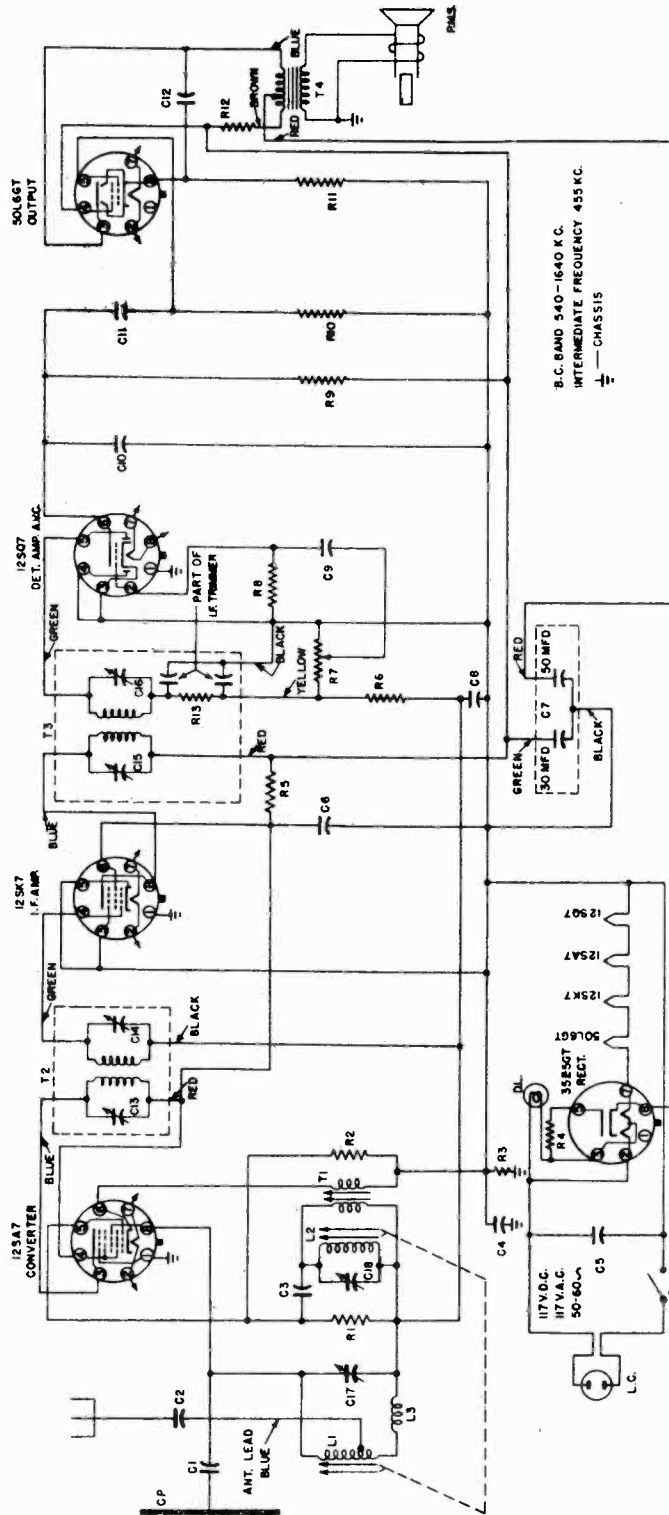


LEAR, INC.

JULY 1, 1946

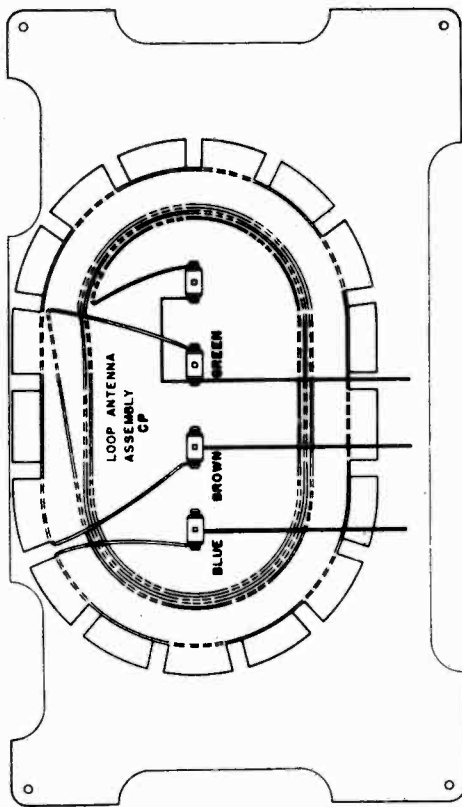


DWG. SYM.	PART NO.	DESCRIPTION	DWG. SYM.	PART NO.	DESCRIPTION
R1	55486	15 meg. $\frac{1}{2}$ w. carbon resistor	CP	52570	Antenna Assy. LOOP
R2	55479	27,000 ohm $\frac{1}{2}$ w. carbon resistor	T1	54282	Oscillator Transformer Assy.
R3	55485	220,000 ohm $\frac{1}{2}$ w. carbon resistor	T2	53350	#1 I.F. Transformer Assy.
R4	55460	15 ohm $\frac{1}{2}$ w. carbon resistor	T3	53361	#2 I.F. Transformer Assy.
R5	55475	4,700 ohm $\frac{1}{2}$ w. carbon resistor	T4	52831	Output Transformer
R6	55491	2.2 meg. $\frac{1}{2}$ w. carbon resistor	C1	56053	22 mmfd. Mica Capacitor
R7, S1	56340	500,000 ohm vol. control & line sw.	C2	56053	47 mmfd. Mica Capacitor
R8	55487	2.2 meg. $\frac{1}{2}$ w. carbon resistor	C3	56055	1 mfd. 400 v. Paper Capacitor
R9	55487	470,000 ohm $\frac{1}{2}$ w. carbon resistor	C4	56631	05 mfd. 600 v. Paper Capacitor
R10	55487	470,000 ohm $\frac{1}{2}$ w. carbon resistor	C5	56631	1 mfd. 400 v. Paper Capacitor
R11	55486	150 ohm $\frac{1}{2}$ w. carbon resistor	C6	56631	50 - 30 mfd. 150 v. Electrolytic Capacitor
R12	55674	1,200 ohm $\frac{1}{2}$ w. carbon resistor	C7	52326	02 mfd. 200 v. Paper Capacitor
R13	55481	47,000 ohm $\frac{1}{2}$ w. carbon resistor	C8	56600	02 mfd. 200 v. Paper Capacitor
L1, L2	54284	Slug tuner & pullly Assy.	C9	56659	220 mmfd. Mica Capacitor
C17, C18	53385	Antenna loading coil	C10	56659	004 mfd. 200 v. Paper Capacitor
L3	53091	Line cord	C11	56583	05 mfd. 400v. Paper Capacitor
L.C.	70635	Dial light, type 47	C12	56528	#1 I.F. Trimmers (Part of Assy.)
P.M.S.	53450	5" Permanent magnet speaker	C15, C16		#2 I.F. Trimmers (Part of Assy.)

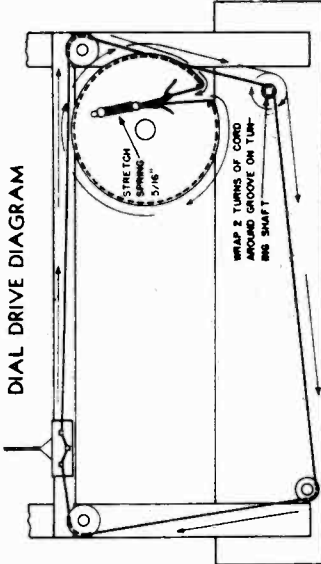
MODELS 565, 565BL, 566,  
567, 568

LEAR, INC.

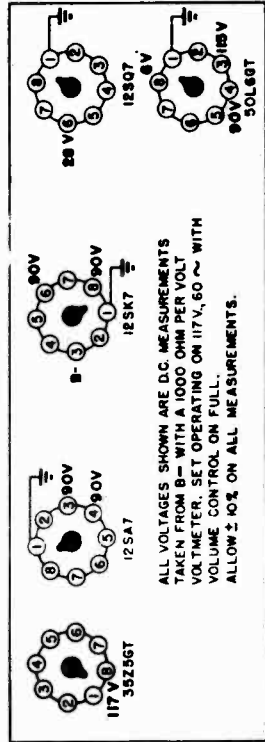
LOOP WIRING DIAGRAM



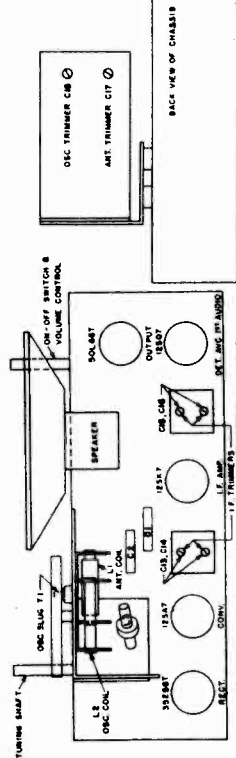
DIAL DRIVE DIAGRAM



FRONT VIEW



CHASSIS DIAGRAMS



TUNING SHAFT

BOTTOM VIEW OF CHASSIS

VOLTAGE CHART

Line voltage: 117 volts, 60 cycles (AC) Position of volume control: On full (with no signal)

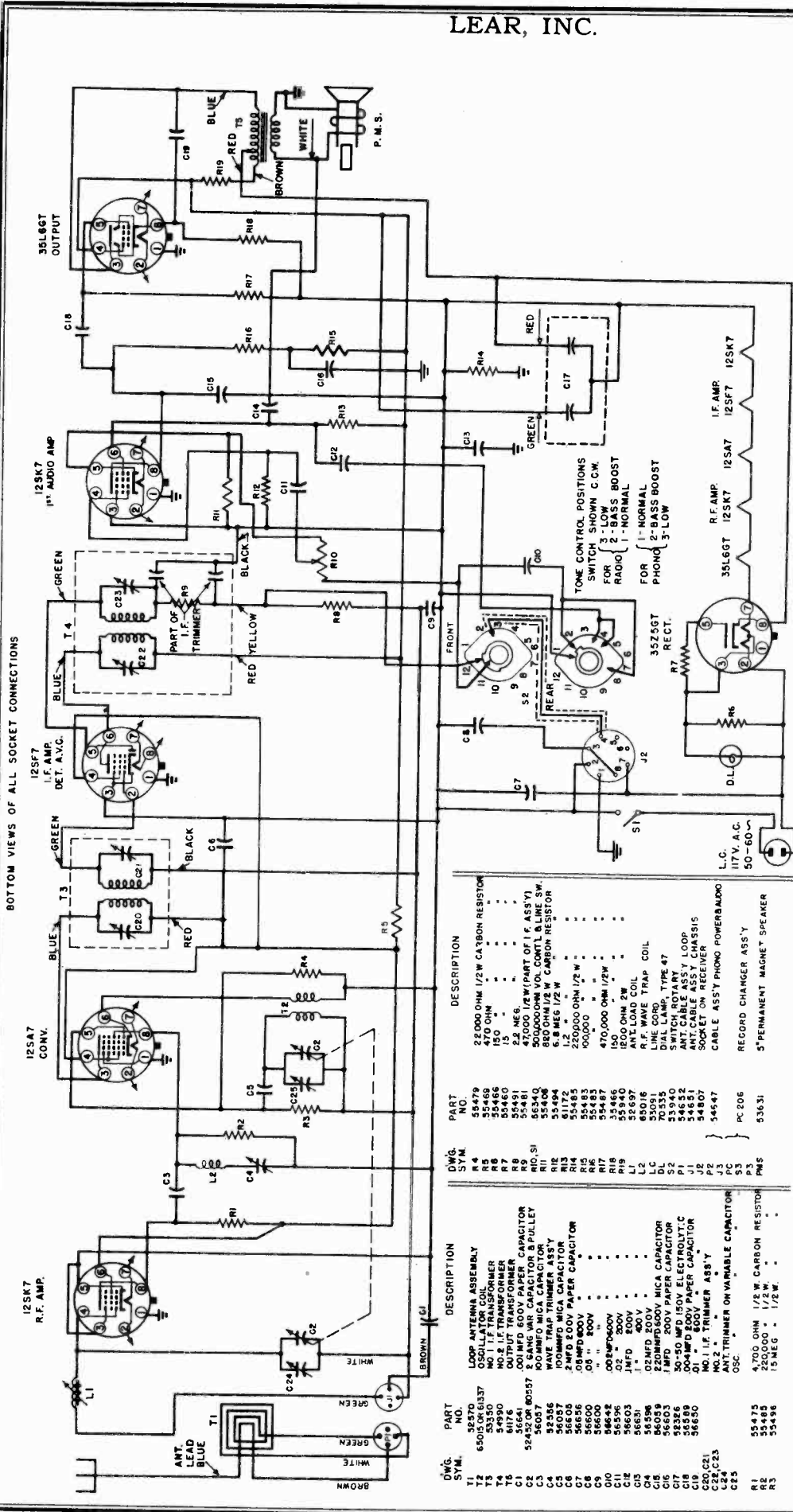
TUBE	FUNCTION	Voltage of each socket prong to B - (Prong No. 3 of 125K7)							
		No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
125A7	Oscillator - Converter	0	-	90	90	0	0	0	0
125K7	I-F Amplifier	0	0	0	0	0	90	-	90
125Q7	Detector - AVC - 1st. Audio	0	0	0	0	0	0	2B	-
50L6 *	Beam Power Amplifier	0	-	115	90	0	0	0	6
3525	Rectifier	-	-	-	-	-	110 AC	-	117

Notes: voltage readings are for schematic diagram in this bulletin. Allow 10% on all measurements. Always use meter scale which will give greatest deflection within scale limits. All DC measurements made with 1000 ohms per volt voltmeter. Voltages are DC unless otherwise specified. All voltages measured from prong No. 3 of 125K7 tube socket, or B-.

ALIGNMENT CHART

OPERATION	ALIGNMENT OF	GENERATOR CONNECTED TO	DUMMY ANTENNA	GENERATOR FREQUENCY	DIAL SETTING	TRIMMER	REMARKS
1	Set dial pointer at 1620 KC with tuning unit drive turned fully clockwise against stop.						
2	2nd IF	Pin No. 9 of 125A7 and B-	05 mF.	455 KC	1620 KC	C11, I16	Max. Output
3	1st IF			1620 KC	1620 KC	C18	Max. Output
4	Osc. Trim	Antenna lead (blue wire)	200 mF.	1500 KC	1500 KC	C11	Max. Output
5	Ant. Trim			600 KC	600 KC	T1	Max. Output*
6	Osc. Slug						
7	Repeat adjustments in operations 5 and 6 until no further increase in output is obtained.						

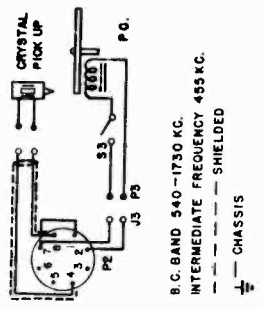
\* Repeat dial tuner slightly while adjusting.  
Notes: Connect output meter to voice coil circuit. Calibrate control on full for all adjustments. Signal generator gain control at minimum for satisfactory output meter reading.



DWG. SYM.	PART NO.	DESCRIPTION
T1	32570	LOOP ANTENNA ASSEMBLY
T2	65050R/6137	OSCILLATOR COIL
T3	53350	NO. 1 I.F. TRANSFORMER
T4	53460	NO. 2 I.F. TRANSFORMER
T5	6176	OUTPUT TRANSFORMER
C1	56641	.001 MFD 500V PAPER CAPACITOR
C2	32452OR/60537	2 GANG VAR CAPACITOR & PULLEY
C3	53356	100MMFD 500V PAPER CAPACITOR
C4	56608	2 MFD 500V PAPER CAPACITOR
C5	56605	.02 MFD 500V PAPER CAPACITOR
C6	56606	.02 MFD 500V PAPER CAPACITOR
C7	56607	.02 MFD 500V PAPER CAPACITOR
C8	56608	.02 MFD 500V PAPER CAPACITOR
C9	56609	.02 MFD 500V PAPER CAPACITOR
C10	56610	.02 MFD 500V PAPER CAPACITOR
C11	56611	.02 MFD 500V PAPER CAPACITOR
C12	56612	.02 MFD 500V PAPER CAPACITOR
C13	56613	.02 MFD 500V PAPER CAPACITOR
C14	56614	.02 MFD 500V PAPER CAPACITOR
C15	56615	.02 MFD 500V PAPER CAPACITOR
C16	56616	.02 MFD 500V PAPER CAPACITOR
C17	56617	.02 MFD 500V PAPER CAPACITOR
C18	56618	.02 MFD 500V PAPER CAPACITOR
C19	56619	.02 MFD 500V PAPER CAPACITOR
C20	56620	.02 MFD 500V PAPER CAPACITOR
C21	56621	.02 MFD 500V PAPER CAPACITOR
C22	56622	.02 MFD 500V PAPER CAPACITOR
C23	56623	.02 MFD 500V PAPER CAPACITOR
R1	55475	4700 OHM 1/2 W CARBON RESISTOR
R2	55485	22000 OHM 1/2 W CARBON RESISTOR
R3	55486	15 MEG OHM 1/2 W CARBON RESISTOR

PART NO.	DESCRIPTION
22000 OHM 1/2 W CARBON RESISTOR	
150 OHM " "	
15 " "	
22 MEG " "	
880 OHM 1/2 W CARBON RESISTOR	
6.8 MEG 1/2 W CARBON RESISTOR	
22000 OHM 1/2 W CARBON RESISTOR	
100000 " "	
47000 OHM 1/2 W CARBON RESISTOR	
1200 OHM 2W " "	
ANT. LOAD COIL	
R.F. WAVE TRAP COIL	
DIAL LAMP, TYPE 47	
SWITCH ROTARY	
ANT. CABLE ASSY LOOP	
ANT. CABLE ASSY CHASSIS	
SOCKET ON RECEIVER	
CABLE ASSY PHONO POWERAUDIO	
RECORD CHANGER ASSY	
5" PERMANENT MAGNET SPEAKER	

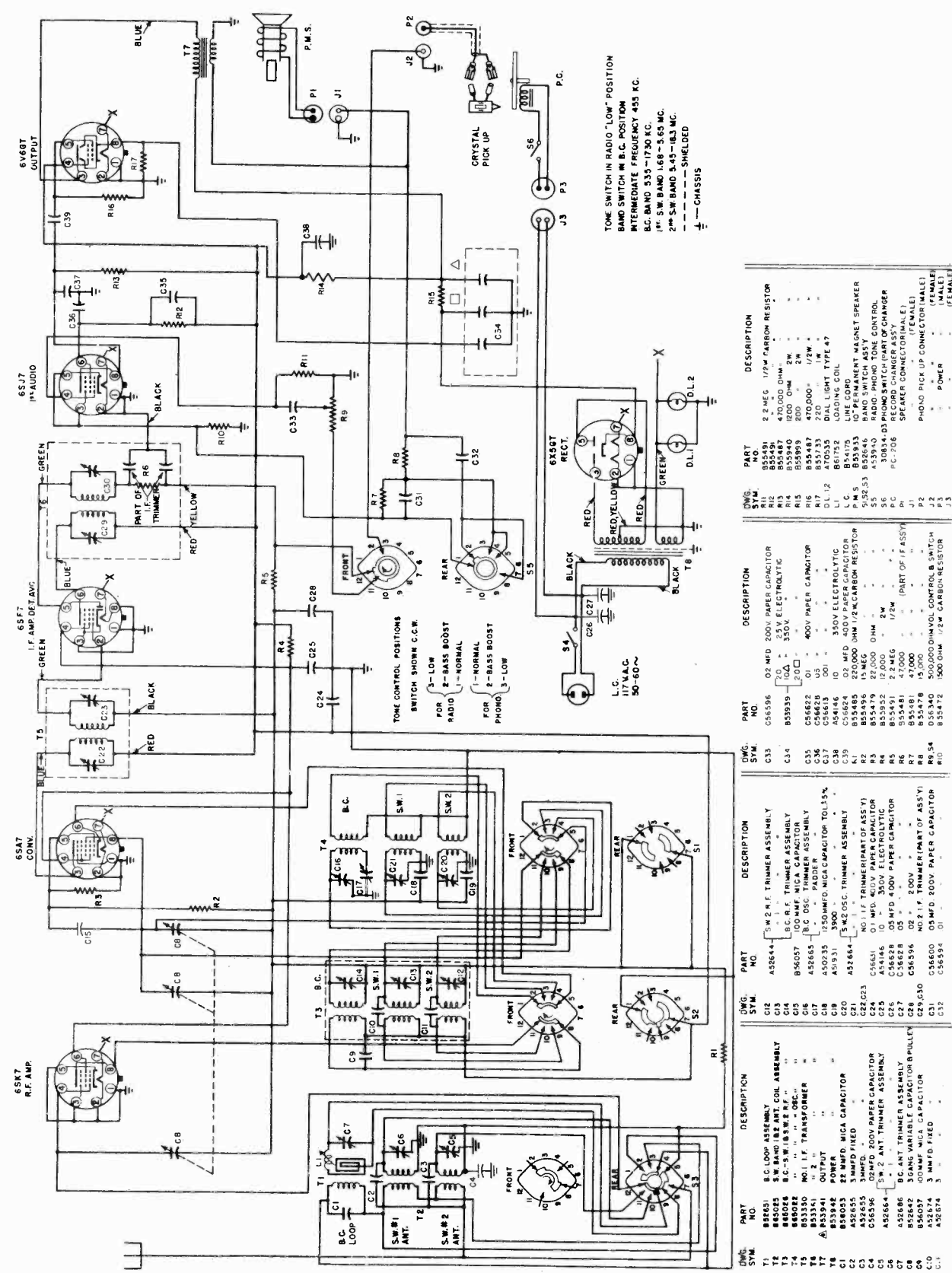


R.C. BAND 540-1730 KC.  
 INTERMEDIATE FREQUENCY 495 KC.  
 --- SHIELDED  
 --- CHASSIS



LEAR, INC.

MODELS 6610, 6611, 6612, 6610PC, 6611PC, 6612PC Late production



TONE SWITCH IN RADIO "LOW" POSITION  
 BAND SWITCH IN B.C. POSITION  
 INTERMEDIATE FREQUENCY 455 KC.  
 B.C. BAND 535-1750 KC.  
 1st. S.W. BAND 1.68-5.63 MC.  
 2nd. S.W. BAND 5.43-83.3 MC.  
 --- SHIELDED  
 ⊥--- CHASSIS

DWG. SYM.	PART NO.	DESCRIPTION	DWG. SYM.	PART NO.	DESCRIPTION
T1	B8651	B.C. LOOP ASSEMBLY	C1	C1	50 MF. 50V. CAP.
T2	B8605	S.W. BAND 1/2 ANT. COIL ASSEMBLY	C2	C2	50 MF. 50V. CAP.
T3	B8606	B.C. S.W. 1/2 ANT. COIL ASSEMBLY	C3	C3	50 MF. 50V. CAP.
T4	B8607	ANT. COIL ASSEMBLY	C4	C4	50 MF. 50V. CAP.
T5	B3350	NO. 1 I.F. TRANSFORMER	C5	C5	50 MF. 50V. CAP.
T6	B3351	NO. 2 I.F. TRANSFORMER	C6	C6	50 MF. 50V. CAP.
T7	B3352	NO. 3 I.F. TRANSFORMER	C7	C7	50 MF. 50V. CAP.
T8	B3353	NO. 4 I.F. TRANSFORMER	C8	C8	50 MF. 50V. CAP.
T9	B3354	NO. 5 I.F. TRANSFORMER	C9	C9	50 MF. 50V. CAP.
T10	B8608	330V. ELECTROLYTIC	C10	C10	50 MF. 50V. CAP.
T11	B8609	25V. ELECTROLYTIC	C11	C11	50 MF. 50V. CAP.
T12	B8610	500 OHM 1/2W. RES.	C12	C12	50 MF. 50V. CAP.
T13	B8611	10K 1/2W. RES.	C13	C13	50 MF. 50V. CAP.
T14	B8612	100K 1/2W. RES.	C14	C14	50 MF. 50V. CAP.
T15	B8613	1M 1/2W. RES.	C15	C15	50 MF. 50V. CAP.
T16	B8614	5M 1/2W. RES.	C16	C16	50 MF. 50V. CAP.
T17	B8615	50M 1/2W. RES.	C17	C17	50 MF. 50V. CAP.
T18	B8616	500M 1/2W. RES.	C18	C18	50 MF. 50V. CAP.
T19	B8617	10M 1/2W. RES.	C19	C19	50 MF. 50V. CAP.
T20	B8618	100M 1/2W. RES.	C20	C20	50 MF. 50V. CAP.
T21	B8619	1K 1/2W. RES.	C21	C21	50 MF. 50V. CAP.
T22	B8620	10K 1/2W. RES.	C22	C22	50 MF. 50V. CAP.
T23	B8621	100K 1/2W. RES.	C23	C23	50 MF. 50V. CAP.
T24	B8622	1M 1/2W. RES.	C24	C24	50 MF. 50V. CAP.
T25	B8623	5M 1/2W. RES.	C25	C25	50 MF. 50V. CAP.
T26	B8624	50M 1/2W. RES.	C26	C26	50 MF. 50V. CAP.
T27	B8625	500M 1/2W. RES.	C27	C27	50 MF. 50V. CAP.
T28	B8626	10M 1/2W. RES.	C28	C28	50 MF. 50V. CAP.
T29	B8627	100M 1/2W. RES.	C29	C29	50 MF. 50V. CAP.
T30	B8628	1K 1/2W. RES.	C30	C30	50 MF. 50V. CAP.
T31	B8629	10K 1/2W. RES.	C31	C31	50 MF. 50V. CAP.
T32	B8630	100K 1/2W. RES.	C32	C32	50 MF. 50V. CAP.
T33	B8631	1M 1/2W. RES.	C33	C33	50 MF. 50V. CAP.
T34	B8632	5M 1/2W. RES.	C34	C34	50 MF. 50V. CAP.
T35	B8633	50M 1/2W. RES.	C35	C35	50 MF. 50V. CAP.
T36	B8634	500M 1/2W. RES.	C36	C36	50 MF. 50V. CAP.
T37	B8635	10M 1/2W. RES.	C37	C37	50 MF. 50V. CAP.
T38	B8636	100M 1/2W. RES.	C38	C38	50 MF. 50V. CAP.
T39	B8637	1K 1/2W. RES.	C39	C39	50 MF. 50V. CAP.
T40	B8638	10K 1/2W. RES.	C40	C40	50 MF. 50V. CAP.
T41	B8639	100K 1/2W. RES.	C41	C41	50 MF. 50V. CAP.
T42	B8640	1M 1/2W. RES.	C42	C42	50 MF. 50V. CAP.
T43	B8641	5M 1/2W. RES.	C43	C43	50 MF. 50V. CAP.
T44	B8642	50M 1/2W. RES.	C44	C44	50 MF. 50V. CAP.
T45	B8643	500M 1/2W. RES.	C45	C45	50 MF. 50V. CAP.
T46	B8644	10M 1/2W. RES.	C46	C46	50 MF. 50V. CAP.
T47	B8645	100M 1/2W. RES.	C47	C47	50 MF. 50V. CAP.
T48	B8646	1K 1/2W. RES.	C48	C48	50 MF. 50V. CAP.
T49	B8647	10K 1/2W. RES.	C49	C49	50 MF. 50V. CAP.
T50	B8648	100K 1/2W. RES.	C50	C50	50 MF. 50V. CAP.
T51	B8649	1M 1/2W. RES.	C51	C51	50 MF. 50V. CAP.
T52	B8650	5M 1/2W. RES.	C52	C52	50 MF. 50V. CAP.
T53	B8651	50M 1/2W. RES.	C53	C53	50 MF. 50V. CAP.
T54	B8652	500M 1/2W. RES.	C54	C54	50 MF. 50V. CAP.
T55	B8653	10M 1/2W. RES.	C55	C55	50 MF. 50V. CAP.
T56	B8654	100M 1/2W. RES.	C56	C56	50 MF. 50V. CAP.
T57	B8655	1K 1/2W. RES.	C57	C57	50 MF. 50V. CAP.
T58	B8656	10K 1/2W. RES.	C58	C58	50 MF. 50V. CAP.
T59	B8657	100K 1/2W. RES.	C59	C59	50 MF. 50V. CAP.
T60	B8658	1M 1/2W. RES.	C60	C60	50 MF. 50V. CAP.

MODELS 6610, 6611, 6612,  
6610PC, 6611PC, 6612PC  
Early and late production

LEAR, INC.

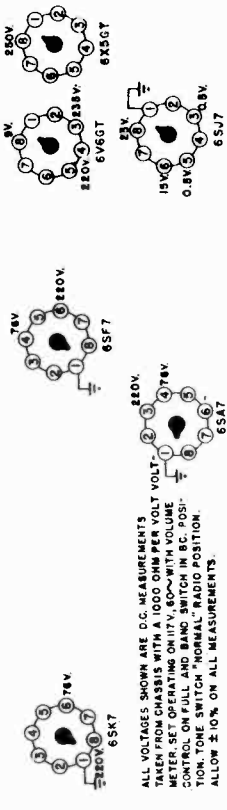
VOLTAGE CHART

Line Voltage: 117 volts, 60 cycles AC  
Position of Volume Control: Full (with no signal)  
Position of Tone Switch: Broadcast Band

TUBE	FUNCTION	Voltage of each socket prong to Ground (Chassis)							
		No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
6SK7	R-F Amplifier	0	0	0	0	0	76.B	6.1*	220.A
6SA7	Oscillator-Converter	0	0	220.A	76.B	0	0	6.1*	0
6SF7	I-F Amp. -Detector-AVC	0	0	0	76.B	0	220.A	6.1*	0
6SJ7	1st Audio Amplifier	0	0	.5D	0	.5D	15.A	6.1*	25.A
6V6GT	Beam Power Amplifier	0	0	235.A	220.A	0	---	6.1*	9.C
6X5GT	Rectifier	0	0	250.*	---	250.*	---	6.1*	250.A

\* AC Volts  
A-250 Volt Scale  
B-100 Volt Scale  
C-25 Volt Scale  
D-5 Volt Scale

Voltage readings are for schematic diagram in this bulletin. Allow 10% ± on all measurements  
All DC voltages made with 1000 ohm per volt voltmeter  
Voltages are DC unless otherwise specified.

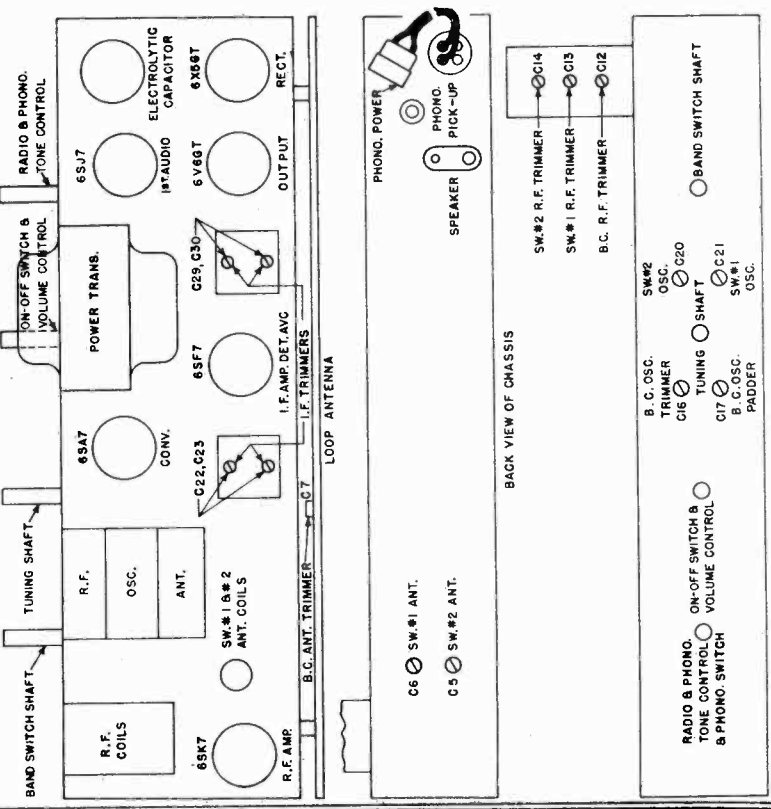


ALL VOLTAGES SHOWN ARE D.C. MEASUREMENTS  
TAKEN FROM CHASSIS  
RESISTANCE BETWEEN CHASSIS AND 800-OHM PER VOLT VOLUME CONTROL ON FULL AND BAND SWITCH IN BC POSITION.  
TONE SWITCH "NORMAL" RADIO POSITION.  
ALLOW ± 10% ON ALL MEASUREMENTS.

ALIGNMENT CHART

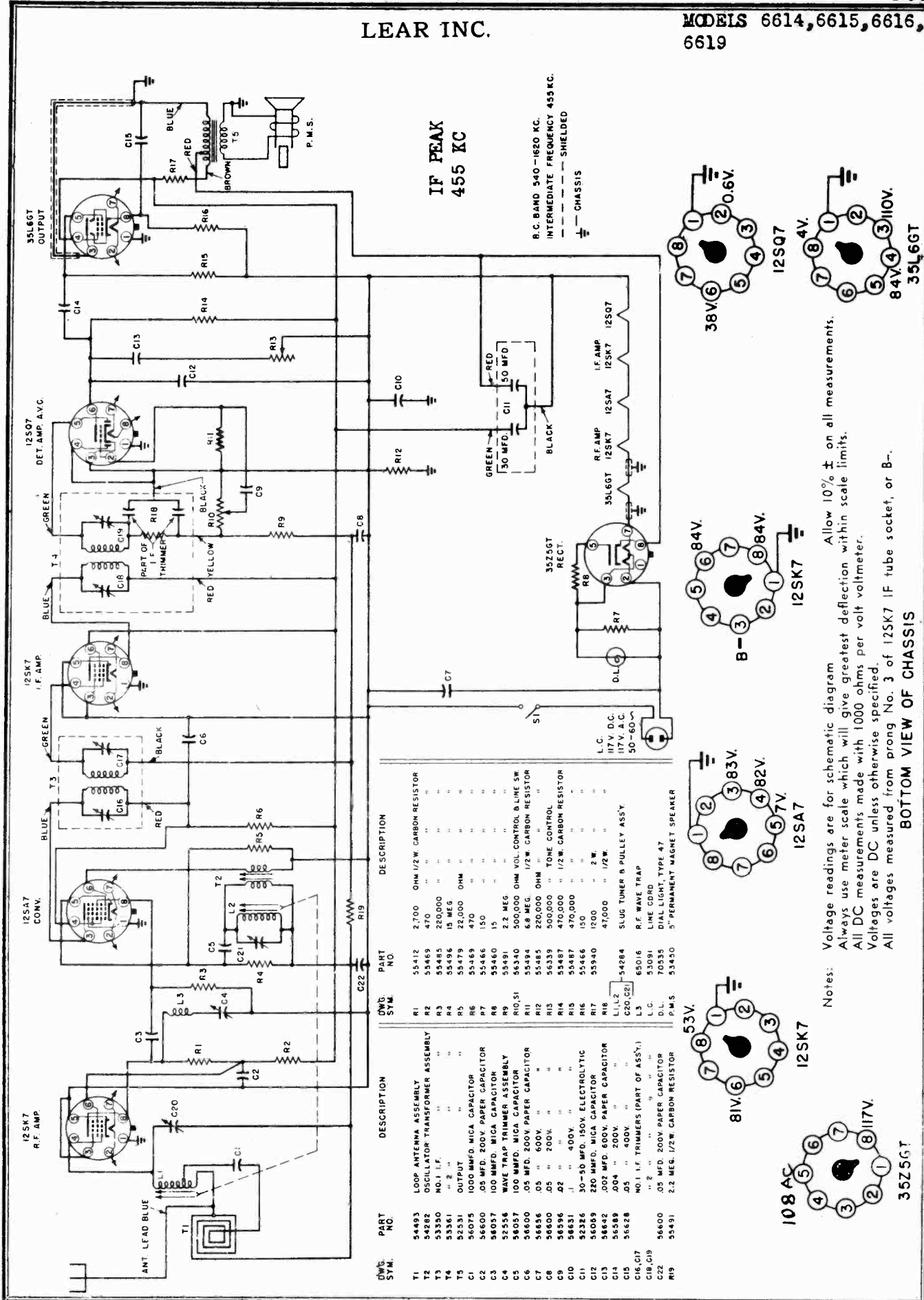
OPERATION	ALIGNMENT OF	GENERATOR CONNECTED TO	DUALITY ANTENNA	FREQUENCY	BAND SWITCH SETTING	DIAL AND CONDENSER SETTING	TRIMMER	REMARKS
1	Set dial pointer to last mark at low frequency end of dial with gang condenser closed.							
2	2nd. I.F.	6.5A7 Grid and Grid.	.05 Mf.	455 KC	BC	Open	C29 & C30	Max. Output
3	1st. I.F.						C22 & C23	Max. Output
4	BC	Antenna Lead & Grid.	200 mf.	1500 KC	BC	1500 KC	C16, C12, C7	Max. Output
5							C17	(osc. padder)
6								Repeat operations 4 and 5 until alignment frequencies fall on correct calibration points
7							L1	Max. Output
8								Recheck C7 at 1500 KC and L1 at 600 KC
9							C21, C13, C6	Max. Output
10							**	**
11							C20, C14, C5	Max. Output
12							**	**

NOTES: \* Rock dial while trimming C20 at 16 MC. C7 and L1 are located on Loop Antenna. \*\* Check sensitivity and dial calibration



LEAR INC.

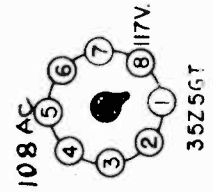
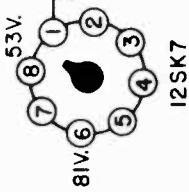
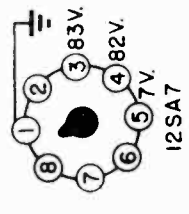
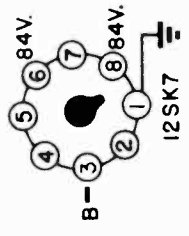
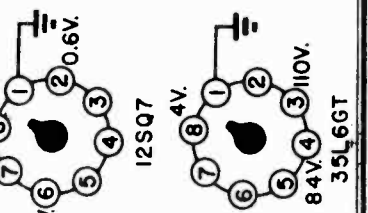
MODELS 6614, 6615, 6616, 6619



IF PEAK  
455 KC

B. C. BAND 540-1620 KC.  
INTERMEDIATE FREQUENCY 455 KC.  
---- SHIELDED  
⊥ --- CHASSIS

OWG. SYM.	PART NO.	DESCRIPTION
T1	54493	LOOP ANTENNA ASSEMBLY
T2	54282	OSCILLATOR TRANSFORMER ASSEMBLY
T3	53350	NO. 1 I.F.
T4	53361	" "
T5	52531	OUTPUT
C1	56075	1000 MFD. MICA CAPACITOR
C2	56600	.05 MFD. 200V. PAPER CAPACITOR
C3	56057	100 MFD. MICA CAPACITOR
C4	52554	WAVE TRAP TRIMMER ASSEMBLY
C5	56057	100 MFD. MICA CAPACITOR
C6	56600	.05 MFD. 200V. PAPER CAPACITOR
C7	56656	.05 " " " "
C8	56600	.05 " " " "
C9	56596	" " " " " "
C10	56631	" " " " " "
C11	52326	30-50 MFD. 150V. ELECTROLYTIC
C12	56059	220 MFD. MICA CAPACITOR
C13	56642	.002 MFD. 600V. PAPER CAPACITOR
C14	56589	.004 " " " "
C15	56628	.05 " " " "
C16, C17		NO. 1 I.F. TRIMMERS (PART OF ASS'y.)
C18, C19		" " " " " "
C20		.05 MFD. 200V. PAPER CAPACITOR
C22		2.2 MEG. 1/2W. CARBON RESISTOR
R1	55412	2,700 OHM 1/2W. CARBON RESISTOR
R2	55469	470 " " " "
R3	55485	220,000 " " " "
R4	55496	15 MEG. " " " "
R5	55479	22,000 OHM " " " "
R6	55469	470 " " " "
R7	55466	150 " " " "
R8	55460	15 " " " "
R9	53491	2.2 MEG. " " " "
R10, S1	56340	500,000 OHM VOL. CONTROL B. LINE SW
R11	55494	6.8 MEG. 1/2W. CARBON RESISTOR
R12	55485	220,000 OHM " " " "
R13	56339	500,000 OHM " " " "
R14	55487	470,000 " " " "
R15	55466	150 " " " "
R16	55466	1200 " " " "
R17	55940	47,000 " " " "
R18		SLUG TUNER B. PULLEY ASS'y
C20, C21	54284	" " " " " "
L1, L2		R.F. WAVE TRAP
L3	65016	" " " " " "
L.C.	53091	LINE CORD
D.L.	70535	DIAL LIGHT, TYPE 47
P.M.S.	53450	5" PERMANENT MAGNET SPEAKER

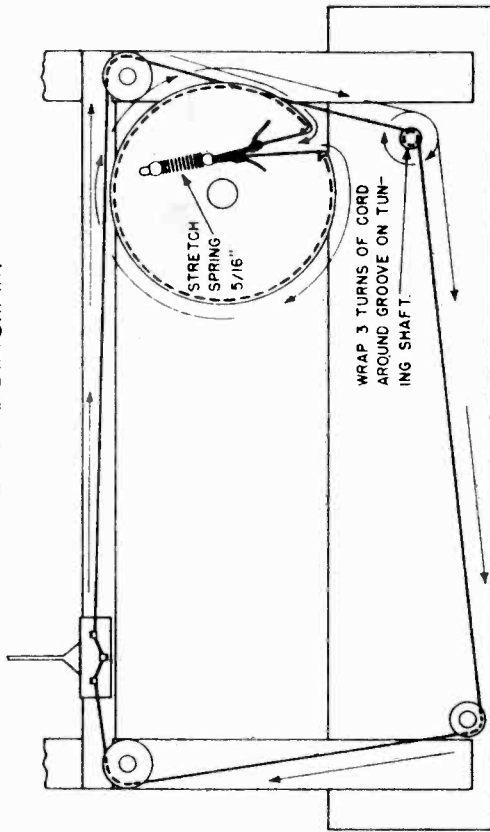


Notes:  
Voltage readings are for schematic diagram  
Always use meter scale which will give greatest deflection within scale limits.  
All DC measurements made with 1000 ohms per volt voltmeter.  
Voltages are DC unless otherwise specified.  
All voltages measured from prong No. 3 of 12SK7 IF tube socket, or B-

BOTTOM VIEW OF CHASSIS

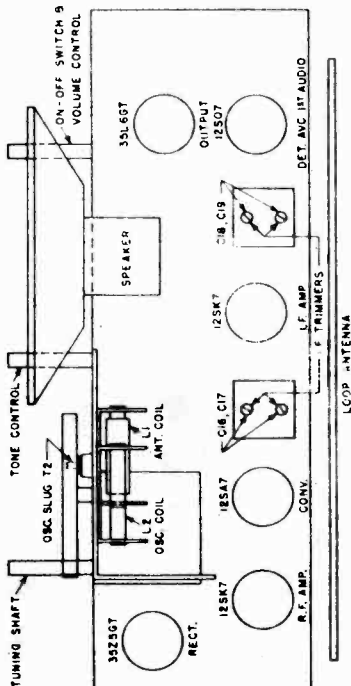
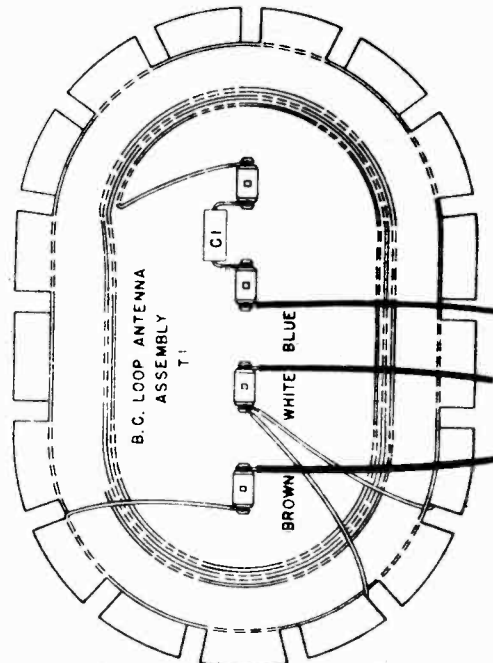


DIAL DRIVE DIAGRAM



FRONT VIEW

LOOP WIRING DIAGRAM



BACK VIEW OF CHASSIS

S-4

WAVE TRAP TRIMMER

ALIGNMENT CHART

OPERATION	ALIGNMENT OF	GENERATOR CONNECTED TO	DUMMY ANTENNA	GENERATOR FREQUENCY	DIAL SETTING	TRIMMER	REMARKS	
1	Set dial pointer at 1620 KC with tuning unit drive turned fully clockwise against stop.							
2	2nd IF	Pin No. 8 of 12SA7 and	.05 mf.	455 KC	1620 KC	C18, C19	Max. Output	
3	1st IF			455 KC	1620 KC	C16, C17	Max. Output	
4	Wave Trap			1620 KC	1620 KC	C4	Min. Output	
5	Osc. Trim	Antenna lead (Blue wire) and B-	200 mmf.	1500 KC	1500 KC	C21	Max. Output	
6	Ant. Trim			600 KC	600 KC	C22	Max. Output	
7	Osc. Slug					T2	Max. Output*	
8	Repeat adjustments in operations 5 and 6 until no further increase in output is obtained.							

\* Rot dial tuner slightly while adjusting T2.

Notes: Connect output meter to voice coil circuit. Volume control on full for all adjustments. Signal generator gain control at minimum for satisfactory output meter reading.