59, 80	175	8-49,50
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-249	8	‡		See Note A5												
622	Vol.	S446	12	SRP261		See Note A82		22-61	3	FP434	B83				9	§24, §27, §45, 80		1-16
623 (Chassis 2038)..	Vol.	63-231	124	MRT430	M26			22-167	28	TC71					12	§58, §56, §57, §59, 80	175	8-49,50
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-249	8	‡		See Note A5												
642	Vol.	S446	12	SRP261			A82	22-61	3	FP434	B83				9	§24, §27, §45, 80		1-16
650 (2057)	Vol.	63-321	17	UM147-SS3	M26			22-236	4/15	2S567/TC22		190-2	292	C3	6	6C6, 6F7, 6D6, 75,		
								.02		Buffer	B14					42, 84	252.5	4-3,4
650HD, 651HE, 660TD, 661TE	Vol.	63-321	17	UM147-SS3	M26			22-236	4/15	2S567/TC22		190-2	292	C3	6	§6D6, 6F7, 75, 42, 84	252.5	4-5,6
	Tone	63-330	34	MR33				.02		Buffer	B14							
663-4 (Chassis 5510)	Vol.	63-434	18	MR48	M26	EC256		22-388	4	TCS71		190-4	854	C3	5	6A7, 6D6, 75, 41, 6Z4	456	7-31
								.01		Buffer	B14							
660, 666, 668 (Chassis 5616, 5626)	Vol.	63-402	18	MR48	M26	EC256		22-347	4	TCS71		190-4	294	C3	6	§6D6, 6C6, 75, 42, 84	252.5	6-1,2
								.01		Buffer	B14							
672	Vol.	S446	12	SRP261		See Note A82		22-61	3	FP434	B83				9	§24, §45, §27, 80		1-16
680 (Chassis 5617)..	Vol.	63-402	18	MR48	M26	EC256		22-347	4	TCS71		190-4	294	C3	6	§6D6, 6C6, 75, 42, 84	252.5	6-3,4
								.01		Buffer	B14							
701	Vol.	V601	15	MR48	M26			C525	11	UR182	B31				5	§6D6, 75, 43, 25Z5	456	5-4,3-9
702	Vol.	V601	17	MR48	M26			C525	11	UR182	B31				5	6A7, 6D6, 75, 43, 25Z5	465	5-4
705, 706, 707 (Chassis 2052)	Vol.	63-299	17	MR48	M26			22-217	1	RM262					6	57, 58, 56, 2A6, 59, 80	485	4-7
								22-225	15	TC22								
711, 712 (Chassis 2052)	Vol.	63-299	17	MR48	M26			22-217	1	RM262					6	56, 57, 58, 2A6, 59, 80	485	4-7
								22-225	15	TC22								
712 (Early)	Vol.		12	SRP261		Single	A82	22-72	3	HD684					9	§24, §27, §45, 80		1-18,19
	Vol.	63-122	123	DRP221		Dual	A83	22-73	3	RS216								
	Tone		41	MR44		See Note A4												
715 (Chassis 2053)..	Vol.	63-306	17	MR48	M26			22-168	1	2N518					8	§58, 55, §59, 56, 80	175	4-8
	Tone	63-232	41	MR48														
	Sen.	63-255	7	SRP262														
722	Vol.		12	SRP261		Single	A82	22-72	3	HD684					9	§24, §27, §45, 80		1-18,19
	Vol.	63-122	123	DRP221		Dual	A83	22-73	3	RS216								
	Tone		41	MR44		See Note A4												
730	Vol.	96001	97	TRP602				P80968	12	TC32					5	19, 30, 32, §34	175	4-9
732	Vol.		12	SRP261		Single	A82	22-72	3	HD684					9	§24, §27, §45, 80		1-18,19
	Vol.	63-122	123	DRP221		Dual	A83	22-73	3	RS216								
	Tone		41	MR44		See Note A4												
735	Vol.	96001	97	TRP602				P80968	12	TC32					5	19, 30, 32, §34	175	4-9
740	Vol.	P96009	15	MR53				P80968	12	TC32					9	§34, §30, 10AB	175	4-10
	Tone	P97005	44	MR42														
750 (Chassis 2052)..	Vol.	63-299	17	MR48	M26			22-217	1	RM262					6	56, 57, 58, 2A6, 59, 80	485	4-7
								22-225	15	TC22								
755, 756 (Chassis 2053)	Vol.	63-306	17	MR48				22-168	1	2N518					8	§58, 55, §59, 56, 80	175	4-8
	Tone	63-232	41	MR48														
	Sen.	63-255	7	SRP262														
757 (Chassis 2054)..	Vol.	63-306	15	MR48	M26			22-168	1	2N518					9	§58, §56, §59, 80	175	4-11
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-304	58	UC500														
760, 765, 767 (Chassis 2054)	Vol.	63-306	15	MR48	M26			22-168	1	2N518					9	§56, §58, §59, 80	175	4-11
	Tone	63-232	41	MR48				22-169	15	TC32								
	Sen.	63-304	7	UC500														
770 (Chassis 2032)..	Vol.	63-231	20	MRT430	M26			22-241	28	2N518					12	§58, §56, §57, §59, 80	175	4-12
	Tone	63-232	41	MR48				22-240	28	HD684								
	Supp.	63-250	7	A400P														
770B (Chassis 2059)	Vol.	63-306	15	MR48	M26			22-230	3	2N518					12	§58, §56, §59, 80	175	4-13,14
	Tone	63-315	57	MR33				22-247	3	HD684								
	Sen.	63-316	7	MR34				22-225	15	TC22								
772	Vol.	63-122	123	DRP221	6		A83	22-72	3	HD684					9	§24, §27, §45, 80		1-18,19
								22-73	3	RS216								
775 (Chassis 2032)..	Vol.	63-231	20	MRT430	M26			22-241	28	2N518					12	§56, §57, §58, §59, 80	175	4-12
	Tone	63-232	41	MR48				22-240	28	HD684								
	Supp.	63-250	7	A400P														
775B (Chassis 2059)	Vol.	63-306	15	MR48	M26			22-230	3	2N518					12	§56, §58, §59, 80	175	4-13,14
	Tone	63-315	57	MR33				22-247	3	HD684								
	Sen.	63-316	7	MR34				22-225	15	TC22								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
777, 778	Vol.		12	SRP261		Single	A82	22-72	3	HD684					8	[3]24, [3]27, [3]45		1-18
	Vol.	63-122	123	DRP221		Dual	A83	22-73	3	RS216								
	Tone		41	MR41		See Note	A4											
780 (Chassis 2032)	Vol.	63-231	20	MRT430	M26			22-241	28	2N518					12	[3]56, [3]57, [3]58, [3]59, 80	175	4-12
	Tone	63-232	41	MR48				22-240	28	HD684								
	Supp.	63-250	7	A400P														
785 (2053)	Vol.	63-306	17	MR48	M26			22-168	1	2N518					8	[3]58, 55, [3]59, 56, 80	175	4-8
	Tone	63-232	41	MR48														
	Sen.	63-255	7	SRP262														
788 (Chassis 2059)	Vol.	63-306	15	MR48	M26			22-247	3	HD684					12	[3]58, [3]56, [3]59, 80	175	4-13,14
	Tone	63-315	57	MR33				22-230	3	2N518								
	Sen.	63-316	58	MR34				22-225	15	TC22								
801	Vol.	P101-1	17	MR48	M26			C525	11	UR182	.B31				5	[3]6D6, 75, 43, 25Z5	456	5-5
804	Vol.	256	18	MR48	M26			106	11	UR182					5	6A7, 78, 75, 43, 25Z5	456	10-34
805 (Chassis 5502)	Vol.	63-356	18	MR48	M26			22-125	23	RS213					5	6F7, 6D6, 75, 42, 80	252.5	5-6
								8-8	23	RM262	.B10							
806, 807 (Chassis 5504, 5505)	Vol.	63-366	18	MR44	M26			22-125	23	RS213					5	6A7, 6D6, 75, 42, 80	252.5	5-7,8
								8-8	23	RM262	.B10							
808, 809 (Chassis 5605, 5607)	Vol.	63-366	18	MR44	M26			22-125	25	RS213					6	[3]6D6, 6A7, 75, 42, 80	252.5	5-9,10
								22-318	25/14	RM262								
								22-306	...‡..	TC70								
810, 811 AC-DC (Chassis 5609)	Vol.	63-366	18	MR44	M26			22-307	11	2N513					6	[3]6D6, 6A7, 75, 43, 25Z5	252.5	6-5
								22-308	11	RS216								
								22-195	15	TC22								
812 (Chassis 5608) AC-DC	Vol.	63-366	18	MR44	M26			22-307	11	2N513					6	[3]6D6, 6A7, 75, 43, 25Z5	125	5-11,12
								22-308	11	RS216								
814, 815 (Chassis 5611, 5612)	Vol.	63-366	18	MR44	M26			22-125	25	RS213					6	[3]6D6, 6A7, 75, 42, 80	125	6-6
								22-318	25/13	RM262								
816, 817 (Chassis 5608)	Vol.	63-366	18	MR44	M26			22-307	11	2N513					6	[3]6D6, 6A7, 75, 43, 25Z5	125	5-11,12
								22-308	11	RS216								
819 (Chassis 5608)	Vol.	63-366	18	MR44	M26			22-307	11	2N513					6	[3]6D6, 6A7, 75, 43, 25Z5	125	5-11,12
								22-308	11	RS216								
825, 827 (Chassis 5701-2-3)	Vol.	63-338	18	MR44	M26			22-283	23	2S567					7	[3]6D6, 75, 42, 37, 80	485	5-13,14
								22-266	23	3S584	.B10							
S827 (Chassis 5701R)	Vol.	63-338	18	MR44	M26			22-321	25	TC71					7	[3]6D6, 76, 75, 42, 80	252.5	6-23,24
								22-322	25/13	RM262								
829 (Chassis 5701-2-3)	Vol.	63-338	18	MR44	M26			22-283	23	2S567					7	[3]6D6, 75, 42, 37, 80	485	5-13,14
								22-266	23	3S584	.B8							
S829 (Chassis 5701R, 5702R, 5703R)	Vol.	63-338	18	MR44	M26			22-321	25	TC71					7	[3]6D6, 75, 42, 76, 80	252.5	6-23,24
								22-322	25/13	RM262								
835 (Chassis 1001, 1001A)	Vol.	63-384	18	MRT430	M26			22-331	3	RS213					10	[3]6D6, 75, [3]42, 76, 5Z3, 6A7	485	5-15,16
								22-125	3	RS213								
								22-225	15	TC22								
845 (Chassis 5502)	Vol.	63-356	18	MR48	M26			22-125	23	RS213					5	6F7, 6D6, 75, 42, 80	252.5	5-6
								8-8	23	RM262	.B10							
S847, 850 (Chassis 5504, 5505)	Vol.	63-366	18	MR44	M26			22-125	23	RS213					5	6A7, 6D6, 75, 42, 80	252.5	5-7,8
								8-8	23	RM262	.B10							
860, 861 (Chassis 5605, 5607)	Vol.	63-366	18	MR44	M26			22-125	25	RS213					6	[3]6D6, 6A7, 75, 42, 80	252.5	5-9,10
								22-318	25/14	RM262								
								22-306	...‡..	TC70								
862 AC-DC (Chassis 5609)	Vol.	63-366	18	MR44	M26			22-307	11	2N513					6	[3]6D6, 6A7, 75, 43, 25Z5	252.5	6-5
								22-308	11	RS216								
								22-195	15	TC22								
864 (Chassis 5611, 5612)	Vol.	63-366	18	MR44	M26			22-125	25	RS213					6	[3]6D6, 6A7, 75, 42, 80	125	6-6
								22-318	25/13	RM262								
865, 866 AC-DC (Chassis 5609)	Vol.	63-366	18	MR44	M26			22-307	11	2N513					6	[3]6D6, 6A7, 75, 43, 25Z5	252.5	6-5
								22-308	11	RS216								
								22-195	15	TC22								
870 (Chassis 5701-2-3)	Vol.	63-338	18	MR44	M26			22-283	23	2S567					7	[3]6D6, 75, 42, 37, 80	485	5-13,14
								22-266	23	3S584	.B10							
S870, S871 (Chassis 5701R, 5702R, 5703R)	Vol.	63-338	18	MR44	M26			22-321	25	TC71					7	[3]6D6, 75, 42, 76, 80	252.5	6-23,24
								22-322	25/13	RM262								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
880, 881, 885 (Chassis 1001, 1001A)	Vol.	63-384	18	MRT430	M26			22-331	3	RS213					10	[3]6D6, 75, [3]42, 76, 5Z3, 6A7	485	5-15,16
								22-125	3	RS213								
								22-225	15	TC22								
908, 909 (Chassis 5614)	Vol.	63-366	18	MR44	M26			22-385	25/13	3S584					6	[3]6D6, 6A7, 75, 42, 80	252.5	6-15,16
	Tone	63-316	22	MR35														
S908, S909 (Chassis 5618)	Vol.	63-366	18	MR44	M26			22-385	25/13	3S584					6	[3]6D6, 6A7, 75, 42, 80	252.5	6-25,26
	Tone	63-316	34	MR35														
935 (Chassis 1001)	Vol.	63-384	124	MRT430	M26			22-331	3	RS213					10	[3]6D6, 6A7, 76, 75, [3]42, 5Z3	485	5-15,16
								22-125	3	RS213								
945, 950 (Chassis 5508, 5509)	Vol.	63-366	18	MR44	M26			22-125	25	RS213					5	6A7, 6D6, 75, 42, 80	252.5	6-7,8
	Tone	63-316	22	MR35														
960, 961 (Chassis 5614)	Vol.	63-366	18	MR44	M26			22-385	25/13	3S584					6	[3]6D6, 6A7, 75, 42, 80	252.5	6-15,16
	Tone	63-316	22	MR35														
S961 (Chassis 5618)	Vol.	63-366	18	MR44	M26			22-385	25/13	3S584					6	[3]6D6, 6A7, 75, 42, 80	252.5	6-25,26
	Tone	63-316	34	MR35														
963 (5609)	Vol.	62-366	18	MR44	M26			22-307	11	2N513					6	[3]6D6, 6A7, 75, 25Z5, 43	262.5	6-5
								22-308	11	RS216								
								22-195	15	TC22								
970, 975 (Chassis 5902)	Vol.	63-392	114	MR48	M26			22-125	3	RS213					9	[3]58, 2A7, [3]2A5, [3]56, 80	175	6-9,10
	Tone	63-393	114	MR48				22-230	3	2N518								
978 (Chassis 1001)	Vol.	63-384	124	MRT430	M26			22-331	3	RS213					10	[3]6D6, 6A7, 76, 75, [3]42, 5Z3	485	5-15,16
								22-125	3	RS213								
980 (Chassis 1201, 1201A)	Vol.	63-384	20	MRT430	M26			22-331	3	RS213					12	[3]6D6, [3]76, 6A7, [3]42, 5Z3	485	6-11,14
								22-125	3	RS213								
983 (Chassis 1001)	Vol.	63-384	124	MRT430	M26			22-331	3	RS213					10	[3]6D6, 6A7, 76, 75, [3]42, 5Z3	485	5-15,16
								22-125	3	RS213								
985, 990 (Chassis 1201, 1201A)	Vol.	63-384	20	MRT430	M26			22-331	3	RS213					12	[3]6D6, 6A7, [3]76, [3]42, 5Z3	485	6-11,14
								22-125	3	RS213								
Stratosphere 1000Z (Chassis 2501C, 2501P)	Vol.	63-390	...‡..	Order from	Mfr.			22-361	3	RS216					25	[4]6D6, 6A7, [3]76, [3]42, 85, 79, [3]45, [3]5Z3	485	6-29,32
	Tone	63-391	...‡..	Order from	Mfr.			22-360	3	HS693								
	Supp.	63-408	...‡..	MRT431				22-362	14	TC71								
								22-189	15	TC26								
								22-225	15	TC22								
1101 (Chassis 1001)	Vol.	63-384	124	MRT430	M26			22-331	3	RS213					10	[3]6D6, 6A7, 76, 75, [3]42, 5Z3	485	5-15,16
								22-125	3	RS213								
1105 (Chassis 1001)	Vol.	63-384	124	MRT430	M26			22-331	3	RS213					10	[3]6D6, 6A7, 76, 75, [3]42, 5Z3	485	5-15,16
								22-125	3	RS213								
1115 (5609)	Vol.	63-366	18	MR44	M26			22-307	11	2N513					6	[3]6D6, 6A7, 75, 43, 25Z5	262.5	6-5
								22-308	11	RS216								
								22-195	15	TC22								
1117 (Chassis 5614)	Vol.	63-366	18	MR44	M26			22-385	25/13	3S584					6	[3]6D6, 6A7, 75, 42, 80	252.5	6-15,16
	Tone	63-316	22	MR35														
1161 (Chassis 5611, 5612)	Vol.	63-366	18	MR44	M26			22-125	25	RS213					6	[3]6D6, 6A7, 75, 42, 80	125	6-6
								22-318	25/13	RM262								
1162 (Chassis 5609) AC-DC	Vol.	63-366	18	MR44	M26			22-307	11	2N513					6	[3]6D6, 6A7, 75, 43, 25Z5	252.5	6-5, 7-22
								22-308	11	RS216								
								22-195	15	TC22								
1167 (Chassis 5618)	Vol.	63-366	18	MR44	M26			22-385	25/13	3S584					6	[3]6D6, 6A7, 75, 42, 80	252.5	6-25,26
	Tone	63-316	34	MR35														
1170 (Chassis 5701R, 5702R, 5703R)	Vol.	63-338	18	MR44	M26			22-321	25	TC71					7	[3]6D6, 75, 42, 76, 80	252.5	6-23,24
								22-322	25/13	RM262								
2009C	Vol.	63-153	6	MR18				22-87	1	RS213					5	[3]24, 45, 80		1-27
								22-102	1	RS213								
2051 (Chassis)	Vol.	63-284	15	MR48	M26			22-204	1	RM262					8	[3]58, 55, 59, 56, 80	485	1-45,47
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-286	7	MR28														
2056, 2056I (Chassis)	Vol.	63-284	18	MR48	M26			22-204	1	RM262					8	[3]58, 2A6, 59, 56, 80	485	4-15
	Tone	63-285	34	MR33				22-203	15	TC22								
	Sen.	63-309	7	E														
2062 (Chassis)	Vol.	63-284	17	MR48	M26			22-230	1	2N518					7	[3]58, 57, 56, 2A6, 2A5, 80	125	
	Tone	63-285	34	MR33														
	Sen.	63-316	7	MR34														

For all other Zenith models see Cross Reference by Chassis Number on following page

‡ Data not substantiated.

IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

ZENITH CROSS REFERENCE BY CHASSIS NUMBER

4A01.....4B515
4A02.....4K515
4A03.....4B536
4A04.....4K535, 4K570
4B01.....4K600
4B02.....4K616, 4K2616
4B03.....4K635, 4K658
4B04.....4B639
4B05.....4K460

5A01.....5G500, 5G501
5A02.....5G537, 5G572
5A03.....5G504
5A10.....5G510, 5G534
5B01.....5D610, 5D610W
5B02.....5D611, 5D627, 5D2611
5B03.....5R680
5B04.....5K637
5B05.....5G617, 5G2617
5B06.....5G636
5B07.....5G603
5B13.....5R686, 5R686J
5B14.....5R680X, 5R680XJ

6A01.....6D510
6A02.....6S511, 6S527, 6S528
6A04.....6S580
6A05.....6S546, 6S556
6A05R.....6S532
6A08.....6R583
6A10.....6D525, 6D526
6A16.....6D512, 6D512W, 6D539
6A17.....6MN595
6A19.....6G501F, 6G501M, 6G501L, 6G505
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6A21.....6MF590, 6MF591
6A23.....6MF593
6A24.....6D516
6A25.....6G533, 6G560
6A26.....6D520, 6D520W, 6D538
6R01.....6D614, 6D614W, 6D621, 6D629, 6D2614
6B02.....6R631
6B03.....6G601D, 6G601L, 6G601M, 6G601MH, 6G601ML
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6R06.....6R683, 6R684, 6R687R, 6R688
6B08.....6S632, 6S646, 6S656
6B09.....6G638, 6G660
6B14.....6D620, 6D624, 6D644
6B25.....S9005

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7A09.....7ML592
7A11.....7S598
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7B01R.....7S633R, 7S634R, 7S657R
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7B04.....7G605

8A01.....8S586
8A02.....8S531, 8S548, 8S563, 8S564
8A03.....8S587, 8S588
8A04.....8S593, 8S594
8B01.....8S647, 8S661

10A1.....10S531, 10S549, 10S566
10A2.....10S589, 10S590
10A3.....10H551, 10H571
10A3R.....10H571R, 10H573
10B1.....10S699
10B2.....10S690

12A1.....12S550Z, 12S568E, 12S568Z, 12S569E, 12S569Z
12A2.....12S595Z
12A3.....12S550, 12S568, 12S569
12A4.....12S595
12A6.....12H678, 12H679
12B1.....12H650, 12H671, 12H691
12B2 (Phono).12H689, 12H695

14B1.....14697

22B1.....22H698, 22H699

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5413.....4K329
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5703.....825, 827, 829, 870
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5706.....7M91S, 7M91D
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5708E.....7DA119, 7DA126, 7DA127, 7DA138, 7DA148, 7DA162, 7DA168
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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZEPHYR																		
AA (650,001 & up)	Vol.		‡	MR48				5	19	TC22					4	1A6,[1]1B4, 1F4	456	
C (AC-DC, 750,001 up)	Vol.		6	MR39		EX600		8-4	6	2N516					4	78, 77, 43, 25Z5		9-1
								5	15	TC22								
DA	Vol.		17	MR48				5	19	TC22					5	1C6, 1A4, 1B5, 30, 19	456	9-1
	Tone		22	MR39	M26													
DB, DF	Vol.		17	MR48				10-20	1	3S584	B8		245C	C3	4	1C6, 34, 1B5, 38	456	
	Tone		22	MR39				.01		Buffer	B14							
G	Vol.		15	MR48				8-8	4	See Note	B3				7	6A7, 6K7, 76, 6F5,		
	Tone		34	MR39				5	15	TC22						42, 6G5, 80	456	
GB, GBE	Vol.		17	MR48				8-8	1	2N518			245C	C3	5	1C6, 1A4, 1B5, 30, 19	456	10-1
	Tone		34	MR48				.01		Buffer	B14							
GE	Vol.		15	MR48				8-8	4	See Note	B3				7	6A7, 6K7, 76, 6F5,		
	Tone		34	MR39				5	15	TC22						42, 6G5, 80	456	
NT, NTE	Vol.		15	MR18				4-8-8	3	See Note	B3				10	6K7, 6A8, 6D6, [2]76,		
	Tone		22	MR48				5	15	TC22						[2]6B5, 75, 80, 6G5	456	7-1
P (645,001 & up)	Vol.		17	MR48				8-8	4	2S567					5	6A7, 6D6, 75, 42, 80	456	7-2
	Tone		22	MR39				5	15	TC22								
RKD, RKE, RKSD	Vol.		6	MR40		EX300		15-8	6	2N516					4	6D6, 6C6, 43, 25Z5		
								5-5	15	TN111								
TA	Vol.		17	UM154	M26		A96	8-8	1	2N518			248	C3	4	6A7, 78, 6B7, 41	456	9-2
								5	15	TC22								
								.0125-.0125		Buffer	B14							
TSA105	Vol.	N1595	18	UM154-SS18	M26			N1366	21	2N514					5	12A8GT, 12K7GT,		
																12Q7GT, 35L6GT,		
																35Z5GT	456	10-2
V (AC-DC, 285,001 up)	Vol.		6	MR40	M26	EX500		8-4	6	2N516					4	77, 78, 43, 25Z5		
								5-5	15	TN111								
Y (AC-DC, 405,001 up)	Vol.		6	MR18		EX500		20-4	6	2N509					4	6D6, 6C6, 43, 25Z5		7-2
	Tone		22	MR39				5-5	15	TN111								
2M7	Vol.		18	MR48	M26	EC240		8-8	1	2S567			292	C3	6	[2]6K7, 6A8, 6Q7, 6F6,		
																0Z4	177.5	
3M7	Vol.		18	UM161-SS3	M26			8-6	1	2S567			294	C3	6	[2]6D6, 6A7, 6Q7, 41,		
																0Z4	262	10-3
3M8	Vol.		18	UM161-SS3	M26			8-6	1	2S567			294	C3	7	[2]6K7, 6L7, 6C5, 6Q7,		
																6F6, 0Z4	262	
4Z (290,001 & up)	Vol.		6	MR40		EX300		15-8	24	2N509					4	78, 6C6, 38, 76		
								5-5	15	TN111								
5DA	Vol.		17	MR48				5	19	TC22					5	1C6, 34, 1B5, 30, 19	456	
5DK (780,001 & up)	Vol.		17	MR48				4-20	6	2N509					5	6A7, 6D6, 75, 43,		
	Tone		22	MR39				5-5	15	TN111						25Z5	456	9-2
6G (700,001 & up)	Vol.		17	MR48				8-8	4	See Note	B3				6	6A7, 6D6, 75, 76, 42,		
	Tone		22	MR39	M26			5	15	TC22						80	456	11-1
6GM (650,001 & up)	Vol.		45	MR48				8-8	4	See Note	B3				6	6A8, 6K7, 6H6, 6F5,		
	Tone		22	MR39	M26			5	15	TC22						6F6, 5Z4	456	11-1
8J (765,001 & up)	Vol.		17	MR48				4-8	30	RM262					8	[2]6D6, 6A7, 75, [1]42, 80	456	7-1
	Tone		22	MR39	M26			4-8-8	30/13	3S584								
								5	19	TC32								
								5	15	TC22								
8J (765,361 & up)	Vol.		17	MR48				4-8	30	RM262					8	[2]6D6, 6A7, 75, 76,		
	Tone		22	MR39	M26			4-8-8	30/13	3S584						[2]6B5, 80	456	
								5	15	TC22								
8JM (720,001 & up)	Vol.		118	MR39				4-8	30	RM262					8	[2]6K7,[2]6A8,[2]6F6, 5Z4	456	
	Tone		22	MR39	M26			4-8-8	30/13	3S584								
								5	15	TC22								
20A6, 21A6, 22A6	Vol.		15	MR48	M26			5	19	TC22					5	1C6, 1A4, 1B5, 30, 19	456	8-1
20B6, 21B6, 22B6,																		
20P6, 21P6, 22P6	Vol.		15	MR48				4-8	1	2N516			See Note	C8	5	6D8, 6S7, 6Q6, 38,		
	Tone		34	MR39	M26			5-5	15	TN111						6G5	456	8-1
20X7, 21X7, 22X7	Vol.		15	MR48				20-20	1	2N509					6	6A7, 6K7, 75, 43,		
	Tone		34	MR39	M26			5-5	15	TN111						25Z5, 6G5, K38B2	456	8-2
23A5	Vol.	2008-C	15	MR48	M27										5	1C6, 1A5, 1B5, 30, 19	456	13-6
25B5	Vol.		15	MR48	M26			8, 8	1	RS213					5	6A7, 6S7, 6T7, 41,		
								10	15	TC22						6G5	456	11-2
25X7	Vol.		15	MR48	M26			20	4	RS207					6	6A7, 6D6, 75, 43,		
								10	4	RS215						25Z5, 6G5, L42C	456	10-4
25Y11	Vol.		15	MR48				8-8	2	2N518					11	6K7, 6L7, 6D6, [2]76,		
	Tone		34	MR39	M26			5-5	15	TN111						[2]6B5, 80, 6G5	456	8-2
30B7	Vol.		15	MR48				8-8	1	2N518			See Note	C8	6	6D8, 6S7, 6L5, 6Q6,		
	Tone		34	MR39	M26			5-5	15	TN111						6N5, 38	456	10-4
30P7	Vol.		15	MR48				8-8	1	2N518			See Note	C8	6	6D8, 6S7, 6L5, 6Q6,		
	Tone		34	MR39	M26			5-5	15	TN111						38, 6G5	456	
30X5	Vol.		6	MR18	M26	EX300		14-8-5-5	1/15	3S582/TN111					4	6D6, 6C6, 43, 25Z5		10-5
30Y9	Vol.		15	MR48				16-16-8-4	9	Order from	Mfr				8	6L7, 6D6, 76, 6H6,		
	Tone		34	MR39	M26											75, 25B5, 25Z5, 6B5	456	
31X5	Vol.		6	MR18	M26	EX300		20-10	1	2N509					3	6D6, 6C6, 25A7, L49C		
31YP6	Vol.		15	MR48	M26			40-12-10	‡	3N533					5	6A7, 6D6, 6Q7, 25B5,		
	Tone		34	MR39												25Z5, 16SL8	456	
32B7	Vol.		15	MR49	M26			8-8	1	2N516			See Note	C8	6	6D8, 6S7, [2]6L5, 19	456	
	Tone		34	MR39														
32P6	Vol.		15	MR44	M26										6	6A7, 6D6, 75, 76,[3]48	456	
	Tone		34	MR39														
32X5, 33X5, 34X5	Vol.		6	MR18	M26	EX300		16-12	4	TCS55					4	6D6, 6C6, 43, 25Z5		10-7

‡ Data not substantiated.

IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS						
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note	No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
ZEPHYR—Continued																		
32Y5	Vol.		15	MR18	M26			8-4	4	TCS71					5	6A7, 6D6, 75, 42, 80	456	10-6
	Tone		34	MR39														
32Y6	Vol.		15	MR18	M26			8-4	4	TCS71					7	²6K7, 6A8, 6Q7, 6F6, 6G5, 80	456	11-3
	Tone		34	MR39														
33B6	Vol.		15	MR18	M26			8-8	1	2N518			See Note	C8	6	6D8, 1E5, ²1A4, 1J6, 6T7	456	10-5
	Tone		34	MR39														
35X5, 36X5	Vol.		6	MR18	M26	EX300		20-8-6-5	1/15	UR182/TC22					4	6D6, 6C6, 43, 25Z5, 185R8		11-4
35Y12	Vol.		15	MR48	M26			12	4	RS215					12	²6K7, 6A8, ²6H6, 6G5, ²6C5, ²6F6, ²5Y3	456	10-11
	Tone		34	MR39				18	4	RS219								
36Y12	Vol.	V15	45	MR48				C216	1	HD684					12	²6C6, 6D6, ²76, ²42, 6G5, 80	456	12-2
	Tone	V107	147	MR39				8-8	1	2N518								
								10, 10	15	TC22								
39X4	Vol.		6	MR36				30-10	1	2N513					4	6K7, 6J7, 25L6, 25Z6		10-8
39Y6	Vol.		18	MK401	M26			10, 10	25	TC72					6	6A7, 6D6, 76, 75, 41, 80	456	10-8
	Tone		22	MK401														
39YP5	Vol.		6	MR36	M26			16-16	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, L55BG		10-10
	Phono.		63	Order from	Mfr.													
40X4	Vol.		6	MR29	M26			12-8-6	46	2N509/TC42					4	6K7, 6J7, 25L6, 25Z6		11-4
40Y6	Vol.		17	MR48				16-16-8-4	9/13	See Note	B3				5	6A7, 6K7, 6Q7, 25B5, 25Z5	456	11-4
40Y8, 40Y8C	Vol.	P2659	18	TM233-SS25	M26			10-10	1	2S569					8	6A7, 6D6, ²76, 75, ²41, 80	456	10-10
41X5	Vol.		6	MR18	M26	EX500		16-12	4	TCS55					4	6D6, 6C6, 43, 25Z5, L55C		10-7
41X6	Vol.		15	MR48	M26			16-20	4	TCS55					5	6A7, 6D6, 6Q7, 43, 25Z5, BM49B	456	10-12
42X5	Vol.		6	MR18	M26	EX500		16-12	4	TCS55					4	6D6, 6C6, 43, 25Z5, L49C		10-7
42X6	Vol.		15	MR48	M26			16-20	4	TCS55					5	6A7, 6D6, 6Q7, 25L6, 25Z5, BM49B	456	
43X5	Vol.		6	MR18	M26	EX500		14-8-4-5	1/15	UR182/TC22					4	6D6, 6C6, 43, 25Z5, L55C		
61X6	Vol.		15	MR48	M26			16-12	4	TCS55					5	6A7, 6D6, 75, 43, 25Z5, L49C	456	10-7
61X8	Vol.		15	MR48	M26			16-12	4	TCS55					7	6A7, 6D6, 75, 6G5, 76, 25L6, 25Z5, L49C	456	
	Tone		34	MR39														
62P	Vol.	V6	6	UM128-SS1	M26	EX200		C212	8/15	UR182/TC22					4	6D6, 6C6, 43, 25Z5		11-5
62X8	Vol.		15	MR48	M26			40-10-8	6/13	2N514/TC42					7	6A7, 6D6, 75, 6G5, 76, 25L6, 25Z5, L49C	456	11-5
	Tone		34	MR39														
62X8 (Late)	Vol.	V13	45	MR48	M26			C226	6	TC48					7	6A7, 6D6, 76, 6Q7G, 25B5, 6G5, 25Z5	456	11-5
	Tone	V105	22	MR39				C200	6	TC44								
								C204	13	TC42								
63X8	Vol.		15	MR18	M26			16-12	4	TCS55					7	6A7, 6D6, 76, 6G5, 6F5, 43, 25Z5, L40S	456	
	Tone		34	MR39														
67Y8	Vol.		15	MR18				8, 8	‡	HD684					8	6A7, 6D6, ²76, 6F5, 6G5, 42, 80, WL22	456	
	Tone		34	MR39	M26			10	15	TC22								
153-5L	Vol.	P2935	18	MR48	M26			P2936	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5	455	11-6
352-5R	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-6
381-7H	Vol.	P3335	18	MK401	M26			P3419	1	FP231					7	6A7, 6D6, 75, ²41, 76, 80	455	11-8
	Tone	P3337	22	MK401														
576-5Q, 577-5Q	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-9
605-7C	Vol.	P3335	18	MK401	M26			10-10	1	FP231	B117				7	6A7, 6D6, 75, ²41, 76, 80	455	11-8
	Tone	P3337	22	MK401														
666-6J to 669-6J inc.	Vol.	P3099	18	MR48	M26			P2936	1	TC47					6	6A7, 6D6, 75, 25L6, ²25Z5	455	11-10
	Tone	P3279	22	MR48														
696-6M, 697-6M	Vol.		18	UM154	M26		A96	20-20	1/15	3N533					6	²12SK7, 12SA7, 12SQ7, 35L6, 35Z5	455	11-10
	Tone		22	UM154			A96											

‡ Data not substantiated.

IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

Explanation of Abbreviations

(Used in Control Listings, Pages 11 to 460)

Att.....Attenuator Control
AVC.....Automatic Volume Control
Band.....Band Adjustment Control
Bass.....Bass Tone Adjustment Control
Batt.....Battery Voltage Control
BFO.....Beat Frequency Osc. Control
Bias.....Bias Adjustment Control
B. Tone....Bass Tone Control
Clr'ty.....Clarity Control
Equal.....Equalizer Control
Exp.....Expander Control
Exp. Bias...Expander Bias Adjustment
Fid.....Fidelity Control
Fidlty.....Fidelity Control
Fil.....Filament Control
F.O.G.....Flashograph Adjustment Control
Gain.....Gain Control
Harm.....Harmonic Control
H.F. Tone..High Frequency Tone Control
Hum.....Hum Control
L.F. Tone..Low Frequency Tone Control
Loc'lzr.....Localizer Control
Meter.....Meter Adjustment Control
Mic.....Microphone Adjustment Control
Mike.....Microphone Adjustment Control
Mod.....Modulator Control
Mon.....Monitor Control
M. Vol.....Manual Volume Control
NSC.....Noise Suppression Control
Osc. Adj....Oscillator Adjustment Control
P.E. Adj....Phono-Electric Cell Adjustment Control
Phantom...Phantom Tuning Control
Phono.....Phonograph Pick-up Control
Power.....Line Voltage Control
Primary....Primary Voltage Control
P.U. Adj....Pick-up Adjustment Control
P.U. Volt...Pick-up Voltage Control
QAVC.....Q.A.V.C. Adjustment Control
Reg.....Regeneration Control
Regen.....Regeneration Control
Relay.....Relay Adjustment Control
Screen.....Screen Voltage Control
Sel.....Selectivity Control
Sen.....Sensitivity Control
Sil.....Silencing Control
Supp.....Suppressor Control
Tone.....Tone Control
Tone B'm..Tone Beam Adjustment Control
T. Tone.....Treble Tone Control
Tunlgt.....Tuning Light Adjustment Control
Vol.....Volume Control
Voltage.....Plate Voltage Adjustment Control
V. R.....Voltage Regulator Control
EX100.....EX followed by a numeral indicates that an external resistor of the stated value must be connected between the right hand terminal of the control and the cathode circuit of the receiver.

"A" NOTES

A1—Shape of shaft unknown. If slotted or tongued see description of Mallory control types UC511, UC512, SRP251, SRP282. extension shafts types RS245, RS246, and plug-in shafts (SS types in general parts catalog).

A2—This control used on some types of this chassis in place of the first mentioned control.

A3—Mechanics of control unknown; select the proper Mallory control having resistance and taper given, or if value is not given, see Note 5. If control is of two sections use a Mallory dual. See Note 1.

A4—This control used on later type of this chassis.

A5—Resistance value unknown. Measure the overall resistance and taper of the original unit; then select the Mallory type having an equivalent value and taper mechanically suited for the application. See complete control and shaft descriptions in general parts catalog.

A7—Circuit was changed during production so as to use a 500M control.

A8—This receiver was originally equipped with either a Mallory wire control of 6M ohms, or a carbon control of 30M ohms. Mallory type MR24 control will replace either of the originals. However, if a wire control is desired, use the Mallory F7.

A9—Space available unknown; if not sufficient for the Mallory DRP119, change the circuit to the ordinary "Ant.-Bias" circuit as shown in Circuit No. 6 and use the Mallory MR18 control.

A10—Improved signal attenuation may be obtained by connecting the left-hand terminal of the control to the antenna. This gives the ordinary Bias and Antenna type of control circuit.

A11—Original control is in filament circuit. Change to Circuit No. 2 and use Mallory type MR18.

A12—Atwater Kent receivers for which Mallory SRP239 is specified may be serviced with the Mallory silent carbon control type E12 by installing it in the original bakelite control housing.

A14—Check original control circuit to ascertain if the minimum bias resistor is included in the original control. If so use the Mallory minimum bias plate on the wire controls, or if a carbon control is recommended, use the adjustable resistor.

A15—Requires the use of Mallory shoulder nut A11260-12 and also the regular nut. Arrange so that control is set back from the panel so as to clear the dial. Mallory extension bushing EB247 may be used.

A16—May require use of Mallory bracket RB248.

A17—Be sure to check the coupling condenser before replacing the control.

A18—Some of these chassis use the Mallory type GG control.

A19—To find the correct Mallory replacement in all tone compensated tap circuits, measure the resistance between the left-hand terminal and tap (when facing shaft, terminals at the bottom), and select a tapped replacement control having a similar overall resistance and tapped at a value nearest that of the original control.

When the tap is used in a degenerative circuit or in any application other than that of tone compensation, it is our suggestion that the original control be forwarded to the factory for examination and recommendation by our engineering staff.

If there is any question with regard to a replacement choice in any tapped control application, please forward information as to make and model of the receiver, and the original control; and we will be glad to give a specific recommendation for the Mallory control best suited for the application.

A20—Originally a dual control, this circuit is easily adaptable to the Mallory type MR18 control by using Circuit No. 6. Refer to Note 14 when installing the control. If desired, Mallory DRP119 is suitable for this circuit.

A21—This receiver may require a control with a portion of the shaft of smaller diameter to clear the dial.

A22—Use the Mallory extension shafts RS242 and RS244. These shafts are attached to the type T control and cut to the proper length, preferably by cutting the shaft of the type T control and the RS242 shaft.

A23—When using the Mallory SRP185 with metal shaft, be sure to ground the shaft near the front of the set by means of a pigtail, if there is any tendency toward oscillation.

A24—Extension shaft required, use RS244 for the 3/16" diameter. For 1/4" diameter use the RS242 or RS243.

A25—If shaft of UC512 control is not of sufficient length use the Mallory type MR18 control and extension shaft RS245.

A27—Used on the first type of this chassis.

A28—Volume control for radio tuner section.

A29—Volume control for radio amplifier section.

A30—This is a replacement strip to be installed in the original housing.

A31—Parallel the two sections of the Mallory No. 7 switch to prevent overload.

A33—Requires Nos. 203 and 212 washers.

A34—"Kennedy" made by Detrola; see Detrola Model 1000.

A36—In using the recommended replacement for this application ground the center terminal of the control to the case by the use of the ground strap packed in the envelope with the control.

A37—Use an MR33 control and replace the original knob with a standard 1/4" type.

A39—Switch used on later types and model KDC only.

A40—Switch used on volume control only on chassis having a tone control.

A41—Connect left-hand terminal to chassis, center terminal to screen circuit, and right-hand terminal to +67.5 volts (view control from shaft end, terminals down or toward operator).

A42—Cut off the shaft of the SRP251 control flush with the bushing.

A43—Original control was of the inductive type. Replacement with a variable resistance control is highly satisfactory. Connect the left-hand terminal to the antenna and grid, and the center to ground. (Control viewed from the shaft end, terminals at the bottom.)

A44—Original control is a dual; however, only one section is to be used at any one time. The Mallory G7 is a perfect replacement for the antenna shunt section which is most commonly used.

A45—When replacing the tone control, use Mallory Bracket RB249, or file out the hole in the original mounting bracket. Be sure to use only the left-hand and center terminals of the control.

A48—Refer to schematic No. 14. The original control was in the filament circuit. We recommend a change to

Circuit No. 14, using a Mallory type MR41 control as a shunt across the detector grid coil.

A49—The DRP222 control was originally made with a short shaft for use in the chassis 180 (model 181), and requires the use of two RS242 extension shafts when used in the chassis 100 (model 101).

The DRP222 is now being made with a 7 5/32" shaft to fit the chassis 100. When used in the chassis 180 this shaft should be cut off at a point 1 3/8" from the body of the control.

NOTE—The chassis 100 requires the use of three terminals on the rear (phono) section and only the center and right-hand terminals of the front section.

In some cases better ratio of signal attenuation is obtained by connecting the left-hand terminal of the front section to the antenna so as to obtain a signal attenuation in addition to the bias increase.

A50—The DRP117 is an exact replacement for the Mallory original. The DRP242 control is an exact replacement for the control in the bakelite housing.

A51—Requires Mallory FS251 flexible shaft.

A52—Requires Mallory FS252 flexible shaft.

A53—This control does not require the fixed resistor shunt.

A54—When installing the "CE" control, connect the front section to the antenna circuit and the rear section to the bias circuit. This is the reverse of the original but has been field checked and found to give satisfactory results.

A55—The Mallory No. 14 switch has four terminals which must be connected as follows: One terminal to the chassis, one terminal to the white lead, and one to the black lead with the white tracer. Disconnect the 1,500 ohm resistor from the chassis and connect it between the remaining switch terminal and the remaining lead, which goes to C9 volts and to the grid returns of the 1H4G and 1E7G.

A56—The Mallory DRP114 has a 250 ohm front section for the bias control (circuit 8) and a 5,000 ohm rear section for the antenna control (circuit 2). Original control may have had sections in reverse order.

A57—The original control is two megohms.

A58—Left-hand terminal (control viewed from shaft end, terminals down) must be grounded to the chassis.

A59—The original control has a dummy terminal. This terminal is the junction point of a condenser and a fixed resistor. When using the Mallory replacement solder together and tape the connections formerly made to this terminal.

A60—May require the use of Mallory EB247 extension bushing.

A61—Can be replaced with standard Mallory control. May require the use of RB248.

A64—Some of the General Motors receivers used three terminals on the antenna section of the original control. This was then changed to two terminals. When using the DRP309 to replace the control having three terminals on the antenna section connect the lead from the antenna coil to the moving arm (center terminal) together with the lead from the antenna.

A65—For emergency replacement use SRP265 control.

A66—Wire the switch so that it is shorted when the control is turned to extreme counter-clockwise position.

A67—Disregard the tap in this replacement.

A68—File the shaft to duplicate the original.

A72—The EC240 is a 1/4" shaft coupler having an internal sleeve to reduce the diameter to 3/16".

A73—For this replacement we advise a change in the volume control circuit to correspond to Circuit No. 8. Use an A3MP control and a 4,500 ohm fixed resistor in series, in place of the original tapped control.

A74—Due to many variations in both circuit and control, we advise measuring the original control carefully and duplicating with similar Mallory control, or returning the original to Mallory for duplication.

A75—If tone control on the broadcast band is not desired, an MR39 control with an M27 switch may be used.

A76—Improved operation may often be obtained by removing the shunt (6M ohms) resistor across the control and using Mallory E control. In extreme cases, use a Mallory E7 control and connect as in Circuit No. 6.

A77—If original control has 3/16" diameter shaft end, use Mallory RS244 extension shaft.

A79—If trouble with oscillation is encountered in this set, the addition of a 5,000 ohm resistor connected from the antenna to ground will usually effect a cure.

A80—BE SURE to check the series resistor between the screen circuit and "B" positive. If it is NOT a FULL 20,000 ohms or if it is of the carbon type REPLACE it with a WIRE WOUND 20,000 ohm resistor. This will prevent the control from being burned out and the possibility of a dissatisfied customer.

A82—The voltage applied across the SRP261 control should not exceed a maximum of 170 volts. If the voltage exceeds this value, the control will be burned out. IMPORTANT: Be sure that the bias on the tubes is at the rated value when using the SRP261 control as a plate voltage regulator.

A83—The Mallory DRP221 control is an exact replacement for the dual control used on the 50, 60, and 70 series receivers, although it is used interchangeably with SRP261 control in the earlier 50 and 60 series. In many cases a change of circuit to the antenna bias type, and the use of the Mallory H7 control will give much better control action.

A85—Because of a tendency toward noisy operation with the present volume control circuit, we recommend a change to circuit 15 using a Mallory MR53 control. Connect a 500M ohm fixed resistor between the leads that were soldered to the outside terminals of the original control. Take out the one megohm resistor connected between the grid of the first audio tube (type 27) and the chassis. Install the MR53 control as follows: The right-hand terminal to the coupling condenser, the center terminal to the first audio grid, and the left-hand terminal to the chassis. (Control viewed from the shaft end, terminals down.)

A86—The tone control as connected in Circuit 130 has its maximum treble response in the extreme counter-clockwise or normal off position.

A87—If control is single section type, use Mallory MR57.

A88—Ground the cover of the control for this installation.

A90—Refer to specified circuit and reverse "L" and "R" terminals.

A94—To save yourself time and troulbe we advise the use of Mallory RS244 extension shaft which allows the use of the old 3/16" knob with an easily obtained Mallory Universal Control. Where the original has a short 3/16" shaft, either drill out the knob or use the later 1/4" type which may be obtained from the set manufacturer.

A95—The original volume control had a 5,000 ohm resistor connected between the two actuating arms of the switch. This or a similar resistor must be connected in the same manner on the Mallory No. 7 replacement switch.

A96—Select proper replacement shaft. See replacement shaft (SS types) description in the Mallory general parts catalog.

A99—Connect a 5,000 ohm fixed resistor in series with the right terminal of the replacement control. (Control viewed from shaft side, terminals down.)

A100—The original control has no connection to the resistance on the right-hand terminal. When using the Mallory replacement, remove the wires connected to the right-hand terminal (facing shaft side, terminals down), solder together and tape.

A101—The original control does not have a center terminal. To replace with a Mallory control, connect the center terminal to ground and connect the two wires from the original control to the remaining two terminals.

A103—In some cases, the original control has a 400M ohm stop between the rotor and the right-hand terminal. Check to see if the stop is included in the original control. If so, add a 400M resistor in series with the right-hand terminal and the lead that originally connected to this point. (Viewing control from shaft end, terminals down.)

A105—In using the recommended replacement for this application ground the right-hand terminal at the control to the case by use of ground strap packed in envelope with the control. (Control viewed from shaft side, terminals down.)

A106—Install a 50,000 ohm resistor in series with the right-hand terminal of the control and the lead connecting to the same terminal of the original control. (Controls viewed from shaft side, terminals down.)

A108—The original control has a dummy tap which is used as a tying point and is insulated from the control. When using the Mallory replacement, solder and tape the wires that originally joined at this point.

A109—Disregard first tap when installing this control.

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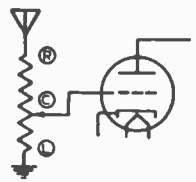

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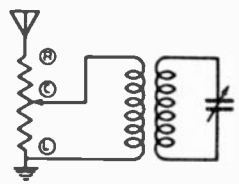

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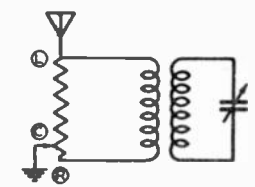

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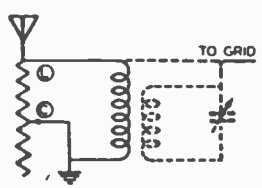

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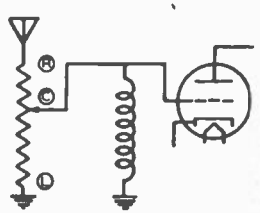

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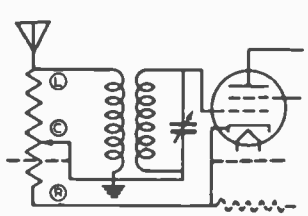

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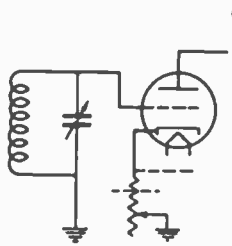

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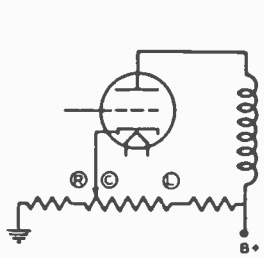

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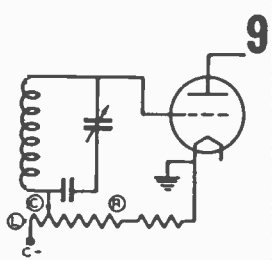

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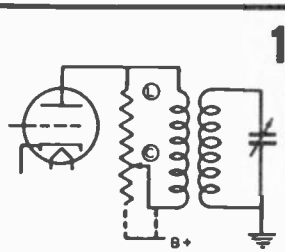

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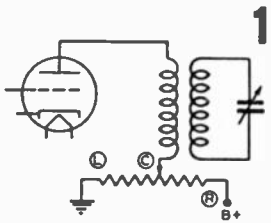

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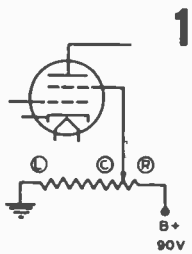

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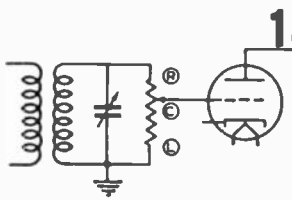

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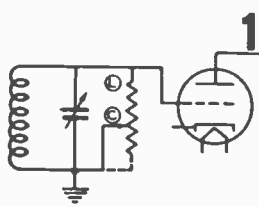

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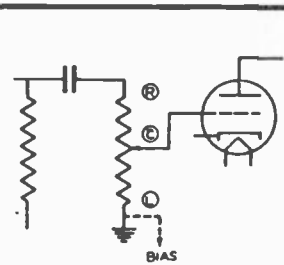

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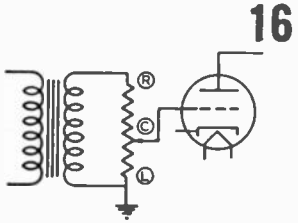

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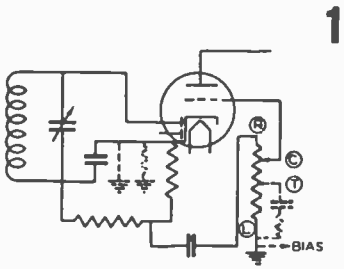

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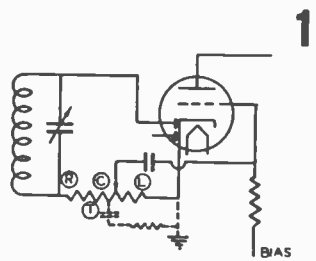

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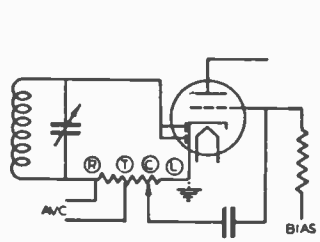

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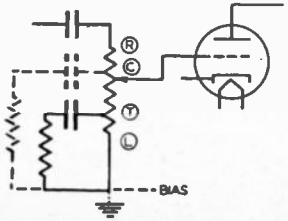

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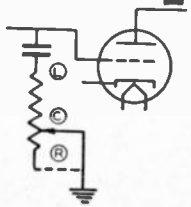

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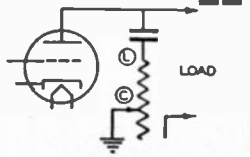

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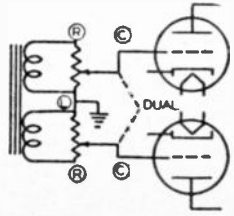

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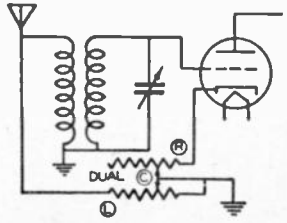

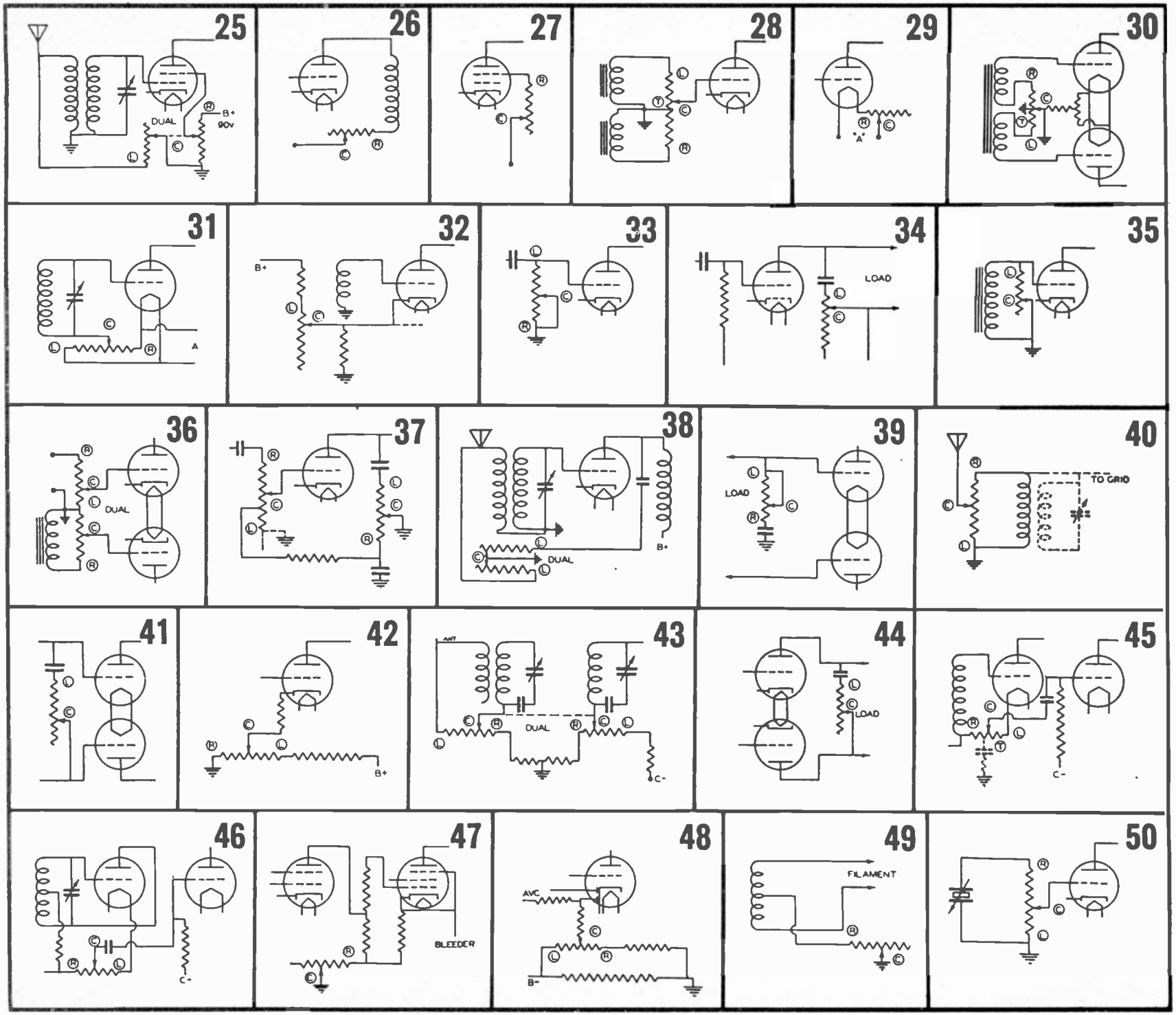
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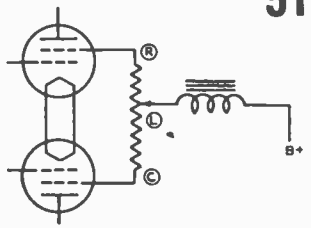

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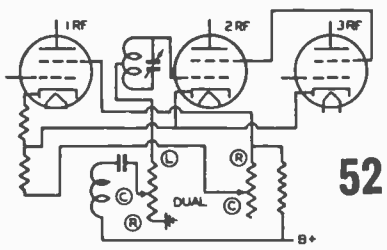

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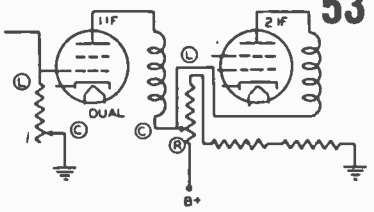

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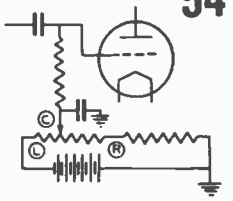

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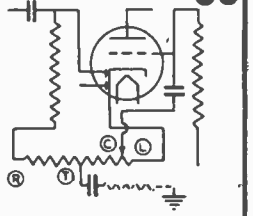

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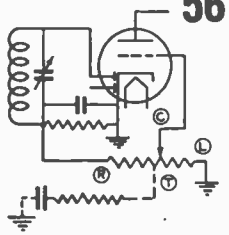

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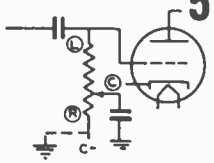

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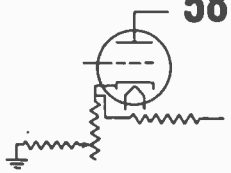

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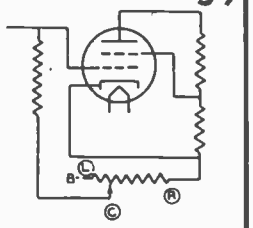

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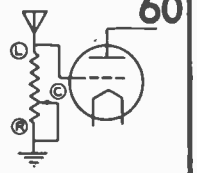

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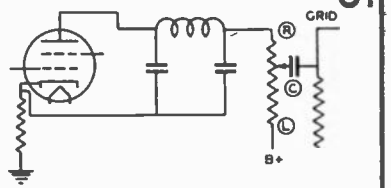

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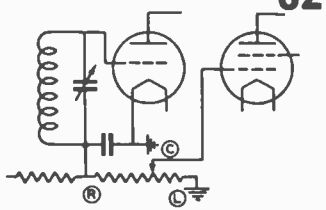

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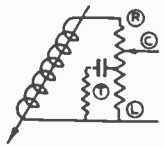

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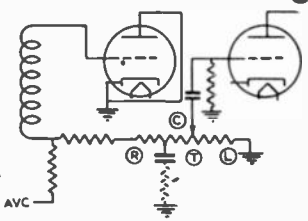

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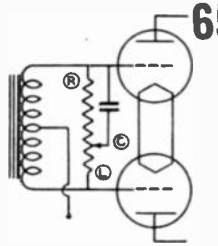

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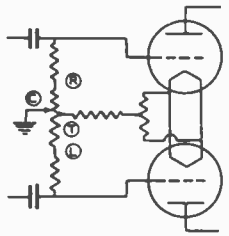

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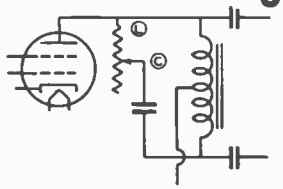

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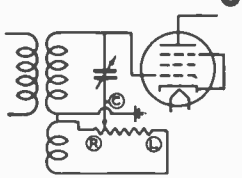

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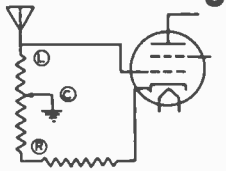

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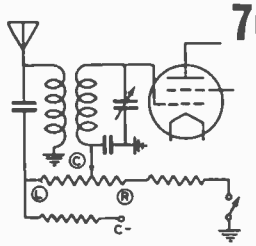

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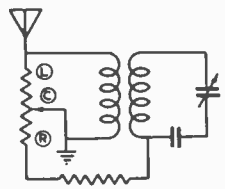

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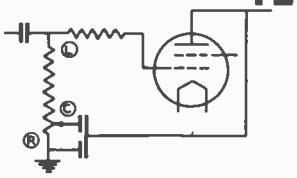

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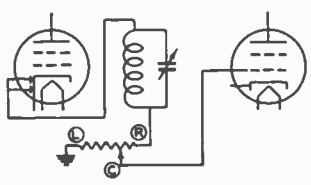

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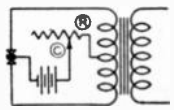

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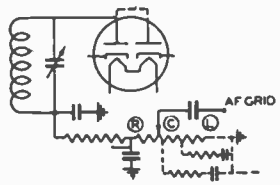

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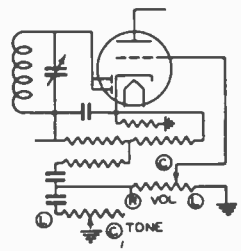

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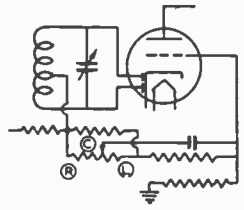

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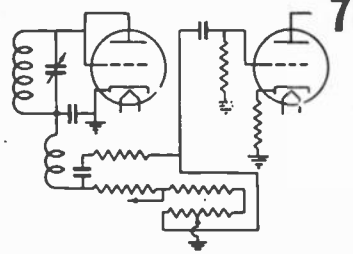

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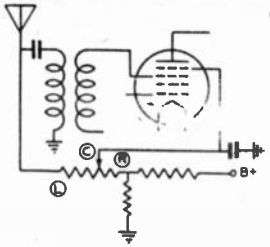

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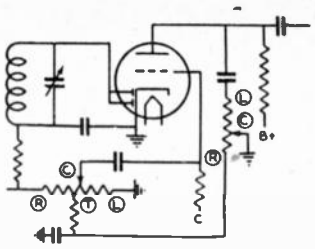

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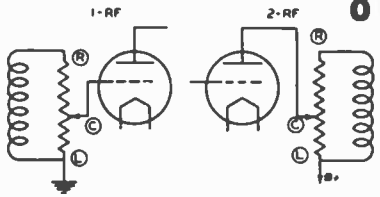

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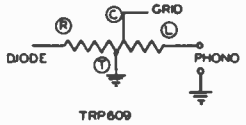

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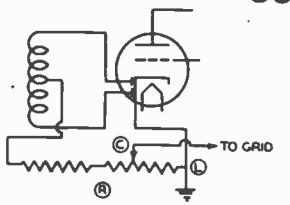

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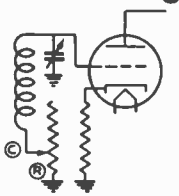

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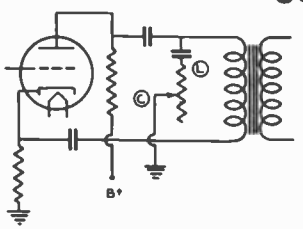

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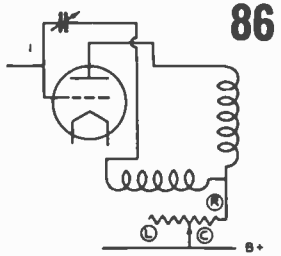

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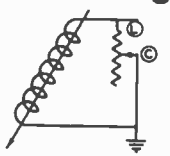

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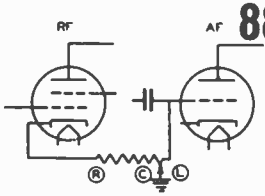

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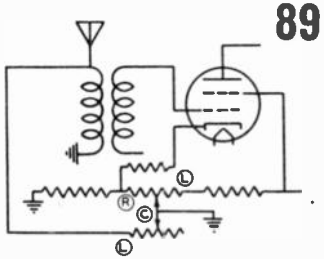

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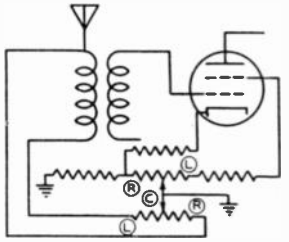

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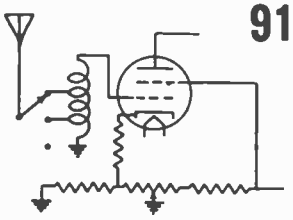

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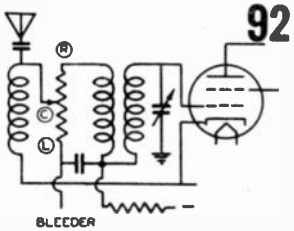

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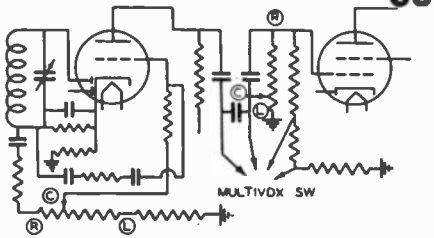

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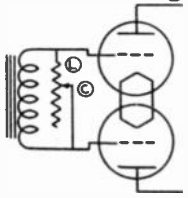

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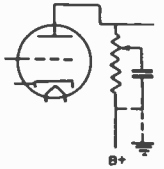

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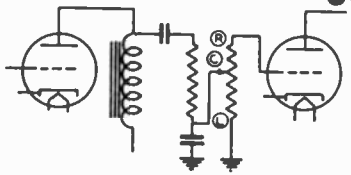

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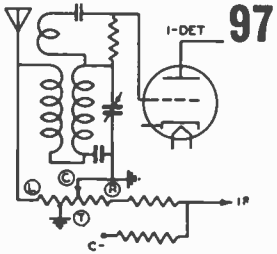

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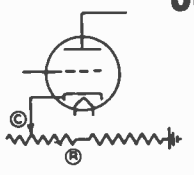

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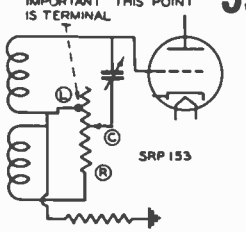

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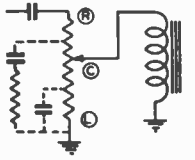

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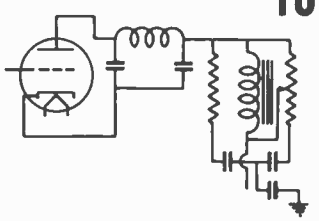

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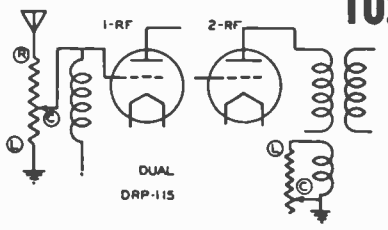

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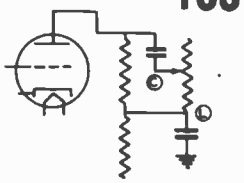

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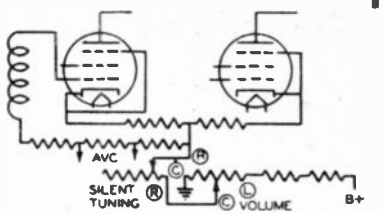

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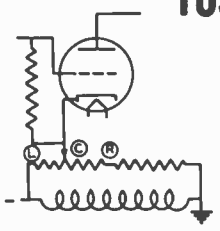

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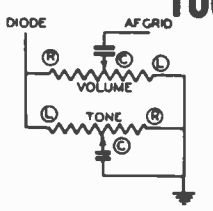

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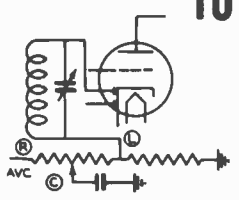

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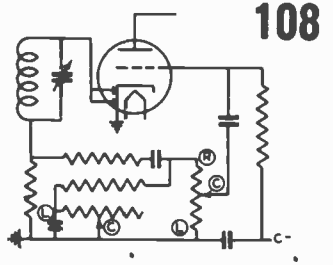

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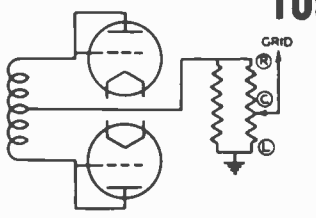

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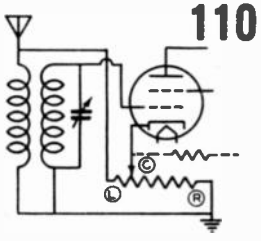

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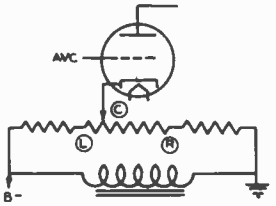

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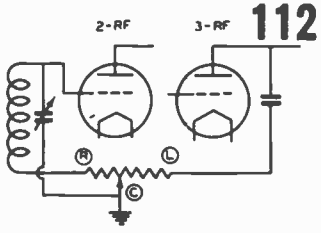

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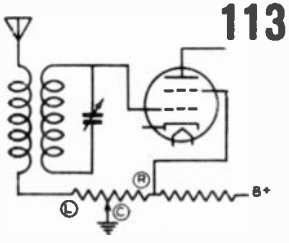

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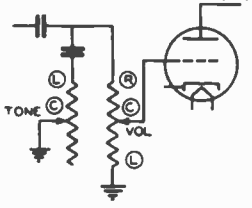

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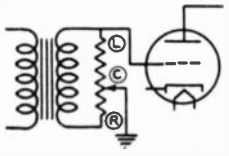

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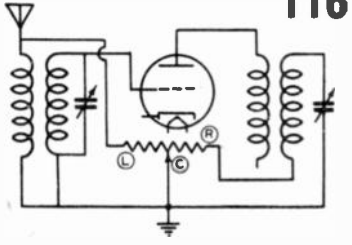

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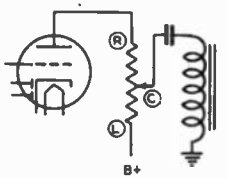

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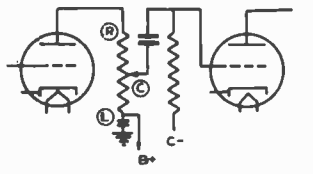

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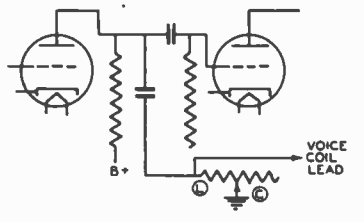

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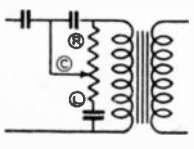

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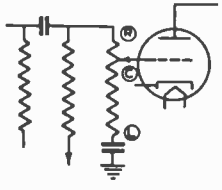

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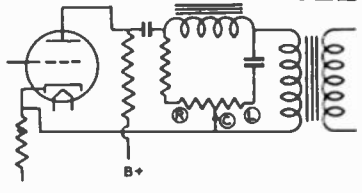

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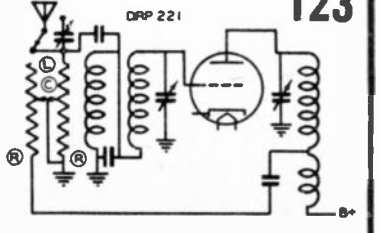

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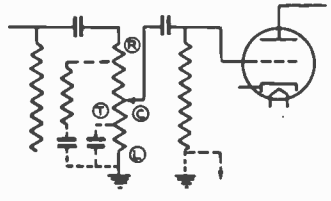

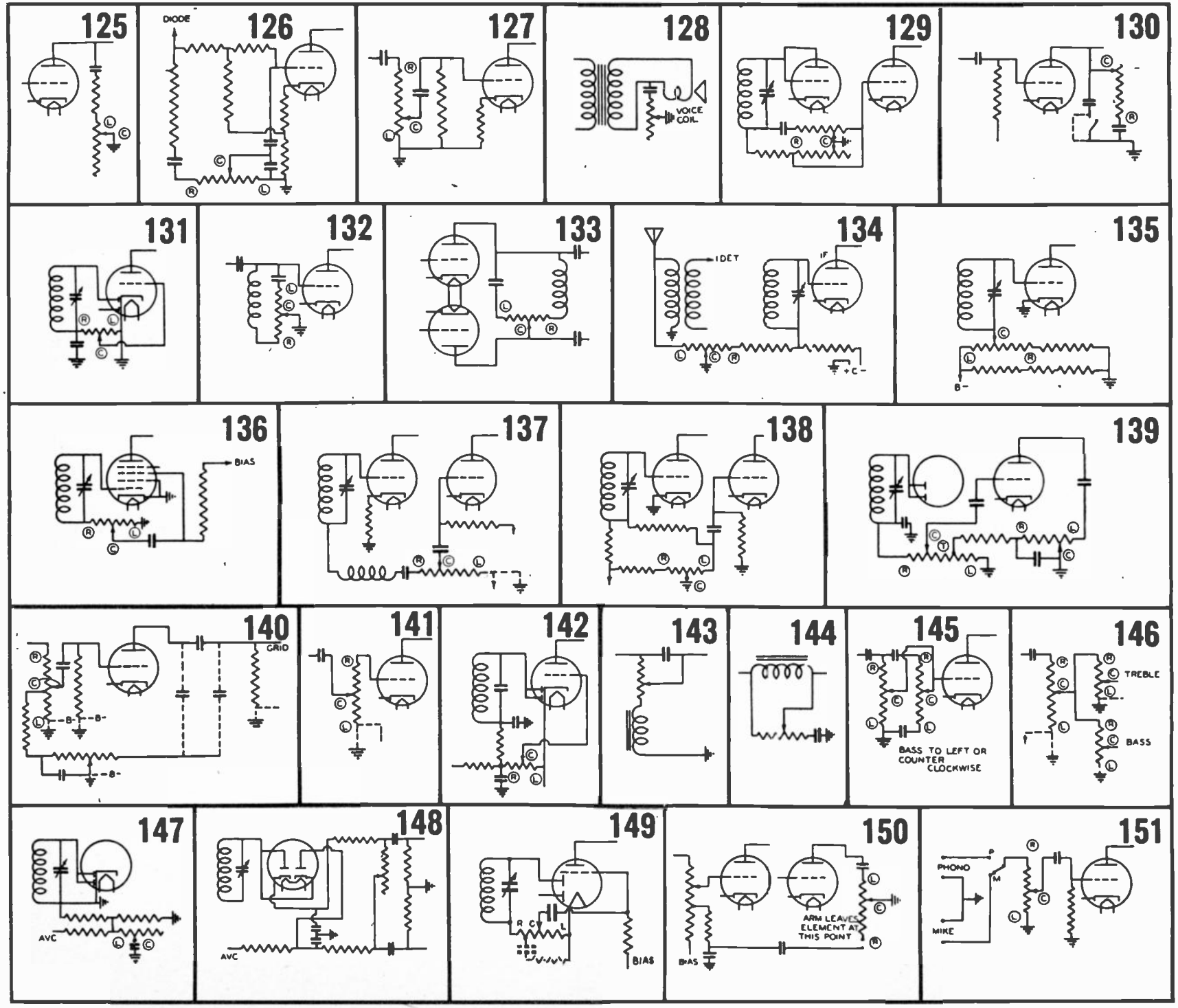
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GRID
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143
144
145
BASS TO LEFT OR COUNTER CLOCKWISE
146
TREBLE
BASS
147
AVC
148
AVC
149
BIAS
150
ARM LEAVES ELEMENT AT THIS POINT
BIAS
151
PHONO
MIKE

"B" NOTES

B1—Originally equipped with paper condensers. Electrolytics of equal or greater capacity are O.K. for replacement. Check voltage to determine proper condenser rating.

B2—Input condenser may be paper type. In such cases we suggest the replacement be made with a paper condenser or Mallory HS or TC high voltage units, the choice being determined by the voltage requirements.

B3—Physical characteristics are unknown. We suggest replacing with equivalent Mallory type of equal or higher capacity. Check voltage for proper rating.

B4—Filter condensers may be of paper; if so, replace with Mallory HS or TC types. Working voltage, capacity, and mounting will determine type.

B5—Use types 3S582 or 3S584 to replace combinations such as 16-8, 12-12, etc. Sections may be paralleled to give satisfactory replacement. Choice of condenser depends on voltage. Low voltage sections (TN111) may be connected in parallel if only one by-pass is required.

B6—It is not necessary that the cathode by-pass condensers be in the same container as the filter condenser. Mallory TC units are easily installed within the chassis, the wire leads offering firm support.

B7—Originally equipped with paper condensers. Replace with Mallory UB units of proper voltage and capacity.

B8—When a Mallory multi-section condenser is recommended to replace a condenser having fewer sections, connect sections in parallel to obtain equal or higher capacity.

B9—This condenser is enclosed in the original block and tunes the filter choke to the ripple frequency. Replace with Mallory TP unit or combination of units giving the same capacity as the original.

B10—This condenser is used only on the later type of this model.

B11—Requires a non-polarized electrolytic for replacement. Common negative type condensers may be used by taping the negative lead to prevent shorting and using the two positive leads as the terminals of the condenser. Select a dual condenser having equal capacities in the two sections. The resulting non-polarized capacity will be half the capacity of one section at a voltage rating equal to that of one section. Separate section types of condensers may be used by connecting the negative leads together and taping as above.

B12—This additional capacity used on 25 cycle models only.

B13—This power pack is used in many early Mohawk models. Color code of the filter condensers is: Green 2 mfd., Blue 2 mfd., Yellow 1 mfd. In addition there is a .5 mfd. from B positive to B negative. See Note B1.

B14—These condensers are used across the secondary of the vibrator transformer. Replace with Mallory VB or OT type condensers of the same capacity value.

B17—Refer to schematic No. 11 and connect UR182 as follows: Black and Brown to points "D" and "E," Red to point "A," Blue to point "B," Yellow to point "C," and Green to point "F."

B18—Refer to schematic No. 6 and connect UR182 as follows: Green, Brown, and Black to points "C" and "D," Red to point "A," Yellow and Blue to point "B."

B20—This condenser is used only on later models.

B21—Install beneath chassis and connect Red and Yellow leads together to positive, Black and Blue to negative. Leave old unit in place if desired, but be sure to remove leads from it.

B22—Refer to schematic No. 9 and connect 3S582 as follows: Red to point "A," Black and one Yellow to point "B," remaining Yellow to point "D," Blue to points "C" and "E."

B24—Connect as follows: Red to point "A," Yellow to point "B," Black to point "C," Blue to point "D."

B26—Refer to schematic No. 1 and connect as follows: Red to point "A," Yellow to point "C," Black and Blue to points "B" and "D."

B27—Later type used a 16 mfd. condenser in place of the 8 mfd. No. 27585; in which case use the RS216.

B28—There were two types of filter circuits used in this model; the older type used a dual 4 mfd. as first and second filter with an 8 mfd. in the output. The later type used the same combination but with the 8 mfd. as the input condenser.

B29—"Refer to schematic No. 1 and connect 3S582 and TN111 as follows." Red to point "A," Yellows together and to point "C," Black and Blue to chassis. Connect negative of TN111 to chassis, one positive to cathode of output tube, other positive to cathode of detector tube.

B31—Refer to schematic No. 11 and connect UR182 as follows: Yellow to point "A," Red and Blue to points "B" and "C," Green and Brown to points "D" and "E," Black to point "F" (chassis).

B32—Join the Yellow leads together and to B positive, Red lead to Blue lead from switch, Black to plate of 25Z5, Blue to chassis.

B33—Connect as follows: Red and Yellow to points "A" and "B," Black to point "C," Blue to point "D."

B38—On some chassis of the model 525 the condenser was in two cartons, the C525C (5 mfd.—25 mfd.) and the C525D (5 mfd.). We recommend the UR182 which replaces both of the units.

B39—Install Mallory condenser in the old can or beneath the chassis.

B40—Connect as follows: Red to rectifier filament, Yellow to junction of resistors in 6C6 plate circuit, Black and Blue to chassis.

B41—Connect 2S567 as follows: Red to point "C;" Yellow to junction of resistors in 6C6 plate supply; Black and Blue to chassis. If the 3S584 is recommended the two Yellow leads should be connected together to obtain a 16 mfd. section.

B42—Connect as follows: One Red to point "A," other Red to point "C," Black to points "B," and "D."

B45—The original block No. P80902 contained two 4 mfd. condensers and a .1 mfd. paper. Replace with a 2N516 and TP428 connected as follows: one Red of 2N516 to screen circuit, remaining Red to first audio cathode, Black to chassis. Connect TP428 from RF screen to ground.

B46—Substitute TP431 for TP428 and connect as in note B45.

B48—Mount FP424 under clamp and connect as follows: 15 @ 450 (■) to rectifier filament, 15 @ 450 (●) to screen of output tube, 10 @ 450 (▲) to screen of first detector and I.F. tubes, 20 @ 25 (—) to cathode of output tube. Solder wire from common terminal (can) to chassis.

B49—Refer to schematic No. 9 and connect 3S584 as follows: Red to point "A," Black and one Yellow to point "B," other Yellow to point "D," Blue to point "E." If the set has two pigtail resistors between points "C" and "E" it will be necessary to use three TC52 instead of the 3S584.

B51—Refer to schematic No. 29 and connect TCS52 and TC52 as follows: one positive lug of TCS52 to point "A," corresponding negative to point "B," remaining positive lug to point "B," corresponding negative to point "C." Connect TC52 positive to point "D," negative to point "E." In this receiver there may be a pigtail resistor between the field and point "E."

B54—This chassis is the same as the Majestic 300, 300A.

B55—Both positives to points "B" and "C," one negative to point "E," other negative to point "F."

B58—Refer to schematic No. 4 and connect RM265 as follows: Red and Blue to points "A" and "B," Black to point "C," Brown and Yellow to point "D," Green to screen circuit.

B60—Connect one section to rectifier side of choke, combine two sections and connect to speaker side of choke, the remaining section to voltage divider at output side of speaker field.

B61—Connect as follows: Yellow to point "A," Red to point "B," Green to cathode of output tube, Black to chassis.

B64—Refer to circuit 74 and connect as follows: Yellow to point "A," Red to point "B," Green and Black to chassis at point "D." Blue to point "C."

B65—If original is in three sections use three RS213.

B66—Red to point "A," Yellow to point "C," Black to points "B" and "D."

B69—When using an FP type condenser to replace a capacitor having fewer sections, connect sections in parallel to get the required capacities.

B70—This replacement condenser has three sections. One of the two high voltage sections should be left unwired.

B72—Refer to schematic No. 29 and connect 3S582 and TC52 as follows: Yellows to point "A," Blue and Red to point "B," Black to point "C." Positive of TC52 to point "D," negative to point "E." Point "B" is connected to DC side of switch.

B73—Refer to schematic No. 4 and connect RM262 as follows: Red and Blue to points "A" and "B," Brown to "C" and Black to "D."

B75—Red to point "A," Yellows to point "C," Black and Blue to points "B" and "D."

B78—Red to point "B," Yellow to point "C," Black and Blue to points "E" and "F."

B79—Red to point "A," one Yellow to point "C," other Yellow to plate return of first AF, Black and Blue to chassis.

B81—Refer to schematic 32 and connect as follows: Red to point "A," Yellow to point "C," Black and Blue to point "D."

B82—Red to point "B," Yellow to point "C," Black and Blue to points "E" and "F."

B83—Refer to schematic No. 3 and connect one section to point "A," connect two of the sections together and to point "B," connect the other section to point "C."

B85—Mount the Mallory condenser in original can.

B87—Red to point "A," one Yellow to point "B," other Yellow to point "C," Black and Blue to points "D," "E," and "F."

B88—Refer to schematic No. 27 and connect as follows: Red and Yellow leads to points "A," "B," and "C." Blue to points "D," and "E," Black to point "F."

B95—Refer to schematics Nos. 27 and 15 and connect the UR182 as follows: Red and Blue to "A," "B" and "C," Black and Green to chassis at "F," Brown to line at "D" and "E," Yellow to cathode of detector (or in some cases the first AF stage).

B96—We suggest the use of the UR182 for this installation.

B98—Refer to schematics Nos. 6 and 15 and connect as follows: Yellow leads to point "A," Red to point "B," Black and Blue to chassis. Connect TN111 negatives to chassis, one positive to cathode of detector tube, other positive to cathode of output tube.

B99—The chassis type number is the group prefixing the serial numbers. The first run of this chassis used schematic No. 27 with 16 mfd. from cathodes (in parallel) to line, 8 mfd. from cathodes to chassis and 4 mfd. from 6A8 plate supply to chassis, also a .25 paper across the choke. For the first run, connect UR193 as follows: Refer to schematic No. 27, connect Blue to "A" and "B," Red to "C," Brown to line at "D," "E," Black and Green to chassis, Yellow to 6A8 plate supply. In the second run the cathodes of the 25Z5 were separated thus changing the circuit to schematic No. 11 and the .25 mfd. condenser was removed from across the choke and a separate 4 mfd. tubular connected across the field. For this circuit refer to schematic No. 11 and connect UR193 as follows: Blue to "B," Red to "C," Brown to line at "E," Black and Green to chassis at "F," Yellow to 6A8 plate supply. Use an additional TC42 with positive to "A," negative to "D."

B101—Red to point "A," one Yellow to point "B," other Yellow to anode grid return of 6A7, Black to chassis.

B104—When AC-DC switch is in AC position the filter circuit is the same as schematic No. 8 with the exception that there is an additional choke connected at point "C." Connect UR182 as follows: Red to point "C," Black to point "F," Yellow to point "A," Blue to point "B," Green to the AC side of the AC-DC switch connected to the speaker field, and Brown to points "D" and "E."

B106—Refer to schematics Nos. 4 and 17 and connect RM265 as follows: Red and Blue to points "A" and "B," Black to "C," Brown and Yellow to "D," Green to filament center tap resistor.

B109—To replace RC501 refer to schematics Nos. 13 and 15, and connect 2N518 as follows: One Red to osc. plate supply, other Red to cathode of output tube, and Black to chassis. For RC502 refer to schematics Nos. 13 and 14, and connect 2N518 as follows: one Red to junction of 20M ohms and 500M ohms resistors in the first AF plate supply, remaining Red to first AF screen, and Black to chassis.

B110—If the filter and by-pass condensers are all in one block, refer to schematics Nos. 6 and 15, and use UR182 connected as follows: Connect Blue to point "A," Yellow to point "B," Black, Green and Brown together to points "C" and "D," remaining Red to detector cathode.

B111—Red to point "C," Yellow to anode grid return, Green to cathode, Black and Blue to chassis.

B112—Yellow to point "A," Red to point "B," Black to points "C" and "D."

B115—Refer to schematic No. 27 and connect as follows: Red, Blue and Yellow to points "A," "B" and "C," Brown and Green to points "D" and "E," Black to chassis at point "F."

B116—Refer to schematics Nos. 3 and 14 and connect TC92 positive to point "A," negative to point "D." Connect TC74 positive to point "B," negative to point "E." Connect 2N518 as follows: one Red to point "C," remaining Red to the 100-volt tap on the voltage divider, Black to point "F."

B117—This replacement may require the use of a strap or an "FP" mounting plate to mount the condenser on the chassis.

B118—Refer to schematic No. 11 and connect UR182 as follows: Yellow to point "A," Red and Blue together and to points "B" and "C." Green and Black together and to point "F," and Brown to point "E." This connection is not the same as the standard described in note 31. However, the wiring used in note 31 is applicable in some cases of noticeable hum.

B119—Refer to circuit 74 and connect as follows: one yellow to point "A," Red to point "B," Blue to point "C," remaining Yellow and Black to point "D."

B120—One Red of 2N509 to point "A," other Red to point "B," one Red of 2N516 to point "C," other Red to cathode of detector. Black of 2N509 to points "D" and "E," Black of 2N516 to chassis at point "F."

B121—If receiver should be disconnected from the power pack the voltage rises to 900 volts for 9P6 and correspondingly for the other similar power packs, therefore, we advise the use of TC92 units for replacement.

The by-pass sections of the original may be replaced with larger capacity units of electrolytic type, thereby giving better filtering action at the by-pass point.

B123—Refer to schematic No. 29 and connect as follows: one positive of TCS44 to point "A," corresponding negative to point "B," remaining positive to point "B," corresponding negative to point "C." Connect positive lead of TC52 to point "D," negative to point "E." In some cases there may be a pigtail resistor between the field and point "E."

B124—Blue of UR193 to original red. Red to original yellow, Yellow to original green, Brown, Black, and Green to original black.

B125—Condenser supplied on order. State part, make and model number of receiver.

B126—To replace P80956 refer to schematic 25 and connect RM262 and TC26 as follows: Red of RM262 to point "A," Black to point "C," Blue to point "B," and Brown to chassis. Connect TC26 negative to point "C," and positive to chassis.

B127—To replace P80937 refer to schematics Nos. 14 and 15 and connect 2N516 as follows: One Red to IF screen, the other Red to second detector cathode, and Black to chassis.

B128—Original is cardboard tube mounted by means of a radial strap. To replace, we suggest the use of an FP Type condenser mounted by means of adustable strap No. MS-1.

B129—Since these condensers originally had a screw-socket base, we recommend replacement with a carton beneath the chassis.

B130—May require the use of washer No. A-017.

B131—Red of 3N527 replaces one yellow of original, Yellow replaces other original yellow. Green replaces original red. One Red of 2N509 to original blue, other Red to original green. Both Blacks to chassis.

B132—Installation same as B131 above.

B133—Original unit was combination of .25 mfd. and .5 mfd. paper, and 8 mfd. electrolytic. Replace with combination of TP420, TP432 and TC22 respectively.

B134—Refer to schematics Nos. 8 and 15 and connect as follows: Red to point "A," one Yellow to point "B," other Yellow to point "C," Black and Blue to points "D," "E," and "F." Connect negative of TN111 to points "D," "E," and "F." One positive to cathode of detector tube, other positive to cathode of output tube.

B135—Refer to schematics Nos. 14 and 15 and connect as follows: one positive of TCS71 to oscillator plate supply, other positive to cathode of first audio tube,

negatives to chassis. Connect TP420 to the junction of 25M ohm and 250M ohm resistors in the second detector plate lead, and to the chassis.

B136—The original condenser had two .25 mfd. and one .5 mfd. paper sections, and one 20 mfd. electrolytic, To replace electrolytic section, use TC26, connecting positive to cathode of output tube, negative to chassis.

B139—Red of 4S715 to cathode of the 25Z5 which supplies plate power, Yellow to junction of filter choke and the 4000 ohm resistor, one Green to cathodes of the 43 output tubes, other Green to cathode of 6C5, Black and Blue to chassis. Connect one Red of 2N516 to cathode of 25Z5 supplying field power, other Red to RF screen, Black to chassis.

B140—Reds of 2N509 to original yellows, Black to chassis. Red of 3N527 to original green, Yellow to original blue. Green to original red, Black to chassis.

B141—Black and Blue of 3S579 to center tap of high voltage winding. Red to screen of first detector, Yellow to first AF plate supply, Green to cathode of output tubes. Positive of TC74 to output side of filter choke, negative to high voltage center tap.

B144—Connect 3S579 to output screen, Yellow to target of tuning eye, Green to cathode of audio driver, Black and Blue to chassis. Connect positive of TC36 to cathode of output tube, negative to chassis.

B156—These two 4 mfd. sections are contained in the same unit with several small capacity condensers of the paper type. For the replacement of the filter section use a non-polarized unit as in note B11. The 4 mfd. by-pass section may be replaced with TC32 installed at socket.

B157—Refer to schematic No. 50 and connect as follows: One TC44 positive to point "A" negative to point "C." Another TC44 positive to point "B," negative to point "D."

B158—These condensers are contained in a capacitor block with several small paper condensers. To replace these units we recommend for external replacement a 3S584 connected as follows: Red and one Yellow to points "A" and "B," other Yellow to screens, Black to point "C," Blue to point "D."

B160—The original block contained two 10 mfd. electrolytics and a .5 mfd. paper. Replace with 2N518 and TP431. Connect one Red of the 2N518 to the screen of output tubes, the remaining Red to the cathode of detector tube, Black to negative line. TP431 replaces the coupling condenser between the 37 plate and the interstage transformer.

B161—Use 4S718 and TC32 and connect as follows: Red of 4S718 to RF screen, Yellow to driver plate supply, one Green to first audio cathode, other Green to driver cathode, Black and Blue to chassis. Connect TC32 positive to chassis, negative to high voltage center tap.

B162—Use 3S579 and TC32 and connect as follows: Red to RF screen, Yellow to the junction to the two resistors in the first AF plate supply, Green to first AF cathode, Black and Blue to chassis. Connect TC32 negative to high voltage center tap, positive to chassis.

B164—Refer to circuits 2, 13, and 44, and connect as follows: two Yellows of 3S584 to point "A," Blue to chassis, Red to chassis, Black to bias supply. One Red of 2N516 to point "C," other Red to plate return of the 55 triode section, Black to chassis.

B165—Refer to schematics Nos. 15 and 19 and connect TCS71 as follows: one negative to transformer center tap, corresponding positive to chassis, remaining positive to first AF cathode, negative to chassis.

B166—This block contains the filter condensers and the output choke and condenser. When replacing by section be sure to leave ouput assembly intact.

B167—For replacement of this entire block, we recommend purchase of original block from manufacturer. However, in case of emergency, the block may be taken apart and replacement accomplished by using the 2N518 unit or exterior application may be made. Precaution should be taken to preserve the original block wiring, not affected by the replacement.

B168—When using the FP426 to replace original part 119-88, the wires which originally were attached to terminal (▲) should be connected to the can of the FP426. Terminal (▲) of the FP426 may be left unwired, or it may be connected in parallel with the unmarked terminal.

B169—This condenser is contained in a block with several paper condensers and this replacement is suggested to replace this section only and the rest of the block must be left in the receiver as connected.

B171—Refer to schematics Nos. 9 and 15 and connect as follows: one Yellow of 3S582 to point "B," other Yellow to point "A," Blue to point "C," Red to point "A," Black to point "B." Positive of TC52 to point "D," negative to output cathode. One positive of TCS52 to point "D," other positive to output cathode, negative to point "E." A second 3S582 may be used instead of the TC52 and TCS52, using the red and black leads to replace the positive and negative of the TC52, the Yellows to replace the positives of the TCS52, and the Blue to replace the negatives of the TCS52.

B172—One Yellow to rectifier cathode, other Yellow to RF screens, Blue to negative line, Red to output plate supply, Black to output cathode. Connect TN111 negative to negative line, positives to output cathode.

B173—For replacement of this entire block we advise purchase of a duplicate from the manufacturer. In case of emergency, the block may be taken apart and replacement accomplished by using the 2N518 unit. Wiring to parts of the block not affected by the replacement should be left intact.

B174—This assembly contains an 8 mfd. electrolytic, a .5 mfd. and a .25 mfd. paper condenser and the driver transformer. We advise the TC71 unit for external replacement of the 8 mfd. section.

B175—Ground lug with Black dot (negative) to chassis.

B176—Refer to schematics Nos. 13 and 15 and connect as follows: Red of 3S584 to output plate supply, one Yellow to anode grid, remaining Yellow to screen supply, Black and Blue to chassis. Positive of TC62 to detector cathode, negative to chassis.

B177—Refer to schematics Nos. 13 and 15 and connect 3S579 as follows: Red to first AF plate supply, Yellow to RF screen supply, Green to first AF cathode, Blue and Black to chassis.

B179—Refer to schematics Nos. 13, 14 and 19 and connect 2S567 and TC32 as follows: Red of 2S567 to screen circuit, Yellow to second det. plate supply, Black and Blue to chassis. Positive of TC32 to chassis, negative to power transformer HV. center tap.

B180—Refer to schematics Nos. 9 and 15 and connect 3S584 and 3S579 as follows: Red of 3S584 to point "A," Black and one Yellow to point "B," Blue to point "C," remaining Yellow to point "A." Red of 3S579 to point "D," Green and Black to cathode of output tube, Blue to point "E," Yellow to RF screen circuit.

B181—Refer to schematics Nos. 1 and 15 and connect as follows: positives of TCD55 to point "A," negative to chassis. One Red of 2N509 to point "C," remaining Red to cathode of output tube, Black to chassis.

B182—The UR182 replacement has higher capacity values than the original. However, the UR182 will not cause any change in the operation of the set.

B183—Refer to schematics 12, 13 and 19 and connect 2N516 and TC29 as follows: one Red of 2N516 to screen of AF output, remaining Red to RF screen, Black to chassis. Connect TC29 positive to chassis, negative to B minus.

Where note B183 is used in Sparton listings, refer to circuit 28 and connect RM265 as follows: Red to point "A" Blue to point "B," Green to point "C," Black and Brown to points "D" and "E," Yellow to point "F."

B184—This condenser is connected between points "B" and "D" in circuit No. 54.

B188—Refer to Circuits Nos. 1 and 19 and connect as follows: Yellow to point "A," Red to point "C," Black to B minus at points "B" and "D," Green to chassis.

B190—This replacement can best be made using three type TC condensers. Connect one TC45 positive to point "A," negative to point "B," another TC45 positive to point "B," negative to point "C." Connect a TC55 positive to point "D," negative to point "E."

B192—The by-pass section should be left unwired in this replacement.

B193—Refer to circuits Nos. 1 and 15 and connect as follows: Yellow to point "A," Red to point "C," Black to B minus, Green to cathode of output tube.

B194—This model originally used two 8 mfd. carton type condensers. If both units are defective, 2S567 affords an ideal replacement.

B195—The filter condenser for this receiver is contained in a block which is of the plug-in type. We advise replacing the defective sections with Mallory carton type units of the same voltage and capacity beneath the chassis.

B196—When two units are specified for a non-polarized replacement, connect the negative leads together and tape. Use the two positive leads for wiring into the circuit. Also see Note B11.

B197—This replacement requires an insulating tube. Use a mounting clamp to fasten the condenser on the chassis.

B198—Refer to schematic No. 25 and connect TCS71 as follows: one positive to point "A," corresponding negative to point "C," other positive to point "B," corresponding negative to point "D."

B199—One positive to point "A," corresponding negative to point "C," other positive to point "B," corresponding negative to point "D."

B200—Refer to schematics Nos. 30 and 14 and connect as follows: Yellows of 3S584 to points "A" and "B," Blue to points "D" and "E," Red to point "C," Black to chassis at point "F." Connect TC71 positive to the IF plate supply, negative to chassis.

B201—Refer to schematics Nos. 3 and 13 and connect 3S584 and TC71 as follows: Red to point "A," one Yellow to point "B," remaining Yellow to point "C," Black and Blue to chassis. Connect TC71 positive to first AF plate supply, negative to chassis.

B202—Refer to schematic No. 25 and connect TCS71 and TC26 as follows: one positive of TCS71 to point "A," other positive to point "B," one negative to point "C," and other negative to point "D." Connect TC26 positive to point "D," and negative to point "C."

B203—Refer to schematic No. 57 and connect as follows: Red to point "B," one Yellow to point "D," remaining Yellow to point "G," Black and Blue to chassis at point "H."

B204—Refer to schematic No. 57 and connect as follows: positive of TC71 to point "A," one positive of TCS71 to point "C," remaining positive to points "E" and "F," all negatives to chassis at point "H."

B205—Refer to schematic No. 56 and connect 3S584 as follows: two Yellow leads to point "A," Blue lead to point "C," Red to point "B," Black to point "D" (chassis). This unit may be installed in the original case.

B206—Refer to schematic No. 30 and connect 3S584 as follows: one Yellow to point "A," remaining Yellow to point "B," Blue to points "D" and "E," Red to point "C," Black to chassis at point "F."

B208—Connect Red to center tap of output transformer, one Yellow to the driver plate supply, remaining Yellow to IF plate supply, Black and Blue to chassis. Connect TC26 positive to driver cathode, negative to chassis.

B209—Connect 2N516, one Red to "B" plus 135V., other Red to RF screen, and Black to chassis. Some models used a non-polarized filter condenser. 2N516 is satisfactory for this replacement if the proper battery polarity is observed. Be sure to check this point, as a reversal of polarity may result in serious damage to the receiver.

B210—Refer to schematics Nos. 8 and 15 and connect UR182 and TC22 as follows: connect Yellow of UR182 to point "A," Blue to point "B," Red to point "C," Black, Brown and Green together and to points "D," "E" and "F." Connect TC22 positive to output tube cathode, negative to point "F."

B211—This replacement requires the use of an insulating tube.

B212—This condenser is connected between points "C" and "B" in circuit 25.

B213—Refer to schematic No. 25 and connect RM262 and TC26 as follows: Red of RM262 to point "A," Blue to point "B," Black to point "C," and Brown to point "D." Connect TC26 positive to point "D," and negative to point "C."

B214—Refer to schematics Nos. 11 and 15 and connect UR182 and TC22 as follows: connect UR182, Yellow to point "A," Blue and Red together and to points "B" and "C," Green and Brown together and to points "D" and "F," and Black to point "F." Connect TC22 positive to detector cathode and negative to point "F."

B217—This replacement must have the two high capacity sections connected in parallel to obtain the required capacity.

B218—Refer to schematic No. 11 and connect 3S582 as follows: Red to point "A," Yellows to point "B," Black and Blue to point "D." To replace second condenser connect 2N516, one Red to point "C," other Red to osc. anode grid supply, Black to point "F."

B220—This replacement requires an insulating tube. The by-pass section should be left unwired. The two 50 mfd. sections should be wired in parallel.

B221—Refer to schematics 27 and 15 and connect UR182 as follows: Red and Blue leads together and to points "A," "B," "C." Brown lead to points "D," "E." Black and Green leads together and to point "F" (chassis) and Yellow lead to detector cathode.

B222—The two 40 mfd. sections should be connected in parallel to give the required capacity.

B223—This replacement requires the use of adjustable strap No. MS-1.

B224—This replacement requires an insulating tube and a clamp to mount the condenser on the chassis. The two high voltage sections should be wired in parallel to give the required capacity.

B226—The use of two UR182 condensers is recommended for this replacement. Refer to schematic 64 and connect as follows: both Blue leads and one Red lead to point "A"; remaining Red lead to point "B"; both Yellow leads to point "C"; both Brown leads and both Green leads to point "D"; and both Black leads to point "E." The following color code replacement is applicable to the Detrola Model 1200. Both Yellow leads together replace the original Yellow lead. Both Green leads and both Brown leads together replace the original Black lead. Both Blue leads together replace the original Red lead. The two Red leads replace the two original lugs marked +8. Both Black leads together replace the original lug marked — (neg.). The Mallory terminal connector A-016 is helpful for ease of installation.

B247—The filter condensers are in a large plug-in type block with connections as follows (starting with the large pin opposite the grounding pin and proceeding in a clockwise direction): Pin No. 1-negative 16 mfd. second filter and negative 8 mfd. power tube bias by-pass; Pin No. 2-positive 4 mfd. 350V 1AF plate filter; Pin No. 4-positive 8 mfd. 100V first detector cathode by-pass; Pin No. 5-common negative to all pins except Nos. 2 and 8; Pin No. 6-positive 4 mfd. 100V 1AF cathode by-pass; Pin No. 7-positive 4 mfd. 100V driver tube cathode by-pass; and Pin No. 8-positive 16 mfd. second filter. In 25 cycle models Pin No. 8 is positive 20 mfd. In an emergency individual sections may be replaced with Mallory tubular type units of proper capacity and voltage ratings mounted beneath the chassis. However for complete replacement we recommend the purchase of an entire block from the set manufacturer.

B256—Red to point "A," Yellow to point "B," one Green to cathode of detector, remaining Green to cathode of output tube, Black and Blue to chassis. TC42 positive to output tube screen, negative to chassis.

B259—Refer to schematics 4 and 13 and connect UR182 as follows: Blue and Red leads to points "A" and "B"; Brown lead to point "C"; Black and Green leads to point "D"; and Yellow to detector cathode.

B264—Refer to schematic No. 11 and connect UR193 as follows: Yellow to point "A"; Red and Blue to points "B" and "C"; Green and Brown to points "D" and "E"; Black to point "F."

B265—Refer to schematics 11 and 13 and connect UR193 and TC40 as follows: Red and Blue of UR193 to points "B" and "C"; Brown to point "E"; Black and Green to point "F"; Yellow to oscillator anode return. Connect TC40 positive to point "A"; negative to point "D."

B267—Original is an FP type can. Connect replacement as follows: Yellows replace terminal marked (■), Red replaces terminal marked (▲), Black replaces uncoded terminal, Blue replaces can negative.

B268—Refer to schematics 24 and 15 and connect UR182 as follows: Blue to point "A"; Red to point "B"; Brown, Black and Green to points "C" and "D"; Yellow to cathode of audio tube.

3N527 may be used as follows: Red to point "A," Yellow to point "B," Black to points "C" and "D," Green to cathode of audio tube.

B269—Refer to schematics 1 and 13 and connect UR182 as follows: Blue to point "A"; Red to point "C"; Brown, Black and Green to points "B" and "D"; Yellow to cathode of audio tube.

3N527 may be used as follows: Red to point "A," Yellow to point "C," Green to cathode of audio tube, Black to points "B" and "D."

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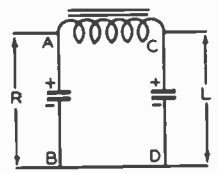

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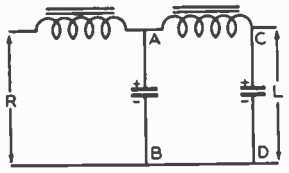

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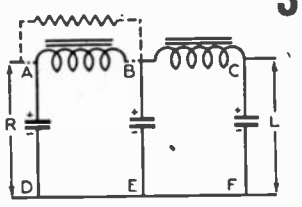

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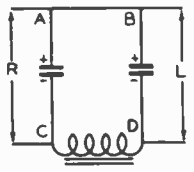

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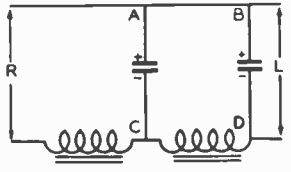

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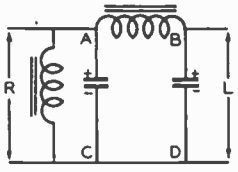

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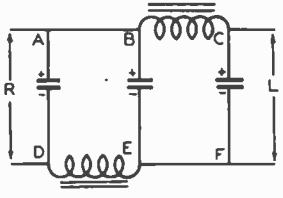

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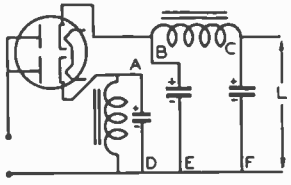

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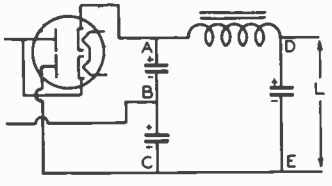

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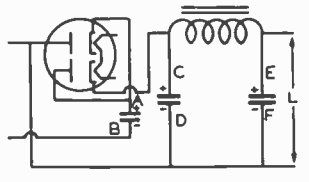

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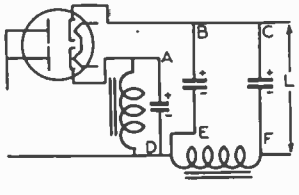

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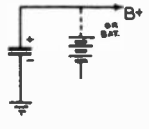

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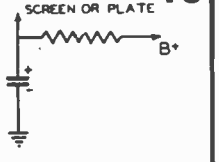

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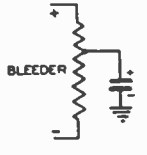

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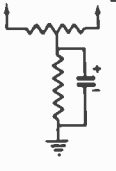

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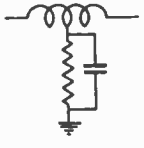

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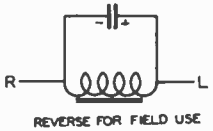

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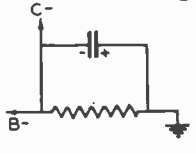

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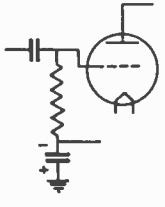

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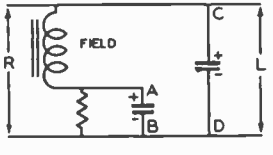

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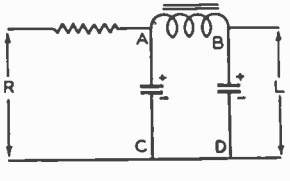

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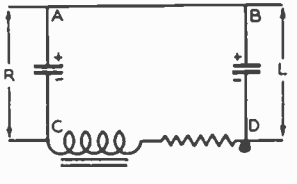

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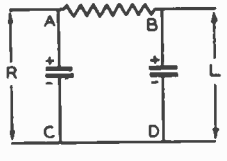

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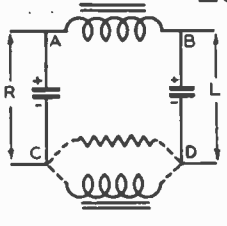

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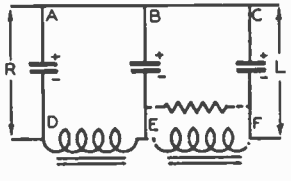

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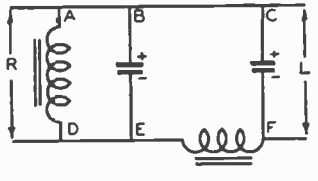

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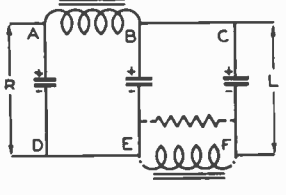

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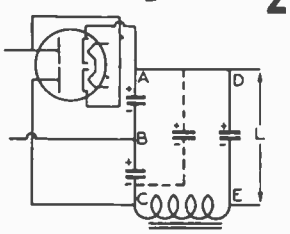

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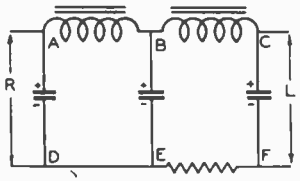

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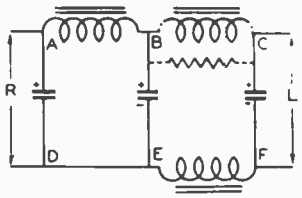

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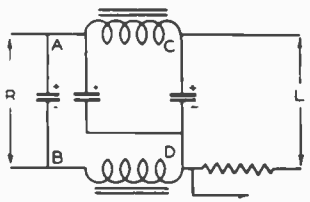

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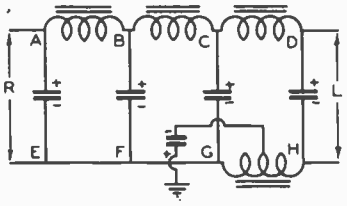

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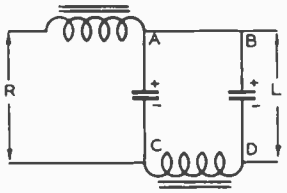

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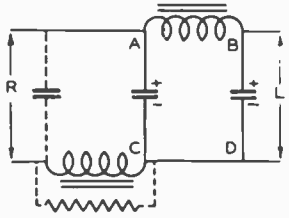

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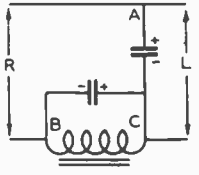

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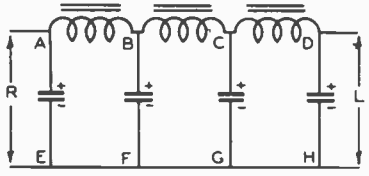

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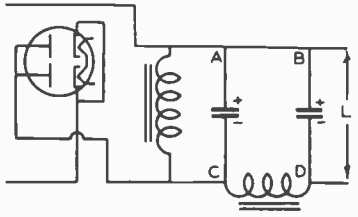

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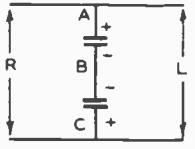

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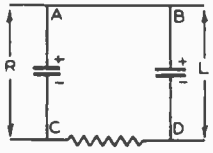

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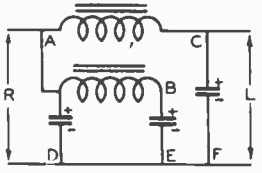

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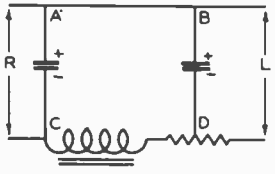

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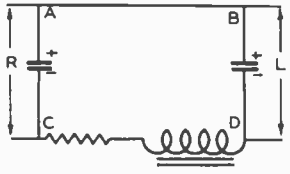

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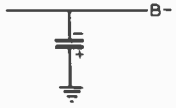

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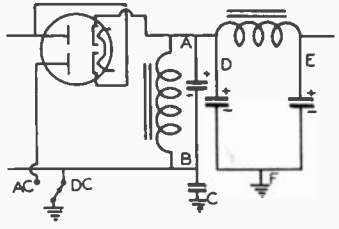

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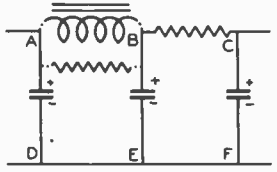

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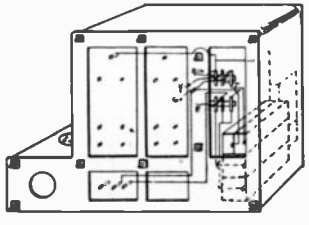

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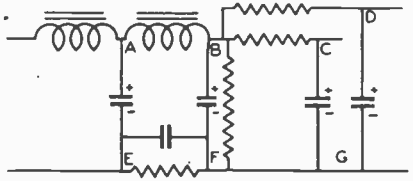

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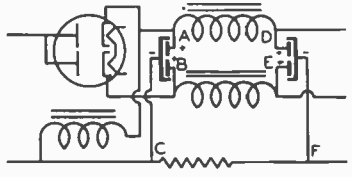

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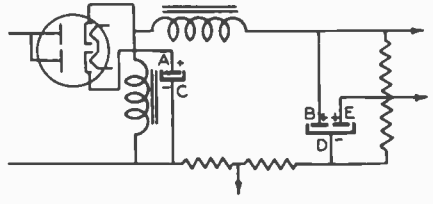

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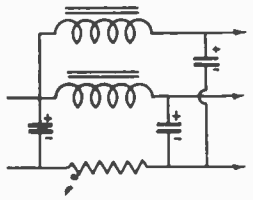

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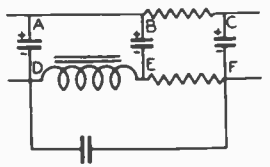

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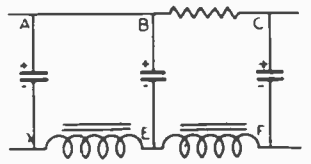

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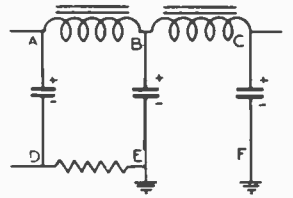

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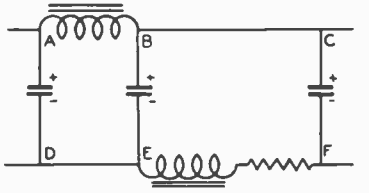

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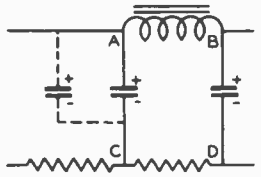

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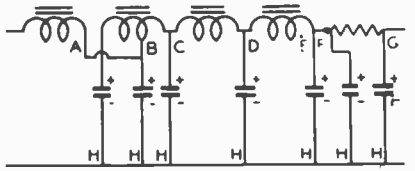

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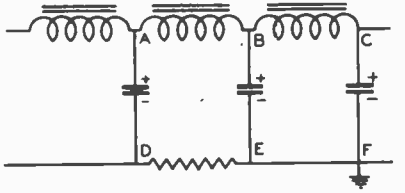

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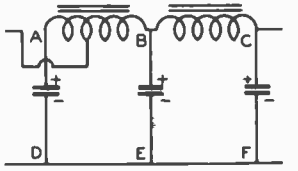

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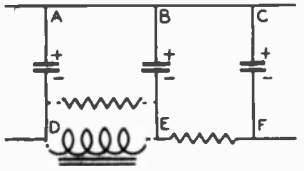

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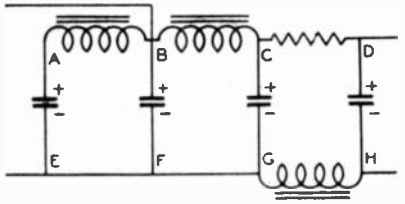

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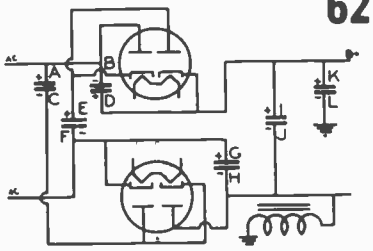

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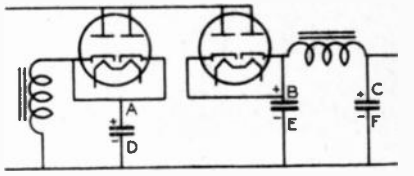

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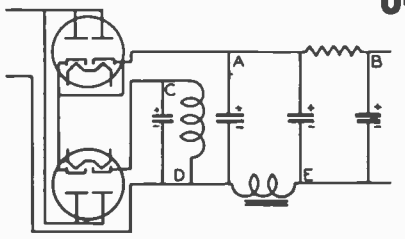

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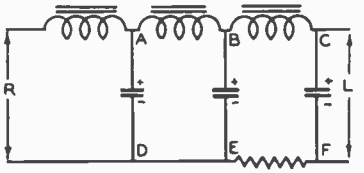

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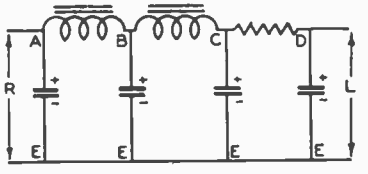

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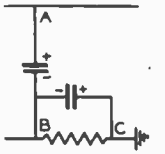

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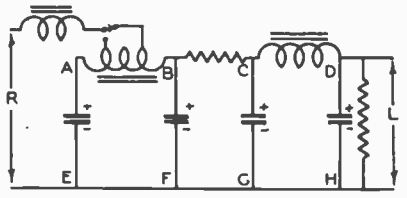

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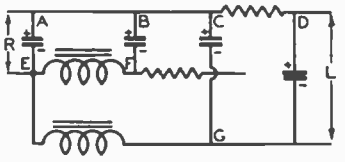

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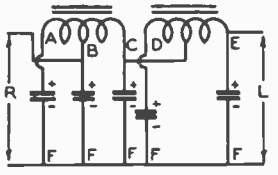

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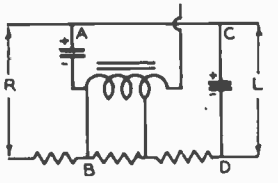
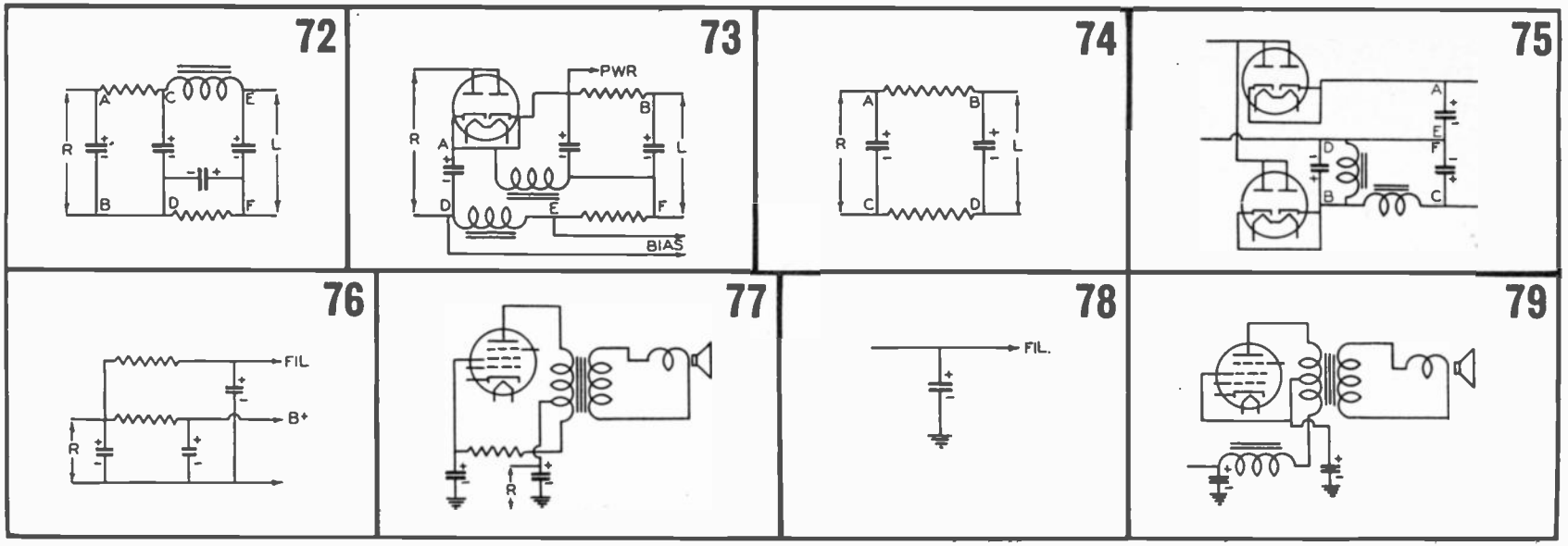




"C" NOTES

C1—To use the Mallory type 222 vibrator as a replacement in Atwater Kent models 424, 534, and 816, connect the leads as follows:

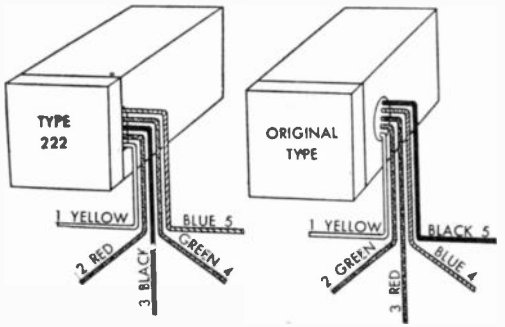
Blue replaces original blue lead
Green replaces original yellow lead
Black replaces original red lead
Red replaces original green lead
Yellow replaces original black lead

Model 816 employs two .05 mfd. buffer capacitors external to the vibrator. These units should be changed to .04 mfd. (Mallory OW338) for best operating condition of the type 222 in this application.

C2—For installation of Mallory type 222 vibrator in Canadian Radio Corp. models 513C, 513DOR; Crosley Corp. models 5A1, 98, 99, 102, 103; Deforest (Canada) models 510, 510A, 513A, 513B, 513C, 513D; Fairbanks Morse models 33A6; General Motors (Canada) models 134, 134B, 135; and Rogers (Canada) 918, the following connections should be used.

Yellow replaces original yellow lead
Red replaces original green lead
Black replaces original red lead
Green replaces original blue lead
Blue replaces original black lead

The external buffer condensers in the above receivers should be changed in accordance with the capacitor value listed for the individual receivers in the accompanying chart.

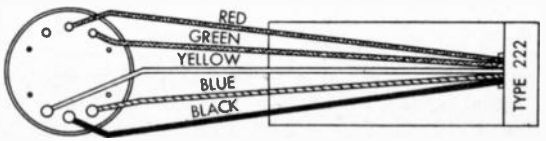


Canadian Radio Corp. 513C, 513DOR	Change buffer to .007
Crosley Corp. 5A1	Change buffer to .005
Crosley Corp. 98	Change buffer to .005
Crosley Corp. 99	Change buffer to .005
Crosley Corp. 102	Change buffer to .005
Crosley Corp. 103	Change buffer to .015
Deforest (Canada) 510	Change buffer to .007
Deforest (Canada) 510A	Change buffer to .007
Deforest (Canada) 513A	Change buffer to .007
Deforest (Canada) 513B	Change buffer to .007
Deforest (Canada) 513C	Change buffer to .007
Deforest (Canada) 513D	Change buffer to .007
General Motors (Canada) 134	Change buffer to .007
General Motors (Canada) 134B	Change buffer to .007
General Motors (Canada) 135	Change buffer to .007
Rogers (Canada) 918	Change buffer to .007

C3—When unusual vibrator troubles are experienced a thorough check should be made of all of the power pack parts and the circuit. It is especially important that the secondary buffer condenser, connected across the secondary of the transformer be in good operating condition and within plus or minus 10% of the specified capacity. **Be Sure to Check Buffer Condenser.** In some instances this condenser may be two condensers with the common lead grounded. In certain sets resistors have been used in series with these condensers. If the replacement of a buffer condenser is necessary use the Mallory Oil Filled, high voltage condenser, Type "OT" or "VB" as required. NEVER SUBSTITUTE A DIFFERENT VALUE—USE ONLY THE SPECIFIED CAPACITY. The wrong buffer capacity may cause serious damage to the vibrator in a very short time. See Condenser listing for specified capacity.

C4—To use the Mallory type 222 vibrator as a replacement for General Electric C61, RCA M123, and Victor (Canada) M123, the following procedure should be observed.

A. Remove plug base and vibrator assembly from can by unsoldering the two anchor points.
B. Remove leads of original vibrator from plug base.
C. Connect leads of the type 222 unit into the plug base as shown below.
D. Insert plug base and vibrator assembly in can, and spot solder base to can at two or more points.

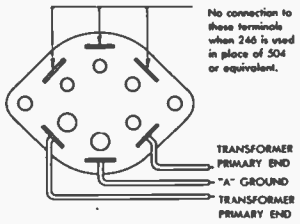


INSIDE VIEW OF PLUG BASE

C5—In using the recommended vibrator for this application, the present buffer capacity of .008 mfd. must be changed to .02 for maximum vibrator life.

C6—These sets use an interrupter type (tube type) vibrator; however the size and method of connection are unknown. **For an emergency selection of a replacement vibrator** refer to the Vibrator Connection Charts, pages 478 and 479. Select an interrupter type vibrator which is approximately the same size and has identically the same connection arrangement as the original. For plug-in vibrators the pin-base must have the same arrangement and connections. For lead type vibrator the reed lead is red and the interrupter contact leads (two) will be yellow. Any Mallory Distributor will gladly assist in making this selection. **If an authentic replacement is desired, have your distributor send the original vibrator, together with the name and model of the receiver to the Mallory Factory. The proper Mallory replacement vibrator will be promptly supplied. See Note C3.**

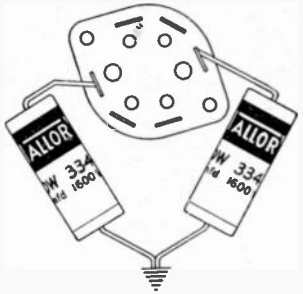
C7—When the Mallory 246 vibrator is used in this application, any leads connected at vibrator socket points other than shown in the sketch below must be removed and taped.



C8—These sets use a synchronous (self-rectifying) type vibrator; however, the size and method of connection are unknown. **For the emergency selection of a replacement vibrator refer to the Vibrator Connection Charts, pages** 478 and 479. Select a synchronous type vibrator which is approximately the same size and has identically the same connection arrangement as the original. If the original vibrator has condensers connected from the rectifier springs to the reed BE SURE the selected replacement vibrator also has condensers. For plug-in type vibrators the pin-base must have the same arrangement and connections. For lead type vibrators refer to the Vibrator Connection Charts, pages 478, 479, for the color of leads and connections. Any Mallory distributor will gladly assist in making this selection. **If an authentic replacement is desired, have the distributor send the original vibrator, together with the name and model of the receiver, to the Mallory Factory. The proper Mallory Replacement Vibrator will be promptly supplied.** See Note C3.

C9—See Note C6. Two types of power packs are used: one with 25Z5 and the other an 84. Suggest Type F294, F297. See Note C3.

C10—When using the type 286S vibrator in this application. two .01 condensers (Mallory OW334) must be connected as shown in the sketch below.



C11—Early type with vibrator mounted on power transformer cannot be replaced, late or plug-in type uses an F294.

C12—The **first series** of this receiver used a carbon point vibrator for which there is **NO** replacement. Obtain a new transformer (latest type for this set) from the manufacturer. (Wells-Gardner Co., Chicago, Ill.) After the new transformer has been installed use the Mallory Replacement Vibrator Type 292. A small amount of "hash," which cannot be eliminated, will be experienced with this receiver. See Note C3.

C13—This Mallory Replacement Vibrator used in early models. See Note C3.

C14—This Mallory Replacement Vibrator used in late models. See Note C3.

C15—Use Mallory Cup Adapter with Mallory Replacement Vibrator Type 271.

C16—12 Volt Receiver. See Note C3.

C17—To use the Mallory 246 Vibrator as a replacement in the Philco Model 624, the following wiring changes must be made at the vibrator socket:

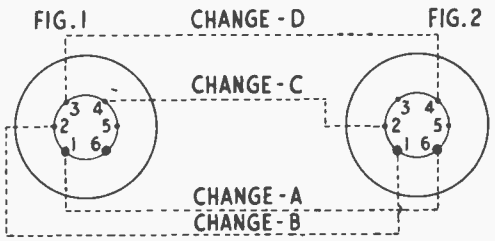
A—Leads originally connected to points 1 and 6 (Fig. 1) connect to point 6 (Fig. 2)

B—Leads originally connected to point 4 (Fig. 1) connect to point 1 (Fig. 2)

C—Leads originally connected to point 5 (Fig. 1) connect to point 4 (Fig. 2)

D—Leads originally connected to point 2 (Fig. 1) connect to point 5 (Fig. 2)

E—Leads originally connected to point 3 (Fig. 1) connect to point 2 (Fig. 2)



C18—Use Mallory Replacement Vibrator Type 245 for early 1936 models. See Note C3.

C19—Use Mallory Replacement Vibrator Type 245A for late 1936 models. See Note C3.

C20—Use Mallory Replacement Vibrator Type 298 for six prong socket and Type 294 for four prong socket. See Note C3.

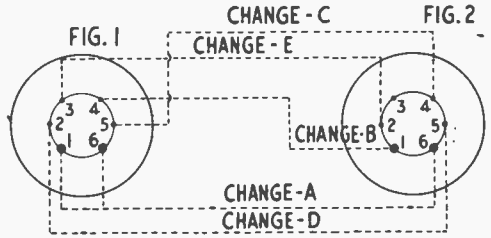
C22—To use the Mallory 246A vibrator as a replacement in the individual receivers in the table below the following changes must be made:

*A—Leads originally connected to point 1 (Fig. 1) connect to point 6 (Fig. 2)

B—Leads originally connected to point 2 (Fig. 1) connect to point 1 (Fig. 2)

C—Leads originally connected to point 4 (Fig. 1) connect to point 2 (Fig. 2)

D—Leads originally connected to point 3 (Fig. 1) connect to point 4 (Fig. 2)

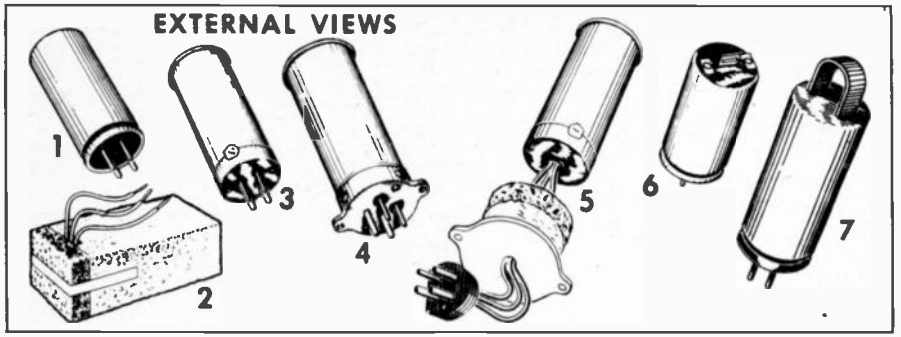


*NOTE!—Any leads originally connected to point 6 other than ground connections must be removed and taped.

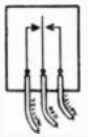
Canadian G.E.—H61VB, H66VB, H67VB.
RCA—8QB, 8QBK, RS79A, RS79B, 84BT6, 85BT6, 94BT6, 94BT61, 96BK6, 96BT6, RC336, MI-8122 (PWR-PK)
Victor (Canada)—95BK6, 95BT6, 97BK6.

C23—Some production on this model used a plug-in type vibrator instead of the lead type. Select the proper Mallory Replacement Vibrator as outlined in C6. See Note C3.

C24—Change the buffer capacity to .015 mfd. for use with the recommended replacement vibrator.



BASE DIAGRAMS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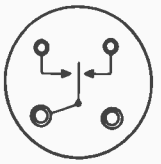
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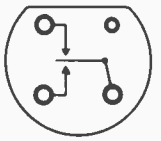
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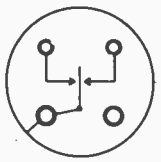
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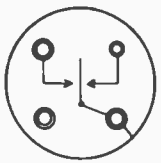
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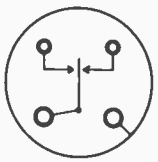
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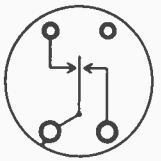
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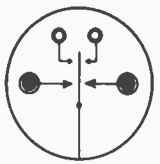
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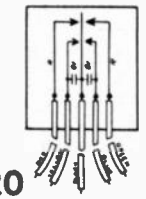
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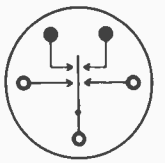
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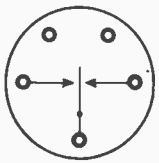
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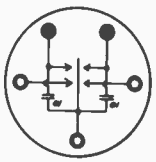
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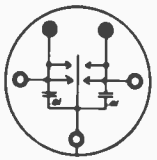
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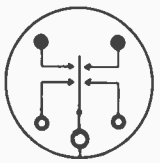
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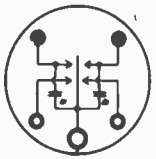
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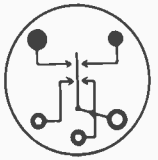
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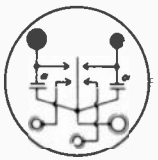
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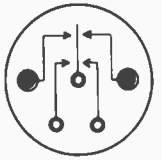
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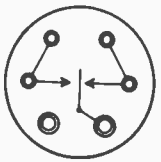
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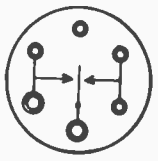
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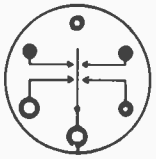
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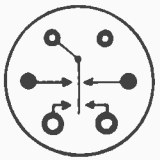
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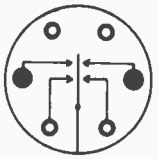
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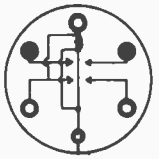
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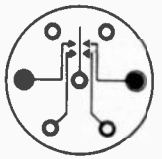
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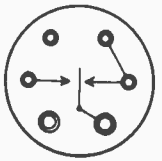
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Specifications Mallory Replacement Vibrators

Type No.	Volt	Type	Base Dia.	Can Type	Size	Type No.	Volt	Type	Base Dia.	Can Type	Size	Type No.	Volt	Type	Base Dia.	Can Type	Size
222	6	Syn.	20	2	4⅞" x 1⅞" x 1 3/16"	273C	6	Syn.	29	1	2" x 4½"	743	6	Syn.	38	1	1¼" x 3⅛"
245	6	Syn.	21	1	1½" x 3¼"	273D	6	Syn.	31	1	2" x 4½"	†744	6	Int.	22	2	1¼" x 3⅛"
245A	6	Syn.	21	1	1 5/16" x 3½"	†286S	6	Syn.	44	1	2" x 4½"	748	6	Syn.	44	1	1½" x 2⅞"
245C	6	Syn.	28	1	1½" x 3¼"	†G286S	12	Syn.	44	1	2" x 4½"	*G749C	12	Syn.	21	1	1½" x 3¼"
W245	4	Syn.	21	1	1½" x 3¼"	†289Y	6	Syn.	49	1	1¾" x 4¼"	*825C	6	Int.	8	1	1½" x 3¼"
W245A	4	Syn.	21	1	1 5/16" x 3½"	292	6	Int.	3	2	1½" x 1⅜" x 2 7/16"	*826C	6	Int.	8	1	1½" x 3¼"
246	6	Syn.	38	1	1½" x 3¼"	294	6	Int.	8	1	1½" x 3¼"	*F826C	32	Int.	8	1	1½" x 3¼"
246A	6	Syn.	38	1	1 5/16" x 3½""	F294	32	Int.	10	1	1½" x 3¼"	*G826C	12	Int.	8	1	1½" x 3¼"
W246	4	Syn.	38	1	1½" x 3¼"	†F297	32	Int.	33	1	1½" x 3¼"	839	6	Int.	8	1	1½" x 3¼"
247	6	Syn.	46	1	1½" x 3¼"	298	6	Int.	51	1	1½" x 2⅞"	852	6	Int.	14	3	1⅝" x 3⅝"
F247	32	Syn.	46	1	1½" x 3¼"	500P	6	Int.	10	3	2⅜" x 4¾"	853	6	Int.	10	3	1⅝" x 3⅝"
248	6	Syn.	44	1	1½" x 3¼"	F502P	32	Int.	9	5	1⅝" x 3⅝"	854	6	Int.	11	1	1½" x 3¼"
249	6	Syn.	49	1	1½" x 3¼"	505P	6	Int.	8	1	1 5/16" x 3½"	859	6	Int.	8	1	1½" x 2⅞"
†253	6	Int.	12	1	2" x 4½"	506P	6	Int.	36	1	1 5/16" x 3½"	860	6	Int.	14	7	1½" x 3¼"
†253T	6	Int.	13	4	2" x 4⅝"	507P	6	Int.	10	3	1⅝" x 4¾"	870	6	Int.	14	1	1½" x 3"
†264	6	Syn.	38	1	1½" x 2⅞"	514	6	Syn.	30	6	1 5/16" x 3½"	901M	6	Int.	8	1	1½" x 3¼"
†270B	6	Syn.	23	1	2" x 4½"	716	6	Syn.	30	7	1 5/16" x 3½"	952W	6	Syn.	16	1	1⅜" x 2⅞"
271	6	Syn.	24	1	2" x 4½"	*725C	6	Syn.	32	1	1½" x 3¼"	953W	6	Syn.	16	1	1½" x 3 9/16"
ADAPTER	..	....	..	.	.....	*G725C	12	Syn.	32	1	1½" x 4¼"	954	6	Syn.	39	1	1½" x 3 9/16"
271HD	6	Syn.	24	1	2" x 4½"	742	6	Syn.	32	1	1½" x 2⅞"	1100	6	Int.	8	1	1 5/16" x 2⅜"

*Hermetically Sealed Construction Int.—Interrupter Syn.—Synchronous †A substitution will be made available after present inventory is depleted.

Recommended Substitutions for Discontinued Vibrators

Discontinued Type	Recommended Replacement	Discontinued Type	Recommended Replacement	Discontinued Type	Recommended Replacement	Discontinued Type	Recommended Replacement
221	292	G253	G826C	508P	859	868	870
223	222 (See Note C2)*	253Y	294	509P	859	869	859
224	222 (See Note C4)*	277S	286S (See Note C10)*	510P	859	902M	859
226	222 (See Note C1)*	P285Y	246 (See Note C17)*	722A	246A (See Note C22)*	903M	859
245SW	245	294SW	854	728A	246A (See Note C22)*	951P	246
G245	G749C	501P	853	850	859		
G249	G725C	503	292	G850	G826C		
F251	F294	504	246 (See Note C7)*	866	859		

*The notes listed above are given on pages 476 and 477.

HENRY -

TRANSITONE TH4

VOL CONT & SW.

See Philco

MR 48 CONT

M26 SW.