

# WIRELESS WEEKLY

Registered at the G.P.O., Sydney, for

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VOL. 8. No. 11.

FRIDAY, JULY 9, 1926.

# 3D

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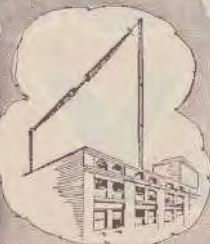
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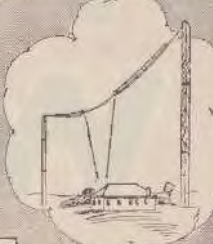
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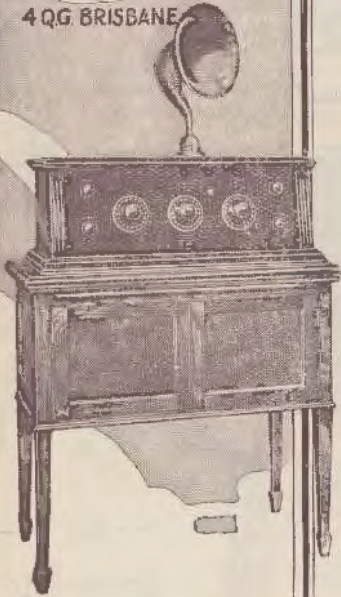
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Everyone who knows anything of the wireless world has heard of the Burgess Radio Laboratories at Madison, Wisconsin, U.S.A.

This laboratory is said to be equipped with the best and most modern equipment that money can buy, and that every conceivable instrument for testing purposes can be found there. Burgess also commands some of the best brains of the world, and included in the personnel of the Laboratory Staff are men whose names are universal, the latest to join up with them being Mr. F. H. Schnell, who came out to Australia with the American Fleet in order to experiment with "short wave."

Mr. Schnell, by the way, on his return to America, spoke with great enthusiasm of the Australian amateurs, and was impressed with the experimental work that they were doing.

The Burgess Company, although recognising the work that is being done in their own Research Laboratory, pay a special tribute to Radio Amateurs the world over when they say that it is only through friendly criticism and suggestions from experimenters, together with extensive research, that has made it possible for the efficiency of Burgess Batteries to be increased to a degree not equalled elsewhere.

Under the direction of Mr. W. B. Schulte, Chief Engineer, the Burgess Company periodically publish in booklet form the results of the work of the Laboratory.

Among such publications that have already reached Australia are:—

Short Wave Radio Receiver No. 111 of 9XH—9EK.

Baby Radio Transmitter "D" of 9XH—9EK.

Dry Cell Battery Capacities for Radio Transmitting.

B Battery Service Hours.

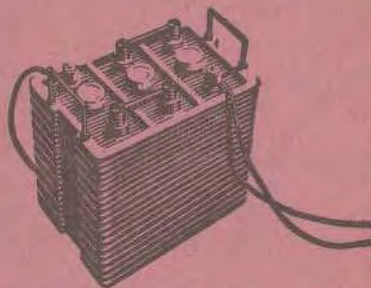
Burgess Dry Cell Batteries with MacMillan Expeditions.

And Arctic Radio Equipment with Battery Supply.

This last booklet gives full technical description of the Radio Equipment used by Capt. Wilkins on his Arctic Expedition.

The Burgess Laboratories not only designed the whole of the equipment for these expeditions, but also supplied the Batteries.

Mr. Schulte writes that his Company have had hundreds of orders, some from Australia, for both receiving and transmitting sets of similar design to those used on these expeditions, but he advises that as their Radio Laboratory is only an experimental research department for their Battery Company, they cannot build for sale any of the equipment or parts they refer to in their booklets. They are, however, only too pleased to answer any letters and to help any Australian amateur in any way they can.\*



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*The beginning and the end in*

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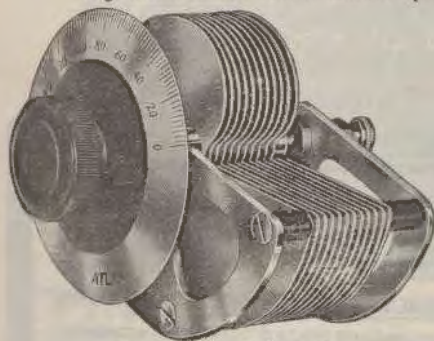
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Trade Mark



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# BRANDES

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BRANDES  
Table  
Talker



NOW  
45/-  
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The  
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Courier Buildings, Queen Street, Brisbane.

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# WIRELESS WEEKLY

Published by Publicity Press Ltd., 71-75 Regent St., Sydney, Australia.  
Phones: Redfern 964 and 939.

Managing Editor: E. C. MUMFORD.

Editor: A. W. WATT.

Technical Editor: C. W. SLADE.

Advertising Manager: J. T. REEDIE.

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Agents in Great Britain.—The Colonial Technical Press Ltd., Dudley House, Southampton Street, Strand, W.C. 2.

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### PAYMENT OF LICENSES.

**M**R. MARK, the Federal Honorary Minister, in opening the new station of Broadcasters (Sydney) Ltd. last Monday, sounded a very clear note when he suggested that listeners generally should co-operate in the work of reporting those people who were deliberately ignoring their obligations with regard to the payment of license fees. It is a suggestion that every person with any kind of appreciation for the blessings that Broadcasting has conferred upon us might well take to heart.

If Broadcasting were for a privileged few—if its enjoyment were lessened by any material sacrifice, or the possession of a license entailed endless adherence to red tape methods, then perhaps one might gaze with a more or less tolerant eye upon the person who dodges the payment of the fee. Public sympathy invariably swings towards the individual who transgresses the law with the object of refusing to submit to an injustice or to defend some inadmissible right of the people.

In this matter of "pirating," however, there is no honour or glory—no upholding of a great principle. The best that can be said of it is that it is simply a form of petty thieving which the fair-minded citizen regards with disgust. Broadcasting is for the whole community, and every member of it who is ready to take advantage of this great means of entertainment should equally as readily undertake the

payment of the few shillings which entitles him to a permanent front seat for a whole year.

For the crystal user in the city there are 365 days in which to regale himself of the feast of music, song and story provided by at least two broadcasting stations, and at a cost to the listener little more than the price of admission to two or three theatrical shows, each of which affords but a few hours of entertainment. The owner of a multi-valve receiver has practically the whole sweep of a continent. Yet it is common knowledge that hundreds of people in both classes are calmly thieving that which is produced at heavy cost to the Broadcasting Companies, but which to the public constitutes the greatest and cheapest form of entertainment the world has ever known. Imagine a twelve-hour programme such as 2BL and 2FC are now providing for less than one penny.

The march of progress demands that the Broadcasting concerns must continually be improving their plant. They are under a perpetual obligation to provide listeners with the best artistic, musical and educational talent that can be obtained. No one can deny that they have fulfilled that obligation, or that they are providing a service more than the equivalent of that which may reasonably be expected of them.

It is the plain duty of every person who uses the service to share the burden of the expense, and to co-operate with the authorities in their efforts to locate those who are not prepared to do so.

# THE AUSTRALIAN WIRELESS COMPANY

Late of Victoria Arcade

We have now moved into our new extensive premises where we have opened up the finest and most up-to-date Radio Stores in Australia.

Our stocks of all high-class components are the largest and most comprehensive in Sydney,—a visit to our showrooms will amply repay you.

New Shipments of the following well-known and dependable lines have just been opened up:—

Igranic Components.  
Muter Components.  
Frost Components.

Burgess Heavy Duty "B" Batteries.  
Mullard, Philips and Radiotron Valves  
(All Types).

Square Law and S.L.F. Low Loss Condensers.

These are just a few from our long list of quality parts — there is everything for the home builder at keenest prices. Call upon us for our expert advice upon your every requirement.

We are manufacturers of the famous RADIATR RECEIVING SETS—the only sets bearing a definite GUARANTEE OF EFFICIENCY and at prices which defy competition.

	£	s.	d.		£	s.	d.
Radiatr 1 Valve Set, Complete	6	10	0	Radiatr 3 Valve Set, Complete	18	0	0
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Radiatr 5 Valve Set, Complete £29 10 0

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## The Australian Wireless Company

140 Castlereagh Street, Sydney

(Between Market and Park Streets)

'PHONES — M 2037, M 2038



# An Up-to-date Reinartz Receiver

By "WIRELESS WEEKLY."

**M**ANY excellent reports have been received from time to time from readers who are more than satisfied with the results they have obtained with various forms of Reinartz receivers. It is, however, very surprising to know that 70 per cent. of them are still making good use of the old hook-ups, which without a doubt can be considerably improved without much time or money being expended. Realising that it is very difficult for the average home constructor to know whether his pet receiver is giving maximum efficiency, "Wireless Weekly" has made exhaustive tests with the receiver herewith published, and for comparative results we have used throughout the well-known standard 3-coil regenerative receiver. Every A class broadcast station, with the exception of GWF, was received at loud speaker strength with both the Reinartz and the 3-coil receiver, but for ease of operation and selectivity, when handled by the novice, the Reinartz as published in this issue was by far the most superior of the two.

The biggest disadvantage of the feed back method of regenerator, as in the 3-coil circuit, is the drastic effect the coupling of the tickler coil has on the tuning. For this reason it is almost impossible to definitely state that any one station will be found on a certain dial reading unless the coupling of the coils is not altered from the time the tuning position is first obtained. This, of course, is not practicable for all wavelengths with the feed back method. Where the regeneration is controlled by the variable condenser, however, once the best position of magnetic coupling of coils has been found, it is not necessary to alter their position, and all the lower wave stations once tuned-in at various positions of the dial will always be found in that same position. This advantage is best realised where the receiver has to be operated by several members of a family, whose only desire is to receive the broadcast music or speech with a minimum amount of trouble. If home constructors would realise this fact more forcibly and

make their receivers a little easier to operate, every member of the house would be far more interested in broadcasting, due to the fact that they could operate the receiver equally as well as the constructor himself.

Another advantage of the hook-up published in this edition is that no hand capacity whatever is experienced, as was invariably the case with all the early Reinartz circuits. In case there are some readers who have recently become interested in radio, and have not experienced hand capacity, it might be stated that it is a bothersome effect noticed in tuning various valve receiving sets. When the set is being tuned, the operator's hands and body act as small condensers. As soon as the hands are removed from the dials, however, this small decrease in capacity effects a decrease in the total capacity, and consequently slightly detunes the receiver. In extremely sensitive receivers, when distant reception is desired and hand capacity is present, it is often difficult to maintain reception of a weak signal without keeping the body in deadlike stillness. As stated previously, this disadvantage is entirely obviated with the receiver described in this issue.

## Method of Construction.

First, drill and mount the panel components according to Figs. 2 and 3. The centre condensers should be placed in the centre of the panel, and the other two at equal distances either side. Don't be tempted to alter the layout, as the whole general appearance is very hard to beat. Next mount the baseboard components, carefully noting that the markings on valve holders and transformers correspond with our Fig. 2A. This completed, you may commence to wire the panel connections in numerical order shown. For the advanced reader, the usual circuit diagram (Fig. 1) is provided, and for the novice the popular back of panel views are given in detail.

## Panel Connections.

No. 1, aerial terminal to fixed plate connection of first condenser. No. 2, moving plate connection

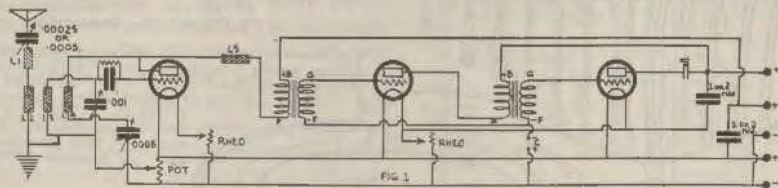
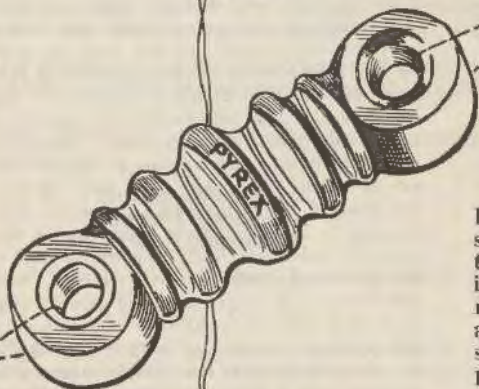
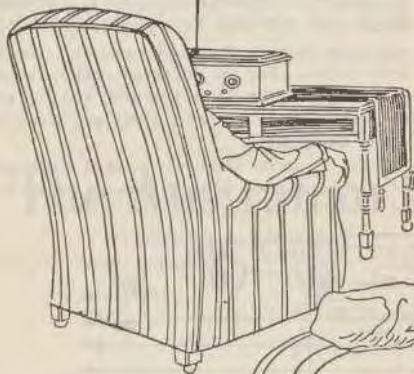


Fig. 1—Circuit diagram.

# THE IMPORTANCE OF PERFECT INSULATION EMPHASISED



## PYREX Insulators



PYREX INSULATORS have improved his radio reception a hundred fold. Now he gets every bit of energy that is on the air. Pyrex Insulators really insulate—they don't let energy leak away.

PYREX is the trade mark of a special composition possessing distinctive electrical characteristics. It is not an ordinary glass—it contains no lead. It is homogeneous and of a continuous uniform structure, and so does not depend for its insulating properties on the surface glaze.

PYREX does not absorb water or attract moisture, and its smooth permanent surface prevents the collection of dust. It is mechanically strong and light in weight, and undoubtedly is the best insulating material obtainable.

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The transmitting and receiving antennae of the McMillan Arctic Expedition are PYREX insulated. 34 Recondensing Stations in the U.S.A. have recently replaced other insulators with PYREX. The U.S.A. Navy and Coast Guard Lighthouse and Air Mail Service specify and use genuine PYREX.



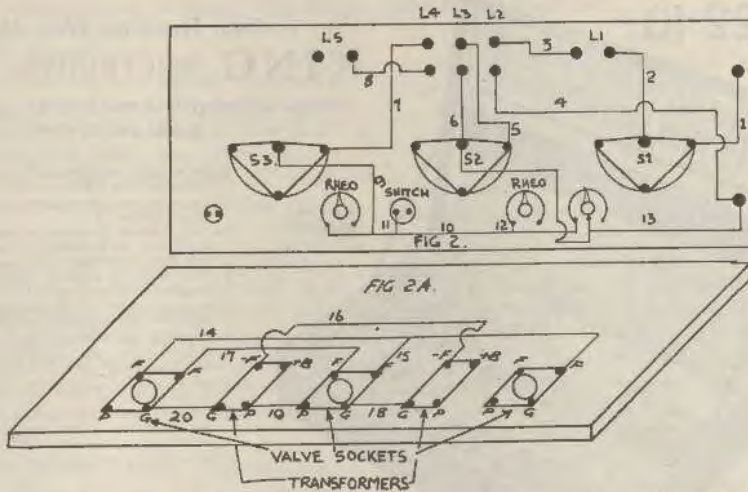


Fig. 2—Back of panel view.

Fig. 2A—Back of panel view, showing position of base-board components.

to panel plug. No. 3, panel plug to top primary coil connection of 3-coil mount. No. 4, lower primary coil connection to earth terminal. No. 5, top connections of centre variable condenser. No. 6, bottom connection of L3 holder to moving plate connection of centre condenser. No. 7, top connection of L4 to fixed plate connection of left-hand variable condenser. No. 8, bottom connection of L4 to panel plug. No. 9, moving plate connection to the negative A bus bar. No. 10 is the negative A bus bar and is a connection taken from the left-hand terminal of rheostat to left-hand terminal of potentiometer. Nos. 11 and 12 are connections which link the filament switch and the detecting valve rheostat with the negative A bus bar. The final panel connection, No. 13, connects the moving arm contact of potentiometer with the earth terminal. It is this connection which prevents hand capacity, and for this reason it is very important. The panel connections complete, the baseboard connections should now be wired in the numerical order shown. No. 14 is the +A bus bar, and links the extreme left and right hand F terminals of third and first valve holders respectively. No. 15 is a short link from + A bus bar to right-hand F terminal of second valve holder. No. 16 links the two - F terminals of the two audio transformers together. No. 17 links the left and right hand F terminals of the second and third valve holders respectively. No. 18 links the G of first transformer to the G terminal of second valve holder. No. 19 links the P terminal of second valve holder to the P terminal of second transformer, and No. 20 links the G of second transformer to the G of third valve holder.

After the 20th connection is made, the panel and baseboard should be secured together by small wood screws and the final connections made between the two as shown. All these final connections are shown in heavy type. (See Fig. 4.) No. 21 links the fixed plate connection of second condenser S2 to one side of the grid condenser and leak. The connection from the other side of grid condenser is then continued on to the G terminal of first valve holder. No. 22 links the + A bus bar (No. 14) connection to the right-hand terminal of potentiometer. No. 23 links the left F terminal of first valve holder to the right-hand terminal of first rheostat. No. 24 links the P terminal of first valve holder to the bottom left-hand connection of the L4 coil. No. 25 links the P terminal of first transformer to the left-hand connection of L5 coil holder. No. 26 is a connection taken from No. 17 to the right-hand terminal of second rheostat. No. 27 links one contact of the single circuit jack with the + B terminal of third valve holder.

Now, if you have carried out these instructions to the letter, you have a very efficient 3-valve receiver which will operate immediately you make the

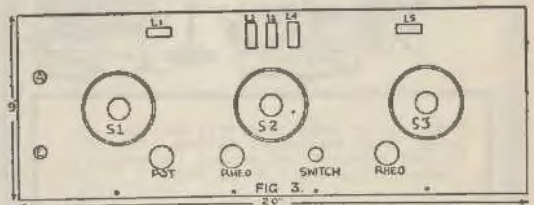


Fig. 3—Front panel view.

PRICE £22.10-



This sixteen page booklet, fully illustrated, tells in simple words how to assemble the King Neutrodyne Kit.

## Ten Reasons Why the KING NEUTRODYNE KIT when assembled makes an unusually good receiver

- 1—By means of switchboard type of cable all wiring goes into the set as a unit.
- 2—Bus wires are cut to proper length and bent to shape.
- 3—Coils of tubular dimension and wound with heavy wire, are attached to King Cornwall Low Loss Condensers.
- 4—Tube sockets are supported by scientifically designed metal brackets.
- 5—Neutrodyne is operated by micrometric screw so receiver can be properly neutralized.
- 6—Dials are one piece and made of bakelite.
- 7—Rack-face panel is drilled, properly engraved and filled in with white.
- 8—Instructions are easy to follow, no technical know ledge needed.
- 9—All parts specially built for Kit, same as used in factory built King Neutrodyne Receiver.
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Kit R-1400—storage battery type, uses UV-201-A or 301-A tubes.

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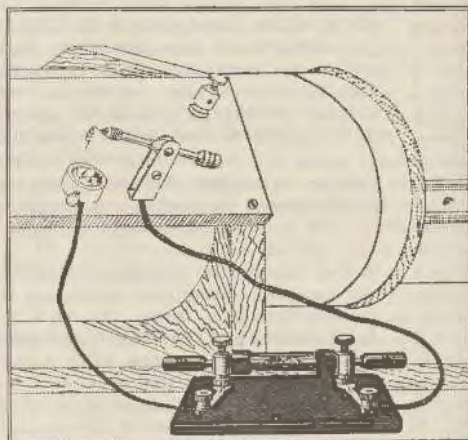
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necessary battery connections as shown. The filament switch provides a cut-off for all batteries. It should be definitely understood that it is not necessary to break any other external battery connection. Quite a lot of B.C. listeners have the wrong impression that their batteries will run down if they don't disconnect the leads each time they have finished using their receivers. This often leads to wrong connections by the novice, with the result that valves are blown.

If all the filaments are cut off by a switch as shown there is absolutely no drain on either A or B batteries, with one exception, viz., using a soft valve for detector, when very slight B battery current may find its way through the molecules of gas to the filament. It is, however, very doubtful whether the B drain, even with a soft valve, exceeds the idle drain of a dry cell battery.

Coils required with this receiver. The following table shows at a glance the size coil recommended for the various stations.

Coil Table.

Station.	L1	L2	L3	L4	L5
2BL ..	25	25	50 or 75	50	100
3LO ..	25	25	50	50	100
4QG ..	25	25	50	50	100
5CL ..	25	50	75	50	100
2FC ..	50	100	150	100	100

The Circuit Described.

The S1 condenser, which should be a .00025 or .0005, decreases the fundamental of the aerial and thus ensures maximum selectivity, even with large aerials. The primary circuit is divided into two coils—L1 and L2. This, again, further increases selectivity. If the whole of the primary coil is inductively coupled to the grid, interference from nearby stations is inevitable. The L3 and L4 coils correspond to the grid and tickler coils of the ordinary types of tuners, except that the control of the regeneration is maintained by variable condenser S3. The variation of magnetic coupling between the L3 and L4 is therefore not necessary, and once the beat position has been found for all the lower wave stations, L5 acts as a radio frequency choke and prevents high frequency currents from passing through the transformer winding. The receiver is reasonably easy to tune, in spite of the three controls, and readers are assured that the hook-up is the last word in efficiency, as far as a straight-out regenerative detector circuit is concerned.

As usual, "Wireless Weekly" will be pleased to receive reports of reception from country or city readers who build this receiver.

WANTED.—All kinds Secondhand Wireless Sets, Parts, Speakers, etc. Best prices given. JACK RAPKEN, 16 George Street West. MA 1198.

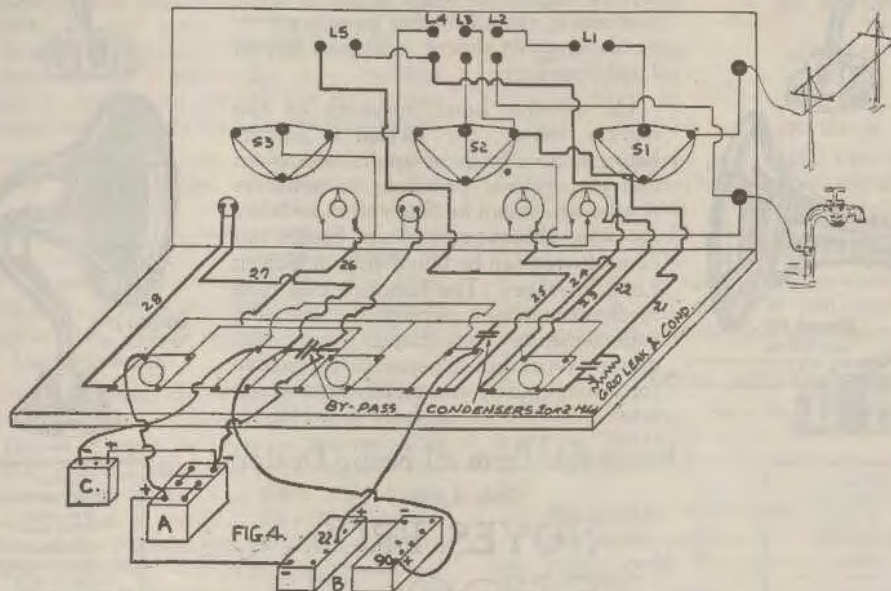
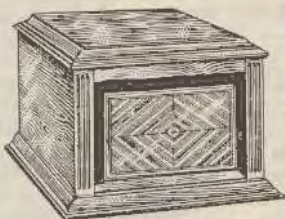


Fig. 4—Back of panel view, showing point to point wiring.

# BRITISH **Brown** THROUGHOUT



**Brown Cabinet Model.**  
2000 Ohms. £8/10.



**Brown HQ.**  
2000 Ohms.  
£8/10.

## The Incomparable **Brown** in Seven Superb Models

Now that Broadcasting has awakened such an intense national interest, it is only natural to find that Loud Speakers, in common with many other commodities, Radio or otherwise, must be produced in a variety of types at prices that will be within the reach of all. It is for this reason, therefore, that there are now available seven superb models of **Brown** Loud Speakers.

Of all the Loud Speakers on the market to-day, the **Brown** is unique, because, by a brilliant application of an entirely original principle, it achieves results which can be obtained in no other speaker. **Brown** principles of design and construction can be found only in **Brown** Loud Speakers. The famous tuned reed mechanism, which permits the use of a supersensitive cone-shaped aluminium diaphragm as thin as paper, is responsible for a tonal purity and mellowness which must be heard to be fully appreciated.



**Brown H1.**  
2000 Ohms  
£7/10.



**Brown H3.**  
2000 Ohms.  
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**Brown H4.**  
2000 Ohms.  
40/-



**Brown H2.**  
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£3/5.

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130 Murray St., Perth.



# Queries Met by Every Beginner

**Q.** What do you consider is the most efficient rectifier.

**A.:** Individual circumstances govern the answer to this question, but the following should be instructive: There are seven methods of converting A.C. to D.C. or rectifying A.C. They are as follows— (1) The use of a commutator as on a D.C. generator. (2) Driving a D.C. generator with an A.C. motor, usually termed a motor generator outfit. (3) The Mercury Arc Rectifier, used for charging at heavy rates. (4) By the electrolytic rectifier or Nodon valve. (5) By the Synchronous or rotary converter, only used in power houses. (6) The vibrating, mechanical, or polarity changing device. (7) The vacuum tube. Of these seven, radio has depended almost entirely upon the vacuum tube and the electrolytic type, with a fair sprinkling of the mechanical vibrator type for battery charging.

Either the valve or the electrolytic rectifier, when used singly, is fundamentally a half wave rectifier; that is, it quenches one half the wave and passes the other half through, giving a pulsating current of maximum amplitude. Either, when doubled, makes a full wave rectifier, still giving a pulsating current, but the amplitude of the pulsations is slight, and the frequency is double the frequency of the A.C. input, viz., where 60 cycle current is used the frequency of the pulsations in the rectified current is 120 cycles. In deciding what kind of rectifier you should use for certain duties, readers will find that each has its advantages.

Electrolytic rectifiers are expensive to build, but require a fair amount of attention. The ordinary types of home constructed electrolytic rectifiers will not pass a steady current of more than 200 to 300 milliamps, so that they cannot be used for charging "A" batteries. They are, however, reasonably efficient for "B" battery charging or rectifying high voltage alternating current for amateur transmission.

The valve rectifier, on the other hand, requires little or no attention. The manufacturers process of the famous Tungar valve is as follows: The bulb is first carefully exhausted to the highest possible vacuum, after which it is filled with Argon gas in a high state of purity. This prevents disintegration of the filament and cathode (or plate), and ensures long life. Owing to the presence of this gas, however, it is not suitable for rectifying the high tension voltage for transmitting, and a

hard rectifying tube, such as the Kenotron, is recommended.

**Q.:** Is the Tungar rectifier suitable for charging "B" batteries?

**A.:** Yes. In case Mr. Atkinson's letter, published on page 19 of "Wireless Weekly," June 11th, regarding the correct charging rate for a Philco "B" battery has led readers to think that the Tungar rectifier is unsuitable for this work. We have pleasure in publishing the following table, which shows at a glance the charging rate obtained with various candle power lamps, when used to charge a 24, 48, and 96 volt battery.

## TUNGAR "B" BATTERY CHARGER.

Table showing Charging Rates.

A.C. Line Voltage.	Voltage of Battery to be charged.	Lamps in Watts—metal filament.	Charging Rate in Milliamps.
240	24	20 Mazda	30
240	24	40 Mazda	70
240	24	60 Mazda	100
240	24	100 Mazda	140
240	48	20 Mazda	25
240	48	40 Mazda	60
240	48	60 Mazda	95
240	48	100 Mazda	120
240	96	20 Mazda	20
240	96	40 Mazda	40
240	96	60 Mazda	55
240	96	100 Mazda	80

Readers should particularly note that, with the size lamps as recommended, in charging a 96 volt battery even with a 100 candle power metal filament in circuit, 80 milliamps is the largest current obtainable. This rate is quite suitable for all batteries, and a steady tapping charge is assured. For the 48 volt size, 120 milliamps is obtained, and in the 24 volt size, 140 milliamps.

## RADIO REPARATIONS.

To cover reparations due, the Japanese Government has decided to accept £4,000,000 from Germany in the form of Telefunken wireless apparatus.

## BRAZILIAN WIRELESS DEVELOPMENT.

The opening of the new wireless station at Rio de Janeiro lately inaugurates a new service from Brazil to the United States, France, Great Britain, Germany, and Italy.



### ENGLAND TO RUSSIA.

Advice has been received from London that the British Government has permitted the Marconi Company to erect and operate a wireless station in England for communication with Russia. The notice states that private and commercial telegrams will be accepted at any Marconi office in England for wireless transmission to Moscow or any part of Russia, facilities having been arranged for the rapid distribution of such messages throughout the country.

Mr. E. T. Fisk, Managing Director of Amalgamated Wireless (A/sia) Ltd., comments: "That it seems difficult to understand why the British Government should permit an English Company to own and operate a wireless station for communication with Russia, while refusing to permit an Australian Company to own and operate a similar station in England for communication with Australia."

### BEHIND THE MICROPHONE.

One of the oldest and most stringent maxims of the stage, and one which, applied to its fullest extent in vaudeville is, "Under no condition ever leave a stage dead—always have something doing." KFI applies this rule to its microphones to such an extent that several Australians have written in to the Los Angeles station complaining of the haste used in presenting its programmes.

### A CORRECTION.

With reference to the charging of B batteries with a 10 volt generator, as described in last week's "Wireless Weekly." It is necessary to further explain that only five accumulators at a time can be charged. The selector switch controls the charging of each of the eight groups. When switch arm is on No. 1 Stud, the negative lead should be placed on the No. 1 cell negative terminal. When charging No. 2. Group, viz., switch on 2nd stud, the negative lead is taken to the negative terminal of No. 6th cell; No. 3 stud, negative to No. 12th cell, and so on until all the groups show fully charged.

**FIVE VALVE SET FOR SALE.** Loose coupled tuned aerial, 1 stage H.F. Detector, 2 stages L.F. (last stage push pull). Everything of the best, including Acme Low Loss Condensers, Jefferson 41 Shielded Transformers, Acuratune Dials, Bradleystats, Bradleyleak, Dubilier Condensers and Resistances, 16 Giblin Remler Coils, 5 balanced 201A Valves, Solid Oak case with 2 drawers. Demonstration on Interstate Stations, Powerful and excellent tone. Price £26, cash. D. P. DOUGLAS, 7 Ethem Avenue, Darling Point, Tel. FM1880.

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DRYDYNAMIC RADIO  
BATTERIES

## The World's Finest



### SOCKET POWERS.

Does away with "B" Batteries, Easy as turning on your Electric Light. There's No Hum—No distortion, but Quality and Volume at all times



### THE NEW PHILCO "A."

Fitted with Bail Handles with beautiful panelled real rubber cases. A Battery for the careful buyer.



### THE NEW 83X.

Is known as the "B" Battery of Tremendous Capacity. Super-heterodyne or other multi-valve sets are too costly to operate without this Philco.

New System Telephones Pty. Ltd.

SYDNEY, MELBOURNE & ADELAIDE.



## What Item do You Prefer?

QUITE frequently we get letters from country and city readers offering suggestions as to particular Broadcast items. For instance, here is a typical letter which has just reached us. Mrs. J.M.S. (Orange), writes:—

"I have often wondered whether the Broadcasting Stations would be glad to get suggestions from readers of your paper concerning songs or other items which they would like to have Broadcast by their favourite artists. In my home we, of course, have our favourites and we have sometimes thought of writing to them, asking for special numbers. Quite the most popular singer with us is Mr. Norman Jansen, of 2BL, but we have never been fortunate enough to hear him sing one of the most beautiful songs ever written, 'Go Lovely Rose,' by Quilter. No doubt hundreds of others love this song, and it seems to me that if the suggestions of listeners could be published in your paper it would give a fair indication to the Broadcasting Stations as to the trend of popular demand and would also afford your readers an opportunity of expressing their opinions."

We are very glad to take up the suggestion put forward by this lady at Orange. A desire to co-operate has already been expressed by 2BL, who have kindly consented to include the song "Go Lovely Rose" in Mr. Jansen's next appearance on July 20th.

We cordially invite readers to forward us their requests or suggestions for their favourite items. These will be published, and of course, passed along to the Broadcasting Stations. Simply address your request to The Editor, "Wireless Weekly," Williamson House, 51 Castlereagh Street, Sydney.

### THE KTAB TRANSMISSIONS.

In a letter to us dated June 3rd, Mrs. Ada Morgan O'Brien, director of station KTAB, Oakland, Cal., referring to the Australian Broadcast on May 20th says, "The first cable received which thrilled us, was from Peking, China, stating that the concert was distinctly heard at the French Legation."

Mrs. Morgan, who incidentally is the first woman to control an American station, goes on to say that a special birthday party programme will take place on August 2nd from 8 p.m. to Midnight, Pacific Standard Time. This would correspond to 2 p.m. to 6 p.m. on August 3rd, Sydney Time.

The wavelength of KTAB is 240 metres.

### VICARIOUS EXERCISES.

A Melbourne station learns that a man lost ten pounds watching his wife take the morning exercises broadcast daily by the station.

**LONDON**  
*calling ! !*

THE  
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**Radio**  
EXHIBITION  
AT THE NEW HALL  
**OLYMPIA**  
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Not merely a headphone attached to a horn, but a specially designed Speaker with large diaphragm, which ensures you the same faithful reproduction and purity of tone without distortion in Speech, Song, or Music.



The "Manhattan Junior," should meet the demand of the man of modest requirements, for there is no finer Loud Speaker at the price on the market . . . . .  
(Postage: Anywhere in Australia, 2/6)

5 VALVE NEUTRODYNE KITS, Panel Drilled, complete with everything ready to build, 250 to 2,000 metres . . . . .

WINCHESTER, LARGE CAPACITY "B" BATTERIES. 22½ volts . . . . .  
45 Volts . . . . .

NEUTRON CRYSTAL. The Crystal with Valve Power" . . . . .

BAKELITE PANELS. Cut to any desired size. 3/16 inch, 3d. per square inch

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# ON THE AIR

## THE MANLY BAND.

THE Sunday services for July 11 to be broadcast by Station 2BL will consist of St. Jude's, Randwick, for the morning service, and the Chalmers Presbyterian Church in the evening. St. Jude's preacher will be Rev. Cakebread, and Chalmers Street sermon will be preached by the Rev. D. F. Brandt. In the afternoon Mr. W. "Cairo" Bradley will be resuming his talks in connection with the Bible Class, and at 3.30 a musical recital will be transmitted. The Manly Band performing in the Rialto Theatre, Manly, will be found on the programme following the evening service, and Broadcasters' Instrumental Trio, which comprises Mr. G. Vera Barnett (pianist), Miss Duleis Blair (violinist), and Mr. Bryce Carter ('celist), will be transmitting from the Studio. Mr. Leslie McCallum, baritone, will also figure on the programme, presenting a number of selected items.

## A BIG PROGRAMME.

For Monday, July 12th, an interesting programme is being submitted by Station 2BL. The early news service will commence at 7.25 a.m., and sporting and social talks will figure as part of the morning transmission, while the afternoon session will include a talk on "Philosophic Thought" by Mr. J. M. Prentice. David Jones' Tea Room Trio will be transmitted from the tea room in the famous store in George Street. The evening programme will be



*Mr. Algernon Lindo, the distinguished exponent of Beethoven, who is famous as an examiner for the Royal College of Music. Mr. Lindo has forgotten the number of times that he has gone round the world, while his books on "The Art of Accompanying" have been translated into several European languages. He possesses an inimitable fund of humour, and his talks from 2BL, illustrated by snatches played on the piano, are a delight to the listeners-in.*

supplied by Broadcasters' Minstrel Troupe, which will present a charming programme marked by a number of entirely fresh and "unhackneyed" items. The Ambassadors' Band, under the remarkably excellent direction of Mr. Al. Hammett, will be broadcast, with attractive social notes and description of frocks by the well-known social expert, Mrs. Potts. The Newtown Band also figures on this programme, and Miss Mary Neal, mezzo-soprano, will sing items from the Studio.

## DANCE TILL MIDNIGHT.

On Tuesday, July 13th, the regular features for morning and afternoon transmissions by 2BL will be continued. Social talks will form a special feature of the programme during the daylight transmission. On the evening programme, Mr. Alfred Cunningham, the favourite baritone, whose reputation continues to grow, will be one of the foremost artists, and Miss Freda Gildn, contralto, will also appear. A dance programme will be continued until midnight. The lectures will consist of an interesting talk on the subject of "The Care and Preservation of Eyesight"



Miss Eileen Crowley, a well known soprano from 2FC.



Mr. Bryson Taylor, a leading Sydney tenor, heard frequently from 2FC.

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## MAR-CO (Vernier) DIALS

Only a limited stock available



NEW REDUCED PRICE . . . . . 12/6  
Warning! (Be sure you get the genuine  
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### SUPER-HETERODYNE PARTS

"Precise" Super-Multiformer . . . . . £6/6/-  
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RADIO DEALERS will find it to their advantage to link up with the "HARRINGTONS" ORGANISATION and see us re the printing of their catalogues, leaflets and circulars at greatly reduced rates. Remember you are dealing with a House of 37 years' trading reputation. COUNTRY CLIENTS. Our excellent MAIL ORDER SERVICE is yours to command.

### CUT THIS OUT AND POST TO-DAY.

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Name .....

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The New Wonder Aerial. 50 per cent. more Volume. 84 Strands of Interwoven, non-tar-nishing Wire, in 100 ft. Reels . . . . . 12/6

### BENJAMIN VALVE SOCKETS.

Non-Microphonic.

UX Type, 5/6 each; Standard type 7/- each

### RESISTANCE-COUPLED AMPLIFICATION.

See this new line of real good products

Aerovox Resisto-formers for Resist-  
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Complete 3 stage kit of Aerovox Re-  
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Wonderful Value! ——— Quality Products.  
.00035 S.L.F. Condenser . . . . . 12/6  
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### ALL "EMMCO" PRODUCTS

#### "THOROLA,"

The Pipe Organ of Loud Speakers.  
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Adelaide . . . . . 10 Buxton Street  
Wellington, N.Z. . . . . 42 Willis St.  
Auckland, N.Z. . . . . 140 Queen St.



by the President of the Institute of Optometrists. Mr. E. Hogg, who is reputed to be a particularly brilliant speaker, will give an exposition of the principles of the Single Tax as enunciated by the late Henry George.

#### SPECIAL COUNTRY NEWS.

On Wednesday, July 14th, in addition to social talks, an interesting feature of the programme of 2BL is the Operatic Talks presented by Mr. J. M. Prentice, who will be dealing with a Wagnerian subject. This item transpires at 3.15, and at 3.45 Hillier's Orchestra, under the direction of Caryl Castling, will be broadcast, and will be featured for the remainder of the afternoon session. The special evening session devoted to country news and items of interest to dwellers in the country will be of special importance. During the evening, Mr. Richard McClelland, the well-known Scottish basso, will be heard in numbers that will display the beauty and technical quality of his voice, and the Bondi Casino will provide a particularly intriguing dance programme. The orchestra at the Bondi Casino is now under the direction of Mr. Cec Morrison, whose calibre as a producer of dance music is well known. During the evening, Mr. Frank Marshall, B.Sc., will deliver the fourth of his series of talks on Cancer, and will treat this rather morbid subject in such a manner as to hold the entire attention of his hearers. Mr. J. M. Prentice will also discuss the foreign situation and deal with matters political. At the present time Mr. Prentice is confining himself to answering written questions, and his mail threatens to become a nightmare.

#### OILS AND WATER COLOURS.

Thursday, July 15th, will see Station 2BL on the air at intervals throughout the whole day transmitting the usual items of interest to a varied number of listeners-in. During the Afternoon Session, David Jones' Tea Room Trio will be heard in selections. In the evening programme, Mr. Algernon Lindo will deliver the second of his entertaining and instructive lectures on The Art of Accompanying, and Miss Mary Edwards, the distinguished artist in oils and water colours will return to the programme with a lecture on Present Day Art. Mr. J. C. Morrell, the Deputy Commissioner of the War Service Homes Commission, will speak on War Service Homes, and Miss Florence Doogan, a new comer to 2BL's programmes and who possesses a beautiful contralto voice will also sing. The main feature of the evening will be the presentation of Mozart's Opera, "The Marriage of Figaro," under the direction of Mr. Roland Foster. It will be remembered that some little time back Mr. Foster

produced "Maritana" suitable condensed for broadcasting purposes, and "The Marriage of Figaro" will be presented on similar lines. A representative cast has been selected and are being carefully coached by Mr. Foster for the presentation of the Opera.

#### "SUN" SPORTING EXPERT FROM 2BL.

Friday, July 16th, will find 2BL transmitting special Sporting Talks and items of interest dealing with the social world. During the Afternoon Session Mr. J. M. Prentice will speak on "Modern English Poetry," and Hilliers Orchestra, under the direction of Mr. Caryl Castling, will broadcast a specially selected programme. Many letters of appreciation have been received in regard to the beautifully balanced programmes that are presented from Hillier's Cafe. During the Evening Session the Senior Sporting Expert of The Sun will discuss Racing Form and Tips, and deal with the possibilities of the next day's racing. The Round the World Travelogue is now rapidly drawing to an end, and the versatile leader of the party is concerned to bring the travellers back successfully to their native homes. Broadcasters' Brass Quartette will provide an entertaining programme of music specially composed for wind instruments and the Waikiki Troubadours will arouse many heartfelt yearnings by transmitting Hawaiian music.

#### RADIO AUCTION BRIDGE.

2FC announce a very interesting Bridge Competition which will commence from their studios, on Wednesday evening, 21st July, and carry on until the series is exhausted. The idea is, that four expert Bridge Players will play special hands from the Studio, each player calling the play. Listeners will have their parties of four ready with the hands laid out in suits, and go through the game as it is broadcast. At the conclusion of the rubber, Listeners can phone to the Studio asking questions concerning the play, which will be answered on the air. Full details of the hand that has been completed will be available to those interested each week, so that the record of the game will be available. This Bridge broadcast is creating a tremendous lot of attention in the United States. As many as twenty-five (25) different broadcasting stations have linked up together for simultaneous transmission, and 2FC has secured the sole rights to the idea.

#### ROYAL PHILHARMONIC SOCIETY—ON THE AIR.

Arrangements have been completed whereby listeners will have the opportunity of hearing this fine Choir in excerpts from their forthcoming production of "Aida" in the Sydney Town Hall on 21st





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# PHILIPS





Mr. John Palmer, conductor, Metropolitan Band, popular feature from 2FC.

July. These special programmes are being prepared by the Society, and will be broadcast from Farmer's Concert Hall on Tuesday evenings, 13th and 20th July next.

#### THE "ALL BLACKS" MATCH TO BE DESCRIBED.

Farmer's Broadcasting Station has arranged to transmit, direct from the Agricultural Show Ground, a complete description of the play in the three first Test Matches of the "All Blacks" versus New South Wales on 10th, 17th, and 20th July. The reception of the "All Blacks" in the Sydney Town Hall on 7th July was also broadcast.

#### GYPSY SMITH CAMPAIGN.

Arrangements have been completed whereby Farmer's Broadcasting Station will have the exclusive transmission of the Gypsy Smith Cam-

paign commencing at the Hippodrome, Sydney, on Sunday, 18th July. It is proposed to take the evening services on this Sunday and on the following two Sundays, also the midday luncheon hour addresses from the Pitt Street Congregational Church and Sydney Town Hall.

#### TWO HUNDRED MILES LAND LINE TRANSMISSION.

Following on 2FC's policy of land line transmission from various important centres, listeners will be interested in the first broadcast in Australia from the Federal Capital Site, Canberra. Great pains have been taken to make the programme a representative one and the whole of the evening—Saturday, 17th July—will be devoted to this purpose. Chiming in at 7.30 with fan fare trumpets, a short description of Canberra to-day and in the future, will be given, and the Concert will commence at eight o'clock. Mr. Ernest Mowle, the well known musician, who was associated with the Melbourne Operatic Company, is at present training the Canberra Philharmonic Choir of sixty-five voices and an orchestra of twenty-five members, through a most ambitious programme. The items will include the "Sextette" from "Lucia," "Inflammatus," with Miss Mabel Batchelor, soprano in the solo work. "Miserere" from "Il Trovatore," with Miss Batchelor and Mr. Ernest Archer, tenor. Other Artists will include Mr. Wilfred Thomas, basso; Mr. R. Butterworth, baritone. Choral and instrumental numbers will be provided by the Philharmonic Society, and the whole programme, closing at 10.15, will be a memorable one. A special party of 2FC Artists will be taken to and from Canberra by car, a distance of five hundred miles.

#### THEATRICAL TRANSMISSIONS.

As usual, 2FC cater very extensively for listeners who desire theatrical programmes. It is hoped to transmit one act from "Silver King," with



Randwick Municipal Band.

# 199 ... 7/6 ... 201A

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Frank Harvey in the principal part. An act of the Climax from the Palace Theatre, featuring Guy Bates Post. "Merry Widow" will follow later from the Mosman Musical Society, and the "Sunshine Girl" by the Roseville Operatic Society with transmissions from "Rose Marie" later on in July.

#### MUSIC WHILE YOU WAIT.

Another novelty has been arranged by 2FC whereby they have secured the services of Mr. Jack Lumsdaine, the well known song writer, to be present in the Studio on Wednesday evening, 7th July, and over three successive Wednesdays after that date, to compose and play and sing melodies made in the 2FC Studios. Listeners will be asked to phone the Studio in the earlier part of the evening, suggesting titles of any song that they may want written. From the first six titles received, Mr. Lumsdaine will select one, and will set about writing the words and melody around this title. Mr. Lumsdaine will sing this song to listeners later on in the evening.



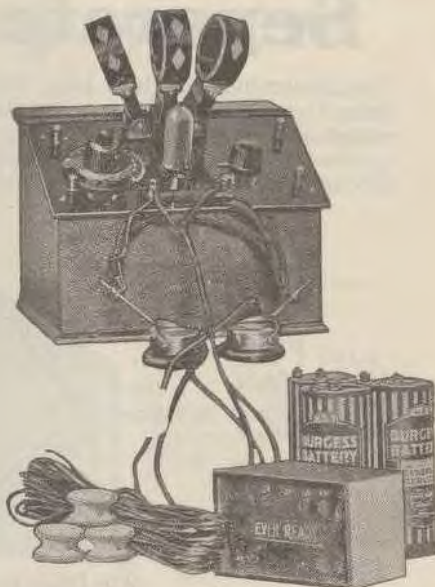
Charles Kingsley, a 2FC comedian.

#### POPULAR QUARTETTE.

The appearance of the Anglo Male Quartette Party in recent programmes broadcast from Station 4QG has drawn forth quite numerous favourable comments, not only from listeners in the Northern State, but also from enthusiasts in New South Wales and Victoria. The balance of the party is excellent and as its members will be contributing to future programmes, listeners are to have the pleasure of hearing them again.

#### RADIO MOTOR RIDES.

Uncle Ben and Uncle Jim remain very firm favourites with the kiddies at Station 4QG. On a recent evening they took a voyage to Honolulu, and



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This is an illustration of how the Menominee Straight Line Frequency Condensers separate stations. The illustration is from actual tests. The dial on the left is on the ordinary condensers and that on the right is of the Menominee Straight Line Frequency. Note how the stations are separated, thereby eliminating interference. The only variable condenser with ALL desirable features.

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Illustration of W.P.40 B Battery.

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managed to cover between four and five thousand miles during half an hour. They have lately been taking listeners on radio motor rides to various towns. Some of their effects are very, very clever.

#### FEATURE NIGHTS.

The various "feature" nights which have been organised from Station 4QG have proved very popular. So many congratulatory letters have reached the station regarding the "Scottish Night," and the "Old Time Song Night," that both these entertainments will be repeated at an early date.

#### STUDIO AT EXHIBITION.

The monster radio and electrical exhibition which is to be held in Brisbane during Show Week (August 9 to 16), is already exciting quite a good deal of interest. A committee is working very hard indeed, and it is expected that the exhibition will result in the radio movement being given a boost. One of the main, if not THE main, attraction at the Exhibition will be the studio of 4QG. This will be staged on the main stage, and the concerts held on it will be broadcast from the hall at night.

#### RADIO AND FARMERS.

The farmers continue to be well catered for from 4QG, some of the lecturettes which are included in the programmes arranged by the Council of Agriculture, being of especial value.

#### CONCERT BY 4QG ARTISTS.

A special concert by the students of Mr. and Mrs. T. Croft will be provided in the studio of 4QG on Friday, July 9th. It will be followed by a popular concert, provided by leading 4QG artists.

#### DANCE HALL TO LINK WITH 4QG.

Rumour bath it that arrangements are now being made to connect the new Crystal Palace Dance Hall by land line with station 4QG, Brisbane, for the purpose of broadcasting some of the very fine dance music played at the Hall.

#### BRISBANE CHURCH SERVICES.

The Wharf Street Congregational Church authorities have arranged special services for Sunday, July 11th, when 4QG will broadcast both the morning and evening meetings. In the afternoon of the same date, a specially good programme by the Brisbane Metropolitan Band, will be relayed from the Botanical Gardens. In the near future, a number of recitals by selected representatives of various city and suburban Roman Catholic Church choirs will be broadcast from 4QG.

Listeners have noted with pleasure, the inclusion of choral music by the Brisbane Austral Choir in 4QG's programmes. It is to be hoped that more will be broadcast at an early date.

#### THE MORDIALLOC CITY BAND AND ITS BROADCAST.

The staff of the 3AR studio have received a letter dated 20/6/26, from Mr. H. N. Keene, of Oakdale, Caringa Road, Girraween, N.S.W., in the course of which he says that he has been picking up 3AR station for some time past and desires to say how much he enjoys their programmes. He says that he gets the transmission very clearly and strongly on a 2 valve set of his own building.

After enumerating the various stations he is able to receive, which number 29, he goes on to say that: "The Mordialloc City Band was extra clear to-night and also Mrs. Hrayne and Mr. Spicer (it may be mentioned here that these two artistes were respectively soprano and bass baritone).

As Girraween is 18 miles West of Sydney and 4 miles west of Parramatta, the band and artistes concerned are assured that their efforts were appreciated far from home, and 3AR studio that their transmission is also effective.

#### PROGRAMME IN VERSE.

One of the most novel "Perfect Programmes" received by 3LO, Melbourne, was in the form of verse. It was entitled "A Friendly Suggestion from an admirer of 3LO." Here are some of its items:

Would Miss Fortune with a smiling face,  
Replay "Kamenoi Ostrow" for a fellow.  
Miss Tiernan delight us with her grace  
With the "Blind Boy" on her 'cello,  
Raymond Lambert might do his share  
With Liszt's Rhapsody through the air.

The budding poet enumerated a full programme, but in many instances his verse suffered in the process.

#### YOUTHFUL XYLOPHONIST.

In the recent 3LO-Sun Pictorial Perfect Programme Competition, many of the artists selected by the Studio had to be selected at the last moment. In some cases the items to be rendered were of a difficult nature, one programme including the difficult "Light Cavalry" Overture as a xylophone solo. The studio turned to Miss Edna Davis to solve its difficulty, and her playing was a pleasant feature of the evening's entertainment. Miss Davis will soon be appearing in 3LO, Melbourne, regular programmes. Although only 16 years of age, she is one of the finest xylophonists in Australia, and since childhood has been appearing on the Tivoli circuit and other first class theatres. Together with her seven year old sister, she provides a musical act which is up to the highest standards of vaudeville. Edna Davis is also an accomplished pianist.



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## The Broadcasting of Toti Dal Monte

THE broadcasting on Saturday, June 19th, of the famous Italian Singer was a treat for city listeners-in, many of whom had been acquainted of the last-minute arrangements which had to be made by 2FC, but the effect upon the great army of country and Interstate enthusiasts, who, tuning in casually to the Sydney station, quite unexpectedly heard the announcement regarding Toti Dal Monte. There was no time to get any newspaper announcements published outside Sydney, since arrangements were only finalised on the Friday evening. Despite this, the huge mail with which 2FC has been deluged provides a splendid indication of the extent of the circle in which are situated the regular listeners to the station. From almost every part of Australia, and from New Zealand, letters have been pouring in during the last couple of weeks, giving, in every case, unstinted praise to the excellence of the transmission.

At Clevedon, 30 miles from Auckland, Captain G. Humphreys Davies heard the broadcast perfectly. "If the lady is as charming as her voice," he writes, "the sooner we have the arrangements for transmitting scenes, the better."

"The transmission was received clearly here at loud speaker strength on a four valve set," writes a listener at Lake Yealering, 2,000 miles away in Western Australia. "The Signorina's voice came through loud and clear, and the burst of applause just previous to the last item seemed to last for nearly five minutes."

In the Observatory at Hobart, Tasmania, Mr. J. C. Foley received the transmissions perfectly. In a most interesting letter, he gives credit to 2FC, mentioning, incidentally his reception of the station during the daylight hours. A telegram from Gnowangerup, W.A., reads: "Congratulations concert broadcast received clearly and much appreciated." Listeners at St. Mary's, Westbury, East Devonport, Queenstown, King Island (all in Tasmania), all conveyed the same appreciative messages to 2FC, and a glance through their letters conveys some idea of what broadcasting means to these people. In New Zealand, at points such as Merrinsville, in the Waikato district, Chelsea and Parnell (suburbs of Auckland), regular followers of 2FC,

listened to the voice of Dal Monte and heard every word perfectly.

It would be impossible to enumerate the towns in Victoria at which the transmission was picked up and enjoyed by hundreds of people. "With great pleasure," Excellent strength and faultless modulation," "A large gathering assembled at our home had an enjoyable evening," "Got you splendidly," "A great success," "Louder than any other Australian station," "Enjoyed her beautiful singing"—these are but a few of the phrases taken from the letters of Victorian correspondents. In one case the whole of the transmission came through clearly only 2 miles from 3LO.

Queensland, of course, returns its quota of enthusiastic admirers of 2FC. From Charleville, Longreach, Charters Towers, Gladstone, Ipswich, Childers, — from dozens of outback stations and from the suburbs of Brisbane, letters of appreciation have simply poured in to 2FC. A Charters Towers listener says enthusiastically, "Per medium of 2FC we were favoured with a front seat ticket to the most glorious concert it has ever been our privilege to hear"; and another, "Saturday night will always be remembered as the radio night." Several of these Queensland letters also refer to daytime reception of 2FC and every one carries a message of thanks to the station for having arranged such a concert.

A huge pile of letters constitutes the appreciations from country listeners in New South Wales. No one could possibly set down the wonderful tributes that have been showered upon 2FC, from Wallengarra on the Queensland border to Albury in the South, and from Newcastle to Bourke. In that vast area, the transmission was heard in almost every town and hamlet. From Mullumbimby, Mr. L. P. McNaught writes: "The music and voices came through with wonderful clearness considering we are 400 miles from Sydney." 583 miles from Sydney, the Resident Engineer at Trimen, the travelling camp in connection with the Condoblin to Broken Hill railway had strong reception. Dozens on the Irrigation Area (popularly supposed to be a "dead spot"), report similar results.

So they run on—hundreds of them, all expressing their thanks and encouragement to 2FC, and affording a clear indication of the extent of the audience consistently listening in to the station.





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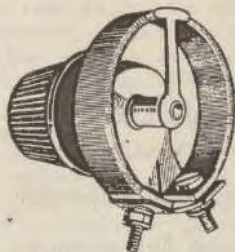
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tiometer has also a one hole fixing and both are supplied in very attractive cartons. Distributors: Manufacturers Products Sales Company.

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This is an automatic radio plug that requires no pushing of levers or other manipulation to insert or release the 'phone cord tips. It is exceedingly well constructed and very durable. The Jero Plug is constructed of the very best materials throughout. The body of the plug is solid bakelite moulded to a shape that is convenient to handle. The internal assembly is simple in the extreme and cannot get out of order. The necessity for tighten-



ing the thumbscrews or unscrewing caps in order to insert the tips of the phone cord is eliminated. Instead, the phone cord tips are merely inserted into the two holes provided for them.

When it is desired to disconnect the wires from the Jero Plug the phone cord tips are simply pulled

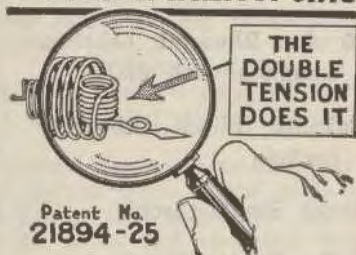
out. The automatic internal construction does all the work. The entire work of connecting and disconnecting phone wires from radio plugs is much simplified. Agents: Amalgamated Wireless (A/sia) Ltd.

## CRYSTAL CATSWHISKER.

Wiles Wonderful Wireless and Electrical Stores are offering quite a new and unique type of catswhisker, called the "Improved Crystal Catswhisker."

It is manufactured from a special material, and the unusual construction, forming a double spring, ensures an even pressure on the crystal, and prevents loss of contact, through vibration or any other annoying influences experienced on the ordinary catswhisker.

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It is moderately priced, and should be a boon to Crystal Set users.

## THE BRUNO CONDENSER.

The Bruno Condenser, handled by Murdoch's Radio Department, is well worth the perusal of all experimenters and B.C. listeners. Those short-wave fiends who complain that the trade does not cater for their needs should note that this condenser has three capacity values in the one instrument. Combinations are made up of two halves of .00025 mfd., which can be paralleled to give .0005, or one half can be used, viz., .00025, or both halves in series to give a total value of .000125. It is also particularly suitable for B.C. receivers, where two stages of tuned radio is used, as both halves are correctly matched, which enables two tuned circuits to be tuned with one dial. The large size .001 Bruno condenser is split into four equal units which may be series paralleled to give seven different capacity values.



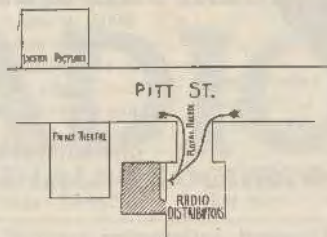
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# NOTES AND NEWS

## STATE BROADCASTING.

**T**HE State Government's scheme for a State owned and controlled radio broadcasting station is assuming definite shape. Preliminary details and inquiries were left to Mr. A. C. Willis, Vice President of the Executive Council, who, with the assistance of Mr. E. Voigt, "father" of the Trades Hall Station, 2KY, has now presented a plan, which, at a cost of £10,000 will provide a central station at Sydney with relay stations for re-broadcasting in four country centres. The towns which will have the relay stations have not yet been selected, but Newcastle, Bathurst, Dubbo, Wollongong, Goulburn, Wagga, Albury, Tamworth, Glen Innes and Lismore have been suggested.

The feeling among members of the Cabinet is that a State wireless station could render service by broadcasting, not only programmes of music and other forms of entertainment, but also lectures on health matters, and agricultural questions, information about produce market prices, employment and unemployment and similar topics. Some time must necessarily elapse before the State scheme can be in operation.

## THE CANBERRA BROADCAST.

The broadcasting, by Station 2FC, of a programme from Canberra on Saturday, July 17, will be historic as the first event of the kind from the Capital site. The Canberra Philharmonic Society will sustain the main part of the programme with the aid of a number of visiting artists, including Miss Mabel Batchelor, Mr. E. Butterworth, Mr. Wilfred Thomas, Mr. Ernest Archer, Mr. G. C. Fitzpatrick and others.

## "IT'S JUST A LITTLE THING."

Sir Joseph Carruthers, who recently sailed for Honolulu, has nothing but praise for broadcasting.

"Nothing of which I know conduces so much to break down the isolation of country life as the installation of a good Radio Set. To just turn a switch and then to find oneself listening to a church service or to a fine musical performance, or to some instructive entertainment, means that the country home is brought into touch with the best of the outside world. It is just a little thing—this 'listening-in,' but it is a very big thing to families who thereby are made to feel that they are not shut out of the world and its doings. One need never lack an interest in life when a ready means of hearing what is going on in the world is at one's hand to be used at will. The cheapest investment I have

ever made has been for my radio set and for the license to 'listen-in.'"

The opinion is of value because the life work of Sir Joseph Carruthers, has centred round his work for the improvement of the conditions of the people who live on the land.

## BIG POWER.

The 2FC New Alternators, of which there are two are 60,000 watts, or in electrical terms, 75,000 volt-amperes. These generators are directly coupled to two 100 H.P. motors. In addition to this plant, there is installed for auxiliary purposes, a 75 B.H.P. internal combustion engine which is installed in case of a break-down of power supply, thus ensuring a continuous service. This available energy from these generators is much in excess of any other broadcasting in Australia, either present or contemplated. The 400 ft. mast is the highest used for Broadcasting purposes in Australia, and the second highest of any Broadcasting station in the world.

## STINGIEST MAN.

Without attempting to prove whether it be true or not, a correspondent passes along the following story:

"A certain Mosman Scotchman, who shall be nameless, recently won a crystal set in a contest. Starting Monday night he held 2BL until it signed off, and did so for each succeeding night. According to witnesses, he didn't take off the headphones while a 2BL programme was on the air until the following Sunday morning during the broadcast church service—and, only then when he heard the 'r-r-rattle of the contr-r-eebution box.'"

## IN REAL LIFE.

### 3LO ARTISTS' CONCERT.

When some of the most prominent artists from the Studio of 3LO, Melbourne, gave a public concert at the Melbourne Auditorium on Saturday, June 26th, the press and public were unanimous in their appreciation. The novelty and excellence of the programme appealed to a large audience and those who listened in were delighted with the fine transmission. The microphone was placed conspicuously on the stage and the proceedings were carried on just as if the artists were in the studio, Mr. Alfred Andrew making the announcements in the customary manner.

"It was a happy meeting, equally enjoyed by the artists apparently as by the audience. Reality surpasses imagination, and if a singer possesses a



Final  
Week

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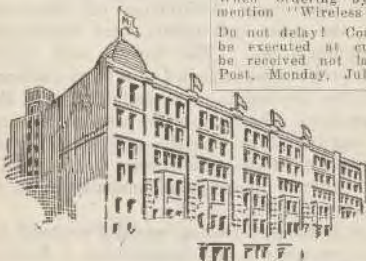
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# MURDOCHS

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"Specialists in all Radio Equipment."

pleasant personality, if he pleases the eye as well as the ear, then the appeal is much greater than that of golden notes surrounded by mystery coming out of the ether," said the Melbourne morning paper.

Most delighted of all the onlookers were the children, both young and old who had come to welcome "Little Miss Kookaburra" (Miss Hazel Maude), and "Mary Gumleaf" (Miss Beatrice Ternan), both of whom were given the most generous applause of the evening.

Other artists included the Collingwood Citizens' Band, Lawson Graham, The Orpheon Male Choir, Reginald Bradley, Mary Mack, J. Harcourt Bailey, Ross Reaco. The Orpheon Choristers and the Studio Orchestra, which was also highly appreciated in a manner which would confound its occasional critics.

### THE "WIRELESS WEEKLY" REFLEX.

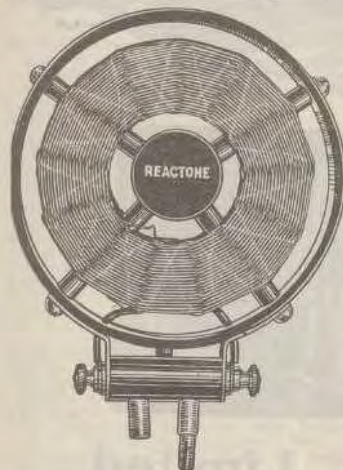
No one valve circuit ever published in "Wireless Weekly" has aroused more interest than the Reflex described on May 28th. So numerous have been the requests for hack copies (which have all been sold out) and so many people are anxious to obtain the particulars, that we have decided to deal with this popular receiver from a new angle at an early date.

### A DISTANT TIME-PIECE.

From earliest prehistoric days, mankind has been able to tell the time by some means or other. The Sun, Moon and Stars soon gave some indication of the passing of the hours. Hour glasses, chronometers, Big Buns, and "Boyproofs" have all played their part, but to Mr. Bearup, Studio Manager of 3LO, Melbourne, falls the distinction of having set his watch by the most novel means. Recently he had to catch an early train to Ballarat in order to arrange for a transmission from that centre. Waking in the morning he was dismayed to find that his watch had stopped. An inspection showed that all other time-pieces in the house were out of order. There was no clock in the immediate vicinity, and Mr. Bearup was beginning to wonder whether he had time to catch his train, or whether it had already gone. Realising that five minutes either way did not matter much he put on his headphones and tuned in the big Bordeaux station. From there he picked up the time signal, and by allowing for the 10 hours approximate difference between Australian time, was able to set his watch. He caught his train in good time—obtained from 13,000 miles away.

Gypsy Smith, the evangelist, will be broadcast by Station 2FC from his Hippodrome meetings on Sunday evenings, July 18, 26 and August 1. His talk to business men at 1 p.m. on July 19 will also be broadcast.

## Reactone Low Loss Coils



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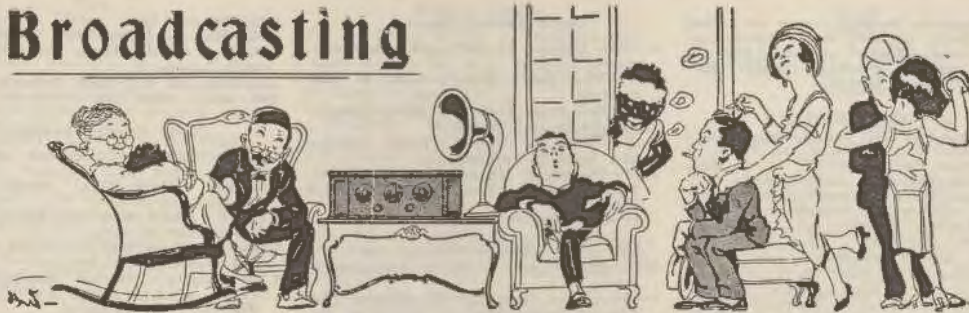


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# Broadcasting



## 2FC

FARMER'S BROADCASTING SERVICE.

Call Sign: 2FC. Wave Length: 1100 Metres.  
Power: 5 Kilowatts.

### FRIDAY, JULY 9.

#### Morning Session.

- 6—The Chimes of 2FC and Announcement of Crick Scores, 2nd Day's play, Australia versus Worcester. These scores will be repeated at 9 and 10 a.m.  
10—The Chimes of 2FC and Announcements.  
10.10—Weather Information, Commercial News, Shipping Intelligence, Market and News Session.  
11—Progress Cricket Talk  
11.5—Cables.  
11.5—Cooking Talk and Recipes by Miss Ruth Furst.  
11.30—Close down.

#### Midday Session.

- 12.50—The Chimes of 2FC and Announcements.  
12.35—Morning Call Stock Exchange.  
12.40—Musical Items,  
1—Time Signals.  
1.3—"Evening News" News Service, Weather Information, Commercial News, Musical Items.  
1.30—Noon Call Stock Exchange, Musical Items.  
2—Close down.

#### Afternoon Session.

- 3—The Chimes of 2FC and Announcements; A Recital of New Records supplied by the H.M.V. Company.  
3.40—From the Tea Rooms—Miss Alice Pomroy, soprano.  
3.45—Oak Hall Trio.  
3.55—Musical Items from the Studio.  
4—From the Tea Rooms: Mr. Guy Floy, baritone.  
4.5—Oak Hall Trio.  
4.15—Musical Items.  
4.20—From the Tea Rooms: Miss Alice Pomroy, soprano.  
4.25—Oak Hall Trio.  
4.35—Music from the Studio.  
4.40—From the Tea Rooms: Mr. Guy Floy, baritone.  
4.44—Afternoon Call Stock Exchange.  
4.45—Close down, Note: Polo Results at regular intervals.

#### Early Evening Session.

- 6—The Chimes of 2FC and Announcements.  
6.5—The "Hello Man" talks to the Children.  
6.35—Vocal Recital by the Juvenile pupils of Madame Ada Baker.  
6.45—Broadcast from the Oak Dining Hall: (a) Instrumental Trio, (b) Miss Barbara Briscoe, contralto, (c) Instrumental Trio.  
7.15—"Evening News" News Service, and Sporting Information.  
7.30—Dalgaty's Market Reports (wool, wheat, stock), fruit and vegetable market.  
7.35—Talk on next week's Film Releases.  
7.40—Close down.

#### Night Session.

- 7.50—The Chimes of 2FC and Announcements.  
7.55—Broadcast from Her Majesty's Theatre, Sydney (by courtesy of Messrs. J. C. Williamson). The first act of the Musical Comedy "Rose Marie." Scene: Lady Jane's Hotel, Fond du Lac, Saskatchewan, Canada, Musical Numbers, Introduction. 2. Song "Rose Marie," Jim and Malone; 3. Song "The M'anties," Malone and Chorus; 5. Song, "Luk Jee," Rose Marie and Chorus; 6. Vuet, "Indian Love Call," Rose Marie and Jim; 7. Song "Pretty Things," Rose Marie and Chorus; 8. Ballet Eccentric, Herman and Chorus; 9. Duet, "Why Shouldn't I," Lady Jane and Herman; 10. Totem Tom Tom, Wander and Chorus.  
9.50—From the Studio—Miss Susanne Ennis, contralto.  
10 M. Jack Lumsdaine, Songs at the piano.  
10.8—Miss Susanne Ennis, contralto.  
10.10—Mr. Jack Lumsdaine—Songs at the piano.  
10.25—Broadcast from the Wentworth Hotel, Sydney—Wentworth Cafe Dance Orchestra, under the baton of Mr. Sydney Simpson.  
11—National Anthem—Close down.

## SATURDAY, JULY 10.

#### Early Morning Session.

- 7—The Chimes of 2FC and Announcements.  
7.5—Musical Items.  
7.10—"Sydney Morning Herald" News Service.  
7.30—Musical Items.  
8—Close down.

#### Morning Session.

- 9—Time Signals and Announcements.  
9.5—Musical Items from the Studio.  
10.10—Weather Information, Commercial News, Shipping Intelligence, Market and News Session.  
11—Cables.  
11.5—Progress Cricket Talk.  
11.15—Gardening Talk.  
11.30—Close down.

#### Midday Session.

- 12.55—The Chimes of 2FC and Announcements.  
1—Time Signals.  
1.3—"Evening News" News Service, Weather Information, Commercial News.  
1.20—Musical Items. Close down.

#### Afternoon Session.

- 2.55—The Chimes of 2FC and Announcements.  
3—Broadcast from the Agricultural Show Ground, a complete description of the play between the All Blacks versus N.S.W. Rugby Union Football. During the interval, Race Results, musical items will be given. Broadcast at regular intervals, the results of the Dudley Cup Polo Match, played at Kensington Race Course—Final Test Play will be transmitted during the day.  
4.30—Complete resume of the afternoon's sporting events. Musical Items.  
5—Close down.

#### Early Evening Session.

- 6—The Chimes of 2FC and Announcements.  
6.5—The "Hello Man" talks to the Children.  
6.45—Broadcast from the Hotel Australia: Orchestral Items.  
7.15—"Evening News" News Service and Sporting Information.  
7.40—Close down.

#### Night Session.

- 7.55—The Chimes of 2FC and Announcements.  
8—Broadcast from the N.S.W. Conservatorium of Music, the last of the Chappell Ballad Concerts by arrangement with Chappell and Co. Ltd. Mr. A. E. Y. Benham, the well-known basso will make his first appearance since his return from New Zealand.  
9—From the Studio—Mr. H. K. Palmer, late Secretary of the Essex Cricket Club, will forecast the result of the 3rd Test Match, which commenced to-day.  
9.10—From the Conservatorium Hall, Part 2 of the Chappell Ballad Concert.  
10—From the Studio—Result of the 3rd Test Match by means of Farmer & Co.'s special Cricket Cable Service.  
10.5—2FC Dance Band—Conductor, Mr. E. Pearce.  
10.20—Announcements.  
10.25—The 2FC Dance Band will play until 11.15 p.m.  
11.15—Broadcast from the Studio—The result of the 3rd Test Match till luncheon adjournment.  
11.20—Broadcast from the Wentworth Cafe—Wentworth Cafe Dance Orchestra, under the baton of Mr. Sydney Simpson.  
12—National Anthem—Close down.

## SUNDAY, JULY 11.

#### Morning Session.

- 7—The Chimes of 2FC and Announcements.  
7.5—Cricket Scores—Drawing of Stumps at the 3rd Test Match, England versus Australia—played at Leeds. These scores will be repeated at 8, 9, and 10 a.m.  
10.55—The Chimes of 2FC and Announcements.  
11—Broadcast from the Lyceum Hall, Mirning Service, by the Central Methodist Mission.  
12.15—From the Studio: News Session.  
12.30—Close down.

#### Afternoon Session.

- 2.30—The Chimes of 2FC and Announcements. Broadcast from the Petersham Congregational Church, Vocal, Instrumental and Choral Items by the combined Church Choir, arranged by Mr. Christian Hellmann.  
3.45—Broadcast from the Marrickville Town Hall, Items from the concert in aid of the Marrickville Hospital, supplied by Marrickville Symphony Orchestra.  
Selection: "The Bohemian Girl" (Baffe), Marrickville Symphony Orchestra; cornet duet: "The Twin Brothers" (Bonnisseau), soloists, Messrs. R. Saiton and P. Mills; soprano song: "In Love" (Loher), Miss Alice Pomroy; overture: "Queen of Autumn" (Blige), Marrick-

BURGESS—"They're on the Leviathan"—BATTERIES



villa Symphony Orchestra; concert solo: "Sing Me to Sleep" (Greene), Mr. R. Sutton; contralto song: "Yonder" (Olivet), Miss D. Flood; overture: "Stradella" (Flotow), Marcella Symphony Orchestra.

5.—Close down.

#### Night Session.

6.—The Chimes of 2FC and Announcements.  
6.5.—Combined Talk on Music and Poetry by Miss Jessie Perkin, and Mr. L. C. Mote, assisted by Miss Edith Martin—soprano.  
1. Poem: "The Highwayman" (Noyes); solo: "Love went Ariding" (Bridge); 2. Poem: "The Wreckers" (Wright); solo: "Sea-Wreck" (Stanford); 3. Poem: "When Icicles hang by the Wall" (Shakespeare); solo: "When Icicles hang by the Wall" (Parsy); 4. Poem: "Marguerite at the Spinning Wheel" (Faust); solo: "Marguerite at the Spinning Wheel" (Schubert); 5. Poem: "Irish Cradle Song" (de la Mare); solo: "Wish Lullaby" (Parsy). The aim of the recital is to reveal the essential unity underlying the two great vehicles of thought and emotion—Music and Literature.

6.45.—Broadcast from the Pitt Street Congregational Church—Organ Recital by Miss Lillian Frost.

7.—Evening Service—Proseur, Rev. T. E. Ruth.  
8.30.—Broadcast from the Grand Opera House: Band Concert by the N.S.W. Military Band.

10.—National Anthem. Close down.

### MONDAY, JULY 12.

#### Early Morning Session.

7.—The Chimes of 2FC and Announcements.  
7.5.—Musical Items from the Studio.  
7.10.—"Sydney Morning Herald" News Service.  
7.30.—Musical Items from the Studio.  
8.—Close down.

#### Morning Session.

9.—The Chimes of 2FC and Announcements.  
9.5.—Cricket Scores.  
9.10.—Musical Items from the Studio.  
10.—Weather Information, Commercial News, Shipping Intelligence, Market and News.  
11.—Progress Cricket Talk.  
11.5.—Cables.  
11.15.—Musical Items from the Studio.  
11.30.—Close down.

#### Midday Session.

12.—The Chimes of 2FC and Announcements.  
12.5.—Musical Items from the Studio.  
12.30.—Morning Call Stock Exchange.  
12.35.—Musical Items from the Studio.  
1.—Time Signals.  
1.3.—"Evening News" News Service, Weather Information, Commercial News, Musical Items.  
1.20.—Musical Items.  
1.30.—Noon Call Stock Exchange.  
1.35.—Musical Items.  
2.—Close Down.

#### Afternoon Session.

2.30.—The Chimes of 2FC and Announcements.  
2.35.—Broadcast from the Crystal Palace, Items by the orchestra conducted by Mr. Harry Stone.  
3.30.—Oak Hall Trio.  
3.40.—From the Tea Rooms: Miss Avie Garth, mezzo: "I Love the Moon" (Rubens).  
3.45.—Oak Hall Trio.  
3.55.—Musical Items from the Studio.  
4.—From the Tea Rooms—Miss Dorothy Ross, contralto: "Ship of my Dreams."  
4.5.—Oak Hall Trio.  
4.15.—Musical Items from the Studio.  
4.20.—From the Tea Rooms: Miss Avie Garth, mezzo: "Come to the Fair" (Murnin).  
4.25.—Oak Hall Trio.  
4.35.—Musical Items from the Studio.  
4.40.—From the Tea Rooms—Miss Dorothy Ross, contralto: "Still as the Night" (Hoban).  
4.44.—Afternoon Call Stock Exchange.  
4.45.—Musical Items from the Studio.  
5.—Close down.

#### Early Evening Session.

6.—The Chimes of 2FC and Announcements.  
6.5.—The "Hello Man" talks to the children.  
6.45.—Broadcast from the Hotel Australia: Orchestral Items.  
7.15.—"Evening News" News Service and Sporting Information.  
7.30.—Dalgety's Market Reports (wool, wheat, stock), Fruit and Vegetable Markets.  
7.40.—Close down.

#### Night Session.

7.55.—The Chimes of 2FC and Announcements.  
8.—Broadcast from the Haymarket Theatre, Sydney: Operatic Orchestra, under the baton of Mr. Stanley Porter.  
8.40.—From the Studio—Miss Grace Savieri, comedienne.  
8.45.—Australian Abroad, Talk by S. H. Bowden on Some Old London Taverns, including "Ye Old Cheshire Cheese."  
9.2.—Miss Luciline Hammond—soprano.  
9.10.—Broadcast from the Haymarket Theatre, Vocal Act.  
9.25.—From the Studio: Mr. Tom Foggett, novelty dance pianist. "Kitten on the Keys."  
9.30.—Miss Grace Savieri, comedienne.  
9.35.—Miss Luciline Hammond, soprano.  
9.40.—From the Studio: Novelty Band pianist: (a) "I'm Gonna Get Loose"; (b) "Let's Talk about my Sweetie" (Donaldson).  
10.—2FC Dance Band. Conductor: Mr. Eric Pearce.  
11.15.—Broadcast from the Wentworth Hotel, Sydney—Wentworth Cafe Dance Orchestra, under the baton of Mr. Sydney Simpson.  
12.—National Anthem—Close down.

### TUESDAY, JULY 13.

#### Early Morning Session.

7.—The Chimes of 2FC and Announcements.  
7.5.—Cricket Scores—2nd Day's Play at 3rd Test played at Leeds. These scores will be repeated at 8, 9 and 10 a.m.  
7.10.—"Sydney Morning Herald" News Service.  
7.30.—Musical Items from the Studio.  
8.—Close down.

#### Morning Session.

9.—The Chimes of 2FC and Announcements.  
9.5.—Cricket Scores.  
9.10.—Musical Items from the Studio.  
10.—Weather Information, Commercial News, Shipping Intelligence, Market and News session.  
11.—Progress Cricket Talk.  
11.5.—Cables.  
11.15.—Looking Talk and Recipes by Miss Ruth Purst.  
11.30.—Close down.

#### Midday Session.

12.—The Chimes of 2FC and Announcements.  
12.5.—Musical Items from the Studio.  
12.30.—Morning Call Stock Exchange.  
12.35.—Musical Items from the Studio.  
1.—Time Signals.  
1.3.—"Evening News" News Service, Weather Information, Commercial News, Musical Items.  
1.20.—Noon Call Stock Exchange. Musical Items.  
2.—Close down.

#### Afternoon Session.

2.30.—The Chimes of 2FC and Announcements.  
2.35.—Piano Recital by the pupils of Mrs. Stewart Doyle.  
3.30.—Oak Hall Trio.  
3.40.—From the Tea Rooms—Miss Gladys Briggs, contralto: "Evening" (O'Connor).  
3.45.—Oak Hall Trio.  
3.55.—Musical Items from the Studio.  
4.—From the Tea Rooms: Miss Jeann Slap-ofski, soprano.  
4.5.—Oak Hall Trio.  
4.15.—Musical Items from the Studio.  
4.20.—From the Tea Rooms, Miss Gladys Briggs, contralto: "When Song is Sweet" (Sax Sound).

4.25.—Oak Hall Trio.  
4.15.—Musical Items from the Studio.  
4.40.—From the Tea Room, Miss Jeann Slap-ofski, soprano.  
4.44.—Afternoon Call Stock Exchange.  
4.45.—Musical Items from the Studio.  
5.—Close down.

#### Early Evening Session.

6.—The Chimes of 2FC and Announcements.  
6.5.—The "Hello Man" talks to the children.  
6.45.—Broadcast from the Hotel Australia: Orchestral Items.  
7.15.—"Evening News" News Service and Sporting Information.  
7.30.—Dalgety's Market Reports (wool, wheat, stock), Fruit and Vegetable Markets (Close down).  
7.40.—Popular Psychology Lecture by B. C. Doug. No. 4, "How to Measure Emotion."

#### Night Session.

7.55.—The Chimes of 2FC and Announcements.  
8.—From the Studio—The N.S.W. Fire Brigade Band will play a programme of music, conductor: Mr. J. Pheloung.  
8.20.—Excerpts from Verdi's Opera "Aida," by the N.S.W. Philharmonic Society, conducted by Joseph Bradley.  
8.55.—A short talk in French by Mlle. Marie-Louise, a young professor of French who speaks on behalf of the Alliance Francaise.  
9.10.—N.S.W. Fire Brigade's Band.  
9.25.—Mr. Oliver King, basso.  
9.35.—N.S.W. Fire Brigade's Band.  
9.45.—Mr. Lionel Lawson, violin solo.  
9.53.—Miss Phyllis Gibbs, mezzo.  
10.—N.S.W. Fire Brigade's Band.  
10.20.—Mr. Oliver King, basso.  
10.28.—Mr. Lionel Lawson, violin solo.  
10.35.—Miss Phyllis Gibbs, mezzo.  
10.44.—Broadcast from the Wentworth Hotel, Sydney—Wentworth Cafe Dance Orchestra, under the baton of Mr. Sydney Simpson.  
12.—National Anthem—Close down.

### WEDNESDAY, JULY 14.

#### Early Morning Session.

7.—The Chimes of 2FC and Announcements.  
7.5.—Cricket Scores—3rd Day's Play at the 3rd Test Match played at Leeds. These scores will be repeated at 8, 9, and 10 a.m.  
7.10.—"Sydney Morning Herald" News Service.  
7.30.—Musical Items from the Studio.  
8.—Cricket Scores—Close down.

#### Morning Session.

9.—The Chimes of 2FC and Announcements.  
9.5.—Cricket Scores.  
9.10.—Musical Items from the Studio.  
10.10.—Weather Information, Commercial News, Shipping Intelligence, Market and News Session.  
11.—Progress Cricket Talk.  
11.5.—Cables.  
11.15.—Cooking Talk and Recipes by Miss Ruth Purst.  
11.30.—Close down.

#### Midday Session.

12.—The Chimes of 2FC and Announcements.  
12.5.—Musical Items from the Studio.  
12.30.—Morning Call Stock Exchange.  
12.35.—Morning Call Stock Exchange.  
12.40.—Musical Items.  
1.—Time Signals.  
1.3.—"Evening News" News Service, Weather Information, Commercial News, Musical Items.  
1.20.—Noon Call Stock Exchange. Musical Items.  
2.—Close down.

#### Afternoon Session.

2.30.—The Chimes of 2FC and Announcements.  
2.35.—Recital by the Elocution pupils of Mr. Harry Thomas.  
3.50.—Oak Hall Trio.  
3.40.—From the Tea Rooms: Miss Muriel Humphries contralto.



- 3.45—Oak Hall Trio.  
 3.56—Musical Items from the Studio.  
 4.—From the Tea Rooms—Miss Katherine Beverley, soprano: "I Heard You Singing."  
 4.3—A Dickens Reading by Mr. A. S. Cochrane.  
 4.15—Musical Items from the Studio.  
 4.20—From the Tea Rooms: Miss Muriel Humphries, contralto.  
 4.25—Oak Hall Trio.  
 4.35—Musical Items from the Studio.  
 4.40—From the Tea Rooms, Miss Katherine Beverley, soprano: "Love Makes the Sun-  
 -shine" (Neal).  
 4.4—Afternoon Call Stock Exchange.  
 4.45—Musical Items from the Studio.  
 NOTE. During the afternoon scores will be given of the match between All Blacks v. N.S.W. Rugby Union Football League played on University Oval.  
 5—Close down.

## Early Evening Session.

- 6—The Chimes of 2FC and Announcements.  
 6.5—The "Hello Man" talks to the children.  
 6.45—Broadcast from the Hotel Australia: Orchestral Items.  
 7.15—"Evening News" News Service and Sporting Information.  
 7.30—Daigety's Market Reports (wool, wheat, stock), Fruit and Vegetable Markets.  
 7.40—A Talk by Mr. E. J. Van-de-Velde on the Photographic Competition.

## Night Session.

- 7.56—The Chimes of 2FC and Announcements.  
 8—Broadcast from Adyar Hall: Items from the concert by the British Musical Society.  
 9—From the Studio—Mr. Jack Lumsdaine, songs at the piano: (a) "It's up to You (Kumang); (b) "Spring is Here."  
 9.8—Mr. Laurence Halbert—baritone.  
 9.10—William Dallison, tenor.  
 9.25—Talk by the Mystery Film Girl, prior to her tour of Australasia. She is touring the world incognito, and will present a selection from her own production of Scenes, Songs and Story of Great Britain and Ireland, including "An Old Fashioned Town," "Kerry Dance" and "Your England and Mine."  
 9.38—Mr. Laurence Halbert, baritone.  
 9.45—Mr. William Dallison, tenor.  
 9.54—Mr. Jack Lumsdaine—the well-known song writer will play and sing the songs written by him in the Studio this evening, to the titles supplied during the earlier part of the evening by listeners who have "phoned the Studio. Mr. Jack Lumsdaine will choose from the first six subjects the title round which he writes words and music of a popular song.  
 10.5—2FC Dance Band—Mr. Eric Pearse—Conductor.  
 11.15—Broadcast from the Westworth Hotel, Sydney—Westworth Cafe Dance Orchestra, under the baton of Mr. Sydney Simpson.  
 12—National Anthem—Close down.

## THURSDAY, JULY 15.

## Early Morning Session.

- 7—The Chimes of 2FC and Announcements.  
 7.5—Cricket Scores—1st Day's Play—Australia Versus Lancashire, at Liverpool, these scores will be repeated at 8, 9, and 10 a.m.  
 7.10—"Sydney Morning Herald" News Service.  
 7.15—Musical Items from the Studio.  
 8—Cricket Scores—Close down.

## Morning Session.

- 9—The Chimes of 2FC and Announcements.  
 9.5—Cricket Scores.  
 9.10—Musical Items from the Studio.  
 10.10—Weather Information, Commercial News, Shipping Intelligence, Market and News Session.  
 11—Progress Cricket Talk.  
 11.5—Cables.  
 11.15—Musical Items from the Studio.  
 11.30—Close down.

## Midday Session.

- 12—The Chimes of 2FC and Announcements.  
 12.4—Musical Items from the Studio.  
 12.30—Morning Call Stock Exchange.  
 12.35—Musical Items from the Studio.  
 1.—Time Signals.  
 1.3—"Evening News" News Service, Weather Information, Commercial News, Musical Items.  
 1.40—Noon Call Stock Exchange. Musical Items.  
 2—Close down.

## Afternoon Session.

- 2.30—The Chimes of 2FC and Announcements.  
 2.35—Organ Recital by the pupils of Miss Lilian Frost, from the Pitt Street Congregational Church.  
 3.30—Oak Hall Trio.  
 3.40—From the Tea Rooms, Miss Aida Hayward, contralto: "Homing" (Del Riego).  
 3.45—Oak Hall Trio.  
 3.55—Musical Items from the Studio.  
 4—From the Tea Rooms—Mr. Peerce McKeand—baritone: "Nirvana" (Adams).  
 4.5—Musical Items.  
 4.20—From the Tea Rooms—Miss Alois Hayward, contralto: "Take Heart till Spring" (Hudson).  
 4.25—Oak Hall Trio.  
 4.35—Musical Items from the Studio.  
 4.40—From the Tea Rooms: Mr. Peerce McKeand—baritone: "Who Knows" (Ball).  
 4.44—Afternoon (All) Stock Exchange.  
 4.45—Musical Items from the Studio.  
 5—Close Down.

## Early Evening Session.

- 6—The Chimes of 2FC and Announcements.  
 6.5—The "Hello Man" talks to the children.  
 6.45—Broadcast from the Hotel Australia: Orchestral Items.  
 7.15—"Evening News" News Service and Sporting Information.  
 7.30—Daigety's Market Reports (wool, wheat, stock), Fruit and Vegetable Markets.  
 7.40—Mr. Walter Hunt—Talk on Hamlet, one of the subjects set down by the Department of Education this year.

## Night Session.

- 7.55—The Chimes of 2FC and Announcements.  
 8—Broadcast from the Protestant Hall, North Sydney. Concert programme supplied by the Later Day Saints. 1. Violin solo, Selected, Mr. Karl Druegar; 2. Musical monologues: "Crazy and Gay," Miss Ethel Lang and Mr. Brunton Gibb; 3. Vocal solo—"Bavaria" (Kundis and Paley), Miss May Croft; 4. Humour: "Humorous Interlude," Mr. Reg. Sergeant; 5. Hawaiian Instrumentalists: "Cems of Hawaii," The Waikiki Troubadours; 6. Vocal solo: "The Yeoman of England" (German), Mr. H. Darcy Wearne; 7. Character study: "The Denominational Garden" (Rice), Mr. Brunton Gibb; 8. Vocal solo: "Gentle Bird of the Morn" (Gounod), Miss Elsie Peardless.  
 9.10—From the Studio—Mr. Walter Hunt and Miss Eve Warburton in One Act Drama.  
 9.40—Broadcast from the Protestant Hall, further items from the concert, Vocal solo—"The Little Damsel" (Novello), Miss Elsie Peardless.  
 9.48—Humorous Sketch: "The Vicar's Presentation" (Squier); Mr. Brunton Gibb.  
 9.56—Vocal solo: "Spring the Fiddler" (Dauner), Miss May Croft.  
 10.2—Comedy Sketch: "Desperate Remedies" (Burke), Miss Ethel Lang and Mr. Brunton Gibb.  
 10.8—Violin solo, selected, Mr. Karl Druegar.  
 10.16—Humorous: "More Humour," Mr. Reg. Sergeant.  
 10.30—Broadcast from the Westworth Cafe—Westworth Cafe Dance Orchestra, under the baton of Mr. Sydney Simpson.  
 12—Close down.

## 2BL

BROADCASTER (SYDNEY) LTD.  
 Call Sign, 2BL. Wavelength, 353 metres.

## FRIDAY, JULY 9.

- 7.25—Morning News, Cricket, etc., until 8 a.m. Morning Session.  
 News, Sporting Talk, Music, Share Market, Sussex Street Sales, Talks for Women, Racing Information, etc., until 2 p.m.

## Afternoon Session.

- 9—G.P.O. Clock and Chimes; Weather Report and Social Notes from the "Sun."  
 9.15—Music from the Studio.  
 9.30—Mr. J. M. Prentice will speak on Modern English Poetry.  
 9.35—Hillier's Orchestra, under the direction of Caryl Castling.  
 4—G.P.O. Clock and Chimes; Music from the Studio.  
 4.30—G.P.O. Clock and Chimes; Serial Story entitled The Seventh Hunch.  
 4.45—Music from the Studio.  
 5—G.P.O. Clock and Chimes; the "Sun" News Service.  
 5.15—G.P.O. Clock and Chimes. Close down.

## Early Evening Session.

- 6—G.P.O. Clock and Chimes; Sporting Resume from the "Sun" Newspapers; the pupils of Miss Monica Scully will entertain the kiddies.  
 6.45—Broadcasters' Dinner Orchestra.  
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land and Finance Co.  
 7.50—Close down.

## Evening Session.

- 8—G.P.O. Clock and Chimes; The Gloom-chasers under the direction of Mr. Cec. Morrison; Mr. Clem Williams, baritone; Mr. Jack Wright, jazz pianist; Mr. Stanley Cartlett, tenor; Miss Hilda Lane; Resume of Following Day's Programme; Weather Report and Forecast by courtesy of Mr. C. J. Mares, Govt. Meteorologist; Announcements; Senior Sporting Expert of the "Sun" Newspapers will speak on The Prospects of To-morrow's Races; Round the World Traveller, by Mr. J. M. Prentice; "Sun" News Reports; National Anthem.

## SATURDAY, JULY 10.

- 7.25—Morning News, Cricket, etc., until 8 a.m.

## Morning Session.

- News, Sporting Talk, Music, Share Market, Sussex Street Sales, Talks for Women, Racing Information, etc., until 2 p.m.

## Afternoon Session.

- 2—G.P.O. Clock and Chimes; Special Sporting Information broadcast direct from "Sun" Office.  
 5.15—G.P.O. Clock and Chimes. Close down.

## Early Evening Session.

- 6—G.P.O. Clock and Chimes. Pavilion Dinner Orchestra, under the direction of Mr. Cec. Morrison.  
 6.30—Sporting Resume from "Sun" Newspapers; Uncle Jack and the Kiddies.  
 7—A Talk to the Kiddies by Brings.  
 7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land and Finance Co.

## Evening Session.

- 8—G.P.O. Clock and Chimes; Encore Theatre Symphony Orchestra; Mr. Lane, Joffe, tenor; Mr. D. G. Stead will talk on Timber Trees and their uses; Mr. Russell Philips, cornet solo; Resume of following day's pro-



gramme; Announcements; Mr. and Mrs. Sid. Owen. Musical novelties; Mr. E. F. MacPherson will talk on Gold Mining—Future Possibilities; Mr. Rep. Harrison, comedian; "Sun" News Reports; Al. Hammett and the Ambassadors Dance Orchestra, broadcast from the Ballroom of the Ambassadors until midnight; Close down.

### SUNDAY, JULY 11.

10.55—Special Cricket Session.  
11—St. Jude's, Randwick.

#### Afternoon Session.

3.30—Bible Class, conducted by Mr. W. "Cairo" Bradley.  
4—Organ Recital broadcast from Chalmers St. Presbyterian Church.  
7.15—Chalmers Street Presbyterian Church.  
6.30—Manly Municipal Band, broadcast from Hislop Theatre, Manly; Mr. Leslie McCallum, baritone; Resume of following day's programme; Weather Report and Forecast by courtesy of Mr. C. J. Meares, Govt. Meteorologist; Broadcasters' Trio; National Anthem.

### MONDAY, JULY 12.

7.25—Morning News, Cricket, etc., until 8 a.m. Morning Session.  
News, Sporting Talk, Music, Share Market, Sussex Street Sales, Talks for Women, Racing Information, etc., until 2 p.m.  
9—G.P.O. Clock and Chimes; Weather Report and Social Notes from "The Sun."  
9.15—David Jones' Tea Room Trio.  
9.30—G.P.O. Clock and Chimes; Philosophic Talk, by Mr. J. M. Pringle.  
9.45—Music from the Studio.  
9.55—G.P.O. Clock and Chimes; David Jones' Tea Room Trio.  
4.15—Music from the Studio.  
4.30—G.P.O. Clock and Chimes; Serial Story entitled "The Seventh Hunch."  
4.45—Music from the Studio.  
4.55—Late Market Reports from The Sun.  
5—G.P.O. Clock and Chimes; Sun News Service.  
5.15—G.P.O. Clock and Chimes; Close down.

#### Early Evening Session.

6—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.  
6.30—Sporting Resume from Sun Newspapers; Uncle George and the Kiddies.  
7.30—"What's On," a guide to the visitors and citizens of Sydney.  
7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.  
7.50—Close down.

#### Evening Session.

8—G.P.O. Clock and Chimes; Broadcasters Minstrel Troupe; Al. Hammett and the Ambassadors Dance Band, broadcast from the Ballroom of the Ambassadors; During the intervals between dances there will be Social Notes and a description of frocks by Mrs. Poole; Close Down.

### TUESDAY, JULY 13.

7.25—Morning News, Cricket, etc., until 8 a.m. Morning Session.  
News, Sporting Talk, Music, Share Market, Sussex Street Sales, Talks for Women, Racing Information, etc., until 2 p.m.  
Afternoon Session.  
3—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.  
3.15—Music from the Studio.  
3.30—G.P.O. Clock and Chimes.  
3.45—Music from the Studio.  
4—G.P.O. Clock and Chimes; Music from the Studio.  
4.30—G.P.O. Clock and Chimes; Serial Story entitled "The Seventh Hunch."  
4.45—Music from the Studio.  
4.55—Late Market Reports from The Sun.

5—G.P.O. Clock and Chimes; Sun News Service.  
5.15—G.P.O. Clock and Chimes; Close down.

#### Early Evening Session.

6—G.P.O. Clock and Chimes; Sporting Resume from "Sun" Newspapers; Uncle Jack and the Kiddies.  
6.45—Broadcasters' Dinner Orchestra.  
7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.  
7.50—Close down.

#### Evening Session.

8—G.P.O. Clock and Chimes; Concert from Studio including the following artists: Mr. Alfred Cunningham of the Westminster Glee Singers, Miss Freda Gilda.

### WEDNESDAY, JULY 14.

7.25—Morning News, Cricket, etc., until 8 a.m. Morning Session.  
News, Sporting Talk, Music, Share Market, Sussex Street Sales, Talks for Women, Racing Information, etc., until 2 p.m.

#### Afternoon Session.

3—G.P.O. Clock and Chimes; Weather Report and Social Notes from The Sun.  
3.15—Broadcasters' Trio.  
3.30—G.P.O. Clock and Chimes; Special Operatic Talk by Mr. J. M. Pringle.  
4—G.P.O. Clock and Chimes; Broadcasters' Trio.  
4.30—G.P.O. Clock and Chimes; Serial Story entitled "The Seventh Hunch."  
4.45—Broadcasters' Trio.  
4.55—Late Market Reports from The Sun.  
5—G.P.O. Clock and Chimes; Sun News Service.  
5.15—G.P.O. Clock and Chimes; Close down.

#### Early Evening Session.

5—G.P.O. Clock and Chimes; Pavilion Dinner Orchestra under the direction of Mr. Cec. Morrison.  
6.30—Sporting Resume from Sun Newspapers; Uncle George and Uncle Jack with the Kiddies.  
7.45—Late Stock, Hides and Market Reports by courtesy of Australian Mercantile Land & Finance Company.  
7.50—Close down.

8—G.P.O. Clock and Chimes; City of Sydney Band; Social Concert, by Mr. Richard McClelland; Cec. Morrison and the Glom-chasers, broadcast from the Bondi Casino until Midnight.

### THURSDAY, JULY 15.

7.25—Morning News, Cricket, etc., until 8 a.m. Morning Session.  
News, Sporting Talk, Music, Share Market, Sussex Street Sales, Talks for Women, Racing Information, etc., until 2 p.m.

#### Afternoon Session.

3—G.P.O. Clock and Chimes; Weather Report and Social Notes from "The Sun."  
3.15—David Jones' Tea Room Trio.  
3.30—Music from the Studio.  
3.45—G.P.O. Clock and Chimes; David Jones' Tea Room Trio.  
4.15—Music from the Studio.  
4.30—Serial Story entitled "The Seventh Hunch."  
4.45—Music from the Studio.  
4.55—Late Market Reports from "The Sun."  
5—G.P.O. Clock and Chimes; "Sun" News Service.  
5.15—G.P.O. Clock and Chimes; Close down.

#### Early Evening Session.

6—G.P.O. Clock and Chimes; Sporting Resume from "Sun" Newspapers; Uncle Jack and the Kiddies.  
6.45—Broadcasters' Dinner Orchestra.  
7.30—Mr. J. G. Morrell will speak on War Service Homes.  
7.45—Australian Mercantile Land & Finance Co. Ltd. Stock Report.  
7.50—Close down.

#### Evening Session.

8—G.P.O. Clock and Chimes; "Marriage of Figaro" (Mozart), under the direction of Mr. Roland Foster.

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BURGIN ELECTRIC COMPANY LTD.  
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6.30 to 7.30—Mealtime Music, consisting of vocal and orchestral items.  
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2BE will be glad to get into touch with artists willing to give their services to this station.

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## 5CL

#### CENTRAL BROADCASTERS LTD.

Call Sign, 5CL, Wavelength, 395 metres, Input, 5 K.W.

### FRIDAY, JULY 9.

Morning Session (11.30 a.m. to 2 p.m.)

11.30—G.P.O. Chimes.  
11.31—Featuring a Stock Duo Art number.  
12—G.P.O. Chimes.  
11.40—"Advertiser" News Service.  
12—G.P.O. Chimes.  
12.1—News and Cable Service.  
12.16—Featuring a Stock Duo Art number; The 5CL Studio Orchestra novelties; waltz; Instrumental Trio; selection; cornet solo; fox trot; suite; item; finale.  
1—G.P.O. Chimes.  
1.1—Relay from Adelaide Town Hall, Community Singing.  
1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcement.  
2—G.P.O. Chimes.

#### Afternoon Session (3 to 5).

3—G.P.O. Chimes.  
3.1—Relay from Maple Leaf Cafe; Orchestral numbers.  
3.45—Broadcast from Studio; Serial Story.  
4—G.P.O. Chimes.  
4.1—Broadcast from Arcadia Cafe; Orchestral numbers.  
4.55—Stock Exchange Reports, General Information and Station Announcements.  
5—G.P.O. Chimes.

#### Evening Session (6.30 to 10.30).

6.30—G.P.O. Chimes.  
6.31—Bedtime Stories for the Children.  
7.50—Stock Exchange, Market Reports and Station Announcements.  
7.40—Sporting Talk by "Old Times."  
8—G.P.O. Chimes.  
8.1—The Mercymakers in a programme of popular musical numbers. Vocal numbers by Miss Marjorie Walsh, Mr. James Riley and The South Plympton Glee Club.  
10.15—Advertiser News Service, International Cricket and General Information.  
10.30—Studio Concert Continued.  
11—G.P.O. Chimes.  
11.1—Station Announcements.  
11.2—National Anthem, Close down.



**SATURDAY, JULY 10.**

**Morning Session.**

- 10.30—G.P.O. Chimes.
- 10.31—The 5CL Studio Orchestra will play: Overture; violin solo; fox trot; suite; waltz; cornet solo; selection; novette; finale.
- 11.45—Station Announcements.

**Afternoon Session.**

- 1—Relay from Harecourse, a running description of the Racing of the Adelaide Hunt Club, at Port Adelaide.
- Results of S. Australia and Interstate League Football and all other sporting information.

**Evening Session.**

- 6.30—G.P.O. Chimes.
- 6.31—Bedtime Stories for the Children.
- 7.30—Racing Resume; Football Results and General Sporting Information.
- 8—G.P.O. Chimes.
- Relay from the Studio: Musical Items by Miss Dorothy Scott, Miss Isabel Penny, Mr. H. Bauerchse and Mr. A. Lyke.
- Relay from the Palais Royal, Tom Swift's Embassy Band in a special Dance Programme.
- 10.15—Advertiser News Service, International Cricket and General Information.
- 10.30—Relay from Palais Royal.
- 11—G.P.O. Chimes.
- 11.1—Station Announcements; National Anthem; Close down.

**SUNDAY, JULY 11.**

**Morning Session:**

- 11—Relay from the Parkside Baptist Church, Divine Service. Preacher, Rev. Tuok, B.A.

**Afternoon Session.**

- 3—Relay from the Adelaide Town Hall, A Grand Organ Recital by Dr. Knox, L.L.C.M. (City Organist).
- 4 (approx.)—From the Studio—An Afternoon with Brahms.

**Evening Session:**

- 6.30—G.P.O. Chimes.
- 6.31—Sunday Story for the Children by Uncle Radio.
- 7—Relay from St. Bartholomew's Church, Divine Service.
- 8.20—From the Studio. A programme of Classical, Vocal and Instrumental Numbers. Station Announcements; National Anthem.

**MONDAY, JULY 12.**

**Morning Session (11.30 a.m. to 2 p.m.)**

- 11.30—G.P.O. Chimes.
- 11.31—Featuring a Steek Duo Art number.
- 12—G.P.O. Chimes.
- 12.1—News and Cable Service.
- 12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play: Selection; Cello solo; fox trot; oriental; Dance Passion; cornet solo; suite; reverie; finale.
- 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence and Official Weather Synopsis and Station Announcements.
- 2—G.P.O. Chimes.

**Afternoon Session. (3 to 5).**

- 3—G.P.O. Chimes.
- 3.1—Relay from Maple Leaf Cafe: Orchestral numbers.
- 3.45—Broadcast from Studio: Serial Story.
- 4—G.P.O. Chimes.
- 4.1—Broadcast from Arcadia Cafe: Orchestral numbers.
- 4.55—Stock Exchange Reports, General Information and Station Announcements.
- 5—G.P.O. Chimes.

**Evening Session (6.30 to 10.30).**

- 6.30—G.P.O. Chimes.
- 6.31—Bedtime Stories for the Children.
- 7.40—Dentistry Talk by Mr. Dungey.
- 7.50—"The History of Leather," given by Mr. J. Alexander.

- 8—G.P.O. Chimes.
- 8.1—The Havannah Synopators in a programme of Dance Music with Vocal Numbers by Miss Marie Coghill (violinist), Miss Grace Sussan and Mr. Mostyn Skinner and Mr. Broadland-Rook.
- 8.20—"Twinkler's Boys' Club; The Havannah Synopators Continued.
- 11—G.P.O. Chimes.
- 11.1—Station Announcements.
- 11.2—National Anthem, Close down.

**TUESDAY, JULY 13.**

**Morning Session (11.30 a.m. to 2 p.m.)**

- 11.30—G.P.O. Chimes.
- 11.31—Featuring a Steek Duo Art number.
- 12—G.P.O. Chimes.
- 12.1—News and Cable Service.
- 12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play: Overture; violin solo; fox trot; venetian reverie; suite; waltz; cornet solo; finale.
- 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis and Station Announcements.
- 2—G.P.O. Chimes.

**Afternoon Session. (3 to 5).**

- 3—G.P.O. Chimes.
- 3.1—Relay from Maple Leaf Cafe: Orchestral Numbers.
- 3.45—Broadcast from Studio: Serial Story.
- 4—G.P.O. Chimes.
- 4.1—Broadcast from Arcadia Cafe: Orchestral Numbers.
- 4.55—Stock Exchange Reports, General Information and Station Announcements.
- 5—G.P.O. Chimes.

**Evening Session (6.30 to 10.30).**

- 6.30—G.P.O. Chimes.
- 6.31—Bedtime Stories.
- 7.30—Stock Exchange, Market Reports and Station Announcements.
- 7.40—Milling Talk, by Mr. Jackott.
- 8—G.P.O. Chimes.
- 8.1—Cadenza Quartette in a programme of popular musical numbers. Vocal numbers by Miss Gwen Winwood and Miss Viola Johns, Mr. H. W. Durdin and Mr. Ken Hughes.
- 10.15—Advertiser News Service, International Cricket Scores.
- 10.30—Studio Concert, Continued.
- 11—G.P.O. Chimes.
- 11.1—Station Announcements; Close down.

**WEDNESDAY, JULY 14.**

**Morning Session (11.30 a.m. to 2 p.m.)**

- 11.30—G.P.O. Chimes.
- 11.31—Steek Duo Art and Aeolian Vocalion Recitals.
- 12—G.P.O. Chimes.
- 12.1—News and Cable Service.
- 12.16—Featuring a Steek Duo Art number; 5CL Studio Orchestra will play: Selection; cornet; fox trot; Song of Supplication; novette; violin solo; selection; waltz; finale.
- 1.55—S. C. Ward & Co.'s Stock Exchange Intelligence, Official Weather Synopsis, and Station Announcements.

**Afternoon Session. (3 to 5).**

- 3—G.P.O. Chimes.
- 3.1—Broadcast from Maple Leaf Cafe: Orchestral Numbers.
- 3.45—Serial Story from the Studio.
- 4—G.P.O. Chimes.
- 4.1—Relay from Arcadia Cafe: Orchestral numbers.
- 4.55—Stock Exchange Reports, General Information and Station Announcements.
- 5—G.P.O. Chimes.

**Evening Session (6.30 to 10.30).**

- 6.30—G.P.O. Chimes.

- 6.31—Featuring Steek Duo Art Numbers.
- 7.30—Stock Exchange; Market Reports; Station Announcements.
- 7.40—Boy Scouts Corner.
- 8—G.P.O. Chimes.
- 8.1—Relay from the Palais Royal. A programme of Dance Music played by Tom Swift's Embassy Band. Vocal Numbers from the Studio by Miss Linda Whittle, Miss Linda Wald, Mr. Vincent McMurray and Mr. Malcolm Jones.
- 10.15—Advertiser News Service; International Cricket Scores.
- 10.30—Relay from the Palais Royal, continued.
- 11—G.P.O. Chimes.
- 11.1—Station Announcements; Close down.

**7ZL**

**HOBERT.**

Wave Length, 535 metres. Temporary Power, 250 watts.

**FRIDAY, JULY 9.**

**Morning Session.**

- 11—"The Mercury" News, Stock Market, Shipping, Commercial Intelligence, Weather Information, Records from the Studio.
- 12—Time Signal.

**Afternoon Session.**

- 3—Musical Items from the Studio; Weather Forecasts.
- 3.30—Hobart Stock Exchange Quotations.
- 4—Time Signal.

**Early Evening Session.**

- 7—Children's Corner by "Big Brother."

**Evening Session.**

- 8—"The Mercury" Special Tasmanian News Service; Railway Auction Produce Sales; Weather Information.
- 8.5—Hobart Stock Exchange Quotations.
- 8.10—Weekly Gardening Chat by Mr. G. Nation.
- 8.20—"Sports Budget," supplied by Mr. T. W. Newton, of Hobart Sports Depot.
- 8.30—Concert from the Studio under the direction of Miss Ruby Plesse.
- 9.50—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements; National Anthem.

**SATURDAY, JULY 10.**

**Morning Session.**

- 11—"The Mercury" News, Stock Market; Shipping, Commercial Intelligence; Weather Information and Sporting Anticipations; Records from the Studio.
- 11.45—Hobart Stock Exchange Quotations.
- 12—Time Signal.

**Early Evening Session.**

- 7—The Children's Corner by "Big Brother."

**Evening Session.**

- 8—"The Mercury" special Tasmanian News Service; Railway Auction Produce Sales; Weather Information and Sporting Results.
- 8.5—Hobart Stock Exchange Quotations.
- 8.10—"Come to Tasmania Movement," by J. R. Johnston.
- 8.20—Palais de Dance Band, City Hall.
- 9.50—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements. Close down.

**SUNDAY, JULY 11.**

- 7—Service from St. David's Cathedral, Hobart; preacher, the Dean.

- 8.45—Concert from the Studio. Miss Amy Butterworth, pianist; Miss Mauryceen Jones, soprano; Mr. Ralph Lyons, baritone; Mr. J. Blight, saw soloist; Mr. G. T. Lowe, tenor.
- 9.45—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements. National Anthem.

**MONDAY, JULY 12.**

**Morning Session.**

- 11—"The Mercury" News; Stock Market; Shipping; Commercial Intelligence; Weather In-



formation; Records from the Studio.  
12—Time Signal.

Afternoon Session.

3—Musical Items from the Studio; Weather Information.  
3.30—Hobart Stock Exchange Quotations.  
4—Time Signal.

Early Evening Session.

7—Children's Corner by "Big Brother."  
Evening Session.  
9—"The Mercury" Special Tasmanian News Service; Railway Auction Produce Sales; Weather Forecasts.  
9.5—Hobart Stock Exchange Quotations.  
8.10—Mr. G. Atherton Hughes: Raw Materials—their relation to industry.  
8.30—Miss Dorothy Newton, contralto; Miss Doreen Glover, mezzo-contralto; Miss Elsie Lampkin, soprano; Miss Gretta Wilson, soprano; Miss Beryl Scattine, soprano; Miss Amy Butterworth, pianist; Mr. George Muir, tenor; Mr. Ralph Lyons, baritone; Mr. de la Bere, bass.  
9.50—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements. National Anthem.

TUESDAY, JULY 13.

Morning Session.

11—"The Mercury" News; Stock Market; Shipping; Commercial Intelligence; Weather Information; Records from the Studio.  
12—Time Signal.

Afternoon Session.

5—Musical Items from the Studio; Weather Information.  
3.35—Hobart Stock Exchange Quotations.  
4—Time Signal.

Early Evening Session.

7—Children's Corner by "Big Brother."  
7.15—"The Adventures of George the Bookshelf Cat," "George has his whiskers whingled," by Aunt Stella.

Evening Session.

8—"The Mercury" Special Tasmanian News Service; Railway Auction Produce Sales; Weather Information.  
8.5—Hobart Stock Exchange Quotations.  
8.10—Literary Lapses and Library Lists, by Mr. W. E. Fuller.  
8.30—Musical Items from the Studio; special request numbers.  
9—Photographic Talk by Mr. Ch. H. Sims, of Kodak Ltd, Hobart; Toning and Fixing of Gaslight and Bromide Prints.  
9.20—Musical Items from the Studio; special request numbers.  
9.50—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements. National Anthem.

WEDNESDAY, JULY 14.

Morning Session.

11—"The Mercury" News; Stock Market; Shipping; Commercial Intelligence; Weather Information and Sporting Anticipations. Records from the Studio.  
12—Time Signal.

Afternoon Session.

3—Musical Items from the Studio; Weather Information. Story from "Illustrated Tasmanian Mail."  
3.30—Hobart Stock Exchange Quotations.  
4—Time Signal.

Early Evening Session.

7—Children's Corner by "Big Brother."  
7.15—Story from "Illustrated Tasmanian Mail."

Evening Session.

8—"The Mercury" Special Tasmanian News

Service; Railway Auction Produce Sales; Weather Information and Sporting Results.  
8.5—Hobart Stock Exchange Quotations.  
8.15—Palais de Danco Band, City Hall.  
9.50—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements. Close down.

THURSDAY, JULY 15.

Morning Session.

11—"The Mercury" News; Stock Market; Shipping; Commercial Intelligence; Weather Information; Records from the Studio.  
12—Time Signal.

Afternoon Session.

3—Musical Items from the Studio; Weather Information.  
3.30—Hobart Stock Exchange Quotations.  
4—Time Signal.

Early Evening Session.

7—Children's Corner by "Big Brother."  
7.15—"The Adventures of George, the Bookshelf Cat," "George Entertains a Parrot," by Aunt Stella.

Evening Session.

8—"The Mercury" Special Tasmanian News Service; Railway Auction Produce Sales; Weather Information.  
8.5—Hobart Stock Exchange Quotations.  
8.10—Selections from Jones' T.X.L.

Band; conductor, Mr. L. M. Barnett.  
9—Physical Culture Talk by Mr. George Collis.  
9.15—Jones' T.X.L. Band.  
9.50—"The Mercury" Special Interstate News Service; Weather Synopsis; Station Announcements. National Anthem.

40G

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FRIDAY, JULY 9.

Midday Session.

12.55—Tune-in.  
12.58—Time Signal.  
1—Market Reports, Stock Exchange, Weather, "The Daily Mail" News, The "Daily Standard" News.  
1.20—Close down.

Afternoon Session.

1.30—A Musical Programme from the Studio.  
1.45—"The Telegraph" News.  
4.30—Close Down.

Early Evening Session.

6.25—Tune-in.  
6.30—The Children's Session. Stories by "The Sandman."



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7.—The Farmers' Session; Market Reports; Lectures—Irrigation Potentials in Queensland, by Mr. A. Partridge (Commissioner of Irrigation and Water Supply).  
7.20—"The Telegraph" News.  
7.30—Close Down.

## Night Session.

7.45—Lecture Session.  
Special Students' Concert. The first portion of to-night's programme will comprise a concert provided by the Students of Mr. and Mrs. T. Croft, Brunswick Street, Brisbane.

8.50—Weather Information officially supplied by the Commonwealth Weather Bureau. Week-End Road Information for Motorists, supplied by the Royal Automobile Club of Queensland; Announcements.

9.—Studio Entertainment. Baritone solo, Mr. A. N. Falk; contralto solo, Mrs. Charles Willey; pianoforte solo, Miss Ethel Woolmer; soprano solo, Miss Ruth Portrate; violin, Mr. H. Scott MacCallum; mezzo contralto solo, Miss Margaret Lloyd; baritone solo, Mr. A. N. Falk; Aeolian Vocalian selection; tenor solo, Mr. J. Tresize; cornet solo, Mr. W. H. Davis; soprano solo, Miss Ruth Portrate; cornet solo, Mr. W. H. Davis; contralto solo, Mrs. Charles Willey; violin solo, Mr. H. Scott MacCallum; baritone solo, Mr. N. Brown; tenor solo, Mr. J. Tresize.

9.30.—From the Tivoli Theatre: By courtesy of the Directors of Haymarket Theatres Ltd., half an hour's music by the Tivoli Operatic Orchestra, under the baton of Mr. C. Groves, will be relayed from the Tivoli Theatre.

10.—From the Studio: "The Daily Mail" news service. Close down.

## SATURDAY, JULY 10.

## Afternoon Session.

3.25—Tune-in.

3.30—A Matinee Entertainment for Little Listeners.

4.30—Close down.

## Early Evening Session.

6.25—Tune-in.

6.30—The Children's Session; Bedtime Stories by "Uncle Ben," assisted by "Mabel Sunshine."

7.15—Sporting News.

7.30—Close Down.

## Night Session.

7.45—Lecture Session—A Sporting Talk, by Rugby League Officials.

8.—Studio Concert, Lennon's Ballroom. Vocal duet, Mrs. Robt. Bell and Miss Ruth Portrate; baritone solo, Mr. J. Morgan; Hawaiian Instrumentalists in native numbers, the Kalua Trio; tenor solo, Mr. E. Ungerer; vocal duet, Mrs. Robt. Bell and Miss Ruth Portrate; soprano solo, Mrs. S. B. Harris; Hawaiian Instrumentalists, the Kalua Trio; baritone solo, Mr. J. Morgan; vocal duet, Miss Mae King and Miss Nance King; musical monologue, Miss Eileen McLennan; baritone solo, Mr. J. Caldwell; Hawaiian Instrumentalists, the Kalua Trio; tenor solo, Mr. E. Ungerer.

9.50—Weather Information officially supplied by the Commonwealth Weather Bureau.

9.55—Announcements.

9.—From Lennon's Ballroom: By courtesy of the Proprietors of Lennon's Hotel, ten minutes of dance music by Miss May Dobbyn's Vice-Regal Orchestra will be relayed from Lennon's Ballroom.

From the Studio—Soprano solo, Miss Nance King; baritone solo, Mr. J. Caldwell.

From Lennon's Ballroom—Ten Minutes Dance Music.

From the Studio—Soprano solo, Mrs. S. B. Harris.

From Lennon's Ballroom—Ten Minutes Dance Music.

From the Studio—Soprano solo, Miss Nance King; Musical Monologue, Miss Eileen McLennan; Contralto solo, Miss Mae King.  
10.—From the Studio—"The Sunday Mail" News Service. Close down.

## SUNDAY, JULY 11.

## Morning Session.

The complete Morning Service will be relayed from the Wharf Street Congregational Church.

10.45—Tune-in.

10.50—Morning Service; Close down.

## Afternoon Session.

The Concert provided by the Metropolitan Band in the Botanical Gardens will be relayed.

3.10—Tune-in.

3.15—Band Concert.

4.30—Close down.

## Night Session.

The complete Evening Service will be relayed from the Wharf Street Congregational Church.

6.55—Tune-in.

7.—Organ Overture; Children's Bedtime Story. Rev. Percival Watson.  
7.30—Evening Service. Preacher: Rev. Percival Watson, B.A.

At the conclusion of the Service the Band Concert provided by the Greater Brisbane Municipal Concert Band (under the leadership of Mr. E. Jackson) will be relayed from the Wickham Park Bandstand.  
9.30—Close down.

(Continued on Page 48.)

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## FRIDAY, JULY 9.

## Midday Session.

12.—Time Signal. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. British Official Wireless News from Rugby. Reuter and the Australian Press Association Cables. "Argus" and "Herald" News Services. Shipping Intelligence. 12.45—Stock Exchange Information. 12.50—Meteorological information. Weather Forecasts for Victoria, Tasmania, South Australia, and N.S.W. Ocean forecast. River Reports.

1.—Time Signal.

1.1—Studio Orchestra.

1.10—D. F. McGregor, bass baritone.

1.17—Ross Russo, Siffleur.

1.24—Studio Orchestra.

1.34—D. F. McGregor, bass baritone.

1.41—Ross Russo, Siffleur.

1.48—Walter Smith, cornet.

1.55—Studio Orchestra.

2.—Close down.

2.40—Public Schools Football—Geelong Grammar versus Scotch. "The Captain," Quarter-speak on The Team; The Ground, The Crowd; Weather Conditions; Topical Remarks.

## Afternoon Session.

3.—Studio Orchestra.

3.10—Public Schools Football—Geelong Grammar versus Scotch. "The Captain," Quarter-speak on The Team; The Ground, The Crowd; Weather Conditions; Topical Remarks. The scores.

3.15—Miss Frances Fraser, St. Francis and Dante.

3.20—Studio Orchestra.

3.27—An Fart, at Messrs. Buckley & Nunn Ltd.,—Fashion Talk.

3.50—Ernest G. Oram and the Tivoli Orchestra—Second half of the Tivoli Programme, trans-

mitted from the Tivoli Theatre, by permission of Musgroves Ltd.

4.50—Public Schools Football. Geelong Grammar versus Scotch. "The Captain," Story of the play; Best players; Final Scores.

4.55—"Herald" News Service; Latest Australian Cricket Eleven Scores, by courtesy of Reuters Ltd.; Stock Exchange Information.

5.—Close down.

## Evening Session.

5.45—Children's Hour. Answers to letters and birthday greetings.

6.—Stories by Billy Bunny; Little's Fairy Story. The Lost Princess; Black Beauty.

6.40—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" and "Herald" News Service. Reuters and the Australian Press Association Cables.

6.55—Weather Synopsis. Shipping Movements.

6.57—Stock Exchange information.

7.2—Fish Market Reports by J. R. Borrett Ltd.

7.4—Market Reports by the Victorian Producers' Co-operative Co. Ltd. Hay-maker Sales. Poultry, grain, chaff, hay, straw, jute, dairy produce, potatoes and onions.

## Night Session.

7.20—Under the auspices of the Agricultural Department—Mr. J. T. Ramsay, Potato Expert—Potato Growing, Seed Selection.

7.40—Presenting the Author, Producer, and Actor of "White Cargo," Mr. Leon Gordon, now appearing at the King's Theatre, Melbourne. He will speak to you from his dressing room.

8.—Collingwood Citizens' Band, Conductor F. G. Johnson.

8.10—The Captain—School Life and School Sport.

8.30—Collingwood Citizens' Band.

8.40—D. F. McGregor, bass baritone.

8.47—Collingwood Citizens' Band.

8.52—Hedley & Bartlett, comedy musicians.

8.57—Lawson Graham, tenor.

9.4—Mr. Leslie Bunning: The Winter Kitchen Garden.

9.24—Road Information, supplied by the Royal Automobile Club of Victoria.

9.30—Organ Recital by Dr. Floyd, Organist, St. Paul's Cathedral, transmitted from the Cathedral.

10.—Latest Australian Eleven Scores, by courtesy of Reuters Ltd.; "Herald" and "Argus" News Service.

10.10—Collingwood Citizens' Band.

10.20—Hedley & Bartlett, comedy musicians.

10.27—Lawson Graham, tenor.

10.34—Meteorological Information; Announcements, etc.

10.39—D. F. McGregor, bass baritone.

10.45—Collingwood Citizens' Band.

11—God Save the King.

## SATURDAY, JULY 10.

## Morning Session.

11.—Sonora Recital.

11.7—Harold Rodgers, pianoforte.

11.17—Hedley and Bartlett, comedy musicians.

11.27—Sonora Recital.

11.34—Harold Rodgers, pianoforte.

11.44—Hedley and Bartlett, comedy musicians.

11.54—Sonora Recital.

12.—Time Signal. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. British Official Wireless News from Rugby. Reuters and the Australian Press Association Cables. "Argus" and "Herald" News Services. Shipping Intelligence.

12.45—Stock Exchange information.

12.50—Meteorological information. Weather Forecast for Victoria, Tasmania, South Australia, and N.S.W. Ocean Forecast. River Reports.



## SUNDAY, JULY 11.

## Morning Session.

- 1—Time Signal.  
 1.1—Studio Orchestra.  
 1.10—Roy Warren, bass.  
 1.17—Walter Smith, cornet.  
 1.21—Studio Orchestra.  
 1.35—Dorothy Roxburgh, viola solo.  
 1.40—Roy Warren, bass.  
 1.47—Studio Orchestra.  
 2—Close down.  
 Result of Lawn Handicap will be given at 1 p.m. Result of Bouita Gails Hurdle will be given at 1.35.  
 2.35—Result of Trial Hurdle.

## Afternoon Session.

- 3—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
 3.1—Jazzolians Dance Band.  
 3.15—Result of Grand National Steeple.  
 3.16—Jazzolians Dance Band.  
 3.50—Result of Footscray Steeplechase.  
 3.51—Jazzolians Dance Band.  
 4.30—Result of July Handicap.  
 4.31—Jazzolians Dance Band.  
 4.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Herald" news service. Stock Exchange information. Sporting results.  
 5—Close down.

## Evening Session.

- 5.45—Sporting Results.  
 5—Children's Hour; Mary Gumleaf; Poems: In the Fashion, Moonland or Dreamland. Story for the littlest ones: The Three Bears. Songs by the Wattle Girl and Mary Gumleaf. Scottish fairy story: Habitrot.  
 6.40—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" and "Herald" News Services. Sporting Results. Reuters and the Australian Press Association Cables.  
 6.53—Weather Synopsis; Shipping Movements.  
 6.57—Stock Exchange Information.  
 7.2—Fish Market Reports by J. R. Borrett Ltd.  
 7.4—River Reports.  
 7.6—Market Reports by the Victorian Producers' Co-operative Co. Ltd.: Grain, chaff, hay, straw, jute, dairy produce, potatoes and onions.

## Night Session.

- 7.20—Mr. R. Rawson; Esperanto news from here, there, and everywhere.  
 7.40—Dr. Leach; Nests of Birds.  
 7.45—Victorian Railways Institute. Concert, transmitted from the Institute. Musical Society Chorus. Trio; Mrs. L. Roberts, Messrs. W. Davey and G. Nutting.  
 8.12—Madams Gregor Wood.  
 8.22—Miss Gertrude Carruthers, violin.  
 8.34—Musical Society (ladies' voices).  
 8.44—Mr. Gregor Wood.  
 8.54—Miss Louie Dunn, recitation.  
 9.2—Musical Society, part song.  
 From the Studio:  
 British Official Wireless News from Rugby. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
 9.17—Musical Society Chorus.  
 9.25—Madame Gregor Wood, soprano.  
 9.34—Miss Gertrude Carruthers, violin.  
 9.44—Musical Society (male voices).  
 9.53—Mr. Gregor Wood.  
 10.4—Miss Louie Dunn, recitation.  
 10.14—Mr. and Madame Gregor Wood, duet.  
 10.24—Musical Society, part song.  
 10.30—"Argus" news service. Meteorological information. Sporting results: Races, Football, Metropolitan Soccer League, Metropolitan Amateur Association. Lacrosse. God Save the King.

- 10.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
 10.55—Express Train Information.  
 1.1—Service from Scots Church, Collins Street, Melbourne, conducted by the Rev. W. Borland, D.D.; organist, Mr. Mansley Greer.  
 12.15—British Official Wireless News. Latest Australian Cricket Eleven Scores, by courtesy of Reuters Ltd.

## Afternoon Session.

- 2.50—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
 3—Pleasant Sunday Afternoon Service, Central Mission Wesley Church, conducted by Rev. J. H. Cain.  
 4.30—Latest Australian Cricket Eleven Scores, by courtesy of Reuters Ltd.

## Evening Session.

- 5.45—Children's Hour. Answers to letters and birthday greetings. Songs by Billy Bunny and his Brer Rabbits. Stories: Mimosa, Loveliest Life, Hide and Seek.

## Night Session.

- 6.55—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
 7—Service from St. Paul's Cathedral, Melbourne; Evensong (Choral), choir of men's voices only.  
 8.40—Collingwood Citizens Band.  
 8.45—Gilbert and Sullivan Quartette Party.  
 8.50—Gordon Ramsey, tenor.  
 8.54—Collingwood Citizens' Band.  
 9.4—Frank Tarrant and Edward Beachcroft, duet.  
 9.8—J. Robinson, cornet solo.  
 9.12—Norman Hilford.  
 9.17—Gilbert and Sullivan Quartette Party.  
 9.22—Thomas Broderick, tenor.  
 9.26—Collingwood Citizens Band.  
 9.36—John Byrne, bass.  
 9.40—Gordon Ramsey and Vernon Robertson, duet.  
 9.44—Collingwood Citizens' Band.  
 9.54—A. Penrou, tenor.  
 10.1—Gilbert and Sullivan Quartette Party.  
 10.8—"Argus" news service. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
 10.15—God Save the King.

## MONDAY, JULY 12.

## Midday Session.

- 12 Noon—Time Signal. Latest Australian Cricket Eleven Scores, by courtesy of Reuters Ltd. British Official Wireless News from Rugby. Reuters and the Australian Press Association Cables. "Argus" and "Herald" news services. Shipping Intelligence.  
 12.45—Stock Exchange Intelligence.  
 12.50—Meteorological Information. Weather Forecasts for Victoria, Tasmania, South Australia and New South Wales. Ocean Forecast. River Reports.  
 1—Time Signal.  
 1.1—Studio Orchestra.  
 1.10—Gwen Humphrey, soprano.  
 1.17—Studio Orchestra.  
 1.24—Gwen Humphrey, soprano.  
 1.30—Community Singing, by the Students of the University of Melbourne, transmitted from the Club House, University Grounds, Carlton.  
 2—Close down.

## Afternoon Session.

- 3—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
 3.1—Studio Orchestra.  
 3.10—Mr. J. R. Locke; Travel and Ad-

- venture during Sojourn in Persia.  
 3.25—Dan Collins, tenor.  
 3.32—Studio Orchestra.  
 3.42—W. Caffrey, ten minutes of Irish humour.  
 3.52—Redley and Bartlett, comedy musicians.  
 4.2—Miss Flora Poll, Supervisor of Domestic Economy, Education Department: Domestic Economy.  
 4.17—Studio Orchestra.  
 4.27—Dan Collins, tenor.  
 4.34—Redley and Bartlett, comedy musicians.  
 4.45—"Herald" News Service. Stock Exchange Information. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
 5—Close down.

## Evening Session.

- 5.45—Children's Hour. Answers to letters and birthday greetings. Little Miss Kookaburra will tell a humorous story for the little ones, The Pranks of a Tame Monkey, and will relate the story she was obliged to omit on 21st June owing to lack of time—'Crest' versus Tiger in the Jungle.  
 6.40—Latest Australian Eleven Scores, by courtesy of Reuters Ltd. "Argus" and "Herald" News Service. Reuters and the Australian Press Association Cables.  
 6.53—Weather Synopsis; Shipping Movements.  
 6.57—Stock Exchange Information.  
 7.2—Fish Market Report by J. R. Borrett Ltd.  
 7.4—River Reports.  
 7.6—Market Reports by the Victorian Producers Co-operative Co. Ltd., Haymarket Sales: Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions. Market prices of Oranges and Lemons by the Victorian Central Citrus Association Pty. Ltd.

## Night Session.

- 7.20—Under the auspices of the New Settlers' League; Mr. F. H. Dudge—Gold in the Country.  
 7.40—Under the auspices of the Department of Agriculture; Mr. E. A. Kendall, Senior Veterinary Officer—Veterinary First Aid: Wounds and Antiseptics.  
 8—Le Gassick's Quartette.  
 8.10—A Debate by Members of the Melbourne University Debating Society.  
 8.20—Le Gassick's Quartette.  
 8.40—C. Renton, comedian.  
 8.47—Archibison Hayman: The task of building St. Paul's spire.  
 8.52—Tom Masters, tenor.  
 8.59—Le Gassick's Quartette.  
 9.4—Announcements, etc.  
 9.9—Olive Painter, mezzo-soprano.  
 9.16—The H.O. whatnots in an hour's trivial entitled Preparing the Show.  
 10.16—British Official Wireless News from Rugby. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
 10.26—Tom Masters and Olive Painter, duet.  
 10.33—A little novelty from Shanghai.  
 10.41—Le Gassick's Quartette.  
 10.48—C. Renton, comedian.  
 10.55—Le Gassick's Quartette.  
 11—God Save the King.

## TUESDAY, JULY 13.

## Midday Session.

- 12 noon—Time Signal. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. British Official Wireless News from Rugby. Reuters and the Australian Press Association Cables. "Argus" and "Herald" News Services. Shipping Intelligence.  
 12.45—Stock Exchange Information.  
 12.50—Meteorological Information; Weather Forecasts for Victoria, Tasmania,



South Australia, and New South Wales; Ocean Forecast: River Reports.

- 1—Time Signal.  
1.1—Studio Orchestra.  
1.15—Leslie Beardsall, tenor.  
1.22—Walter Smith, cornet solo.  
1.29—Hedley and Bartlett, comedy musicians.  
1.35—Studio Orchestra.  
1.40—Leslie Beardsall, tenor.  
1.47—Studio Orchestra.  
1.55—Hedley and Bartlett, comedy musicians.  
2—Close down.

#### Afternoon Session.

- 3—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
3.1—Studio Orchestra.  
3.10—J. D. Patterson, tenor.  
3.17—Stanley Adams, violin.  
3.23—Lilian Crisp, soprano.  
3.30—Organ Recital, by Dr. A. E. Floyd, organist of St. Paul's Cathedral, transmitted from the Cathedral.  
4—J. D. Patterson, tenor.  
4.7—Matron Moreland: Infant Welfare.  
4.17—Stanley Adams, violin.  
4.23—Lilian Crisp, soprano.  
4.30—"Au Fait," fashion talk.  
4.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Herald" News Service. Stock Exchange Information.  
5—Close down.

#### Evening Session.

- 5.45—Children's Hour. Answers to letters and birthday greetings. Mary Gumleaf. Poems: The Piano Fairies, The Dolls' Tea Party. Story for the littlest ones: The Magic Stocking. Boys and girls: Julius Caesar, with short recitals.  
6.40—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" and "Herald" news services. Reuters and the Australian Press Association Cables.  
6.53—Weather Synopsis; Shipping Movements.  
6.58—Stock Exchange Information.  
7.2—Fish Market Reports by J. R. Borrett Ltd.  
7.4—River Reports.  
7.6—Market Reports by the Victorian Producers Co-operative Co. Ltd.: Haymarket Sheep Sales, Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

#### Night Session.

- 7.20—Dr. Paul Dana: Australia To-day.  
7.40—Under the auspices of the University Extension Board: Mr. G. F. Brown, member of the University Ext. Board—The Drama.  
8—"Leaves It to Jane," a musical comedy in two acts, transmitted from the Theatre Royal by permission of J. C. Williamson Ltd.  
9.15 (approx.)—Dr. Loftus Hills: Popular Sciences.  
9.30—Bert Howell and his Concert Orchestra, transmitted from the Victory Theatre, St. Kilda.  
10.40—"Argus" news service. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. Meteorological information. British Official Wireless News from Rugby.  
11—God Save the King.

### WEDNESDAY, JULY 14.

#### Midday Session.

- 12 noon—Time Signal. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. British Official Wireless News from Rugby. Reuters News Service. Shipping Intelligence.  
12.45—Stock Exchange information.  
12.50—Meteorological information. Weather forecasts for Victoria, Tasmania,

S.A. and N.S.W. Ocean forecast. River reports.

- 1—Time Signal.  
1.1—Le Gassick's Quartette.  
1.15—Jack O'Hagan, baritone.  
1.22—Le Cassick's Quartette.  
1.40—Jack O'Hagan, baritone.  
1.47—Le Gassick's Quartette.  
2—Close down.  
2.30—Result of Barwon Hurdle, Geelong Races.

#### Afternoon Session.

- 3—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. Result of Trial Handicap.  
3.2—Studio Orchestra.  
3.10—Miss S. V. Parker: The Romance of Great Roads.  
3.25—Dan Collins, tenor.  
3.32—Result of Carnival Handicap.  
3.33—Hedley and Bartlett, comedy musicians.  
3.40—Declaration of the Town of Preston: The City of Preston.  
4.40—Result of Geelong Brush Steeple.  
4.41—Stanley Peck: Mothercraft.  
4.50—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. Result of Goopark Welter. "Herald" News Service. Stock Exchange information.  
5—Result of Coric Handicap. Close down.

#### Evening Session.

- 5.45—Children's Hour. Bobby Bluegum will answer letters and give birthday greetings.  
6—Musical programme for children arranged by Mr. Fritz Hart.  
6.40—Latest Australian Cricket Eleven Scores, by courtesy of Reuters Ltd. Argus and Herald News Services. Reuters and the Australian Press Association Cables.  
6.53—Weather Synopsis. Shipping movements.  
6.58—Stock Exchange information.  
7.2—Fish Market Reports by J. R. Borrett Ltd.  
7.4—River Reports.  
7.6—Market Reports by the Victorian Producers' Co-operative Co. Ltd.: Haymarket Sheep Sales, Poultry, Dairy Produce, Potatoes and Onions. Market prices of Oranges and Lemons by the Victorian Central Citrus Association Pty. Ltd.

#### Night Session.

- 7.20—Under the Auspices of the Department of Agriculture: Mr. R. Crowe, Exports Supt.—Market Reports and Comments.  
7.40—P. W. Pearce: Physical Culture Talk.  
8—Studio Orchestra.  
8.10—Ivanhoe Strollers, part songs.  
8.17—Reginald Bradley, violin solo.  
8.22—Leo Bidstrup.  
8.26—Victorian Railways Institute Dramatic Society: One-act play, "Barbara."  
9—Studio Orchestra.  
9.10—Ivanhoe Strollers, part song.  
9.17—Captain Peters: Books, Wine and Otherwise.  
9.22—Tom Lingford.  
9.26—Station Trio (Tasma Tiernan, Agnes Fortune, and Reginald Bradley).  
9.41—Dorothy Humphreys, soprano.  
9.48—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" news service.  
9.55—R. A. McIlenny and Edwin Grainger, duet.  
10—Studio Orchestra.  
10.10—Ivanhoe Strollers, part songs.  
10.17—Walter Smith, cornet solo.  
10.25—Announcements. Meteorological

information. British Official Wireless News from Rugby.  
10.35—Ivanhoe Strollers, part songs.  
10.42—Studio Orchestra.  
11—God Save the King.

### THURSDAY, JULY 15.

#### Midday Session.

- 12 Noon—Time Signal. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. British Official Wireless News from Rugby. Reuters and the Australian Press Association Cables. "Argus" and "Herald" News Services.  
12.15—Community Singing under the auspices of Community Singers and Concert Goers' Association, transmitted from Assembly Hall, Collins St., Melbourne.  
1.45—Stock Exchange Information; Meteorological information; Weather Forecast for Victoria, Tasmania, South Australia, and New South Wales.  
2—Close down.

#### Afternoon Session.

- 3—Studio Orchestra.  
3.10—J. D. Patterson, tenor.  
3.17—Stanley Adams, violin.  
3.23—Studio Orchestra.  
3.30—Walter Smith, cornet solo.  
3.38—Murry Gumbel: The Home Beautiful and a selection of poetry from Macfie and Yents.  
3.53—J. D. Patterson, tenor.  
4.5—Studio Orchestra.  
4.15—Betrice Ternan, elocutionist.  
4.20—Tasma Tiernan, cello solo.  
4.28—Studio Orchestra.  
4.38—Stanley Adams, violin.  
4.45—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Herald" News Service. Stock Exchange information.  
5—Close down.

#### Evening Session.

- 5.45—Children's Hour. Mary Gumleaf will answer letters and give birthday greetings.  
6—Poems: My Shadow, A Lullaby. Story for the littlest ones: The Alphabet in Story. For the girls: A Talk on Prefects. For the boys: How Ivan Served his Country.  
6.40—Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd. "Argus" and "Herald" News Services. Reuters and the Australian Press Association Cables.  
6.53—Weather synopsis. Shipping movements.  
6.58—Stock Exchange information.  
7.2—Fish Market Reports by J. R. Borrett Ltd.  
7.4—River Reports.  
7.6—Market Reports by the Victorian Producers' Co-operative Co. Ltd. Haymarket Sales, Poultry, Grain, Chaff, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

#### Night Session.

- 7.20—Mr. Charles Nuttall: Travlogue.  
7.40—Mr. J. D. Burton, Staff Officer, Melbourne and Metropolitan Tramways Board: A brief resume of Melbourne street transportation.  
8—3LO Dance Orchestra.  
8.10—Mr. Tod Collins: Football Talk—Saturday's Prospects.  
8.30—3LO Dance Orchestra.  
8.40—Jack O'Hagan, baritone.  
8.47—3LO Dance Orchestra.  
8.54—Hedley and Bartlett, comedy musicians.  
9.4—3LO Dance Orchestra.  
9.14—Frances Lea, soprano.  
9.18—3LO Dance Orchestra.  
9.28—Announcements.



- 9.33—Jack O'Hagan, baritone.  
 9.37—R.L.O. Dance Orchestra.  
 9.47—Hedley and Bartlett, comedy musicians.  
 9.57—R.L.O. Dance Orchestra.  
 10.7—"Argus" news service. Latest Australian Cricket Eleven scores, by courtesy of Reuters Ltd.  
 10.15—R.L.O. Dance Orchestra.  
 10.25—Francis Lou, soprano.  
 10.29—R.L.O. Dance Orchestra.  
 10.39—Meteorological information.  
 10.44—R.L.O. Dance Orchestra.  
 10.54—Jack O'Hagan, baritone.  
 10.58—R.L.O. Dance Orchestra.  
 11—God Save the King.

## 3AR

Wavelength, 484 metres. Power, 1800 watts.

### FRIDAY, JULY 9.

#### Morning Session.

- 11.30—The British Official Wireless Press, received from Rugby Super Wireless Station, England; Express Train information; the "Age" News Bulletin.  
 12—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne, Studio barometer, and thermometer readings; 1st Weather Forecast; Events of the Day.  
 12.5—Musical Selections from Hoyt's De Luxe, Bourke Street.  
 12.30—Stock Exchange News.  
 12.35—Market Reports.  
 12.40—Musical Selections.  
 12.55—Mail Notices; Shipping Movements.  
 1—Close down.

#### Afternoon Session

- 2.30—Hoyt's Premier Orchestra, under the direction of Miss Ella Brien, relayed from the Hoyt's De Luxe, Bourke Street.  
 4—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio barometer and thermometer readings; 2nd Weather Forecast.  
 4.5—Hoyt's Premier Orchestra.  
 4.30—Mr. R. Standley Haines (of Brunling's Pty. Ltd.), will speak to the Children on Gardening.  
 4.55—The Evening Amusement Guide.  
 5—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio barometer and thermometer readings. Close down.

#### Early Evening Session.

- 6.45 to 7.30—The Children's Corner by Uncle Peter.  
 8—Time Signal from the G.P.O., Elizabeth St., Melbourne; Studio barometer and thermometer readings. The Wireless Press.  
 8.5—Hearing Animations, and the following week's Sporting Events, by "Field Glasses."  
 8.18—Mr. R. Standley Haines will give his weekly Gardening Talk.  
 8.35—Miss Zeala Irvino (soprano).  
 8.45—R. 49—Madame Royer-Easton, French Talk.  
 8.56—Mr. Sydney Talk (flautist).  
 9.45—Mr. E. R. Lane will speak on "The Recording and Reproduction of Sound (1st series)."  
 9.19—Mr. Lionel Davies (pianist).  
 9.25—Mrs. Henry Johnson (contralto).  
 9.33—Mr. S. Falk (flautist).  
 9.40—Mr. Lionel Davies (pianist).  
 9.45—Mrs. Henry Johnson (contralto).  
 9.53—Miss M. Boyan, piano solo.  
 10—Time Signal from the G.P.O., Elizabeth St.; Studio barometer and thermometer readings; the "Age" News Bulletin, exclusive to 3AR.  
 Result of Billiard Tournament at Tattersall's Club.  
 10.5—The Age News Bulletin, exclusive to 3AR.  
 10.10—Hoyt's Premier Orchestra.  
 10.10 approx.—National Anthem and Close down.

## SATURDAY, JULY 10.

#### Morning Session.

- 11.30—The British Official Government Press, received by 3AR's operator from Rugby Super Wireless Station, England; The Age News Bulletin.  
 12—Time Signal, Chimes from the tower of the General Post Office, Melbourne; 1st Weather Forecast; Events of the Day.  
 12.30—Stock Exchange News; Foreign Exchange, supplied by Messrs. Theo. Cook & Son.  
 12.35—Market Reports.  
 12.40—Musical Selections.  
 12.55—Mail Notices; Shipping Movements.  
 1—Close down.

#### Afternoon Session.

- V.R.C. Races at Flemington, 3rd Day.  
 1.40—Description while racing of Douita Galia Hurdle.  
 1.55—Result of Trial Hurdle.  
 2.40—Hoyt's Premier Orchestra.  
 2.45—Description while racing of Grand National Steeple.  
 3.20—Hoyt's Premier Orchestra.  
 3.50—Description while racing of the Footscray Steeple.  
 4—Time Signal Chimes from the tower of the G.P.O., Elizabeth St. Studio barometer and thermometer readings.  
 4.5—Hoyt's Premier Orchestra.  
 4.30—Result of July Handicap.  
 4.55—Hoyt's Premier Orchestra.  
 4.55—The Evening Amusement Guide.  
 5—Time Signal Chime from the G.P.O., Elizabeth St. Studio barometer and thermometer readings; Close down.

#### Early Evening Session.

- 6.45 to 7.30—The Children's Corner by Uncle Peter.  
 Evening Session:  
 8—Time Signal Chime from the G.P.O., Elizabeth Street. Studio barometer and thermometer readings; the British Official Wireless Press, received by 3AR's operator from Rugby Super Wireless Station, England; Sporting News; Local News; Progress Result of the Billiard Tournament at Tattersall's Club.  
 8.15—Dance Night. The Rhythmic Dances Orchestra under the direction of Mr. George Lewis, relayed from the Maison De Luxe, Broadway, St. Kilda.  
 9.30—Week-End Traveller's Information; Supplied by the Victorian Railway's Department and Tramways Board.  
 9.50—The Maison De Luxe Dance Orchestra.  
 10—Time Signal Chime from the G.P.O., Elizabeth St. Studio barometer and thermometer readings.  
 10.5—The Maison De Luxe Rhythmic Dance Orchestra.  
 11—National Anthem and Close down.

## SUNDAY, JULY 11.

#### Morning Session.

- 10.30—The Bells from St James' Old Cathedral.  
 11—Service from the Collins Street Independent Church, preacher, The Rev. J. Ernest James, B.D.

#### Afternoon Session.

- Transmission from the "Masonic Homes," Pant Road, Preston. Concert given by the Orchestra, "Theopian Lodge," No. 232.

#### Evening Session.

- 6.30—The Bells from St James' Old Cathedral.  
 7—Service from the Collins St. Independent Church, preacher, Rev. J. Ernest James, B.D.  
 8.30—From the Studio; Male Quartette.  
 8.37—Mr. George Murray (flautist).  
 8.44—Mr. Dud. Thorpe (baritone).  
 8.51—Messrs. Percy and Voltz.  
 8.58—Miss Minnie Dorset, scene from "The Sign of the Cross."  
 9.16—Mr. Dud. Thorpe (baritone).

- 9.17—Miss Doris Judge (contralto).  
 9.24—Mr. Thorpe and Party, Male Quartette.  
 9.30—The Eclipse Grand Orchestra, relayed from the Eclipse Theatre, Port Melbourne.  
 9.50—The "Age" News Bulletin, exclusive to 3AR.  
 9.55—National Anthem and close down.

## MONDAY, JULY 12.

#### Morning Session.

- 11.30—The British Government Wireless Press, received by 3AR's operator from Rugby Super Station, England; The Age News Bulletin.  
 12—Time Signal, Chimes from the tower of the General Post Office, Melbourne; 1st Weather Forecast; Events of the Day.  
 12.5—Musical Selections from Hoyt's De Luxe, relayed from Bourke Street.  
 12.30—Stock Exchange News.  
 12.35—Market Reports.  
 12.40—Musical Selections.  
 12.55—Mail Notices; Shipping News.  
 1—Close down.

#### Afternoon Session.

- Richmond Trotting. Results immediately after each race and at half-hourly intervals.  
 2.30—Hoyt's Premier Orchestra, under the direction of Miss Ella Brien, relayed from Hoyt's De Luxe, Bourke Street.  
 3—From the Studio; The Three Shades Instrumental Trio.  
 3.16—Miss Alma Sutherland (cellist).  
 3.23—Mr. Herbert Sutton (baritone).  
 3.30—Miss Alice Davies (violinist).  
 3.37—Mr. Herbert Sutton (baritone).  
 3.44—The Three Shades Instrumental Trio.  
 4—Time Signal Chime from the tower of the G.P.O. Studio barometer and outdoor thermometer readings; 2nd Weather Forecast.  
 4.5—Hoyt's Premier Orchestra, relayed from the De Luxe, Bourke Street.  
 4.55—The Evening Amusement Guide.  
 5—Time Signal Chime from the G.P.O., Elizabeth St. Studio barometer and thermometer readings. Close down.

#### Early Evening Session.

- 6.45 to 7.30—The Children's Corner by Uncle Peter.  
 8—Time Signal Chime from the tower of the G.P.O., Elizabeth St. Studio Barometer and outdoor thermometer readings; The British Official Wireless Press; Result of the Billiard Tournament from Tattersall's Club.  
 8.15—Transmission from Sutton's Music Warehouse, 290 Bourke Street; Lecture on The Manufacture of Player-Pianos in Australia.  
 8.30—Cable Solo Player Selection.  
 8.50—Madame Mary Alberta (soprano).  
 8.57—Miss Thelma Ready (basso solo).  
 9.5—Melogram Photograph Selections.  
 9.13—Organ solo, played by Mr. A. Hart.  
 9.20—Cable Solo Player Piano.  
 9.35—Madame Mary Alberta (soprano).  
 9.42—Miss Thelma Ready (basso solo).  
 9.57—Organ Solo, played by Mr. A. Hart.  
 10—Time Signal Chime from the G.P.O., Elizabeth St.; Studio Barometer and outdoor thermometer readings; The Age News Bulletin, exclusive to 3AR.  
 10.10—Hoyt's Premier Orchestra, relayed from Hoyt's De Luxe, Bourke Street.  
 10.40 approx.—National Anthem.

## TUESDAY, JULY 13.

#### Morning Session.

- 11.30—The British Government Wireless Press, received by 3AR's operator, from Rugby Super Station, England; The Age News Bulletin; Express Train Information.  
 12—Time Signal, Chime from the tower of the G.P.O., Elizabeth St. Studio barometer and thermometer readings.  
 1st Weather Forecast. Events of the Day.



12.30—Stock Exchange News.  
12.35—Market Reports.  
12.40—Musical Selections.  
12.55—Mail Notices; Shipping Movements.  
1—Close down.

## Afternoon Session.

2.30—Madame Sartorie (solo pianist).  
2.35—Miss Audrey Anderson (contralto).  
2.42—The Parma Trio (instrumental).  
2.52—Miss Irene Layton (soprano).  
2.59—Miss Audrey Anderson (contralto).  
3.6—The Parma Trio.  
3.16—Mr. Arthur Kempton (baritone).  
3.32—Miss Dolly Haines (cello solo).  
3.36—Mr. Arthur Kempton (baritone).  
3.37—Miss Margie Vines (violinist).  
3.44—Miss Irene Layton (soprano).  
3.50—The Parma Instrumental Trio.  
4—Time Signal Chimes from the G.P.O., Elizabeth St. Studio barometer and thermometer readings. 2nd Weather Forecast.

4.5—Hoyt's Premier Orchestra.  
4.55—The Evening Amusement Guide.  
5—Time Signal Chimes from the tower of the G.P.O.; Studio Barometer and Outdoor Thermometer Readings.

## Early Evening Session.

6.45 to 7.30—The Children's Corner by Uncle Peter.  
8—Time Signal chimes from the tower of the G.P.O., Elizabeth St.; Studio Barometer and outdoor thermometer readings; Result of Billiard Tournament, Tattersall's Club; The British Official Wireless Press.  
8.8—Mr. L. Scott-Ehrenberg, will speak on "Incidents in the life of a Specialty Salesman, Selling Australia to Australians. Concert by the Brighton Glee Singers and Concert Party.

8.29—The Brighton Glee Singers.  
8.36—Mr. Maurice Latimer (entertainer).  
8.43—Isobel McLeod (violinist).  
8.50—Miss Vera Russell (contralto).  
8.57—Brighton Glee Singers.

9.4—Mrs. Francis Drake will speak on Symbols; The Rising Sun.  
9.25—Miss Vera Russell (contralto).  
9.32—Miss Isobel McLeod (violinist).  
9.39—Mr. Maurice Latimer (entertainer).  
9.46—Miss Kathleen Treuby (soprano).

10—Time Signal chimes from the tower of the G.P.O., Elizabeth St.; Studio Barometer and Thermometer Readings; Result of Billiard Tournament, Tattersall's Club.

10.1—The Age News Bulletin, exclusive to 3AR.  
10.10—Hoyt's Premier Orchestra, relayed from Hoyt's De Luxe, Bourke Street.  
10.10 Approx.—National Anthem.

## WEDNESDAY, JULY 14.

## Morning Session.

11.30—The British Government Wireless Press, received by 3AR's operator from Rugby Super Station, England; The Age News Bulletin; Express Train Information.

12—Time Signal, Chimes from the tower of the General Post Office, Melbourne; 1st Weather Forecast; Events of the Day.  
12.5—Musical Selections from Hoyt's De Luxe, Bourke Street.

12.30—Stock Exchange News.  
12.35—Market Reports.  
12.40—Musical Selections.  
12.55—Mail Notices, Shipping Movements.  
1—Close down.

## Afternoon Session.

Geelong Races, and Studio Concert.  
2.10—Result of Hurdle.  
2.30—Hoyt's Premier Orchestra.  
2.40—Result of Trial Handicap.  
3.5—Description of Brush Steeple.  
3.11—Miss Beatrice Phillips (violinist).  
3.18—Miss Yety Landau (dramatic monologue).  
3.25—Mr. Claude Ketto, piano selections.  
3.35—Description while racing of Geelong Handicap.

3.42—Mr. Frank Pearson (dramatic recital).  
3.49—Miss Beatrice Phillips (violinist).  
4—Time Signal, chimes from Clock Tower, Elizabeth Street; Studio Barometer and outdoor Thermometer Readings; 2nd Weather Forecast.

4.5—Miss Yety Landau (character impersonation).  
4.11—Miss Beatrice Phillips.  
4.20—Result of Balling Hunt Steeple.  
4.25—Hoyt's Premier Orchestra.  
4.45—Result of Corin Handicap.  
4.55—The Evening Amusement Guide.

5—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio barometer and thermometer readings; close down.

## Early Evening Session.

6.45 to 7.30—The Children's Corner by Uncle Peter. (1) The Bedtime Story; (2) Talk on Hobbies.

8—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio barometer and outdoor thermometer readings; The British Official Wireless Press; Result of Billiard Tournament at Tattersall's Club.

8.8—Miss Doris Collard (solo pianist).  
8.13—Mr. Will Cowmeadow (tenor).  
8.20—Miss Madge Fraser, A.L.C.M.; Monologue.  
8.26—The Excelsior Quartette.  
8.32—Mr. Fred Cowmeadow (violinist).  
8.40—Miss Rae Allen (soprano).

8.47—Miss Doris Collard (solo pianist).  
8.54—The Excelsior Quartette.  
9.1—Mr. Ernest Kennedy (entertainer).  
9.11—Mr. Hobby and Mr. Hocking, duet.  
9.16—Mr. Will Cowmeadow (tenor).  
9.23—Miss Madge Fraser (soprano).

9.29—Mr. Hobby, tenor.  
9.36—Mr. Fred Cowmeadow (violin).  
9.43—Mr. Penrose, bass.  
9.50—Miss Rae Allen (soprano).  
9.57—Mr. Hobby, tenor.

10—Time Signal Chimes from G.P.O., Elizabeth St.; Studio Barometer and Outdoor Thermometer Readings; Progress Result of the Billiard Tournament at Tattersall's Club; The Age News Bulletin, exclusive to 3AR.

10.5—Hoyt's Premier Orchestra.  
10.40 approx.—National Anthem; Close down.

## THURSDAY, JULY 15.

11.30—The British Government Wireless Press, received by 3AR's operator from Rugby Super Wireless Station, England; The Age News Bulletin; Express Train Information.

12—Time Signal, Chimes from the tower of the General Post Office, Melbourne; 1st Weather Forecast; Events of the Day.  
12.5—Musical selections relayed from Hoyt's De Luxe, Bourke St.

12.30—Stock Exchange News.  
12.35—Market Reports.  
12.40—Musical Selections.  
12.55—Mail Notices; Shipping Movements.  
1—Close down.

## Afternoon Session.

2.30—Hoyt's Premier Orchestra, under the direction of Miss Ella Brien, relayed from Hoyt's De Luxe, Bourke Street.  
3 till 5—The Glaciarium Orchestra will play selections.

4—Time Signal Chimes from G.P.O., Elizabeth St., Melbourne; Studio Barometer and Thermometer Readings; 2nd Weather Forecast.  
4.55—The Evening Amusement Guide.  
5—Close down.

## Early Evening Session.

6.45 to 7.30—The Children's Corner by Uncle Peter.

## Evening Session.

8—Time Signal Chime from the G.P.O., Elizabeth St., Melbourne; Studio barometer and outdoor thermometer readings; Result of Billiard Tournament, Tattersall's Club; The British Official Wireless Press. Special Pig and Calf Report, supplied by

Mosses, McPhail, Anderson and Co.  
8.8—Captain Dettman, V.D. will speak on "Stamps" (King George Period), 7th Series.

8.26—The Northcote Boy Scouts' Orchestra.  
8.43—Mr. Arthur Shaw, baritone.  
8.50—Miss Vera Buck, pianist.  
8.57—Miss Mary Lilley, contralto.

9.4—Mr. Geer, President of the Buldog Club of Victoria, will speak on Bulldogs—their breeding.  
9.25—The Northcote Boy Scouts' Orchestra.

9.39—Mr. Arthur Shaw, baritone.  
9.46—Miss Vera Buck, pianist.  
9.53—Miss Mary Lilley, contralto.

10—Time Signal from G.P.O.; Progress Result of Billiard Tournament, Tattersall's Club; "The Age" News Bulletin, exclusive to 3AR.

10.10—Hoyt's Premier Orchestra.  
10.40 (approx.)—National Anthem and close down.

4QG

(Continued)

## MONDAY, JULY 12.

## Midday Session.

11.55—"Tune-in" Signal.  
12.18—Time Signal.

1—Market Reports supplied by the Council of Agriculture; Stock Exchange Information supplied by the Committee of the Brisbane Stock Exchange; Weather Information supplied by the Commonwealth Weather Bureau; News Service supplied by "The Daily Mail" News Service, supplied by "The Daily Standard."

1.20—Close down.

## Afternoon Session.

3.30—A Musical Programme from the Studio.  
4.15—News Service supplied by "The Telegraph."  
4.50—Close down.

## Early Evening Session.

6.25—Tune-in.  
6.50—The Children's Session—Stories by The Standard.

7—The Farmers' Session—Market Reports supplied by the Council of Agriculture. Lecture: Pork Chops and Sausages, by Mr. E. J. Shelton (Instructor in Pig Raising).  
7.20—News Service supplied by "The Standard."  
7.30—Close down.

## Night Session.

7.45—Lecture Session: Preference to Queensland. Arranged by the Queensland Preference League.

8—The Bijou Orchestra. Overture, the Bijou Orchestra; contralto solo; Miss Margaret Lloyd; vocal duet, Mrs. R. Bell and Mr. W. Crisp; group of banjo numbers by Mr. N. Gould; soprano solo, Mrs. T. Thornton; Caprice Poetic, the Bijou Orchestra; baritone solo, Mr. A. N. Falk; violin solo, Mr. H. Scott MacCallum; waltz, the Bijou Orchestra; contralto solo, Miss Margaret Lloyd; vocal duet, Mrs. R. Bell and Mr. W. Crisp; group of banjo numbers by Mr. N. Gould; (a) Air de Ballet, (b) a Nocturne, the Bijou Orchestra; soprano solo, Mrs. T. Thornton; baritone solo, Mr. A. N. Falk; march, the Bijou Orchestra.

9.15—Weather Information, officially supplied by the Commonwealth Weather Bureau.  
9.20—Announcements.

9.25—From the Band Practice Room: A programme of music by the South



Brisbane City Orchestra, under the leadership of Mr. J. W. Ferguson.  
10—From the Studio: "The Daily Mail" News Service. Close down.

## TUESDAY, JULY 13.

### Midday Session.

12.55—Tune-in Signal.  
12.58—Time Signal.  
1—Market Reports, Stock Exchange, Weather, The Daily Mail News, The Daily Standard News.  
1.20—Close down.

### Afternoon Session.

3.30—A musical programme from the Studio.  
4.15—The Telegraph News.  
4.30—Close down.

### Early Evening Session.

6.25—Tune-in.  
6.30—The Children's Session; Stories by Uncle Ben and Uncle Jim.  
7—The Farmers' Session; Market Reports; Lecture: "A Queensland Impression of Scottish Stock Breeding," by Mr. J. F. P. Reid, Editor "Queensland Agricultural Journal."  
7.20—"The Standard" News.  
7.30—Close down.

### Night Session.

7.45—Lecture Session: Photography, by Mr. F. L. South, Manager Kodak Ltd.

8—Studio Entertainment: Radio novelty march, the White Rose Trio; contralto solo, Miss Ivy Rogers; Hawaiian Instrumentalists, the Pacific Trio; baritone solo, Mr. J. Morgan; monologue, Miss Eileen McLennan; baritone solo, Mr. Fred Homer; radio novelty, concert waltz, the White Rose Trio; tenor solo, Mr. E. Ungerer; Hawaiian Instrumentalists, the Pacific Trio; soprano solo, Mrs. R. G. Husband; radio novelty, (a) fox trot, (b) tango, the White Rose Trio; contralto solo, Miss Ivy Rogers; monologue, Miss Eileen McLennan; Hawaiian Instrumentalists, the Pacific Trio. Holy Cross Choir.

9.20—Weather Information officially supplied by the Commonwealth Weather Bureau.

9.25—Announcements.

9.30—From the Centennial Hall—By courtesy of the Lessee, a programme of dance music by the Centennial Hall Dance Orchestra, will be relayed from the Hall.

10—From the Studio The Daily Mail News Service. Close down.

## WEDNESDAY, JULY 14.

### Midday Session.

12.55—Tune-in.  
12.58—Time Signal.  
1—Market Reports, Stock Exchange, Weather, The Daily Mail News, The Daily Standard News.  
1.20—Close down.

### Afternoon Session.

3.30—A musical programme from the Studio.  
4.15—The Telegraph News.  
4.30—Close down.

### Early Evening Session:

6.25—Tune-in.  
6.30—The Children's Session—Stories by Little Miss Brisbane.  
7—The Farmers' Session; Market Reports; Lecture: "The Need for Organised Marketing of Bee Products," by Mr. Daniel Jones, President of the Queensland Beekeepers' Association.  
7.20—"The Standard" News.  
7.30—Close down.

### Night Session.

7.45—Lecture Session.  
8—The Savoy Orchestra and artists.  
9.20—Weather Information officially supplied by the Commonwealth Weather Bureau.

9.25—Announcements.

9.30—From the Tivoli Theatre, by courtesy of the Directors of Haymarket Theatres Ltd., a programme of music by the Tivoli Operatic Orchestra, under the baton of Mr. C. Groves, will be relayed from the Tivoli Theatre.

10—The Daily Mail News Service; Close down.

## GYPSY SMITH FROM 4QG.

During the Brisbane Gypsy Smith Campaign, Station 4QG granted quite a large amount of time to the committee, with the result that several mid-day meetings, several night meetings, and two Sunday afternoon meetings were broadcast. In many parts of the State, churches cancelled some of their usual services, installed wireless sets, and the congregation listened-in to the Gypsy's service in the Exhibition Hall, Brisbane. The transmission throughout was very creditable, especially in view of the fact that in the transmission the engineers were faced with the problem of handling a temperamental speaker who did not remain near the microphone for more than a few seconds consecutively.

## CLASSICS VERSUS JAZZ.

The war of the classics versus jazz, heretofore considered as being typically American, takes on an international aspect with the breaking out of the problem in Europe, according to a letter received from Earle C. Anthony, owner of KFL.

As an example of the European fight, the subscribers to Czecho-Slovakian broadcasting have split into two camps, one insisting that only classics be heard over the air, while the other claims that purely popular music is the only music to express modern civilisation. The ironical part of the controversy is that both camps reproach one another as "radio

snoobs," each claiming the taste of the other to be assumed and perverted.

As Mr. Anthony points out, no longer can the adherents of the classics in the United States point with pride and envy to the hitherto solid vote for good music in Europe, while the jazz element can take fresh courage in their fight for bigger and louder dance orchestras. "It seems," he concludes, "that Czecho-Slovakian stations should adopt the suggestion offered by one of our KFL listeners, who based his plan on a story of the man out driving in a sedan with two women, neither of whom could ever agree. One wanted all the windows open—so he closed them all and asphyxiated her, then opened them all so the other, who wanted them closed, might sneeze to death, following which he thoroughly enjoyed the remainder of the drive. On this theory, after some listeners have been Berlined to death and the rest Beethovened out of existence, the majority of the audience could assimilate a well-balanced radio meal in comfort.

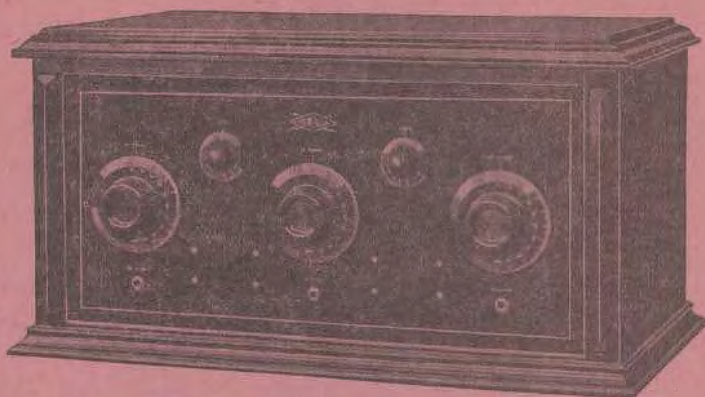
## POINTS FROM LETTERS.

"Encouragement should be given to 2FC to retain their high-wave transmissions in the interests of crystal men, even if it does not suit the few multi-valve Super-Het. owners."—W.J.S., Epping.

"I might say, however, that, without going to the Super-Het., the circuit published in "Wireless Weekly," of June 18th, does more for selectivity than any other circuit."—H.F., Cremorne.

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1926



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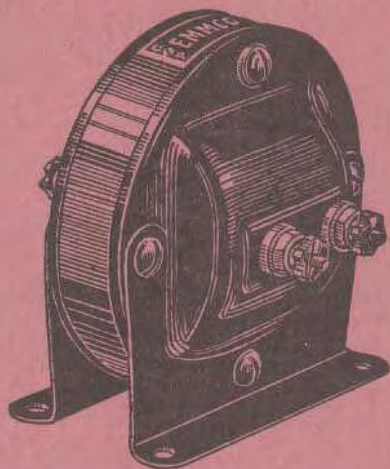
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**IT PAYS!** Poor parts can only give poor reception, no matter what type of circuit you employ. And, as in the case of Emmco Radio Products, where local and mass production enable it, high quality parts cost no more than the inferior imported goods.



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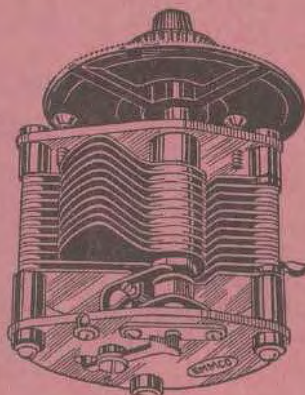
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Whether you are out after a distant station, or whether you are searching on a crowded wave-band for your local station, fine tuning is the thing that counts. And for fine tuning and selectivity, the condensers must be built with absolute insulation and the most minute vernier adjustment. These are two of the features which contribute to the efficiency of Emmco condensers. They add to the selectivity of any receiver.

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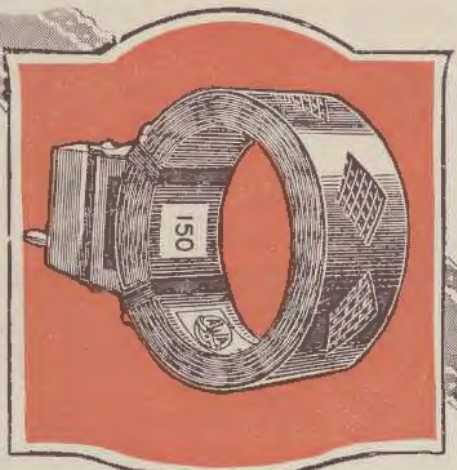
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2BL	3LO	4QG	5CL	25 50	50 75	50 75	50
3AR	7ZL			50	75	75	50
2FC				100	150	150	75
6WF				150	200	200	100

No. of Turns	M.H. Inductance	Wave-lengths with .001 Condenser	Price Mounted	Price Unmounted	No. of Turns	M.H. Inductance	Wave-lengths with .001 Condenser	Price Mounted	Price Unmounted
20	20	50-260	5/-	2/-	300	5,000	1,050-4,200	10/-	4/3
25	30	100-375	5/-	2/2	400	9,000	1,600-6,000	11/-	5/-
35	80	150-525	5/-	2/2	500	15,000	2,000-7,500	12/8	7/-
50	150	190-675	5/6	2/4	600	21,500	3,000-9,000	13/6	9/-
75	330	240-925	6/-	2/6	750	35,500	4,000-11,000	14/6	10/6
100	550	340-1,340	8/-	2/9	1,000	62,250	4,500-16,000	16/-	12/-
150	1,300	500-1,960	8/3	3/-	1,250	100,000	6,310-18,240	18/-	14/-
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