

Questions and Answers

NEW CHUM (Wellington): I cannot get the "Differential One" to oscillate.

A.: Try reversing the connections to the tickler coil, doubling the number of tickler turns, trying a different r.f. choke, checking the wiring to see that the choke is in the right lead, raising the detector voltage, and as a final resort shunt a .0001 condenser between one of the sets of fixed plates and earth.

2. My aerial is 90ft. long, and 35ft. high. Would a longer aerial be better?

A.: This would bring in greater signal strength, but the set would be more difficult to get to oscillate. Incidentally, trying the effect of a series condenser of about .0001 in the aerial may improve oscillation.

3. The reception of 2YA and 2ZW are excellent, yet I cannot get any other stations.

A.: A one-valve set will not get very far, although, if you get the oscillation working correctly, you will probably be able to bring in at least a few outside stations. Your coils appear to be about right. It may be necessary to use more reaction turns, and a few less on the aerial.

CIRCUIT (Auckland): I can get only the Auckland station on my one-valve set. I have a 2-volt s.g. valve, but am not using the screen.

A.: This is probably why you are not getting good results. You must use the screen. For a suitable hook-up, see the "DX Two," described in the first issue of the "Radio Times." You can use phones instead of the resistance capacity unit. It should be an excellent circuit for your purpose.

TONE CONTROL (Pahiatua): Your best plan is to get in touch with the agents who sold you the tone control, as it is possible that it is defective.

UNCERTAIN (Christchurch): Your circuit appears to be satisfactory. The broadcast coil would comprise 24 turns of 30 gauge d.s.c. aerial, 70 turns 30 gauge secondary, reaction 20 turns 30 gauge wire, that is for a 2in. former, .00035 tuning, .0003 reaction. Particulars of shortwave coils may be obtained from the tables previously published in the "Radio Record." Use a 50,000 ohms. R3, 250,000 ohms. R4 5-1 meg. R5 450 ohms capable of carrying 40 mills. C2 .0001, C4 4 mfd. for good bass reproduction C6 .002-.006, according to your idea of tone. Unless the circuit were built upon a solid metal chassis, and the coil thoroughly shielded from the rest of the set, motor-boating would be troublesome. 57 could be used as a detec-

tor. We cannot supply a circuit, as if you will read our coupon you will see that we cannot undertake to do so. You should get ideas, however, from the modern one described in the current issue of the "Radio Times." A Telsen power output choke should be suitable for the pentode. We think this circuit should have greater amplifying powers than the Loftin White.

R. S. (Auckland): I have a seven-valve electric set and cannot pick up 1ZM, which is 14 miles away, yet I can get it on a crystal.

A.: Your condensers may be out of alignment, or your set may not tune low enough. If you do not know how to set about lining up your own condensers, call in a serviceman.

Q. R.M. (Auckland): I cannot get the battery superheterodyne adaptor to work with my a.c. set.

A.: Try reversing the connections to the oscillator coil; increase the B plus voltage to 90 volts. As a final resort add more turns to the oscillator coil. B minus is connected to either A plus or A minus.

SCREEN-GRID (Dunedin): Over what band does the longwave switch of the Super Six tune?

A.: Approximately 200-550 metres.
2. Both B plus leads are plugged in to B maximum on my eliminator. Recently I added another audio stage, but with the added valve there does not seem to be enough power to supply it.

A.: Even with the extra audio stage your eliminator should supply enough power. Are you certain the grid return of the power valve is all right, and that it is not being shorted with a resultant large drain upon your set? Possibly there is something wrong with your eliminator.

H. J.S. (Auckland): Without a circuit of the proposed alteration to your set we cannot advise.

UNCERTAIN (Christchurch): Your circuit appears to be quite satisfactory. However, a somewhat similar one will be described in a forthcoming issue of the "Radio Times," and from it you should be able to get a great deal of information.

2. Using 250-270 volts B and adhering to the values given in the circuit in this month's "Times," would the values marked be correct?

A.: They appear to be all right, but we cannot undertake to diagnose your circuit thoroughly.

3. What is the reason for the 10,000 ohms resistance connected in the s.g. lead of the 57 to earth?

A.: It is a bleed resistance to maintain a fairly constant potential on the screen valve. Without this drain it would be impossible to get constant potentials, seeing that the screens take very little current.

141 A. (Kingsland): When I tune the locals and handle the volume control, a slight rumbling is heard, and the control itself is very sudden.

A.: Apparently there is something wrong with the volume control, but exactly what it is impossible however, to say without analysing your set.

J. M. (Nelson): What is the size of the tuning condenser of the Differential Adaptor to be used with Sparrow Hawk One coils?—.0001.

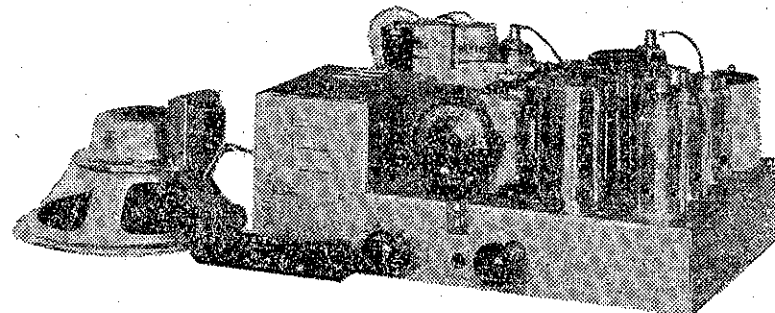
E. W.P. (Wellington): We cannot undertake to give you the coil data required. You will probably have to experiment to get it correct and even

(Continued on page 23.)

SEE THE LATEST FIRST

Buy an up-to-date set and SAVE MONEY

KREISLER 58 SERIES 6pin Type



The NEW TYPE VALVES MEAN

GREATER SENSITIVITY. GREATER SELECTIVITY.

98% More Silent Operation. Elimination of Two Spot Tuning

GREATER STABILITY.

REDUCES FADING.

Prices include Ever-Ready Raytheon Tubes and Jensen Dynamic Speaker.

5-Valve Super-Control Variable-Mu Pentode Model£16

6-Valve Super-Control Variable-Mu Pentode Model£17

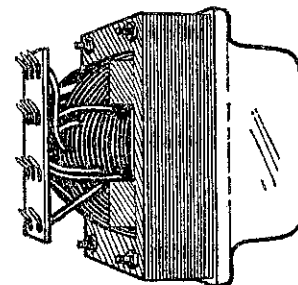
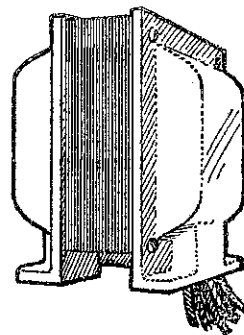
7-Valve Super-Control Variable-Mu Pentode Model£18

FREIGHT PAID BY US

Cabinets not included in above prices.
Mantel Type Cabinet, 37/6 extra.

Send for full particulars. We guarantee results to be excellent.

WRITE FOR ONE ON TRIAL!



POWER TRANSFORMERS

To Suit 4, 5 or 6-Valve sets. Either model. Secondary 375 each side, rectifying winding, all filaments, any size to order22/6

F. J. W. FEAR & CO.

63 WILLIS ST.

Telegraph "Fear"

WELLINGTON.

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.