

The Technical Editor will, through these columns, be pleased to help readers experiencing trouble with their sets. Queries are limited to three—for more than this a shilling fee is charged, and a similar fee is payable for queries answered by post. Supplying layouts, circuits and solutions of intricate theoretical problems is beyond the scope of this service.

A coupon must accompany all requests for information. Nonappearance of the coupon in any issue cannot be regarded as a reason for its not being used.

Address all queries, The Technical Editor, Box 1032, Wellington.

B.C. (Waitara).—Would the tuner described in the recent issue of the "R.R." be an advantage "R.R." be an advantage, as my set now condenser, and the number of turns you employs a midget condenser in the aerial?

I have a .00015 variable condenser on hand. Would this be all right to use with a coil of 130 turns?

A.: The apparatus described in the "R.R." explaining how one became an amateur transmitter. A few copies of

your set. You could use it with a .00015 these are still available. The cost, of counses, would depend upon the outfit you mention.

To Collaborate A short time are still available. The cost, of course, would depend upon the outfit you intend to built, but you could start off with a very moderate outlay indeed.

JESO. (Christehurch) - Providing you use a grid suppressor of about 500 ohms in series with the grid of the first valve, your circuit will be quite in order. You should not connect the plate of the r.f. valve direct with the aerial unless it goes through a suitable condenser, say a

H.M. (Dunedin) : Could a carborundum stabiliser be used with any effect on a small valve set?

A.: Only in connection with a crystal, so as to turn the combination into a crystal and one-valve amplifier, which on local stations, would possibly give better results than a one-valve a.c. set.

2. I wish to use a two-inch former for the broadcast coil for the "Sparrow Hawk." What would be the turns with a .00035 condenser using 26 to 30 d.c.s.

Secondary 75 turns, tickler (for .0002 differential condenser) 30 to 35 turns.

M.P. (Nelson): I am using a fivevalve American neutrodyne set which distorts when volume is turned up. Would this be due to my valves. two of which are 14 monhts old?

A: It is due probably to your not

having a sufficiently large power valve, You have not stated what valves you are using, but we presume you have 201A type in all stages. The one in the last stage should be replaced by a 605 type, which should be biased by about 12 volts "C" (with 90 volts "B"). Renew the valves which are 14 months old, as when a valve ages it loses its amplification factor and in consequence cannot handle the signals as it could before. We would recommend 221 type valves in all stages except the last, where you should use a high-gain power valve of the B605

C.D. (Christchurch): We regret your query has not received attention. It has been referred to the technician

MicRadio Fan -Puzzled. Want the latest? ne in on these publications at

N.Z.'S OWN RADIO BOOKSHOP

THE TE ARO BOOK DEPOT, WELLINGTON.

New stocks every overseas mail.

LATEST ARRIVALS

"Radio Physics Course," by Ghirardi-re-Answers every lectricity, Televised and enlarged. question on Radio, Electricity, vision and Talkies. First lot s First lot sold on More stocks on way. 30/-.

"Television," by Sheldon and Grisewood— America's best publication. Details for building your own set. 18/2. "Practical Testing Systems," by Rider,

"Mathematics of Radio," by Rider, 18/3.
"Mathematics for Practical Man," by
Howe. Simplicity itself, 10/9.
"Radio: A Study in First Principles," by

"Radio: A Study in First Principles," by
Burns, 13/-.

"Sound Pictures and Trouble Shooters'
Manual," by Cameron and Rider. The
projectionist's "sheet-anchor," 46/-.

"Practical Radio Repairing Hints," by
Rider. Stocks never last long, 13/3.

"Radio Design," Vol. 4, No. 1, 1/3.

"Q.S.T.," Nov., 1/11.

"Wireless Weekly," 32-page call-sign booklet for broadcasters, amateurs and
short-wayers, 4d.

"Radio Retailing," Nov. issue. U.S.A.'s
best commercial magazine, 1/11.

"Collins' Wireless Diary, 1932," 4/6.
Invaluable.

"Morse Made Easy," 7d.

"Radio Operating Questions and Answers," by Nilson and Hornung, 14/-.

"Radio Log and Lore" (World's Best Log of the World), 1/10. "Radio Amateur Call Book," Sept., 1931.

5/8.

Special Short-Wave issue ("Popular Hobbies") (Complete list S.W. stations. New time conversion chart. Three special S.W. sets). 7d.—Rush it. "Perry Auto-Time Morse System," 10d. "Practical Radio Telegraphy," by Nilson and Hornung, 18/6.

Blue Prints—"B: tteryless Neutrodyne," "Selective Crystal Set, Two Stages Audio," "6-Valve Neutrodyne, One Transformer and Two Resistance coupled Audio Stages," "3-Valve Browning-Drake," "7-valve Super Het." 1/6 each.

Browning-Drake," "7-valve Super Het."
1/6 each.
"Radio Amateur Handbook" (Handy's),
Sth edition, 5/s.
"Theory of Radio Communication," by
Filigate, 12/-.
"Principles of Radio Communication," by
Morecroft, 41/6.
"Elements of Radio Communication," by
Morecroft, 19/-.
"Direction Finding," by Keen, 27/-.

OUR LOCAL AGENTS:

Auckland: F. R. Jeffreys, 466 Queen St. Palmerston North: Badio Supplies & Service Co. (E. B. Borham), 245 Main St. Blenheim: Tomlinson & Gifford.
Nelson: Keith Walker, Baird's Buildings.
Timaru: J. H. Healey, Bookseller.

> ALL RADIO MAGAZINES STOCKED. PRICES QUOTED INCLUDE POSTAGE. WRITE US NOW.

ARO BOOK DEPOT

64 COURTENAY PLACE, WELLINGTON.

Here is a radio small enough to pack in your suitcase. Big enough to give performance.

And—the Lowest price ever placed on a Dynamic-equipped Radio.

Wholesale and Retail Royds-Howard Co., 553 COLOMBO STREET, CHRISTCHURCH. who designed the battery, and we are awaiting his reply. We shall publish it as soon as it comes to hand

WIRELESS (Dunedin): If you wish to turn your set into an all-wave one you should construct one of the Differential series which was described in the "Radio Record" during the year. You would find the "Vight Owl Three" would make an excellent all-wave set, and all coils for long and short-wave were

M. S. (Alexandra): Your case is serious, and we are placing it before the proper authorities. You will hear more

I. H. (Manaia): We cannot tell you much about your circuit from the lay-out diagram. We need the theoreti-I. H. (Manaia): We cannot cal, for it would take us hours to unravel it as it is at present. You valve combination appears to be quite a good one. We do not like the layout, and think it could possibly be improved. Some of the wires seem unduly long.

PTERYGOTUS (Dunedin)-In building a set employing one or two r.f. stages and using reaction, would it be possible to gang two or three stages, as the case may be, and put midget condensers in parallel with the main condensers to tune

each stage properly?
A.: Yes, but what would be the gain of putting them all on the one dial if you have to have midget condensers to trim them up. Reaction quite spoils ganging. We have found that most of the gain due



There is remunerative employment for qualified radio men on shore and ship. The up-to-date methods of instruction and modern equipment brovided at the school enable the student to obtain a most thorough and practical coorse. All bapers connected with the Correspondence Course are promptly corrected in New Zealand.

Day and night classes for Professional Certificates.
Correspondence Classes for Professional Certificates.
Correspondence Classes for Professional Certificates.
Vite for Particulars to Department A.

JOHNSON'S WIRELESS

JOHNSON'S WIRELESS & BADIO SCHOOL.
St. George Buildings
5-10 Brandon Street.
Wellington.

