"Wireless Weekly"

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With Guaranteed Radio Equipment

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"B" battery noises

To be Bypass Condensers
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121 TO 200 METRES.

THE B. T. Short Wave Outfit represents the best tuning arrangement for short wave reception to-day. Perfect construction, rigid support with constant control. The coils are interchangeable, covering 121 to 20, 25 to 50, 60 to 100 and 100 to 200 metres.

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AMALGAMATED WIRELESS (Asia) LTD. announce that the high-grade Lilliput Headphones manufactured by the Sterling Telephone Co., of England are now available on the Australian market.

They are the most exclusive instruments of their class manufactured, and are ideal for the reception of speech and music.

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The HARKNESS Reflex Receiver, described on page 17 of last week's issue of "Wireless Weekly" is the finest Crystal and two-valve Reflex you have ever heard. Build it. This set was built by the Technical Editor of "Wireless Weekly," who attributes much of its success to the—

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Complete with Crystal 7/8

Pecially adopted for use on Lifchairs & in the Mercantile Marine

The CAT'S WHISKER is still the best method of receiving wireless signals with purity—but the nerve-racking business of "crystal-locking" is quite out of date.

The HARLIE-DETECTOR is the modern method. It has the most sensitive crystal yet produced, and also provides a continuous contact that is perfect in every detail. No delicate adjustment is needed—not a turn of the knob. It can be done as easily in the dark as in the light.

Vibrations—even hard knocks—cannot disturb the contact, which is always at the exact delicate tension required for perfect reception.

The actual set built by "Wireless Weekly" is now on view in our shop window, 316 GEORGE ST., SYDNEY.

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Harringtons LTD
In his article in this issue, Mr. James Nangle, Director of Technical Education and Government Astronomer, clears up a matter which has been the subject of much hot air by unthinking writers and speakers for many years.

We have had with us the enthusiast who has advocated radio as an educational factor, we have had the uplift speaker who cites radio as a civilised force of epochal import. This would be an age of mental marvels all because of the widespread influence of broadcasting. Yet, excluding a certain type of radio fan, most of us have retained our normal faculties.

Many of these statements came from people personally interested in the matter. They were inclined to over-estimate radio’s teaching ability in the hope that the Government would spend several thousands of pounds installing receivers in schools. But the Government has not done this because it has been shown that radio is not educational.

This may seem a sweeping statement, but analysis will show that no class of boys or girls will ever be educated by radio. The utopian idea of one teacher for a hundred schools is hopelessly impracticable.

Education implies development, and discipline of both the intellectual and moral faculties. For reasons which are apparent, radio as we know it now, cannot discipline the mind. Imagine a class learning philosophy or English composition or sociology by radio, subjects which are utterly un-broadcastable.

But if interested parties vastly over-estimate radio’s potentialities in this field, the average person, likewise, under-estimates the undeniable instructive value of radio. And in these words lies the mistake made by the educational enthusiast from the beginning.

If every speaker and writer had substituted the word “instructional” for “educational” there would be less confusion over the subject. An educated man is vastly different from the informed man. The possession of a fund of information does not make one educated, nor has one to know the principal fish caught in Alaskan waters or the line of succession to the throne of Portugal to be educated.

Mental discipline is gained almost exclusively from the study of so-called cultural subjects, presenting unknown difficulties to the broadcaster. But informing is so hard a task.
Between You and Me and the Microphone

Conducted by
R. E. CORDER

That we be a programme with poetry of the right spirit is as.

IN THE London studios of the BBC approximately 100 auditions are given to would-be radio artist

A DISTINCT advantage of the new studio at 3LO in the eyes of the staff and artist is that it is being

11th, rrr

Mr. Donald Ansett, radio manager of 2LO, who has filled all the best traditions of the Faders Hall by making 14 hours a day wear 3SC reduced to nine hours.

"I was assassinated in Rossville last week by a lady who had been an invalid for many years," writes the Rev. Hugh Paton. "She did not belong to St. Stephen's, and was delighted in our services on the wireless. That was why my friends sent for me.

LEADING American stations are now selling broadcast time just as newspaper is sold. Political parties and candidates have bought hours for their coming campaign. Imagine such conditions in Australia.

HERE'S SELECTIVITY for you.

During recent radio tests in Melbourne, a 3SC engineer picked in 32 broadcasts in the 3SC laboratory while the station was broadcasting.

The laboratory receiving aerial is less than three feet from and metalized with the 3SC transmitting aerial.

A BROADCASTING station, costing about $20,000, is to be constructed in Maldon. Broadcasting sets will be leased $5 en bloc, a month for crystal sets, and 50 cents a minute for value sets. Maldon, the use of radio sets in South Australia has been proscribed.

A TWOFRANC increase has been imposed on the licence fees. Incidentally, their comments are not too few for publication.

THIRTY NEW stations are to be erected in Europe shortly under the

Mr. ALFRED lane, adjudicator at 3LO, recent children's singing competition, engaged more than 750 competitors, of whom 70 were boys.

TO STUDY radio drama, the B.C.A. has engaged Mr. Sidney Turner, electronics and narrator artist. Mr. Turner has a wide knowledge of stagecraft and will write a number of original sketches for 3LO.

MORE THAN 250 letters were received in 3F's mail one morning last week. This is just above the average that is received daily by 3F. A staff of four is continually engaged answering such letters personally.

The United States Navy uses Burgess.
Has Radio any Value as an Educational Medium?

JAMES NANGLE

Who is director of Technical Education in N.S.W. and Governor answers this question in the article below. Indirect radio broadcasting is a potent force for education, he says, but directly it is a failure.

In ancient times, men communicated their thoughts and emotions to others as we do now, by writing and speaking. The paucity, however, was without means of manifesting their writings, and their analogue were restricted. The great philosophers, like all, taught at small school of philosophers who, in their turn, spoke to other small schools, and thus this wonderful mental inheritance spread to posterity.

There are a few remains of the world priceless treasures in the form of ancient writings on papyrus. Excavations of the sites where stood ancient cities in Crete have brought forth tablets on papyrus were inscribed to arrange writings, which tell us events at a time when they were made. All of our knowledge of ancient times consists of inscriptions of some kind or another, either on buildings, on pottery ware, on papyrus leaves, or on parchment.

These writings were necessarily seen by very few at the time when they were written, so that knowledge in those days was transmitted by oral and restricted methods. Consequently, very few benefited by the thoughts and opinions of the few educated ones of the time.

The invention of printing, which marks one of the great epochs in the history of civilization, brought about a prodigious change. By its means, those who were educated and who were able to think and reason, and who could write of what they knew, could have their knowledge widely disseminated in book form. It is hard to imagine the position in which we would find ourselves if we were suddenly deprived of the use of books.

No man does a thinker in any of the arts or sciences wise of what he has studied than we can share with him what he knows.

The knowledge of the world has increased immensely as a result of the invention of the art of printing. Printing, however, takes more time, and ideas often are not at all new by the time we use them in print. On the other hand, strange as it may seem, books are not as accessible to everybody as ought to be the case.

The invention of the steam engine and its application to land and sea transport made considerably in the rapid distribution of knowledge which had been printed, and when the invention of the electric telegraph came about, a still greater means of the rapid dissemination of both of news and more formal knowledge, was at hand.

It has remained, however, for a still more wonderful invention to come for our use. This has been the discovery of means of transmitting speech by wireless. It is not too much to say that anybody situated in the most isolated and inaccessible places on the earth is now in part as good a position as the man who lives in the most populated and civilized city, when it comes to the question of getting current news or learning.

In Australia, there is hardly an hour when ordinary men are awake that there is not available in the air, by means of the use of a very simple instrument, news of every kind, and a good deal of information about matters which make up real knowledge.

McMillan carried Burgess to the Arctic.
MAGIC CHILDREN'S HOUR.

An entertaining feature of the children's hour at broadcasting station 2UE, Sydney, is the trip on Uncle George's magic automobile. It appears that when Uncle George was a digger in Egypt, he did a good turn for a local magician, who rewarded him with a present of a magic automobile and a few magic wands. Uncle George appears to be not too certain how to use the gift. However, he invites all children listeners to come under the automobile with him. Then once the air George can be heard McGyvering wands around, and away goes the automobile carrying the listeners with it. Last week they started off for Mulga Park, belted over the town. It transpired that George had forgotten how to stop the automobile and the whole party arrived at Brocks before he remembered. After a while his memory recovered and a return to Mulga Park was made, and the youthful listeners were taken for a visit over a sugar cane farm where they were introduced to barking dogs, lemon casking, and various other farm animals.

These trips on the magic automobile are being made a feature of 2UE. The Pacific Islands and the East are yet to be visited. One of the most amusing items of the Children's Hour put over by Clinton 2UE is the emergency band. Uncle George sends the children that a special band was received in the studio. The band find all arrier, but an emergency band did, and the retarded sound made by the scratch band was enough to split the listening set.

RADIO IN THE HOLY LAND.

Landing the last week the Royal Air Force has established a large number of posts in the Holy Land, and it really every moment it was not long afterward before members of the posts constructed short-wave transmitters. The wave lengths used are between 28 and 49 metres, and the calls are mostly prefixed with the letters "PI" to indicate that the station is in Palestine. Many two-way calls have been effected with brother experimenters in the United States, Mexico, France, South Africa and South America.
How Race Descriptions are Radioed

Hundreds of appreciative letters from Queensland, Victoria and New Zealand, as well as N.S.W., have been received by the 2FC racing commissioner. Read how it is done.

The barrier flies up. A score of silhouetted forms leap forward, and the race has begun. The crowd settles down to a steady watch as the flashing forms that past the first furlong post. The field lengthens out.

Get the picture in your mind. Randwick on a spring day, a warm breeze flutters gaily coloured flags and drives the various cries of the bookies across the flat. It is familiar enough to most of us, familiar also to thousands of country listeners who have never visited Randwick.

Thousands of men and women listen in to Mr. M.A. Ferry's race descriptions broadcast from 2FC. These listeners see the race through his announcer's eyes. The clear narrative tones of his voice carry the atmosphere of the turf across hundreds of miles of space.

The scene at the saddling paddock is the first to be described. He names the horses and their riders as they enter the course, and gives their places at the barrier.

"They're off—Vitality has made a good jump away," and in perhaps less than a minute he has described the whole race movement for movement, with the order of the horses as they flash past the judges' box. A pause picture of the observer rising to his feet, with each word thrilling the intensity, as the race rushes to a finish before his eyes. Where! it must have been some marathon.

But Mr. Ferry's work does not begin and end with the race. At daylight he attends the training gallops, later reporting the track work from 2FC long before the newspapers appear with the news.

Mr. Ferry is a blood stock buyer of many years' experience, having acted as a handicapper and steward in Western Australia and the Riverina. He attends all yearling sales, which he reports from 2FC.

He is also associated with Mr. D.G. Poynt, veterinary surgeon at Randwick. He is racing correspondent for several leading Queensland papers.

Mr. Ferry has a full view of the course from 2FC's own private stand. He speaks directly into the microphone as he watches the horses through his glasses. An assistant takes the fractional time of the horses as they pass each furlong post.

A landline connects the stand with the 2FC control room. Mr. Ferry has received hundreds of appreciative letters from Queensland, Victoria, and New Zealand, where his descriptions are eagerly awaited.
What are your impressions of the scenes being enacted at the studio as you sit before your loud speaker each night?

A NIGHT AT 3LO

LET me take you on a personally
conducted tour through 3LO.

Hundreds have visited the studio since the Royal Melbourne Show, but we still receive letters from Far North, both young and old, asking us to tell them something about the studio.

In the first place, place your eyes on your own imagination, and come with me at about 7 o'clock any evening, and after walking up Colin Street, we turn in at the 3LO studio, step into the lift, and are taken to the second floor.

We enter the reception room, which is by day the busy office, where all the letters are answered, and on the wall you will notice a special letter rack, sometimes stacked full of letters for “Mary Gawler”, or any of the other favorites that listeners in write to. In its evening garb—with the typewriters put away for the night, and the pen and pencil racks over on this—the reception room looks very cozy, luxurious homely, easy arm chairs, the kind that you sink right into, and don’t want to get out of, to say nothing of beautiful cover of green tips, and fancies of all descriptions. Then there in the loud speaker giving a wonderfully clear representation of what is being broadcast from the studio, and waiting artists are thus able to hear the turns preceding their own. I was nearly forgetting a beautiful old grandfather clock, the sort you read about in old English novels, which is the very clock that shone so magnificently over the air each day.

Now, our tour has come, and we must go into the studio, and “do our bit” to entertain our vast unseen audiences. We step quietly in, in fact, the thick carpet on the floor dampens all sound. The first thing we see is the announce sitting on a low easy arm chair; he immediately makes the announcement and we step to within a few feet of the microphone and begin. If we are going to sing, the pianist plays the opening bars of the song, and whilst we are waiting for
In the article below the writer takes you on an imaginary trip through the studios of the Broadcasting Company of Australia

B.C.A. ENTERTAINS

out "cues," we take in at a glance the rich curtains, embroidered with peacock, the gaily coloured tapestry, the rich soft furnishings, the musical instruments that are always there in case of emergency, and the antique vase full of flowering posies. A chord suddenly brings us back to earth, and we realize that although we can't see them, the audience are waiting for us, and we rise to the occasion.

Our "cues" finished, we take a last look round, the soft light falling from the electric lamps carefully shaded with oriental silks and fringes, and creep out as quietly as mice.

Returning to the reception room, we receive the congratulations of our friends, who see and all assure us that our number went "wonderfully," and whatever we may think in our own private rude, we accept their word. Then comes pleasant chat, and we belong to one huge friendly family party, and finally we take ourselves down to the station, and board the train for home.

This, of course, is on an ordinary night. Occasionally, when something extra special happens, and a "great gun" comes to fire off something very important, both studio and reception room are tense with suppressed excitement.

Nonchalant reporters sit, pen and folded copy paper in hand, around the lead speaker. As soon as the special "talk" commences, however, they become all attention. Then, again, if it be someone of paramount importance, such as Mr. Alan Cobham, photographers are there in force, ordering those great ones of the earth to "step a little to the left, sir, please," so as to catch the full blast of the camera lens.

Now for the new studio. Up you go into the lift to the third floor, and step out into the angle of an L-shaped room, the long leg of which lies along Collins Street, and the

PHILCO—"Tremendous Capacity."

(Continued on Page 45)
FURTHER investigations were made into the cause of fading by an expansion from 3LO during the last week in September. The following losses were noted: Sydney, Wanganella, Albany, Wagga, Cooma and Goulburn, Manjimup.

The purpose was to determine the cause of fading due to frequency changes and for long distances. In every case found to be normal. As regards 3LO, there was an almost entire absence of distortion, indicating nothing similar to that reported in Gippsland, although fading was not in evidence. There were, however, some of a slow and more or less regular type which did not interfere very much with the normal signal quality of the main station.

WANGANella

Speech and music from 3LO were received clearly and distinctly during the day. 2LO was received strongly from about 4 p.m., and eventually strong signals from 2LO in Sydney during the same period. At about 3LO began to fade badly at very short intervals, but for the fadings became more regular — the strength falling to about half station and sometimes as for about two minutes, that station to maximum again for a further two minutes.

Adverse weather conditions continued, the slow, thumping noise giving the signal at intervals. At 6 p.m. the fading was unaccompanied by distortion, except for about half an hour following sunset, and this was of a more serious character. After 11 p.m., however, distortion occurred, and signals became weaker — being difficult to follow even though by this time the atmospheric conditions had improved considerably. A little fading was apparent on 2LO, but signals from other stations within the city were fairly strong.

ALBURY

Much worse were again, experiences from electrical machinery, as much so that it was often impossible to judge the effect of the fading, or even to hear some of the weaker stations. Fading of 3LO was of the type experienced daily, but this was not apparent. The signals would slowly fall to strength at about 6 p.m.ерт.
Studio Notes and News

HOSPITAL CONCERT PARTY

The concerts organised ZFC Hospital Concert Party, under the direction of Mr. Bob Goudie, will give the first entertainment at the House for Incurables, Radio, on Friday, October 22. An excellent group of artists have been brought together, and will appear at the various hospitals and charitable institutions. ZFC will broadcast direct from the entertainment halls of the hospitals.

FLUTE CLUB TO BROADCAST

Few people know that there is a Flute Club—a live organization in Sydney, which boasts of a great number of members. The Secretary, Mr. Goodwin, is in touch with ZFC, and is making arrangements to broadcast the concert by the Flute Club to be held at the Adyar Hall on Monday, November 1. It is hoped that Mr. John Lamont, Australia's most famous Flutist, will be heard on the air on this occasion.

NEW 2BI FEATURE

Mr. Raymond Beattie, basso cantante, and Miss Mille Hughes, soprano, will be featured from 2BI on Sunday, October 23, in duet and solo numbers. Mr. Beattie is the holder of a scholarship at the State Conservatorium of Music, and Miss Hughes specialises in Russian songs as well as songs by modern composers. Their duet work is particularly effective, much as their voices blend exquisitely.

THE ELIJAH

An important broadcasting event of the next future is Mendelssohn's dramatic oratorio "The Elijah," which will be performed in private for broadcasting by the Welsh Choral Society on Monday, November 1. Station 2BI, Sydney, will place "The Elijah" on the air, and it is of interest to note that this is the first occasion upon which such an important work has been performed in Australia without an audience for broadcasting only. The conductor of the choir is Mr. E. H. Jones, and the soloists will be Mlle Mille Hughes, Heather Kinnaid, Nevan Robert Harper and Raymond Beattie.

WOMEN'S TALKS

Special talks to women will be broadcast from 2BI on Wednesdays at 4 p.m. The bringing up of baby, and domestic hygiene will be dealt with.

"OUR MISS GIBBS"

The evergreen opera, "Our Miss Gibbs," is being produced by the Bank's Opera Society at the Conservatorium, and the whole of the production will be broadcast by ZFC on Melbourne Cup Night, Tuesday, 2nd November.

TRIVEL RADIOPHOTOGRAPHS

Mr. E. J. van de Velde, one of the most travelled men in Sydney, will, on October 27, give a talk—"Who's Who in the Zoo"—dealing with animals and birds taken in the various zoos of the world. Artists are being engaged to sing songs suitable for the occasion, and the effects, which will be worked into the talk, are in the capable hands of Mr. Laurence Halbert.

FAMOUS HYMNS

Few "talks" will meet with greater approval than that arranged by Mr. Hewitt Ross to be broadcast from 3LO, the subject being "The History of Famous Hymns." A choir of specially picked voices will "illustrate" the talk. The history of famous hymns owes a wide field of literature, unfortunately unfamiliar to the majority of us, but Mr. Ross, by reason of this talk, is going to inject the beautiful familiar words with a new meaning.

SIGNOR D'ALLISANDRO

A newcomer to the radio of 3LO studio artists is Signor D'Allisandro. The Signor is a timer of wide operatic experience, and has recently been associated with Madame Elly Trewed, in the prologue of the "Phantom of the Opera." His voice, being soft and resonant, and pleasantly free from any distracting "tremolo" is singularly adapted to radio work.

CHRISTIAN SCIENCE LECTURE

A new departure has been inaugurated by the 3LO studio in the broadcasting of a Christian Science lecture. The lecture is Mr. John Randall Dunn, C.S.R., member of the Board of Lectureship of the Mother Church, the "First Church of Christ Scientists" in Boston, Mass., U.S.A.
Broadcast Controversies

This week our 3LO correspondent discusses the problem confronting the broadcasting companies in regard to broadcasting controversial matter.

To what extent is it in the general interest to broadcast controversial opinions, is a question with which 3LO Melbourne is currently faced. The fact that they are instinct with the interest of doubt and speculation, and stung with the electricity of conflict certainly makes them interesting, and at first sight it would appear possible to regulate such disputes by a set of broadcasting rules equivalent in their own sphere to those of the celebrated Margin of Freemasonry. But there are obvious difficulties. It is, for example, positively disasterous to have to listen to opinions which disagree with one without having the opportunity to reply. Smashing the instrument is but transient consolation. Of meetings for propaganda, people can take their choice, attending or staying away as they like, and in the case of those they do attend they have the option of listening peacefully or being ejected. They may, of course, listen or not listen as they like to wireless talks, still the object of each is to interest as many as possible.

Again, it is easier to begin controversy than end it, as every editor knows. Once the blood is up, the conventions are always lower something to reply to, and inspire his opponent with a fervent desire to respond. Another objection that holds is that a dispute is not the best means of discovering truth. Moreover the public usually weary before the protagonists. It seems, therefore, that the present policy not to allow broadcasting to be used for the express purpose of controversy. It be, however, scarcely possible to draw a hard and fast line between what is provocative of wrath, and that which is stimulating to discussion. Everyone draws the line at a different place. Experts struggling with a doubtful problem are forced into opinions open to challenge, and before they agree, their works must pass through stages, which their views conflict with one another. If the other is to carry the thinking mind of men who are really thinking, it must bear many different opinions. The wireless, it is obvious, is far more suited to the discussion of ideas than either the newspaper, which is tied to policy, or the public meeting which may be swayed by the skilful eye and gesture of the trained orator, and counter with his personal appeal of influence, or change by stress of emotion, whereby each individual is in the audience, by transmitting some of the heat of his resentment to his neighbour and receiving some in return, "feels the control of reason". Each individual is "on the air" listened in the value of his bellow, and dis...

"Experience teaches," says "Philo."
Indeed a
Revelation
in Radio!

A FULL-PHONE OUTPUT that ensures racy talk and superb
speech, stories, symphony, without bother or fear. Broadcasting
at tradition, long on radio - see the new SUPER-FIVE.

A complete set in equipment and form, beginning at an instant response; it makes the full pleasure of amateur radio
possibility almost appear. The simple form, all the old habits -
so there are no complications whatsoever, no extra to buy, no
technical knowledge needed, and no risk of any kind.

A WRITTEN GUARANTEE COVERS THE

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See it at
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Retailer Agents Wanted

WRITE for details of the Mingay DEALER-Agency Proposition to the
EXCLUSIVE MANUFACTURERS:
MINGAY'S WIRELESS MANUFACTURING LTD.,
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Phone: Bed. 1124.
You're fortunate—you average buyer of radio equipment. For when you are in need of new batteries you can phone or walk a few blocks for fresh ones to replace those in your receiver.

Not so fortunate are those who wander across the world or spend their lives in the lonely outposts on the frontiers of civilization.

To them the correct selection of dependable receiving equipment is vital. For to be deprived of the use of their radio set is a dire catastrophe, and results in complete isolation from the outside world.

Those who must receive absolute, unfailing service over longer periods always buy Burgess “A,” “B” and “C” Radio Batteries.

“Ask Any Radio Engineer”

[Contact information for Burgess Radio Batteries]
Free Trip to Java for ‘W.W.’ Reader

What about a holiday in Java this summer? An interesting trip through the Spice Islands, via Queensland and Northern Australia.

It’s not expensive, that is if you are willing to devote a little of your spare time to “Wireless Weekly.”

There is a free return passage to Java and Singapore on one of Messrs. Burns Philp’s mail steamers and incidental expenses amounting to 8/- for the reader secure the greatest number of pre-paid subscriptions to “Wireless Weekly.”

It’s not hard to settle a good proposition to any wide-awake listener, You are a reader yourself; and know why you are buying the paper. Do your neighbour a good turn, and introduce him to us.

In addition to a trip to Java as first prize, we offer a special prize to the youth between 16 and 19 securing the greatest number of subscriptions. By special arrangement with Analytical Wireless, we will present a full course through the Marconi School of Wireless to the winner in this section.

Here is a space which, in the ordinary course of events, would cost £100 to begin, free to any youth willing to devote his spare time and energy to an attempt to grasp this opportunity.

To the Director,
Wireless Newspapers Limited,
51 Cadogan Street,
Sydney.

Sir,

In consideration of your allowing me to enter the “Wireless Weekly” Subscription Competition of Wireless Newspapers Limited, and supply me with a book of subscription forms, I undertake to remit to you within 21 hours after receiving same any signed subscription orders received and the amount of money received by me as represented on the order. I also undertake to account to you for all subscription orders which you supply to me.

Signed

Address

King Quality
NEUTRODYNE KITS

For those who prefer to make their own sets.

The King Quality Neutrodyne Kit with complete set of parts, drilled panel and all wiring bent to shape together with book of instructions for assembling.

No knowledge beyond the use of pliers, screwdriver, and soldering iron is necessary.

The set when complete has an approximate wavelength range of 200 to 600 metres; and will receive all Australian stations with exception of Perth at loud speaker strength. Price, complete 1½ guineas.

DEFERRED PAYMENTS

Under David Jones’ convenient Deferred Payment Schedule you will be able to accept the immediate delivery of a complete kit on payment of £1 18/- deposit. Balance to be paid, at rate of 7/- per week.

DAVID JONES’
CRESCENT TRANSFORMERS
ARE HERE AGAIN
13/6
6 to 1 for 1st stages
3½ to 1 for 2nd stages
EVERYBODY'S USING THE "CRESCENT"

Build Yourself a 2 Valve Reinaart

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<td>4</td>
<td>Transformer, 200V S.L.P. Condenser</td>
<td>1 x 6</td>
</tr>
<tr>
<td>5</td>
<td>3½ Grid Condenser</td>
<td>2 x 6</td>
</tr>
<tr>
<td>6</td>
<td>2 magnet rings</td>
<td>2 x 6</td>
</tr>
</tbody>
</table>

Total: 21 14

Wireless Weekly
October 22, 1936

WIRELESS WEEKLY

THE ECONOMIC RADIO STORES
23 ROYAL ARCADE, SYDNEY
309 HUNTER ST. WEST, NEWCASTLE
Phone M 1049
Phone New. 1622

"Yours for Lower Prices"

A HIGH GRADE LOW LOSS SELF CONDENSER
AT A MODERATE PRICE
"The Quaker" 3½ hole fitting
Size 400 S.M.F.

"We pay carriage on orders 10/- and over, except on Hi-Fi Trade and Loud Speakers."
New five valve receivers are more popular than the neutralyne. The circuit is reproduced above. The text explains the shorting of the two top & battery terminals.

**Working Drawings and Constructional Procedure for A NEUTRALYNE**

There are receivers that are born receivers. There are receivers that have grown in value as time has passed, and the public's demand has increased. And there are receivers that have grown in popularity, gaining the confidence of the public through reliable performance and excellent service.

Of this latter type is the neutralyne, probably the most popular five valve receiver. It is likely to become more popular than ever now that 2FC is broadcasting on a low wave length. The neutralyne will respond to all wave lengths between 300 and 600 metres. This means that 8WF will not figure within its range, but every other broadcasting station in the Commonwealth and in New Zealand may be tuned in on this set.

Sensitivity, ease of operation, and sweetness of tone, are the features which popularize the neutralyne. Whether it is sure, so all the Australian stations, excepting TEL, have been brought in at loud speaker strength without any interfering with another. The two stages of radio frequency employed, at a certain extent, achieve in the tube tone as well as being on the diffused station. Ease of operation is shown by the front view of the panel. The three large dials control the tuning, and to receive any given station, each dial in set at a given number, all three being alike. For example, 2FC may be tuned in on 55 on each dial, whereas 2BH may be 40, 40, 36. This will appeal as being simple indeed, so simple in fact that anyone who can work it, no one located on any setting, you can go back to the same setting and find the same station.

The radio frequency system adopted in the neutralyne is one of the most efficient methods of radio frequency known today. For the benefit of those who don’t know the difference between radio frequency and audio frequency, a word here won't be out of place.

Looking up a Wireless Dictionary we find that,

Radio Frequency: Often called high frequency current, abbreviated to H.F. This refers to the currents as received in an aerial and earth circuit before they have been rectified or changed to an audible frequency.

"Audio Frequency: Frequencies which come within the range that can be detected by the human ear."

There is the difference, and, by way of further explanation, but let us explain that in the neutralyne is two stages of radio frequency amplification. This means that the incoming energy is stepped up greatly before being detected by the detector valve from which the energy is again stepped up by means of the two audio transformers. The signal, these or speech (which ever it may be) is audible after it has been detected owing to which it is inaudible, as the frequency is altogether too high for the human ear to respond.

From this, you can imagine just how a high signal, which otherwise would not activate a plain detector, would be increased to such extent to be within the rectifying power of the detector valve, and again be built up to be loud enough to punch a speaker.

Without going into detail, it is a fact that the method of neutralized radio frequency used in this receiver is, perhaps, the most efficient method known to science today. Scott Pendell, the eminent Englishman, and Handley, the well-known Americans, are both largely responsible for the production of this type of high frequency amplification and there is no doubt that it is among the things that

---

**List of Parts:**

1. Panel, 24 x 7 x 3/16.
2. 00035 Variable Condensers.
4. Neut follows Condensers.
5. 2 1/2 ohms, Rheostat.
6. 10 ohms, Rheostat.
7. C. Jack.
8. B. Jack.
9. Battery Switch.
10. Audio Transformers.
11. Valve Sockets.
12. 00055 Grid Condensers.
13. 2 2/3m Gold Leaf.
14. Terminals on base.
15. Leads, Screen, etc.
16. Backboard, 22 x 3 x 3.

**PHILCO—Constant satisfaction assured.**
much radio development of the future will take place.

In the circuit diagram, the stabilizing, or neutralizing, condensers are marked No.1 and No.2. These condensers, when properly adjusted, balance out the aural and hums often prevalent in radio frequency, and makes the set so stable that one station after another will blend ideally in without any carrier wave being discernible. These neutralizing condensers (decouplings) are seen in the back of panel view, between the two transformers and immediately behind the two audio frequency valve sockets.

While your attention is directed to this illustration the transformers are seen mounted on an angle. This angle is 45° degrees in actual practice, but the set constructor need not worry too much over this, as the transformers on the market today are always provided with a bracket which is just stepped to this correct angle. The transformers are shown that it minimizes interaction between the glass (magnetic coupling it is called).

Construction.

In the construction, no much space is wasted, as the aforementioned decouplings will prove. The two receiver valves just supplement many of the variable condensers actually used, so be careful when you lay out your baseboard. Still, the layout has been also to be watched in this matter.

Still, the last way is to drill your panel, following out the panel layout which will then present a clear appearance when finished.

Don't forget the wires of any baseboard when you drill holes for your Jacks and switch, which should just rest on the baseboard. If you are afraid of scratching your panel in the marking-out process, paste a sheet of brown paper over the whole of the panel, and draw out your different outlines, after which a centre punch may be used, and the panel drilled. The brown paper can be easily renewed and the panel cleaned up by the application of benzine, "shaking off with a dry rag" in normal.

The baseboard, as was mentioned before, calls for a little more thought. But, still, the easier illustration, and the back-of-panel wiring diagram are available ones in this respect. Should there not be sufficient room between the condensers to allow the insertion of your valve sockets, bring your sockets back a little, also your transformer. Remember to place your audio transformers at right angles to one another to overcome this difficulty. The terminal board—actually used—has been set in two—the so-called and not worth terminals being separate from the battery terminals, to save long leads in such requests. However, everything is O.K.

Wiring.

The wiring of the connection may seem rather complicated, but it is actual fact that it is really not so. Taking things by easy steps, it will soon be re-wired, but, of course, you must always start off by joining together one side of all your valve sockets, keeping this bussable line. One length of buss is shaped from the E- terminal first socket to the similarly-marked terminal last socket, and soldered to a suit-shaped piece from such E- terminal. Next the H- terminal of the two audio and the two audio valve sockets are connected to a similar manner. Now, match to the other end of your bussable, and lock up the G terminal of your last valve socket to the G terminal of your output valve transformer. Carry on with your audio wiring so far as impossible without the terminal board. Now take up one side of each of your wires, stuff it on the panel, and take a wire from the connection to one terminal or lug of your battery switch. Secure your panel to your baseboard, and continue the wiring, following out the back-of-panel wiring diagram, and also the circuit. The overall circuit diagram is taken in the bottom part of the diagram of the final transformer. Perhaps, by reversing the connection, better results will take place. Try it when the sun is put up the air.

The terminal board is the last of all to be wired, and, perhaps, you may have to bridge some many meter from the A- to the battery switch before you will be satisfied with the appearance. For the sake of clarity, the battery switch in the back-of-panel wiring diagram is shown in a different position. Before leaving the subject of wiring, a few more hints will please you. The transformers must, at least, be spaced 2' apart—measurments taken from the centres, of course. Don't order any circumstantial items there in any way. They work. There are three watt-meters made up the market today—Filter, Gen- eration, and Radiophone. All are equally...
Neutralization.

This operation is often approached with great difficulties by the constructor, but it shouldn’t be. Exercise patience, and care, and you’ll soon get the required effect. The effect desired is to diminish all signals and hums from the receiver, and make it so that each station comes in without the wheels known as the carrier wave. To do this, tune in some Inter-state station, say, 4QG, for example, in its lowest pitch, and then lift out your first R.F. valve, and insert a small piece of paper inside the socket, and over one of the filament springs.

Re-insert your valve now, which, of course, will not light, although the station will still be heard not quite as loud as before. Readjust your dials until the lowest result is again received, and then, with a thin stick or pointer, adjust your neutralizing condenser until the signals disappear altogether, or if this is not possible, adjust until the station is at the weakest point or scarcely audible. Remove the paper from the contact spring, re-insert your first valve, which now lights up.

Without touching your settings, lift out your second R.F. valve, insert paper as before, repeat the operation on this valve as you did the previous one, and neutralizing is now complete.

It may be that you will have to lower your plate voltage on the radio frequency valves before this neutralization is complete, but experiment for yourself will determine this.

(Continued on Page 32.)
WIRELESS WEEKLY

BURNS PHILP TOURS

JAVA
The Wonderland of the East

Famous Temples
Interesting People
Native Bazaars
Tea Gardens

Regular Monthly Sailing by the Favorite liners—
"MARELLA" . . . . . . 7,375 Tons
"MALABAR" . . . . . . 5,000 Tons
Via the picturesque Torres Straits Route

Full particulars from
BURNS PHILP & CO. LTD.
BRIDGE STREET, SYDNEY
WIRELESS WEEKLY
for the Coming Week

Friday, Oct. 22

2 P.C.

EARLY MORNING SESSION

1. The Chinese "Of A Sort." Muriel from the Studio.

EVENING SESSION

2. "Hark! Hark! The Lark." Mrs. C. K. Cunningham.

WIRELESS FEATURES


MORNING SESSION


EARLY EVENING SESSION

2. "Hark! Hark! The Lark." Mrs. C. K. Cunningham.

TELESCOPIC BROADCASTING: Sunday, Nov. 7, 11 a.m. to 3 p.m.

BURGESS—"Power—Harmony—Endurance."
WIRELESS WEEKLY

October 15, 1933

NIGHT SESSION

4:30-Armanda, the New Zealand Radio Journal. Mr. J. Harris, Auckland.

2G M STRONG SESSION


4:00-Miami Beach, Florida. Mr. W. E. W. Smith, Sydney.


4:30-2G M. Mr. W. E. W. Smith, Sydney.

5:00-2G M. Mr. W. E. W. Smith, Sydney.

5:15-2G M. Mr. W. E. W. Smith, Sydney.

5:30-2G M. Mr. W. E. W. Smith, Sydney.

6:00-2G M. Mr. W. E. W. Smith, Sydney.

6:15-2G M. Mr. W. E. W. Smith, Sydney.

6:30-2G M. Mr. W. E. W. Smith, Sydney.

6:45-2G M. Mr. W. E. W. Smith, Sydney.

3L O MIDDLE SESSION


2Q G MEDIUM SESSION


3 A R STRONG SESSION


AFRICA SESSION


EVENING SESSION


AFRICA SESSION

AFRICA SESSION

AFRICA SESSION

AFRICA SESSION

AFRICA SESSION

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AFRICA SESSION
THE WIRELESS WEEKLY: THE HUNDRED PER CENT AUSTRALIAN RADIO JOURNAL

Page Twenty-three

Saturday, Oct. 23

EARLY MORNING SESSION.

Chances of “Big Ben” and Austronesian.

Music from the Studio.


EARLY EVENING SESSION.

Chances of “Big Ben” and Austronesian.

Music from the Studio.


WIRELESS WEEKLY

5 CL.

WEDNESDAY SESSION.

11.10. G.P.O. Click.


11.10. “Adventures” from Service.

11.10. Australian certain.

11.10. G.P.O. Click.

11.10. Rock Eye Art

The wireless weekly will be heard in a circle of cultural values.

11.10. Saturday, Oct. 23, No. 2 Extra Broadcast. Australian Letters and Reports.

11.10. G.P.O. Click.

11.10. Rock Eye Art

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11.10. Saturday, Oct. 23, No. 2 Extra Broadcast. Australian Letters and Reports.
2BL

MORNING SESSION
1. Service from Clarendon Presbyterian Church.
2. Bible Class Conducted by Dr. W. H. Scott.
3. Morning from Christ Church, St. Lawrence Street.
4. Eucharist from the Church of St. John the Evangelist, South Perth.

NIGHT SESSION
1. Music from Studio.

26

MORNING SESSION
1. Music from Studio.

NIGHT SESSION
1. Music from Studio.

3GL

MORNING SESSION
1. Service from Australia Church, East Perth.
2. Service from the Church, Mount Lawley.
3. Service from the Church, Fremantle.
4. Service from the Church, Subiaco.
5. Service from the Church, Subiaco.

WIRELESS WEEKLY

Page Twenty-five

Monday, Oct. 25

EVENING SESSION
1. Symphonies from the Studio.
2. Eucharist from the Church of the Holy Trinity, South Perth, conducted by Rev. W. J. P. C. Scott.
4. Service from the Church, Subiaco, conducted by Rev. W. J. P. C. Scott.
5. Service from the Church, Subiaco, conducted by Rev. W. J. P. C. Scott.

7ZL

EVENING SESSION
1. Service from Wesley Church, Mableville Road, East Perth, conducted by Rev. W. J. P. C. Scott.
2. Service from the Church, Mount Lawley.
3. Service from the Church, Subiaco.
4. Service from the Church, Subiaco.
5. Service from the Church, Subiaco.

PHILCO—"Tremendous Cautery."
WIRELESS WEEKLY

Page Twenty-six

1. (1) Wireless from the Sphinx.
   1. (2) Miss Ragazza, Celle, sezione.
   1. (3) S.K. from the Sphinx.

EVENING SESSION

2. (1) Early Opening for the Children.
   2. (2) Registered Opening for the Children.

NIGHT SESSION

3. (1) The Clara program.
4. (2) The Happy Hour in Australia.
5. (3) "Brothers in Arms.

Burgess were used by Captain Hurley.
3AR
MORNING SESSION.
1.20—British Official Wireless News, read by 3AR’s "News Reader," 3AR’s advertising, 3AR’s morning programs.
1.30—News from the South. 3AR’s morning advertising.
3AR news bulletin, exclusive in 3AR.
2.30—Witchita Million Dollar Sweepstakes, free. 3AR.
3.45—Witchita Million Drive, exclusive in 3AR.
4.20—Soft-Willed Indigent Childs, movies. 3AR.
4.30—Soft-Willed Indigent Childs, movies.
7.00—Soft-Willed Indigent Childs, movies.
10.00—Soft-Willed Indigent Childs, movies.
11.00—Soft-Willed Indigent Childs, movies.
12.00—Soft-Willed Indigent Childs, movies.
12.30—Soft-Willed Indigent Childs, movies.
1.00—Soft-Willed Indigent Childs, movies.
2.00—Soft-Willed Indigent Childs, movies.
2.30—Soft-Willed Indigent Childs, movies.
5.00—Soft-Willed Indigent Childs, movies.
7.00—Soft-Willed Indigent Childs, movies.
9.00—Soft-Willed Indigent Childs, movies.
11.00—Soft-Willed Indigent Childs, movies.
BARGAIN BOTTLE
Sweepstakes.
1.00—Soft-Willed Indigent Childs, movies. 3AR.
2.00—Soft-Willed Indigent Childs, movies. 3AR.
5.00—Soft-Willed Indigent Childs, movies. 3AR.
7.00—Soft-Willed Indigent Childs, movies. 3AR.
9.00—Soft-Willed Indigent Childs, movies. 3AR.
11.00—Soft-Willed Indigent Childs, movies. 3AR.
1.15—Soft-Willed Indigent Childs, movies. 3AR.
2.15—Soft-Willed Indigent Childs, movies. 3AR.
5.15—Soft-Willed Indigent Childs, movies. 3AR.
7.15—Soft-Willed Indigent Childs, movies. 3AR.
9.15—Soft-Willed Indigent Childs, movies. 3AR.
11.15—Soft-Willed Indigent Childs, movies. 3AR.
1.30—Soft-Willed Indigent Childs, movies. 3AR.
2.30—Soft-Willed Indigent Childs, movies. 3AR.
5.30—Soft-Willed Indigent Childs, movies. 3AR.
7.30—Soft-Willed Indigent Childs, movies. 3AR.
9.30—Soft-Willed Indigent Childs, movies. 3AR.
11.30—Soft-Willed Indigent Childs, movies. 3AR.
1.45—Soft-Willed Indigent Childs, movies. 3AR.
2.45—Soft-Willed Indigent Childs, movies. 3AR.
5.45—Soft-Willed Indigent Childs, movies. 3AR.
7.45—Soft-Willed Indigent Childs, movies. 3AR.
9.45—Soft-Willed Indigent Childs, movies. 3AR.
11.45—Soft-Willed Indigent Childs, movies. 3AR.
1.00—Soft-Willed Indigent Childs, movies. 3AR.
2.00—Soft-Willed Indigent Childs, movies. 3AR.
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9.00—Soft-Willed Indigent Childs, movies. 3AR.
11.00—Soft-Willed Indigent Childs, movies. 3AR.
1.15—Soft-Willed Indigent Childs, movies. 3AR.
2.15—Soft-Willed Indigent Childs, movies. 3AR.
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7.15—Soft-Willed Indigent Childs, movies. 3AR.
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11.15—Soft-Willed Indigent Childs, movies. 3AR.
1.30—Soft-Willed Indigent Childs, movies. 3AR.
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11.30—Soft-Willed Indigent Childs, movies. 3AR.
1.45—Soft-Willed Indigent Childs, movies. 3AR.
2.45—Soft-Willed Indigent Childs, movies. 3AR.
5.45—Soft-Willed Indigent Childs, movies. 3AR.
7.45—Soft-Willed Indigent Childs, movies. 3AR.
WIRELESS WEEKLY

4QG

HOLIDAY SESSION.

10.55—Time Signal.
10.55—Time Signal.
1—Wairakura, Weather information.
1—Wairakura, Weather information.
12—From Rural Country, Lunch Made from the Lounge, Hotel Curves, shown by Hotel.
12—From Rural Country, Lunch Made from the Lounge, Hotel Curves, shown by Hotel.
2—Close Down.

AFTERNOON SESSION.

1.50—A programme from the Studio.
1.50—A programme from the Studio.
4.30—Birthday Bash at Maia, Amaonbe, Maia.
4.30—Birthday Bash at Maia, Amaonbe, Maia.
5.20—The Telephone news.
5.20—The Telephone news.
6.15—Close Down.

EARLY EVENING SESSION.

5.45—The Children's Sunday, Started by "Unicorn," then, "Koala." Then "Cook,"
5.45—The Children's Sunday, Started by "Unicorn," then, "Koala." Then "Cook,"
5.50—Children's Sunday, Started by "Unicorn," then, "Koala." Then "Cook,"
5.50—Children's Sunday, Started by "Unicorn," then, "Koala." Then "Cook,"
6.00—From the Studios of "The Daily Mail," open. About Exchange Information.
6.00—From the Studios of "The Daily Mail," open. About Exchange Information.
7.00—Announcements.
7.00—Announcements.

NIGHT SESSION.

7.15—Security Service: A Greeting from "Rutland" for the BBC.
7.15—Security Service: A Greeting from "Rutland" for the BBC.
7.30—From the "Newspaper" Station.
7.30—From the "Newspaper" Station.
8.15—"The Commercial Bank.
8.15—"The Commercial Bank.
9.00—Weather information, officially supplied by the Commonwealth Weather Services.
9.00—Weather information, officially supplied by the Commonwealth Weather Services.
9.30—Musical "Tonnetz.
9.30—Musical "Tonnetz.
10.00—"Adventures" news service. From "Rutland" Station.
10.00—"Adventures" news service. From "Rutland" Station.
10.30—"Stay" Station.
10.30—"Stay" Station.
11.00—Musical "Tonnetz.
11.00—Musical "Tonnetz.
11.30—Close Down.
11.30—Close Down.

5 CL

MORNING SESSION.

10.45—G.P.O. Cairns.
10.45—G.P.O. Cairns.
11.15—From the "Newspaper" Station.
11.15—From the "Newspaper" Station.
11.45—From the "Newspaper" Station.
11.45—From the "Newspaper" Station.
12.15—"Adventures" news service. From "Rutland" Station.
12.15—"Adventures" news service. From "Rutland" Station.
12.45—Close Down.
12.45—Close Down.

AFTERNOON SESSION.

1—Talk from the "Newspaper" Station.
1—Talk from the "Newspaper" Station.
1.15—Tell the "Newspaper" Station.
1.15—Tell the "Newspaper" Station.
2.00—From the "Newspaper" Station.
2.00—From the "Newspaper" Station.
3.00—"Adventures" news service. From "Rutland" Station.
3.00—"Adventures" news service. From "Rutland" Station.
3.30—Close Down.
3.30—Close Down.

6 CL

MORNING SESSION.

10.30—Radio Cairns.
10.30—Radio Cairns.
11.00—"Adventures" news service. From "Rutland" Station.
11.00—"Adventures" news service. From "Rutland" Station.
11.30—Close Down.
11.30—Close Down.

AFTERNOON SESSION.

1—Talk from the "Newspaper" Station.
1—Talk from the "Newspaper" Station.
1.15—Tell the "Newspaper" Station.
1.15—Tell the "Newspaper" Station.
2.00—From the "Newspaper" Station.
2.00—From the "Newspaper" Station.
3.00—"Adventures" news service. From "Rutland" Station.
3.00—"Adventures" news service. From "Rutland" Station.
3.30—Close Down.
3.30—Close Down.

The United States Navy uses Burgess.
QUALITY ALWAYS PAYS
MASSE BATTERIES CAR—RADIO

We trade your old battery in

When you buy a MASSE you buy a battery of the quality that we would ourselves expect if we were buying a battery. The MASSE has unassailable standing qualities, but with our limited space we may only mention just a few.

1. Rigged Construction
2. Uniform charges over long periods.
3. Field Rubber Container.
4. Long Guarantee.
5. Very Best of Materials.
6. Made by AUSTRALIANS.
7. Cheapest and BEST.

PRICE LIST, RADIO BATTERIES.

<table>
<thead>
<tr>
<th>Volts</th>
<th>4 Volt</th>
<th>6 Volt</th>
<th>8 Volt</th>
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<tbody>
<tr>
<td>Price</td>
<td>4½ d.</td>
<td>5½ d.</td>
<td>6½ d.</td>
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</table>

There is no more Quality Product as we sell “MINGAY’S UNIQUE 3 Valve wireless sets”—and truly “UNIQUE” in every possible way. Terms—Selectivity, Construction, Appearance. Prices. Let us demonstrate—having heard you can’t resist.

Complete in every way. Easy Terms £14/0/0 Deposit £4/0/0

Liverpool Battery Service Station
65 Liverpool Street
Opposite Kent Street
The wireless weekly: the hundred per cent Australian radio journal

2BL

EARLY MORNING SESSION.
1.15 - Physical Training and Mind Exercise.
2.00 - Fascinating Journal of Social Movements.
3.00 - G.P.O. and Chinese - User Advice.

WIRELESS WEEKLY

4.20 - Early Morning Session.
4.25 - 12:00 - Radio Service from the Daily Telegraph.
4.30 - A.M. Programmes from the Daily Telegraph.

WIRELESS WEEKLY

5.00 - G.P.O. and Chinese: Musical Programmes from the Studio.
5.05 - Musical Programmes from the Daily Telegraph.

WIRELESS WEEKLY

5.30 - Musical Programmes from the Studio.

WIRELESS WEEKLY

6.00 - G.P.O. and Chinese: User Advice.
6.05 - Musical Programmes from the Studio.

WIRELESS WEEKLY

6.45 - Musical Programmes from the Studio.

WIRELESS WEEKLY

7.15 - Musical Programmes from the Studio.

WIRELESS WEEKLY

8.00 - Musical Programmes from the Studio.
8.05 - G.P.O. and Chinese: User Advice.

WIRELESS WEEKLY

8.45 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY


WIRELESS WEEKLY

9.35 - Musical Programmes from the Studio.

WIRELESS WEEKLY

10.00 - G.P.O. and Chinese: Musical Programmes from the Studio.
10.05 - Musical Programmes from the Studio.

WIRELESS WEEKLY

10.45 - Musical Programmes from the Studio.
11.00 - G.P.O. and Chinese: Musical Programmes from the Studio.

WIRELESS WEEKLY

11.45 - Inspections of Children's Room.
12.00 - Musical Programmes from the Studio.

WIRELESS WEEKLY

12.15 - Musical Programmes from the Studio.

WIRELESS WEEKLY

1.15 - Musical Programmes from the Studio.

WIRELESS WEEKLY

1.45 - Musical Programmes from the Studio.
2.00 - G.P.O. and Chinese: User Advice.

WIRELESS WEEKLY

2.05 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

2.30 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

3.00 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

3.25 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

4.00 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

4.20 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

5.00 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

5.20 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

6.00 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

6.30 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

7.00 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

7.30 - Talk in Children's Room from Telephone.

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WIRELESS WEEKLY

12.00 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

12.30 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

1.00 - Talk in Children's Room from Telephone.

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WIRELESS WEEKLY

12.00 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY

12.30 - Talk in Children's Room from Telephone.

WIRELESS WEEKLY
Thursday, Oct. 28

2FC

EARLY MORNING SESSION
- The Chat Room in the studio.
- Soybean Information: Commercial Soybean Information.
- Cattle Feed: Albert C. Coates, Commercial Feed Information.

- National Weather Bureau.

ATTENDANCE SESSION
- G.P.O. Offices.
<table>
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<tr>
<th>Time</th>
<th>Activity</th>
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<tr>
<td>8:00 PM</td>
<td><strong>Evening Session</strong></td>
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<td></td>
<td><strong>3AR</strong> Wireless Theatre: Movie - <em>The Big Sleep</em> with Robert Mitchum</td>
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EVER-READY FOR VOLUME

The pleasure of good reception, built in tone and volume, in years of your choice as Ever-Ready Radio Battery.

Being made in Australia, these batteries preserve all the power that was originally stored in them. This means greater volume.

Your Dealer has the type you want.

EVER-READY
RADIO BATTERIES

THE STANDARD DRY CELL RADIO BATTERY

Price 3½.

The Ever-Ready, “Standard” Dry Cell, a truly permanent power unit, is designed to keep its power after the flow of current has been cut off for any length of time. The Ever-Ready has met with universal favor, since it was first placed on the market.

EVER-READY DRY BATTERIES

A new line of dry cells, with the numerous advantages possessed by the Ever-Ready Standard, will shortly be placed on the market.

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Your Dealer has the type you want.
Radio Diseases

"Microphobia" is the new word to describe the unreasonable fear of the microphone experienced by many amateur and some professional broadcasters. The originator also contributed another new word—"microphocoma," describing the longstanding disease from which some announcers seem to suffer. The last expression appears to be a chronic infection which so expands the ego that one is never content except when talking through the "麦克风," a symptom might be "microphocoma."

Realizing that the microphone has succeeded the pen, which long ago seemed to have vanquished the sword, we beg to assert that this same mighty microphone is often abused and through it many otherwise happy listeners, Announcers and those who broadcast should realize by this time that listeners have rights, mentality and feelings and govern their vocal efforts through the ether in accordance.

Some new diseases affect the face, too—"radio wax" developed a couple of years ago, when headphones were more popular and were worn for hours at a time. "Dicteroma" followed, accompanied by "radiotoxication" and "aural radiophobia."

How to Cure the "Radio Ear"

The affliction of the ear is being reported by some listeners, who sit for long periods at their receiving sets. It is called the "radio ear," and is accompanied by noticeable pains in the auditory appendages even when not listening. What is it and how to cure it is told as follows—

Sometimes the "radio ear" takes the form of sharp, shooting pains in the head near the ears; this causes fever, possible hallucinations or other serious afflictions. Upon consultation, your ear specialist usually says that the remedy is easy and fairly sure.

"You are a radio ear?" they ask. "You spend a good portion of your time with your headphones on?"

Upon receiving replies in the affirmative, the doctors say: "When you go home loosen up on your headphones!"

BURGESS—Nearly twice the life.
Only the new Cossor Point One can give you these three advantages

When a man buys a valve, three questions flash through his mind: "Will it be cheap to run? I cannot afford to use a valve that consumes a lot of current."

"Is it engineered correctly?" A valve that becomes useless after the first slight blow is expensive at any price.

"Can I be sure that it will give as good results after twelve months as on the first day I use it?"

There are the three essential needs of every wireless enthusiast. In this case, a consumption valve, Cossor is enabled to offer a valve Emulator which utilizes principles of construction so strikingly new that the whole future trend of valve design is likely to be influenced. Read below how this wonderful new valve will give only 1 of an ampere (house fuse) without giving you this three advantages.

1. **Current consumption cut to one-third.**
   
   Ever since the days of the bright incandescent lamp the whole wireless industry has been troubled to some extent by the necessity of using a large number of tubes connected in parallel. For instance, an ordinary SET requires about 10 watts of power, which is necessary to keep the filament of the valve glowing, and about 0.5 ampere of current. The filament, being exposed to air, is liable to be blown out accidentally by a slight movement or excitement. But the Cossor Point One is such a superior invention that the filament is not destroyed, but simply smoked, and the valve continues to work as well as on the first day.

2. **A shock-proof filament suspension system.**
   
   The system is patented by Cossor. In order to eliminate the shock which might arise from any sudden air movement, the filament of the valve is held under a moderate tension by the metal spring. This spring is strong enough to keep the filament in uniform and correct tension, and is capable of absorbing shocks without breaking or destroying the valve.

3. **Long life uniformity due to Co-axial Mounting.**
   
   A number of valves are now made with the filament, which is held by a metal spring, in order to make sure that the filament will not move or change its position. The filament must be held in such a manner that it will not be affected by any sudden movement, and it must be kept in the correct position for as long as the valve may be used. The new Cossor Point One is such a fine invention that the filament is not destroyed, but simply smoked, and the valve continues to work as well as on the first day.

---

Cossor Valves

Obtainable from all Radio and Electrical Dealers.
The Best Crystal! The Best Results!! Now The Best Price!!!

Reduced to 1/6

Thousands of Authentic Testimonials prove its Efficiency

LOUD SPEAKER can be operated with a Neutron Crystal on your crystal set

Australian Distributors:
LOUIS COEN PTY. LTD.,
260 Flinders Lane, Melbourne.

Reduced to 1/6

ON SALE at 1/6 EVERYWHERE

Carried in stock and distributed in New South Wales by
MANUFACTURERS PRODUCTS Pty. Limited,
Challis House, Sydney.

Even the poorest Receiver with its harsh reproduction can be converted into a mellow-toned musical instrument with the new

MACLURCAN
TONE PURIFIER AND STATIC REDUCER

Price, 21/-

An Emenco Product

No more distorted music

Now ready for sale

With a money back guarantee

Particulars from

CHAS. D. MACLURCAN
PRATTEN BUILDING,
JAMIESON ST., SYDNEY

Manufactured by Electricity Meter Manufacturing Company Limited, Sydney
MAKE YOUR OLD SET
UP-TO-DATE
with EMMCO Vernier Dials

It will look
better
It will work
better

Bakelite frame 9/6—Metal frame 6/9
Made in Mahogany or Maroon finish
Obtainable with Clockwise
or Anti-clockwise movement.

At all Dealers
Manufactured by
Electricity Meter Mfgs., Co., Ltd.
Sydney

Bring those old Dials, and get in EMMCO Verniers.
You'll be amazed at the difference.
Sensitivity such as you've never had before—
hair-thin tuning with ease between those
adjacent stations—easy control that makes
turning in the work of a moment—and just
but not least, a wonderful instrument finish that
makes your old Set look new.
If you are not already familiar with the merits
of EMMCO instruments NOW.
Remember that it has the advantages of balance
adjustment and a special engraving window.
Furthermore, also, there is no back-back, no slip-
ing, and it makes tuning easy and absolutely
positive.
Outback Radio

by A.M.

In comming with other city dwellers, I thought the outback still held civilization a key. But on a recent journey by motor from the Queensland border, I was forced to revise my ideas. Calling at a station near Ringersford, I was surprised to find that a dance was being held in the homestead with music which was actually being played in a broadcasting studio in Sydney, 500 miles away. A loud speaker was attached to a powerful set, and jazz was being indulged in by a number of people in a large room.

Later I visited a station of the mining beds. I expected to hear the whir of notes from an accordion, but I was disappointed. On a table stood a random set, with loud speaker attached. In the bureaux received the station PACK. I thought of the old-time, and fully expected to see their shades start up with horror at this marriage. But there was nothing to the fear to indicate that anything out of the ordinary was being done.

In conversation, I learned that many of the members carry sets with them, and when forced to camp out between stations, they sing an aural between a pair of transitive, guns, or lend a couple of earphones to a friend. After the evening meal, they mantle in their blankets and listen to any station they can pick up.

One I actually came across a "souvenir" camped beside the track. In a small tent was parked a motor bike, on the rear of which stood a valve set. An aerial was stretched between two trees. With the usual outback hospitality he pressed me. He was preparing a meal of bacon and egg, and put in a couple of eggs and a slice of bacon for me, which, with bread and butter and coffee, made a satisfying meal.

After cleaning up, he took down his headphones and we affixed one node to our ears. Sydney came in finely. Then he tried for Melbourne, and got 2LO. I was astounded, but he merely smiled and said that radio was a necessity. It kept him up to date with the world.
For
Faithful and
Distortionless
Reproduction

THE INCOMPARABLE CONE SPEAKER

In most existing instruments of a similar nature, the design is such that
distortion cannot be avoided and in this respect we would refer particularly
to the difficulties arising in the future either by attraction or by
reduction in the magnetic circuit and the magnitude of the current required
to obtain sufficient volume, such difficulties resulting in very unfavourable
conditions for the valves and the low frequency transformers of the
receiver. Furthermore, diaphragms of an excessive size induce sound
reverberations and this coupled with the causes quoted above, are all contributary
to distortion and disagreeable tone reproduction.

The “SFERAVOX” Loud Speaker is an example of how these difficulties
have been overcome.

Australian Representatives:

BROWN & DUREAU, Ltd

Boughton House
Clarence St., SYDNEY
Extraordinary One Valve Receiver

The circuit. The plate is fed back to the aerial.

The wiring diagram shows the connections.

Burgess were used by Captain Hurley.

(Continued on page 42.)
Easily Purchased—Easily Paid for

15/- Deposit

THINK it over. For 15/- deposit you can become the immediate possessor of a guaranteed, efficient radio receiver which will give you results you cannot appreciate until you actually tune it for yourself.

Don’t waste time and money wallowing about with parts, but get a set constructed and tested throughout by specialists—men who understand radio sets inside and out.

An R.D.A. receiver is at once an entertainment bringer and an attractive article of furniture in the home.

Make it a Real Home with an R.D.A.

YOU PAY THE DEPOSIT — — — WE DO THE REST

1. Valve Sets, with all accessories
2. Valve Sets, with all accessories
3. Valve Sets, with all accessories
4. Valve Sets, with all accessories
5. Valve Sets, (Super 03) with all accessories
6. Valve Sets, (Super 03) with all accessories

Per week: 8 8 8 8 8 8
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Per week: 8 8 8 8 8 8
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Per week: 8 8 8 8 8 8
Per week: 8 8 8 8 8 8

Come to our Salesroom and tune in any of the above sets for yourself. No obligation.

CALL, TELEPHONE OR WRITE

RADIO DISTRIBUTORS
25 ROYAL ARCADE, SYDNEY
MA 1790 — MA 1744
Wireless Weekly

Wavelength Queries Answered Here

In conjunction with Farmer's Broadcasting Service the Technical Editor of "Wireless Weekly" will answer all listeners' queries arising from the wavelength change. Question will appear in these columns and will be broadcast from 2FC each Thursday night.

Below is the first series of questions answered.

QUEM'S QUERIES.

V.H. (Gympie) - A single wireless set is being (sent) installed. Why not build that explained receiver in "W.W." No. 19, 1926?

R.H. (Alexandria) - Your receiver is now of quite a size. Build the crystal receiver described in "W.W." No. 20, 1926, and R.B. (Alexandria).

H.G. (Preston) - Add a third coil.

R.H. (Alexandria) - You will then have the best set.

W.R.G. (Toowoomba) - Between half past three and four o'clock each day, your primary and secondary coils are near zero. E.M. (Toowoomba) - Tested the wire 2000 times described in "W.W." No. 18, 1926, and have not noticed any trace of H.I. and H.O.

T. (Traralgon) - Can anyone give me the data for the Armstrong Receiver? Also tell me the impedance of your microphone?

R.H. (Alexandria) - Build the one valve in this week's "W.W."

A.C. (Noosa) - Yes.

Q. Will you give me how to make the Armstrong Receiver more audible? A. We expect to make it, and you will have the information in the September edition of "W.W."

A. (Southport) - I have owned an Armstrong Receiver for some time, and find difficulty in becoming acclimated to the new bands at first. Can you suggest any way to secure a stronger output without too much apparatus in the set, which will make them more audible without increasing the noise at the time of transmission.

R.H. (Alexandria) - Answer to W.R.G. (Toowoomba). What I regard as minimum output is 500兴. If you have a receiver of this type, the Armstrong will be all right. With the type you have described in "W.W." No. 20, 1926, you will have a very good amplifier and will be able to broadcast from a distance.

A. Bevan (Burleigh) - I have a "Burgess" for every circuit and value...

BURGESS for every circuit and value...

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National Library of Australia
MAKE YOUR SET the best you have ever heard!
MAKE IT WITH CENTRALAB PARTS

The Centralab Radiohm represents the latest established and best way of controlling oscillation and volume, superseding the old Neutrodyne method. For every type of Resistance Control, they have been pronounced by experts unequalled in efficiency.

- No. 1 M. Radiohm
- No. 20 M. Radiohm
- No. 100 M. Radiohm
- No. 300 M. Radiohm
- No. 400 Volthysters
- No. 197 Variable Grid Leaks, without condensers
- No. 197 Variable Grid Leaks, with No. 3035 condensers
- No. 206 6 ohm Rheostat
- No. 230 6 ohm Rheostat
- No. 119 200 ohm Potentiometer
- No. 111 100 ohm Potentiometer
- Centralab Push Pull Battery Switch
- Centralab Modulator Plug

The Centralab Modulator Plug combines the control of the wonder, the Centralab Modulator with the ordinary volume plug. It is a unique device designed to control the volume and tone without in any way affecting the tuning. It is also a remarkable eliminator of static effects. Try one in your set.

N.B.: It will bring the reproduction of the speaker down in a whisper in places where music is not allowed.

- No. 1419 RESISTANCE. 2 stage Amplifier...
- No. 189 RESISTANCE. 2 stage Amplifier...
- No. 1419 RESISTANCE. Amplifier Kit...

IF YOUR DEALER DOES NOT YET STOCK THESE PARTS, WRITE TO US
SOLE DISTRIBUTORS:

UNITED DISTRIBUTORS LIMITED
72 Clarence Street, Sydney

242 Queen St., 27 Chester St., 36 Queen St., Cr. Jericho Quay & Harris St., 66 Charles St.,
MELBOURNE, ADELAIDE, PERTH, WELLINGTON, N.Z., LAUNCESTON, Tas.
The Crosley Musicone

New speaker principles end common “loud speaker” faults.

Now you can get the full joy of radio. Those thin, tinny piano notes, those muffled, nose-holding singers’ voices—mere shadows of the living, thrilling originals—are gone forever.

Now, by the incorporation of new acoustic principles, the Musicone gives you volume reproduction of human voice and all musical instruments with faithful exactness. It fills and rounds out, puts life, fire, reality, into the shadowy phantom voices you have been so accustomed to hearing.

£4-17-6

From all Good Radio Dealers:

Copy of our well known guarantee, which accompanies every speaker.

:: Guarantee ::

Purchase this Crosley Musicone. Take it home and try it for five days. Try it in comparison with any loud speaker made. If you are not satisfied, return it to the dealer from whom you purchased it. He will promptly refund your money without argument, delay, or question. There will be no annoying red tape to go through.

Metropolitan Electric Company, Ltd., Sydney

When at the Technical College Radio Exhibition, look for our display of “Radiokes” and “Cowradio” Products.
COLMOVOX
SUPER FIVE MODELS
1926

Price, £49/10/-

FULFILS YOUR UTMOST DESIRE IN BEAUTY AND PERFORMANCE

THE 1926 SUPER COLMOVOX is beautiful to look at—lends an atmosphere of dignity and worth to Library or Drawing Room. Naturally you expect unusual performance from so beautiful a Radio Set and unusual performance is exactly what you get. Tuning, for example, is controlled by three dials only—so perfectly adjusted that each station comes in always at the same dial settings. It never varies. Powerful sets may be on full blast, yet you can tune them out completely and bring in distant stations. Tone reproduction is always clear and true, the volume always adequate. Non-regenerative and extremely silent in operation, this Receiver comprises two stages of tuned Radio Frequency Amplification, Detector and Two stages of Distortionless Audio Amplification. Before you choose the receiving set to occupy the place of honour in your home, be sure to see and try the COLMOVOX. Its beauty you will recognise at a glance. Its extraordinary capabilities we will be always glad to demonstrate.

COLVILLE MOORE WIRELESS SUPPLIES LIMITED
10 ROWE ST., NEW HOLLAND, SYDNEY
New Observation Reports of Fading Expedition

(Continued from Page 10)

and steady throughout the evening, and the volume was reasonably good, being quite equal to that of 3LO, although the distance was about four times greater.

Signals from 2BL behaved similarly to those of 3LO. 2FC was strongest; but its strength was not as great as was anticipated. Observations by local listeners to show that this is generally the case with 2FC. 3CL showed slight signs of fading, and throughout its signals were muffled in character. It was not possible to determine whether this was due to transmission or to atmospheric phenomena.

WAGGA

The receiver was set up in a spare room at the post office, but it was not the interference from automatic telegraph machinery that was immediately decided to make the observations in some more suitable location. Since Wagga is almost half-way between Melbourne and Sydney, it was particularly desirable that reliable observations should be made, and with the co-operation of one of the P.G. engineers, the receiver was placed in a car and set up on the outskirts of the town, away from all electrical machinery. After a very few minutes, however, heavy rain set in, and the idea had to be abandoned, and the experiment was continued in a private house some distance from the centre of the town. 3LO was heard with excellent strength and purity, there being no sign whatever of fading or distortion. This condition held right through the period of the observations. Daylight signals from 3LO were reported to be satisfactory at all times, but 2AR was very weak and signals were badly distorted and subject to fading—conditions being similar to those noticed on 3LO in parts of Gippsland. Both Sydney stations were weak and fading badly at regular intervals. 2FC was muffled but local observers stated that it was not a usual condition. 4GQ was particularly general and the condition was almost as great as 3LO. Signals from 3CL were weak on the whole, and slight fading was noticed but no distortion.

COOTAMUNDRA.

Daylight signals from 3LO were just audible on the loud speaker, but were perfectly steady and of good quality. From about 4 p.m., 3LO's signals increased in strength, reaching a maximum shortly after sunset, but very little fading was apparent. At no time did the signals entirely disappear, but at long intervals they would fall slowly away to half strength, remain so for about 30 seconds, and then gradually rise again. 4GQ was heard with good volume, and for the most part the signals were steady, but at irregular intervals (say, 1 to 5 hour) they would disappear completely for about one minute, then slowly build up to full strength again. 2BF and 2FC could both be heard during the day, although the latter was fairly weak. Both these stations were received at constant strength and were free from distortion. At night, however, it was found impossible to follow 3LO, owing to extremely bad fading—similar to that noticed on 3LO in Gippsland. While fading was not particularly noticeable, the fading was of such a character that the signals would disappear completely for several minutes. At no time during the period of the evening observations did the strength of this station rise to what it had been during daylight. 2FC came through with good volume and clarity, but throughout the whole evening was interrupted by atmospherics more than any of the other stations. Adelaide—3CL—was clear and strong, but subject to irregular fading to about half strength somewhat similar to that on 3LO.

GOULBURN.

The apparatus was first installed at the Post Office, but so great was the electrical interference, that it was decided immediately to remove it to the hotel. Matters here, however, showed little improvement, and finally a private house on a hill overlooking the town was made use of. 3LO is not heard here in daylight, but several local listeners advised that 5ME is often heard during the day speaking to the tailors (5ME being the call used for the Bradbrook station when being modulated direct from the station). Daylight reception from both Sydney stations was clear and steady, 2FC giving the greater volume. Immediately after sunset, however, the shortwave station became very unsteady, and it was often impossible to follow what was being said, and the music lost all its quality. Speech and music from 2FC at night were steady, but inclined to be muffled in character. The volume was good. Atmospheric conditions were stronger on this station than the short wave stations. On 3LO no distortion was in evidence, although slight fading was apparent. The strength was equal to that of 2FC. 4GQ was perfectly steady and clear throughout the period of observations. 3CL and 3AR were weak but generally clear and steady, atmospheric conditions, however, made it impossible to make accurate observations on these stations. At approximately 8.30 the atmospheric discharges became so strong—even using the frame aerial—that all stations were obliterated.

MOSS VALE.

During the afternoon 2FC and 2BL were heard clearly, the latter being somewhat the stronger. Both remained steady and clear until sunset when 2BL became very erratic and no pleasure could be derived from listening to the programme. 2FC remained steady, but the transmission again seemed muffled. 3LO commenced to gain strength shortly after 4 p.m., and was heard clearly by 5 o'clock. The advent of darkness did not have much effect on this station as regards clarity—hardly any fading being noticed. The signals did not decline in strength for more than 30 to 45 seconds every half-hour. The strength was greater than any of the other stations heard including Sydney, and for a time it was the only one that could be understood through the static. 4GQ was steadier than 3LO, but the signals were somewhat weaker, and, therefore, suffered greater interference from atmospherics.
America's Latest 6-Valve Receiver—and undoubtedly the finest Radio proposition in the wireless world to-day

The "Eclipse Super-Six"

Here is the most powerful and selective of all Sets, a Super Six-valve, within the reach of the man of moderate means

at the unequalled price of £18/18/-
without accessories

or complete with first quality accessories £37/10/-

THE COMPLETE SET INCLUDES — Latest Magnavox Cone Speaker

Clyde Guaranteed Amplifier 6 201A Valves (Radistor)

3 Large Capacity Winchester B Batteries Aerial Equipment.

Complete with cheaper quality accessories . . . £30

Cash or Terms

To those who are desirous of possessing a Set embodying only the most advanced attainments in Radio, the "ECLIPSE" can be bought with the absolute assurance of giving the finest results possible in Broadcast receiving.

3 Salient Points of the "Eclipse"

1. The latest method of amplification used ensures the most wonderful tonal quality.

2. Simplified tuning—Two dials only used.

3. Beauty of design in Cabinet.

Hear the "ECLIPSE" demonstrated in our Audition Room or in your own home, and be convinced of the superlative qualities of this remarkably low-priced Receiver.

A SUPREME OFFER IN LOUD SPEAKERS

The "MANHATTAN Junior Adjustable"

Height 22" H. 18 in. wide

Usually priced at 35/,-, a Special Big Purchase enables us to offer this efficient speaker at the astounding price of 22/,-. (Post free anywhere in Australia).

Mick Simmons Ltd.

"The World's Greatest Speakers"

Headquarters: 720 G HAYMARKET, SYDNEY

And at BRISBANE
An Extraordinary One Valve Receiver

(Continued from Page 41.)

Looking back on the receiver.

Two small brackets will hold the coil in position or cut a piece of 1 in. wood, say 1 in. wide, and with a pencil, mark off the square corners that is just inside the bottom of the coil former.

Screw this carved piece of wood to your board and fit your coil over it, screwing through your tubes to make things tight.

You are now ready to wire up. Follow closely the back panel wiring diagram and cut the circuit, and this little job will be easily mastered. The back of panel view will prove of value to you in any doubtful connection.

Test out by connecting your batteries, aerial and earth, and plug in your speakers. Don’t put too much "B" Battery on your valve for a start. Start with 23 or 25 volts and tune in your station. If your results are not as you expect, increase your "B" Battery step by step until best results are obtained. Perhaps even then you may find difficulty. If so, reverse the connections of your 6-60 tubes portion of your inductance. This will fix it. The substitution of a smaller fixed condenser for the 301 may prove of value.

This little receiver will astonish you, but bear in mind, don’t depart from the size of variable condenser or number of turns quoted here for the inductance. If you do you might be disappointed. And if you add a stage of audile, separate "B" batteries will be required. Adding a stage of radio is not practicable.

Parts Required:

1 Panel, 10in. x 7in. x 2/16in.
1 Jenny Variable Condenser.
1 Receiver (to suit valve).
1 Valve socket.
2 C.C. Jacks.
1 2505 Grid Condenser.
2 midget Link.
4 inches 8in. diameter Bakel
tite or Cardboard Tubing.
1 oz. No. 24 D.C. Wire.
2 Ends.
4 Terminals on Board.
1 Baseboard, 10in. x 7in. x 1in.
1 Brush...

PHILCO—"Ask the man who has one."
"BEE-BATS"

The popular rechargeable batteries now available through the Wireless Weekly are a boon to every wireless enthusiast. They are a small charge at negligible cost and trouble every week or fortnight, and their reliability is beyond question. If you know how to charge at home from A.C. You can buy your BEE-BATS at the price advertised and we will send you parts of a radiotelegraph for 2s.

8 pence per volt

Order yours while this price lasts

We want to sell BEE-BATS to radio amateurs who have direct current to their homes, for they will be able to give their BEE-BATS a small charge at negligible cost and trouble every week or fortnight, and their reliability will be sure. If you know how to charge at home from A.C. You can buy your BEE-BATS at the price advertised and we will send you parts of a radiotelegraph for 2s.

B. WYNNE

"RELIABILITY IN RADIO"

FARMER'S Finest Wireless Accessories

ensure very best Results under all conditions

Crystal Detectors

An efficient Crystal Detector which will give the utmost satisfaction in the Crystal Receiver. Price 2/6

"Ever-Ready" Batteries

<table>
<thead>
<tr>
<th>Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1</td>
<td>3/6</td>
</tr>
<tr>
<td>W10</td>
<td>4/6</td>
</tr>
<tr>
<td>W15</td>
<td>5/6</td>
</tr>
</tbody>
</table>

"Beede" Volt Meters

A "Beede" pocket type Volt Meter is a necessity for the owner of a wireless receiver, for with it he can at all times determine the state of the B.E. Battery. Price 1/6

T.C.C. Condensers

<table>
<thead>
<tr>
<th>Value</th>
<th>Price</th>
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</thead>
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<tr>
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<tr>
<td>1 MF</td>
<td>1/6</td>
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<tr>
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<td>2/6</td>
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<tr>
<td>2 MF</td>
<td>3/6</td>
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<tr>
<td>3 MF</td>
<td>5/6</td>
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Reliable Transformers

<table>
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</thead>
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<td>2/6</td>
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<tr>
<td>&quot;Broads&quot; Transformers</td>
<td>2/6</td>
</tr>
<tr>
<td>&quot;J.W.A.&quot; Transformers</td>
<td>2/6</td>
</tr>
</tbody>
</table>

Ayanbee Hydrophones

No one owner should be without an "Ayanbee" Hydrophone, for with it the condition of the transmitter can at once be determined. Price 4/6

Radio Crystals

<table>
<thead>
<tr>
<th>Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Transistor&quot; Price 2/6</td>
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</tr>
<tr>
<td>&quot;Ayanbee&quot; Price 2/6</td>
<td></td>
</tr>
</tbody>
</table>

FARMER'S, SYDNEY

Box 407 AA, G.P.O.

RADIO SUPPLIES: GROUND FLOOR
The ORIGIN OF S.O.S.

Although in most cases it is commonly stated that the significance of the above three letters is “Save Our Souls,” or “Show us the Way,” this definition did not occur in the minds of the members of the Wireless Telegraphy Conference held at Berlin in 1900 when the walk-around distress signal was adopted. The first suggestion that a special combination of letters should be used by any ship in need of assistance was put forward by the Italian delegate to the preliminary Wireless Conference held at Berlin in 1900. It was then proposed to adopt: S A S D D D, and instructions were to be given to all ships that, in the event of such a signal being received, telegraphic traffic should be immediately stopped. “C Q D”.

The other delegates present at this conference agreed to the proposal, in principle, and the final decision was to be left to a special Conference. Shortly afterwards, however, the Imperial Co. recognized the necessity of the immediate adoption of some special signal to meet the case, and on February 1, 1904, definitely instructed their staff to use the famous “C Q D,” the last letter, coupled with the signal “S O S,” to indicate danger.

In 1906, in Berlin, the German Government suggested that ships in distress should broadcast the letters “S O S,” and this was immediately accepted by the Wireless Telegraphy Conference.

The letters were not chosen at random, but on account of the ease by which they could be transmitted, the simplicity of the signal preserving the least possibility of error.

I will Assist You

A wireless message window display.

THE ORIGIN OF S.O.S.

EMIRCO VERNIER DIAL

We have been shown a sample of the Emirmo vernier dial which is manufactured by the Electricity Meter Mfrs. Co. Ltd., Sydney. There are several features which recommend it especially to radio users quite aside from its excellent manufacture and appearance. The hair-line adjustment is a particularly good feature since it undoubtedly allows of the most minute tuning and accurate adjustment. Of particular appeal is the “sliding” window on one side of the dial which makes it possible to mark the null point of each station in pencil so that the listener can return to any particular station immediately. The finish of the dial is particularly good and apart from its easy movement it is unquestionably an ornament to any set. The dial is manufactured both in bakelite and in metal and is obtainable with a clockwise or anti-clockwise movement.

The Advice of Experts will Assist You to Build this Amazingly Selective

2-VALVE REINARTZ DUAL CONTROL RECEIVER

described in “Wireless Weekly”

October 15.

WHEN YOU BUY THESE
TESTED PARTS,

1. 10m Watt Valve 2. 100m Watt Valve
2. Advance Condenser 3. 0.0005 Grind Condenser & Lens
3. Bakelite Valve Socket 4. 6
4. B.C. Jack 5. 1
5. Pval 50k Transformer 6. 13
6. Terminal Strip 7. 2
7. 672 Former 10 in diameter 8. 0
8. Ng No. 22DCG 9. 2

TOTAL 92 18 7

Valves and Batteries are additional

“The Oldest Wireless Shop in Town.”

TELE: CITY 6047.

Miss F. V. WALLACE

THE Wireless Shop in Royal Arcade,
Sydney.
3 doors from George Street.

The guarantee of five years’ reputation and service stands behind every article sold in this shop—and we sell everything for wireless.
A Neutrodyne

(Continued from Page 93.)

A Neutrodyne is in a receiver that one will stop owning. Static, during the summer months, may give a nuisance, but a short aerial makes greatly in reducing this. A short is best with a neutrodyne, as it allows greatly in selectivity as well.

The writer of the article uses a single wire type of aerial 60 feet long and with an average height of 25 to 30 feet. Glorious summers have been spent at home with a neat, and it is always been a pleasure to listen.

When static has been bad, the aerial is disconnected from the set altogether, leaving the earth wire only connected to the set. Another improvement recently installed is the inclusion of a field condenser right across the B battery.

WANTED—All kinds reconditioned Wireless Sets, Parts, Speakers, etc. Best prices given. JACK DAVIES, 56 George Street West, Melb.
Trade Notes

CROSSOVER POINT ONE.

A distinct advance in valve design is shown in the new Crossover point one, just placed on the Australian market. The first illustration shows a section of the valve rotor in order to expose the grid and the filament. Note the isolating insulator, which securely holds in position the grid and the anode. To all intents and purposes the insulator becomes an integral portion of the two elements—the slightest individual movement of either of them is quite impossible. Through the centre of the insulator is passed the fine wire which retains the filament in position. Thus, even the smallest shock cannot disturb the exact relative position of the filament, grid and anode.

AMPLIFIER DEMONSTRATOR.

Unlike the ordinary the radio dealer experience in demonstrating various types of loud speakers to the public, the well known house of Graham has placed on the market a Demonstration Panel arranged to giving into circuit any set of vacuum speakers, thus enabling a quick change over from one to another. In addition, the circuit is arranged to permit of either one of two positions being switched over in the loud-speakers. This arrangement is invaluable to the dealer who is anxious of demonstrating his different lines in a quiet and simple manner.

The well known Amplifier Switch Circuit is embodied in the Demonstrator and can be connected in the main circuit at will by the operation of a switch on the panel. This arrangement consists of an inductive winding and condenser of definite values, so arranged as to permit of the direct current from the plate of the valve being by-passed through the winding, at the same time checking any oscillatory currents which will pass via the condenser and loud speaker windings.

This arrangement, in addition to improving the usual qualities, prevents demagnetisation in the event of the windings being connected the wrong way round, and reduces to a minimum the possibility of the loud speaker winding breaking down.

Get Rid of Valve Trouble

Get rid of those irritating murderous vacuum smokes by using the new improved Lotus Vacuum Valve Holder, which absorbs shock and prevents near values.

Value speakers are now backed nowadays by a mechanical process, making a definite and immovable connection with the grid and filament; also, adjacent tubes within and outside improve valve sockets, undisturbed.

From all Radio Dealers.

SLINGSBY & COLES Limited
Under Central Station 482 Pitt Street.

OUR SPECIAL SABBATEKNE COIL KIT

The New RADIOKES COIL KIT

For use in the famous Neutrodyne Circuit

The Coil will you can buy normally buy
At all leading Radio Dealers

$2.6 per set

With this coil
Metropolitan Electrics Co. Ltd.
27-8 King Street, SYDNEY

Easy Terms Easy Terms.
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Please forward "Wireless Weekly" for a period of .......................

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The Moving Block

Cannot fall back

The way with that inclining close-moving running block of

wire, pressed by the Bridge to make the ring block

fit a Lotus General Ventilat Coil Holder and put ready acoustic

holding. Has no May Vents in contrast, keeps the speed to eight frames, and stays where it's put-entirely

fit to use varying, with no weight of coil-just be satisfied

with the noting.

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COIL HOLDERS

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Lotus Weekly, Broadway Road, Liverpool

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WEEKLY

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*Vertical “B” Battery* No. 4772

**Designed** for all sets having not more than four tubes using 90 volts. Occupies less than half the table space of the horizontal 45 volt battery, yet contains the same large, powerful cells. Three Fahnestock spring clips—negative, plus 22½ volts, and plus 45 volts.

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Made by the manufacturers of the Famous Columbia Dry Cell.

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**British and Guaranteed Atlas Coils Stands**

Accuracy of Tuning.
Cables can’t fall over.
Mechanically and Electrically standard in design.

The “Atlas” horizontal Coil Stand is fitted with our Patent Micrometric Adjustment, yielding perfectly even slow movement and preventing the slacking up of the moving coil. No fear of missing carrier waves owing to a too quick movement of the coil.
Both 2 and 3 way types give an accuracy of tuning which is a delight, and are suitable for panel interest.

All sections heavily nickel-plated. Plain sections at standard centres.

**Prices:**
- 8-way .................. 13/- each
- 6-way .................. 16/- each

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bear the above seal

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Equally useful as a detector or as a high-efficiency radio or audio-frequency amplifier. Extremely economical of operation. Adaptable to dry battery operated sets.
Flame length 9. Current 50 ma.
Price 15/6

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The standard all-round flexible storage battery valve—good in any detector or amplifier circuit—sure to give the best results at the lowest operated cost.
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RADIOTRON UX 120
New dry cell Radiotron for use in the last stage of audio amplification only. Exceedingly high filament tension. Voltage equal to that of two 1V.p.p.
Flame length 9. Current 125 ma.
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RADIOTRON UX 112
A new power valve similar to the familiar UX 101A, but several times as powerful. Designed for use as last valve in accumulator operated sets, when it will deliver for more energy than the common loud speaker requires. Two of these valves will give exceptional results. Flame length 9. Current 50 ma.
Price 22/60

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(Australasia) Ltd

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Rear's Flogging, Charles Street, Adelaide

35 & 37 Chambers, Queen St, Auckland

Write to-day for your copy of the Radiotron Booklet—"A wealth of information!"
NO expensive accumulators
NO periodical recharge costs
NO “run-down” dry batteries

Here is a new, simplified, and better type of battery made especially for radio use.

THE AMPLION CARBONCEL

Is constructed on an exclusive formula which enables it to deliver steady, low voltage and gives it extraordinarily long life.

It is the only air-depolarizing primary battery to successfully replace an accumulator.

STAYING POWER:

Unlike other primary cells of similar description, an Amplion Carboncel possesses remarkably staying power. It retains its strength whilst not in use. It will give six to twelve months’ service on a four valve set on its first charge and recharging can be done at home in a few minutes by simply adding a little sal ammoniac.

CARBONCEL No. 222

is a low tension battery for filament lighting with a voltage of 1.45 and capacity 600 ampere hours.

CARBONCEL No. 370

is used for U.L.T. or plate supply. Voltage, 1.45. Capacity, 54 amp. hours.

Solc Agents for Asia:

AMPLION (AUSTRALASIA) LIMITED

56 MARGARET STREET, SYDNEY

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