

The Scott News

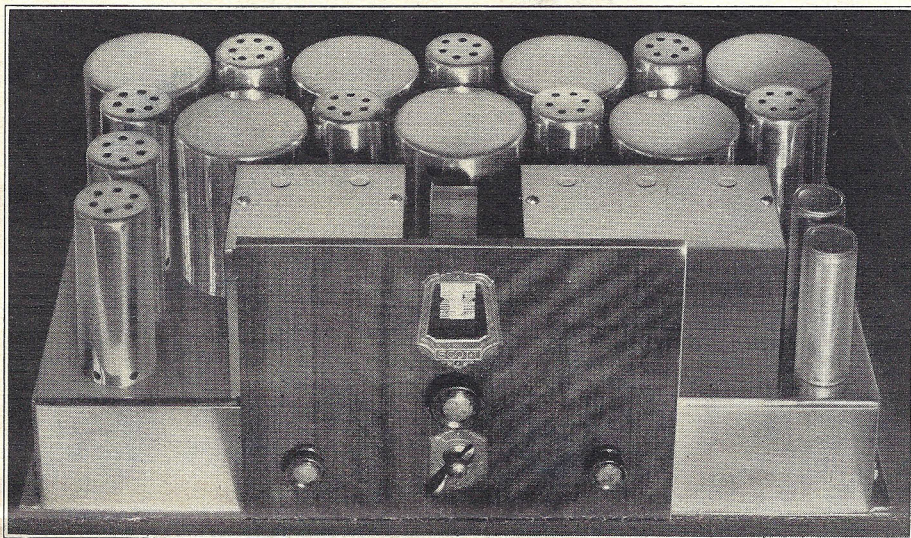
Vol. 5

MAY, 1932

No. 8

ANNOUNCING THE NEW MODEL **SCOTT DE LUXE ALLWAVE**

NO PLUG IN COILS »« ONE DIAL



CHASSIS OF SCOTT DE LUXE ALLWAVE

OUTSTANDING FEATURES OF NEW MODEL

WAVELENGTH RANGE—15 to 550 Meters—No Plug in Coils.

TRUE ONE DIAL—No Trimmers used on any Wavelength.

DISTANCE RANGE—Up to 9,000 miles consistently.

SELECTIVITY—At 10 times F.S. 4.5 KC—at 100 times F.S. 9 KC—at 1,000 times F.S. 14 KC.

SENSITIVITY—.6 microvolts per meter at 600 KC.—.012 microvolts per meter at 1400 KC.

FIDELITY—Flat within 2 DBs from 30 cycles to 3,000 cycles.

12 TUBES—Complete A. C. operation.

GUARANTEE—Every Part Guaranteed Against Defect For Five Years.

PROOF OF EVERY CLAIM ABOVE GIVEN IN FOLLOWING PAGES

TEST LABORATORY REPORT

ON EFFICIENCY OF

SCOTT DE LUXE ALLWAVE

About four years ago the Institute of Radio Engineers established a set of standards to measure radio receiver performance. These standards are designed to indicate the exact efficiency of the receiver, and while extremely valuable to the engineer in aiding him to design and correct errors in the design of the receiver, it is rather difficult for anyone not thoroughly familiar with engineering details to interpret them.

A complete comparison of the curves on this page with those of any other receiver that has ever been measured in the Citizen's Radio Call Book Laboratory will show that this new DELUXE ALLWAVE RECEIVER is the most efficient radio instrument that has been developed up to this time.

They prove positively that the SCOTT DELUXE ALLWAVE RECEIVER is be-

tically the same field strength. For example: It might be possible to bring in a station on 700 Kc. when another station is operating on 710 Kc. when the field strength of the local station is not more than ten times the field strength of the distant station. Suppose, however, the field strength of the local station is 100 times that of the distant station, it might be impossible to receive it, because at 100 times field strength your selectivity may be 20 Kc.

An examination of the selectivity curve of the DELUXE MODEL taken in the center of the broadcast band (1000 Kc.) shows the following selectivity:

- 10 times field strength.....4.5 Kc.
- 100 times field strength..... 9 Kc.
- 200 times field strength..... 10 Kc.
- 5000 times field strength..... 20 Kc.

In other words, it means that this receiver can separate two stations without any interference whatever and bring in a distant station through a local station whose field strength is 200 times greater than the distant station just 10 Kc. away from it, or a distant station through a local station with 5000 times greater field strength just 20 Kc. away. This is remarkable selectivity, and we have no record of any receiver of any make whatsoever that has ever attained this degree of selectivity before.

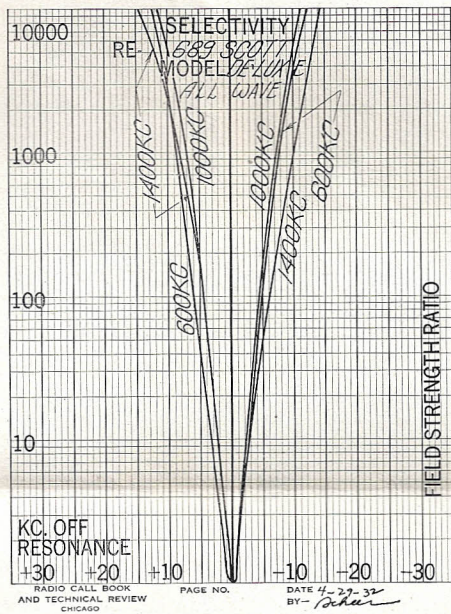
Sensitivity Unbelievable

The sensitivity curve is designed to show what can be expected of the receiver in the way of reception of distant stations. The sensitivity curve is based on a 4-meter antenna and shows that at 600 Kc. it is 2.6 microvolts absolute or 6/10ths of a microvolt per meter at its poorest point and .048 microvolts absolute at 1400 Kc. or 12/1000ths of a microvolt per meter. This is almost unbelievable sensitivity. Many engineers have claimed that it is impossible to use sensitivity in excess of five or ten microvolts, on account of the increase in tube noises when such a high degree of amplification is obtained. In this new receiver we discovered means of reducing these tube noises many times below the usual level, and the actual performance of the receiver on the air very decisively proves the fact that not only sensitivity of the order just named can be used to advantage in the average location, but that this DELUXE ALLWAVE MODEL is actually QUIETER than most of the commercial models having a sensitivity of 5 or more microvolts.

Two weeks ago I was testing this receiver on reception from VK2ME at Sydney, Australia, against our regular

ALLWAVE model. In throwing the switch which connects the antenna to either of the two sets, I noticed that when it was in the midway position the signal from VK2ME was still coming in, although very faintly. I thought perhaps I was getting pick-up from somewhere, so pulled the antenna wire plug out of the wall, leaving only about six feet of wire connected to the antenna post of the receiver.

I turned up the volume control and immediately VK2ME came in with enough volume to be heard all over the house. Thinking perhaps that my body was acting as an antenna through holding the antenna wire in my hand, I hung the piece of wire over the lid of the cabinet and the signal was just as loud as ever. I then disconnected the piece of wire from the antenna post and imme-

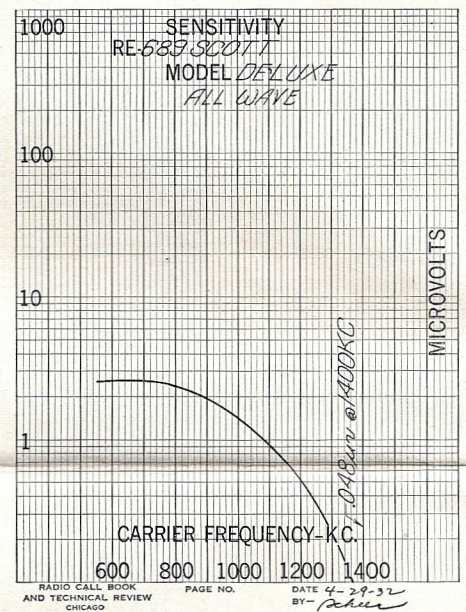


Selectivity Curve

yond all question the most sensitive receiver ever developed, and a comparison of the selectivity curve with those of any other receiver proves absolutely it is the most selective receiver that has ever been designed.

Selectivity Proved

The selectivity curve shows the ability of a receiver to tune out stations on adjacent channels. Ten Kc. selectivity is claimed for many receivers, but the manufacturer making these claims very often omits to point out that this 10 Kc. selectivity is ONLY obtainable when tuning between two stations having prac-



Sensitivity Curve

diately the signal disappeared, proving quite conclusively that Sydney, Australia, was being received with a pick-up of only six feet of wire. I then connected the full antenna to the receiver and made a recording of VK2ME, then pulled the plug out of the wall, leaving only the six feet of wire connected, and continued recording the program, and the only difference noted between the recording made with the regular antenna and the six feet of wire was that, as one would naturally expect, the volume was a little lower and there was more noise when using the six feet of wire.

Radio Editor Listens to Foreign Station 10,000 Miles—U. S. Station 900 Miles Distant and Local Station 9 Miles Distant, ALL Within One Minute.

Transmitting at the same time this "stunt" was accomplished was W1XAZ at Springfield, Mass. VK2ME operates on 31.55 meters and W1XAZ on 31.36 meters, a separation of about two-tenths of a meter. VK2ME is 10,000 miles away and was received without the slightest interference from W1XAZ, although this station uses 20,000 watts. VK2ME could be tuned out and W1XAZ could be brought in, without a trace of interference, and moreover, VK2ME could be received with nearly as much volume as W1XAZ. Unless one was familiar with the voices of the announcers on both of these stations, it was practically impossible to tell which was the local and which was the station 10,000 miles away.

I thought I would like to let someone hear this performance, so called up Mr. Charles Gilchrest, Radio Editor of the Chicago Daily News, and within the short space of less than one minute Mr. Gilchrest had the experience of listening, first to VK2ME at Sydney, Australia (he heard the call letters and announcement), 10,000 miles away; then W1XAZ, Springfield, Mass., 900 miles away; and lastly WMAQ, Chicago, 10 miles away.

Proof of Perfect Tone

Any radio receiver that does not have a clear and pleasing tone is not worth placing in any home, no matter how selective and sensitive it may be. One of the major problems we had to solve before the DELUXE MODEL was ready to be offered to you, was the combination of perfect tone quality with extreme sensitivity and selectivity.

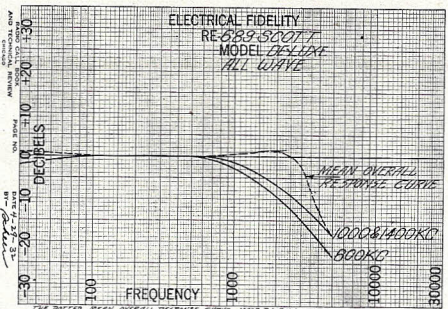
In our fidelity curve is shown the electrical fidelity which was made in the Measurement Laboratory of the Citizen's Radio Call Book and an overall response curve taken with special sound pressure equipment in our Laboratory is shown by the dotted lines.

An examination of the electrical fidelity curve and comparison of it with those of other receivers will quickly show that here at last is a real high grade audio amplifier system and one that is comparable to the amplifier used in the broadcasting station itself.

You will notice in comparing and examining other fidelity curves that where the SCOTT DELUXE ALLWAVE RECEIVER has a falling off of only 2 decibels at 30 cycles, practically every other fidelity curve is down from 8 to 20 decibels. No compensation in the speaker can possibly make up for such deficiency in frequency response at the low end of the scale.

All dynamic speakers have a rising characteristic about 1000 cycles and a properly designed amplifier takes this fact into consideration, so that the overall response of the receiver will be substantially flat.

The electrical fidelity curve measures the fidelity of the receiver up to the speaker, but as stated before does not take into consideration the characteristics of the speaker itself or the characteristics of the console in which it is used. The electrical fidelity curve, therefore, tells only half of the story, and the actual fidelity is only shown when the completed receiver is in the console and placed in a sound-proof room and an



Fidelity Curve

overall response curve made by putting a signal corresponding to a broadcast signal into the receiver through a dummy antenna, then feeding the output of the speaker into a sensitive condenser microphone which is precision built and calibrated, and a laboratory amplifier, the curves of both of which are definitely known and calibrated for this use only.

A curve of the Overall Response of the receiver made under these conditions is called a sound pressure curve. The sound pressure curve of the DELUXE ALLWAVE RECEIVER is shown in the fidelity curve by the dotted lines. This curve proves that the overall response of the SCOTT DELUXE ALLWAVE RECEIVER is flat within plus or minus 2 DB from 30 to 3000 cycles. This means that the human ear could not detect any difference or loss in frequencies between a selection as it is actually being played in front of the microphone at a broadcasting station and as it comes out of the speaker of the SCOTT DELUXE ALLWAVE RECEIVER.

Beginning with the March edition of 1930 the Citizen's Radio Call Book Magazine commenced publishing the curves of the sensitivity, selectivity and fidelity of radio receivers, and have up to this time measured approximately 140, practically every receiver that has been put on the market during the last two years.

We have made a very careful examination of the curves of every receiver that has been published up to this time, and believe we are simply stating a fact when we say that the curves shown on this page PROVE this new SCOTT DELUXE ALLWAVE RECEIVER is the most selective, most sensitive and one of the finest toned receivers that has ever been designed.

SCOTT ALLWAVE Owners Heard —13,280 Foreign Station Programs, 231 Foreign Stations, 41 Foreign Countries, During January, February, March, April.

On the first of the year we asked SCOTT ALLWAVE Owners to send in logs of programs they listen to on their SCOTT RECEIVERS, and since the first of January they have sent in a total of 13,280 logs of programs. Every one of these reports gives in detail the exact hour of the day the station was listened to and the kind of selection heard. Below is an example of the way these logs are written up.

- 5:11 a.m. E.S.T.—Musical selection, piano and violin.
- 5:13 a.m. E.S.T.—"VK2ME, Sydney, Australia." You announce the next selection.
- 5:13½ a.m. E.S.T.—Organ selection.
- 5:18 a.m. E.S.T.—"VK2ME, Sydney, Australia. The time is 18 minutes past 8, Sunday evening. Our next record will be a vocal one, 'Lucia di Lammermoor' sung by Lily Pons, 'cello accompaniment. 'His Master's Voice' recording." (This is coming in with good volume, although the weather here is very bad, with a very heavy fog, and a heavy downpour of rain.)
- 5:22 a.m. E.S.T.—"VK2ME, Sydney, Australia. The time is 22 minutes past 8, Sunday evening. Our next record will be an orchestral selection. 'Indiana Sweetheart'."
- 5:22½ a.m. E.S.T.—Orchestral selection. "Indiana Sweetheart," with vocal chorus. (Coming in with good volume.)
- 5:25 a.m. E.S.T.—"VK2ME, Sydney, Australia. The Band of Debussy, conducted by Captain Jerry Abers, will play a march, 'Blaze Away.'

These reports prove beyond all question that REGULAR foreign station reception is not something that is only accomplished by a few owners in special locations with special receivers, but that it is being accomplished by SCOTT Owners in every part of the world. These figures show clearly why it is possible for us to GUARANTEE owners of SCOTT ALLWAVE RECEIVERS consistent reception of foreign stations.

Such a large number of reports have been received from so many different foreign stations since the first of the year, that in April we called in a firm of Certified Public Accountants to make a careful check and certify to the figures we have given you and the following is the copy of their certificate.

April 9, 1932.

Mr. E. H. Scott, President.
E. H. Scott Radio Laboratories, Inc.
4450 Ravenswood Avenue.
Chicago, Illinois.

Dear Sir:

We hereby certify that we have examined and counted nine thousand five hundred thirty-five (9,535) logs of programs reported by purchasers of SCOTT ALLWAVE RECEIVERS from one hundred eighty-six (186) stations, foreign to the country in which received, during the months of January, February and March, 1932.

Yours very truly,
(Signed) Chestnut, Murphey, Poole and Company
Certified Public Accountants.

All of these stations were logged, of course, on the regular SCOTT ALLWAVE, but tests we have made prove that the reception results with the new DELUXE MODEL are even better (if it is possible to imagine such a thing) than are now being secured by the standard ALLWAVE RECEIVER.

COMPLETE HOME ENTERTAINMENT WITH SCOTT DE LUXE ALLWAVE

The Wellington model illustrated on this page represents the most complete and high-grade radio installation that has ever been offered to the general public. It is a fine specimen of furniture craftsmanship and Gothic design. One of the most beautiful styles the world has ever known. The front panels are of exquisite burlled English walnut, with the overlay on drawer and grill of imported English oak. The hand-rubbed finish brings out all the beauty of the fine woods and the carvings.

New Consoles All Acoustically Corrected

The Wellington console has been acoustically corrected to eliminate cabinet resonance at any frequency and insures that the music and entertainment coming from the speaker will sound to your ears as clear and natural as the original did when it left the broadcasting studio.

If you listen carefully to most radio receivers you will notice that while the tone is generally good, there is usually something in it that tells you you are listening to a radio. On certain frequencies there will be a little greater emphasis than you would notice if you were listening in person to the artist or orchestra. Then again, you miss the very low or the very high tones that are required to make the selection a duplicate of the original. You will also notice the tone from some receivers has a peculiar

barrel-like "boomy" tone while others sound thin or "tinny," and you are always aware of the fact that what you are listening to is coming from some mechanical instrument.

The acoustical correction of the five beautiful consoles specially designed for the SCOTT DE LUXE ALLWAVE RECEIVER, the receiver, the audio amplifier, and the speaker, have been so carefully and skilfully co-ordinated, that you actually will hear from this new model, in any one of the fine special consoles, tone more brilliant, clear, and mellow than you have ever heard before from any radio receiver. You will find yourself listening for hours on end, to the many and varied programs it will bring to your home.

The center drawer of the Wellington console illustrated can, if desired, be equipped with a recording apparatus for making your own records of programs from local or foreign stations, or in making records of the voices of your family or friends, and an electric pickup so that you can play back the records you have made or any regular standard records. It can be supplied with an automatic ten

record changer which will play the regular standard records running 75 revolutions per minute, or the new long playing 33 revolutions per minute records.

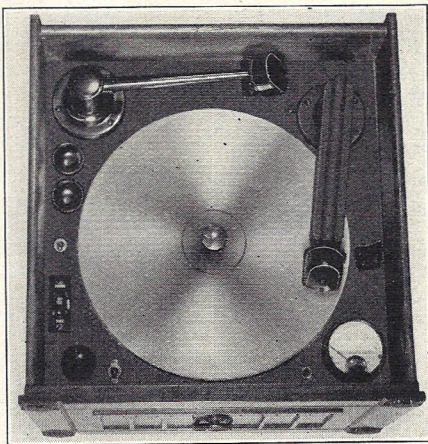
The new type of long playing records make it possible for you to give a whole evening's entertainment without any attention whatever on your part. You can, if you wish, secure a set of records that play through a complete Opera, or a set of dance records. These records are put in the magazine of the automatic combination, the phonograph motor started, then it will automatically play them through complete without stopping. As soon as the end of a record is reached the automatic record changer goes into action; the pick-up arm is automatically brought back and the next record starts playing. This feature opens up an entirely new field of home entertainment.

The Wellington console illustrated is only one of the distinctive models we have had specially designed to house this new DELUXE ALLWAVE model. The Wellington console, however, is the only one that has space enough to install the recording equipment.

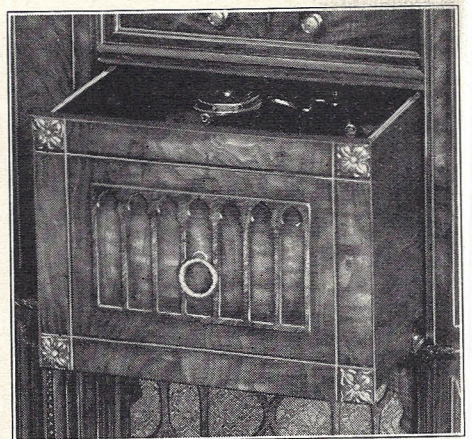
Another new console is the Nelson which can be supplied either as a regular console holding only the receiver or it can be supplied either with an automatic ten record phonograph or a regular single record phonograph player. In addition to these two consoles we have three others designed for the receiver only.



The Wellington Console Combination



Recording Apparatus for Making Your Own Records of Programs—Voices of Your Family and Friends. Electrical Phonograph

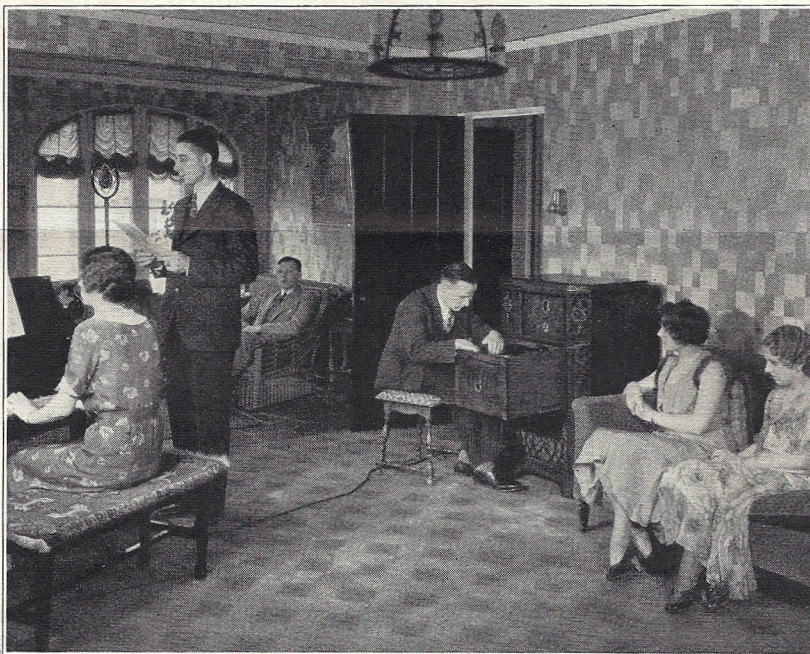


Combination to Automatically Play Ten Records Without Stopping, or Regular Single Record Phonograph Can Be Installed

NOW—HAVE YOUR OWN PRIVATE BROADCASTING STUDIO—MAKE RECORDS OF FOREIGN STATION PROGRAMS OR VOICES OF FAMILY OR FRIENDS

Probably one of the most interesting features in connection with the new SCOTT DE LUXE ALLWAVE MODEL is that with a microphone and our new recorder, you can set up your own private broadcasting and recording studio.

In one room you can have your friends singing or playing, before the microphone, then in the next room have your SCOTT DE LUXE ALLWAVE RECEIVER and hear their voices coming out of the speaker just as if you were hearing them coming over the air from a broadcasting station. When you get tired of listening to the regular broadcast programs, just set up your microphone and connect it to the SCOTT DE LUXE ALLWAVE, and your own private broadcasting station is ready. This idea you will find always interesting to everyone. It is surprising the amount of talent this home broadcasting idea will uncover.



The Scott Home Recorder Making a Record of the Voice of Your Friends

Shortly after the announcement that recordings were being made of the transmissions from VK2ME and VK3ME in Australia, inquiries began coming to us asking if it were possible to buy similar equipment for home recording. The recording of these two Australian stations was commenced with one of the home recorders that was being sold at that time. This, however, was not particularly satisfactory, so we went to work and designed one of our own. This has proven so satisfactory that we are now going to build it for use with the SCOTT DE LUXE ALLWAVE RECEIVER, and the regular SCOTT ALLWAVE.

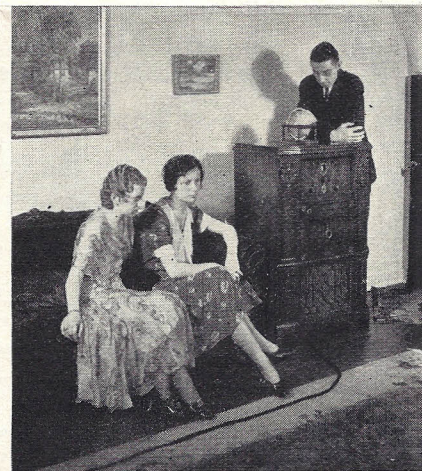
Here is your own private broadcasting station. In one room have your friends performing before the microphone—in the next room listen to them through the speaker of the SCOTT DE LUXE ALLWAVE RECEIVER.

The records made with this new SCOTT Recorder compare very favorably with professional recordings. After your friends have tried out their voices and you have heard them through the loud speaker, made a record of their voices with the recording apparatus, then play them back through the pick-up. This is great fun, as very few people realize just how their voices sound to others. Then again, if you are tuned in to a station when they are playing a selection you like, you can, with the recorder, make your own recordings of it.

Many people also like to make recordings of the foreign stations they receive. When your friends ask you to let them hear some stations on your set, if they visit you at a time of the day when no foreign stations are on the air, you can put on the records of foreign stations you have previously made and play them back; for, in addition to being a recording apparatus, it will also play back the records through the speaker.



You Set Up Microphone in One Room



And Listen to Selection Through DE LUXE ALLWAVE in Next Room

Cord Running From Microphone to Receiver in Another Room

SIMPLIFIED — YET HAIRLINE TUNING ON SCOTT DE LUXE ALLWAVE RECEIVER

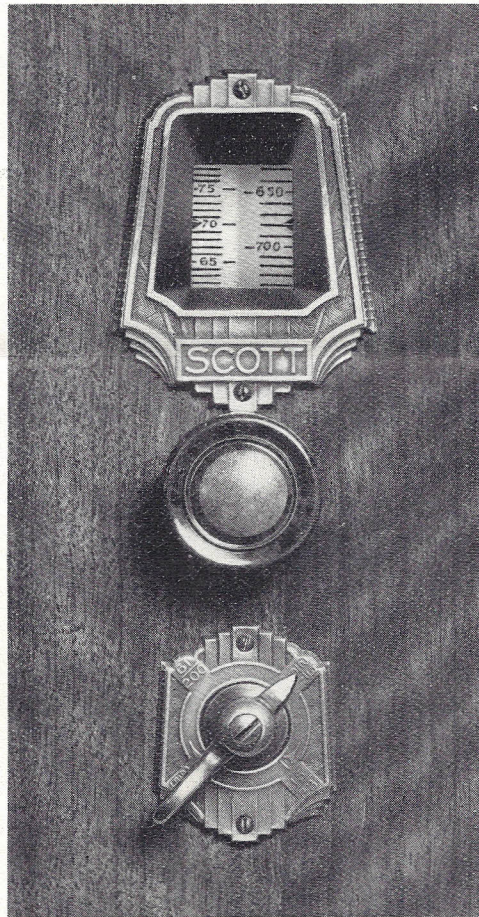
The simplicity of tuning on the SCOTT DE LUXE ALLWAVE RECEIVER is clearly shown in the illustration.

The knob below the dial escutcheon is the ONLY control required to tune in stations on EVERY wave length from 15 to 550 meters. One side of the dial is calibrated in kilocycles for the broadcast band, while the other is calibrated in numbers.

The standards to which this receiver is built are so close that the broadcast band kilocycle calibration is guaranteed to be exact from the top to the bottom of the scale. If you wish to tune in a station, for example, on 760 kilocycles you set your dial on the 760 kilocycle mark and there is exactly where the station will come in. This accuracy is only made possible by keeping every unit, coil and part that goes into its construction within extremely close limits and special precautions to make certain that after all adjustments on the completed receiver are once made, they will remain constant indefinitely.

The calibration in kilocycles for the various short wave bands are not shown on the dial, because what calibration could be given is practically worthless for practical purposes. When you realize there are no less than 1850 channels on the short wave band between 15 and 200 meters, you can readily understand the impossibility of condensing within the limits of a dial strip a calibration that would be of practical use.

We have, however, calibrated the short waves between 15 and 200 meters on our

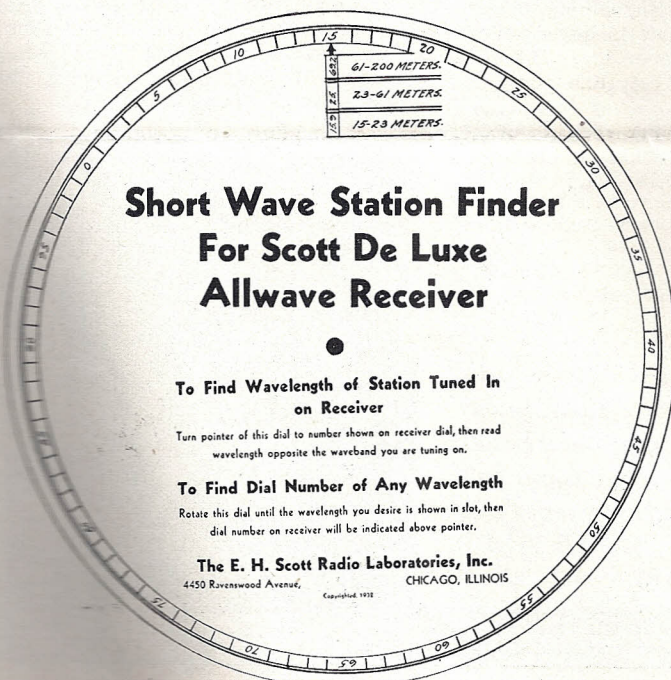


short wave station finder. With this it only takes a few seconds to find the exact position on the dial on which any short wave station is received.

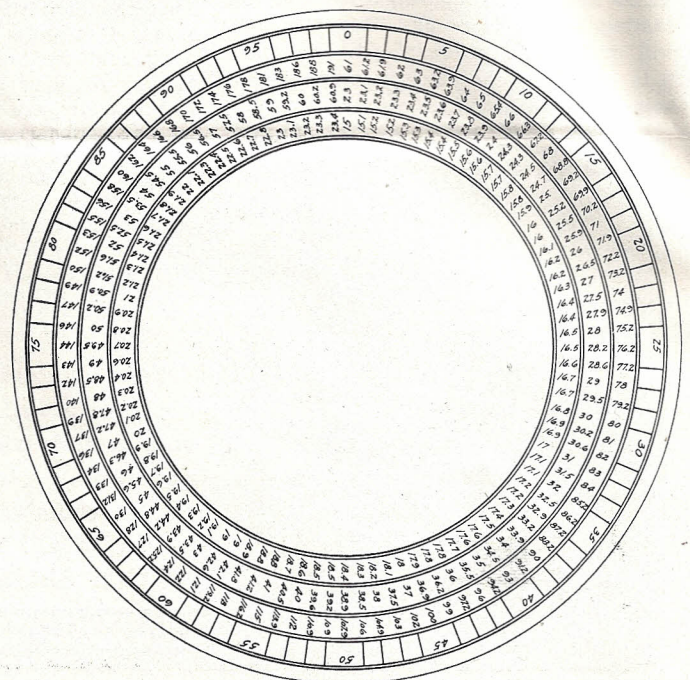
Suppose you wish to tune in a station on 25 meters. You would turn the top disc on the station finder and watch the numbers in the slot opposite the 23-61 meter band, because 25 meters falls within this range, until 25 meters appears in the slot. You would then read the number on the outside ring opposite the arrow, then set the pointer on short wave band selector switch on receiver to the 23-61 position, turn the dial to 15, and find the station.

It is just as easy to find the wave length of a station you have tuned in even though you do not know the call letters. In this case, you set the arrow of the short wave station finder above the dial reading at which you are receiving the station, then in the slot opposite the short wave band you are tuning you would read the wave length of the station you are listening to. This method has proved so successful and simple with the regular ALLWAVE that we could not improve on it for the DE LUXE model.

To give an idea of the completeness with which each band is calibrated I am showing a view of the finder with the top disc removed, showing the calibrations underneath. It will be readily seen that this system is much more accurate and complete than you could possibly secure with the short wave calibrations on the dial strip itself.



Complete Short Wave Finder



View Showing Inside Calibrated Disc

"SCOTT DE LUXE ALLWAVE OUTSTANDING ACHIEVEMENT IN RECEIVER DESIGN"

S. Gordon Taylor,
Technical Editor "Radio News"

It is difficult to get a man who has been in the radio business for ten or twelve years enthusiastic about ANY radio receiver, and especially a man who for years has earned his daily "bread and butter" criticizing, testing and describing radio receivers.

Mr. S. Gordon Taylor, Technical Editor of "Radio News," a radio journal which has a wide circulation not only in this country but is also eagerly looked forward to by readers in many foreign countries, is a man whose opinion we value highly.

One complete DE LUXE MODEL was shipped to him with the request that he put it to the severest tests he knew of, then let us know what he thought about it. Mr. Taylor's answer will be found in the telegram that has just been received. His enthusiasm can be realized from the fact that he is going to give a series of three descriptive articles on it in the August, September and October issues of "Radio News."

I believe the information Mr. Taylor will give on the actual performance of the receiver will create a sensation. His telegram indicates just a little of the results that can be accomplished with it.

As will be noted in his telegram on the short test he has made, he has secured results never secured before and these results were obtained in a location, that for reception, is probably about the worst possible to test a receiver.

The reception of anything but local signals in a downtown location either in New York or Chicago is practically

impossible with ordinary receiving equipment on account of the fact that there is such a tremendous absorption of the signal by steel in nearby buildings. Another thing that limits reception on most receivers is the pick-up from the electrical apparatus in the vicinity and the fact that Mr. Taylor in his first test was

able to bring in stations on the short waves from as far away as South America and clear across to the West Coast as he says "with enough volume to rattle windows" will give some slight idea of the extraordinary performance this new DELUXE ALLWAVE MODEL is capable of giving.

PATRONS ARE REQUESTED TO FAVOR THE COMPANY BY CRITICISM AND SUGGESTION CONCERNING ITS SERVICE 1220S

<p style="text-align: center;">CLASS OF SERVICE</p> <p>This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable sign above or preceding the address.</p>	<h1 style="margin: 0;">WESTERN UNION</h1> <p style="font-size: small; margin: 0;">NEWCOMB CARLTON, PRESIDENT J. C. WILLEVER, FIRST VICE-PRESIDENT</p>	<p style="text-align: center;">SIGNS</p> <p>DL = Day Letter NM = Night Message NL = Night Letter LCO = Deferred Cable NLT = Cable Night Letter WLT = Week-End Letter</p>
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The filing time as shown in the date line on full-rate telegrams and day letters, and the time of receipt at destination as shown on all messages, is STANDARD TIME.

Received at

NE125 173 DL 2 EXTRA 1/138 1932 MAY 6 PM 1 55

JR NEWYORK NY 6 203P

E H SCOTT, E H SCOTT LABORATORIES INC
 4450 RAVENSWOOD AVE CHGO

AFTER A HASTY PRELIMINARY TEST OF THE NEW SCOTT DELUXE ALLWAVE RECEIVER WE ARE CONVINCED THAT IT REPRESENTS AN OUTSTANDING ACHIEVEMENT IN ALLWAVE RECEIVER DESIGN AND PLAN TO RUN A SERIES OF THREE DESCRIPTIVE ARTICLES ON IT IN OUR AUGUST SEPTEMBER AND OCTOBER ISSUES STOP IMMEDIATELY UPON UNPACKING IT AT SEVEN OCLOCK IN EVENING IN OUR DOWNTOWN LABORATORY WHERE CONDITIONS ARE SUCH THAT WE RARELY ATTEMPT ANYTHING IN LINE OF DX RECEPTION WE CONNECTED SET UP AND IN TURNING SINGLE DIAL THROUGH ITS RANGE ON BROADCAST BAND HEARD SIGNALS ON FORTY EIGHT CHANNELS IN LESS THAN MINUTE STOP LATER WE TUNED IN STATIONS AT DISTANCES NEVER BEFORE ATTEMPTED IN THIS ALMOST COMPLETELY SHIELDED AND VERY NOISY LOCATION STOP SHORTWAVE RECEPTION IS USUALLY CONSIDERED OUT OF QUESTION HERE YET WE SUCCEEDED IN PULLING IN SOUTHAMERICA AND WEST COAST WITH ENOUGH VOLUME TO RATTLE WINDOWS STOP WILL YOU RUSH ALL AVAILABLE DATA FOR USE IN PREPARATION OF SERIES OF ARTICLES AS WE ARE NOW PREPARING AUGUST ISSUE IN WHICH FIRST ARTICLE WILL APPEAR.

S GORDON TAYLOR TECHNICAL EDITOR RADIO NEWS

The SCOTT NEWS

Published Frequently at Chicago by

E. H. SCOTT RADIO LABORATORIES

FORMERLY

THE SCOTT TRANSFORMER CO.

4450 Ravenswood Ave.

Chicago

E. H. SCOTT, Editor

Twenty months ago we announced a new model—the SCOTT ALLWAVE RECEIVER. In it was incorporated the results obtained over twelve months of experimentation, research and hundreds of tests. The proof of its advanced design is found in the fact that even today—twenty months since it was first introduced—it is **STILL** far in advance of any other commercial receiver obtainable. This is proved by the fact that it is **STILL** the only receiver that is guaranteed to give consistent day after day reception on foreign broadcasting stations.



E. H. SCOTT

Designer of 'Round the World Broadcast Receivers.

In introducing the new DELUXE model I want it clearly understood **THAT IT DOES NOT** obsolete the regular SCOTT ALLWAVE. I am still building this receiver and will guarantee that it will outperform any other receiver excepting the new DELUXE model, including the latest models of other manufacturers that have just been introduced.

It is interesting to note that during the eight years in which I have been building fine custom built receivers, I have only brought out six models, and what is still more interesting is the fact that **NOT ONE** of these models has yet become obsolete or unable to handle broadcasting stations as we have them today. In fact, the duplicate of the famous SCOTT SUPER EIGHT, the receiver which established the **FOUR WORLD'S RECORDS FOR DISTANCE** reception over eight years ago, is **STILL** in daily service in its owner's home.

However, when the SCOTT ALLWAVE RECEIVER was finally finished and put into production, work in the Laboratory was immediately commenced on the new DELUXE ALLWAVE RECEIVER, which this issue of the SCOTT NEWS announces. For twenty long months we

A STATEMENT FROM E. H. SCOTT ABOUT THE NEW DE LUXE ALLWAVE RECEIVER

have worked on it ceaselessly, overcoming apparently unsurmountable obstacles, and have brought it to such a point of perfection that I believe it sets a standard of radio performance that will not be equaled for many years to come.

There has been a continual demand for the elimination of plug-in coils and for a true one-dial receiver. It was with the idea of producing such a receiver that we commenced, twenty months ago, our experimental work on this new DELUXE MODEL.

For twenty months we have designed and tested literally hundreds of different methods of eliminating plug-in coils and very early decided that the loss of sensitivity with all forms of tapping inductances was too great, so the problem we set ourselves to solve was the elimination of the tapped switch and the duplicating of the results we secured with the efficient plug-in coils. Not only have we been able to eliminate the plug-in coils in the new DELUXE MODEL but the curves and the actual performance of the receiver proves conclusively that this new model is actually **MORE** sensitive than the regular SCOTT ALLWAVE.

The sensitivity of this new model is so great that about two weeks ago I received VK2ME, Sydney, Australia, on the loud speaker with enough volume to be heard all over a large home, using only **SIX FEET** of wire as an ANTENNA.

At the same time another problem that we had to solve was to design a receiver using only one dial and no trimmers, yet retain the selectivity we secured with the use of two dials on the SCOTT ALLWAVE. You will realize that any receiver that has one main tuning dial and an auxiliary knob is not a **TRUE** one-dial receiver; in fact, it is not as good as a regular two-dial receiver, because with a receiver which has one dial and a trimmer you are working blindly with the trimmer dial. With the regular two-dial receiver such as the SCOTT ALLWAVE, both dials can be calibrated. This new DELUXE MODEL, therefore, is a **TRUE ONE-DIAL RECEIVER** in that all tuning is done with the one knob without the use of any form of trimmers and from the highest to the lowest wave length brings in every station clearly and sharply. The curves on the inside pages will disclose the proof of its selectivity, which is nothing short of remarkable.

From past experience radio engineers have taken it for granted that a receiver with extreme sensitivity could not have, at the same time, fine tone. However, new features we have developed in the last twenty months of experimentation and research work have enabled us to overcome this in the new DELUXE MODEL. You will marvel that any instrument made of wood and metal could produce sounds so completely satisfying and pleasing to the ear. A glance at the fidelity curve given on page three will prove to anyone with the technical ability to read it that this model has perfect tone quality.

The new DELUXE MODEL, of course, has a world-wide range, which means that it covers all wave lengths from 15 to 550 meters. This means, literally, that you can bring to your home the broadcasting stations not merely of the United States, Canada and Mexico, but from all over the world!

No regular tuning dial could be found that would operate accurately and smoothly enough to tune in stations, especially on the short waves that were separated by only a fraction of a meter, so, in this new SCOTT DELUXE MODEL, we have designed a special "slow motion" dial without cords or anything that can get out of order. This new dial is a marvel of mechanical precision and enables you to tune in clearly and cleanly stations that are separated on the dial only a fraction of a degree.

The coil changing mechanism is one of the most beautiful pieces of mechanical precision you have ever looked at. To change the coils all you do is operate the small pointer on the front of the panel. This coil is connected to a shaft which operates the coil changing mechanism, and when I say it is built like a watch, I mean just that!

So many new features are incorporated in this model that the complete technical details will not be released for some time, so that the patent protection we are applying for on these features can be fully protected.

During the eight years I have been building fine radio receivers, I can say without the slightest hesitation and with utmost sincerity that this new DELUXE ALLWAVE RECEIVER is the finest receiver I have ever built and I am quite certain that it will be several years, if ever, before any other receiver will be produced that will excel its performance.