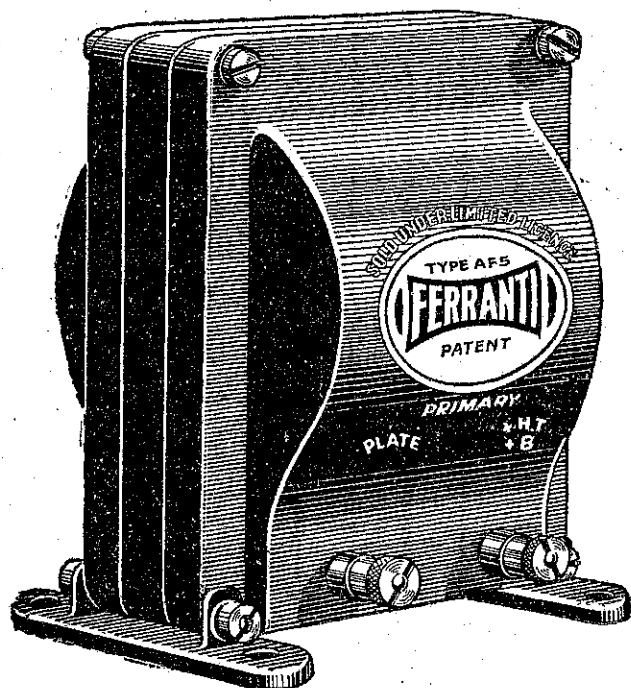


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Questions and Answers

B. S. (Christchurch): I have a commercial a.c. radiogram, and when the switch which changes from gramophone to radio is lying at neutral and the volume control is right off, there is a noise like static.

A.: Obviously a defective switch.

J. A. S. (Oamaru): I have constructed an a.c. set which appeared in an overseas publication. Commercial coils are specified, but no particulars of windings are given. Could you give me details of suitable coils wound on valve base formers?

A.:

Band	Secondary	Reaction
9-16	24	4
15-30	54	7
28-55	84	11
50-110	154	15

The secondaries should be wound with 28 d.s.c. and the reaction coils with 36 d.s.c.

H. F. (Dargaville): I have built the "Differential Two" with an extra audio stage. Could you let me know the best type of valves to use and how many turns of 28 s.w.g. enamelled on primary, secondary, and tickler windings, using .00035 tuning condenser and .0002 reaction condenser?

A.: For valves, use two type L210 and a P215. You do not state the diameter of the coil former you are using, but assuming it is 2in. the coil particulars are as follow:—

Primary 25-30 turns, secondary 75 turns, tickler 25 turns. If reaction is too fierce take a few turns off the tickler coil.

DX46W (Wanganui): I have a 4-valve s.g. set, but since shifting to Wanganui from Gisborne I cannot get any Americans.

A.: Locality is an important factor of long-distance reception, and evidently your present one is not so favourable as your last. Your aerial system appears to be quite sound, and we would not advise you to shorten it, as you suggest.

"NOVICE" (Auckland): I have a 5-valve a.c. set and wish to make a s.w. adaptor. Where could I obtain a circuit?

A.: In the 1930 "Radio Guide."

2. What stations would I then get?

A.: You should get all the worth-while short-wave stations in the world.

"PUZZLED" (Hastings): I have a four valve set and I cannot receive 2ZH as loudly as 2YA. Are my coils at fault, and could you give me particulars of them?

A.: If you can receive 2ZH at a definite peak in volume, i.e., if there is a falling away in loudness if you move the dial either way, the set is tuning down to 2ZH's wavelength all right. Possibly you are badly screened from 2ZH, but not from 2YA. After all you must remember that 2ZH operates with only one-fiftieth of the power of 2YA.

"LOCO" (Wanganui): Would tuning my aerial as per sketch be an improvement as regards distance and selectivity?

A.: Theoretically, yes, but practically we don't think it would be worth while.

E. A. (Lower Hutt): I am constructing the "Modern Five," which appeared in the December "Radio Times," and am incorporating band-pass filter which appeared about two months ago. My condenser is a four-ganged one, of .00035 mfd. capacity. What would be the new coil specifications, using 30 gauge enamelled and 1in. former?

A.: Secondaries, 180 turns, primaries (link coils), the same as specified.

2. What would be the effect if instead of winding the primaries over the secondaries, they were wound on the former below, spaced 1-16in.?

A.: In the Link band-pass filter the primary is wound in this manner, 15 turns being close wound, and 15 bunch wound. Overwinding would thus make the coupling too tight.

3. Would the number of turns for the aerial coil be the same as in the other coil? Would it be wound over or below the secondary?

A.: The Link band-pass filter does not use a separate aerial primary, but the aerial is tapped down the secondary. If you tapped your aerial at the 100th turn this should be O.K.

H. G. (Hamilton): I have an eight-valve commercial superhet, which has been in constant use for the past eighteen months. During the past month or two it has developed a scratching accompaniment to the modulation, that is to say, when the set is turned on the scratching is barely audible, but as the volume control knob is advanced so the scratching sound is increased. There is a continual accompanied rising and falling with the speech or music. All valves were tested a short time ago and are O.K. Electrolytics have been replaced but no improvement resulted. The set doesn't seem to be as sensitive as it was formerly.

A.: If, as you say, you have had servicemen in to examine the set, we are afraid we cannot help you much. The trouble sounds rather like a defective volume control or a broken down by-pass condenser, or resistor.

W. J. H. (Foxton): I have built the "Round the World Three," using three 201A's with a "B" eliminator and an accumulator. The set has now developed a squeal on short waves. I have tried altering the grid-leak, grid-condenser, transformers, chokes and coils, all in vain.

A.: As the trouble was not always there we think it lies in either your "A" or "B" supply. Is your accumulator O.K.? Also, it may be a broken-down condenser or resistance in your eliminator. In addition have your valves tested.

A. G. H. (Napier): Can you recommend a circuit to run a small dynamic speaker and capable of giving reliable reception of New Zealand stations only? Daylight reception of 2YA and the local station would be required also.

A.: You could not do better than either the "Simplicity Superhet" or the "Modern Five." Reliable and guaranteed kits of each of these sets can be

Information Coupon

(To be used with all requests for information.)

Name of set

Model

Name

Address

.....

.....

Nom de plume

To be kept in subsequent inquiries.

Please Note:—

(1) Be specific and brief, tabulating, if possible.

(2) Write legibly, and on one side of the paper.

(3) We do not design circuits.

(4) Limit three questions, unless 1/- is enclosed.

(5) Postal queries limit three questions. Enclose stamped envelope and 1/- fee.