

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. Non-appearance 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.

DX26MC: Could the usual outdoor aerial be fitted in addition to the loop in the circuit of the Super Six?

A.: Yes, but in doing so the set would contravene the fire underwriters' regula-

BEGINNER (Wellington): Can loudspeaker be used with a one-valve circuit?

A.: Yes, but do you know your circuit is a violent oscillator? Use a fixed condenser in conjunction with your .0001 to .0003 in series with the aerial.

2. What type of valve should I use? A.: Use a high amplification valve of factory, if not slightly better, the A415 class with a four-volt accumulator or dry cells.

lator or dry cells.
3. How many turns should I have on the coils?

A.: For a two-inch former and a 26 d.s.c. wire use 65 turns. Reaction turns of 30 gauge, d.s.c.

R. (Gisborne): Could six-volt valves be used in lieu of two-volt valves for the Super Six without detrimentally affecting its performance?

VOLTAGE (Otago): Could the frame antenna described in the "Radio Re-cord" of the 11th instant be suitable for

A.: No; the aerial circuit has to be specially designed to take a fram? aerial.

M. G. (Nelson): Where could I obtain full particulars regarding the construction cell charger, and how could these be combined to make one giving four volts?

A.: For a 4-volts charger you would need to make up six Daniells cells as described in the "Radio Record" dated Nov. 7.

P. A.B. (Auck.): My set is of the swinging coil type. Would I get better results if I pulled it to pieces and built a more modern two-valve set? I can get the Australians factors can get the Australians faintly.
A.: It is questionable. Better results

can be obtained usually by using newer

type valves.

2. Results are as good with the rheostat turned almost off as on. Is this detrimental to the "B" batteries?

A.: No, it is to their advantage to work the rheostat back as far as possible, for by so doing you are using less current

than if it were turned up fully.

3. Please describe the following valves:
P.610.—A six-volt Osram power valve to

be used in the last stage.

Medium 112, power—A power valve
of the 610 class, but which takes a ½ of

an amp, filament current.

Ceco A—a 201A type of valve, fivevolt filament, 4 amp, current consumption. A general purpose valve.

301A and C509A.—Equivalents of a Ceco A (UX201A is the same valve). LP.6.—A six-volt power valve.

Note: All the valves are fairly light on "B" battery consumption, the heaviest being P610, 112, and LP.6.

KIWI (Auckland): Why can I pick up two stations on the same wavelength -one on 15 and the other on 18? In the daylight I receive the one that is usually on 13 on 18.

Radio Fans.

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"101 Hook-ups" ("Radio news"), 2/11.
"Modern Sets, 1932," 1/8.
"Radio Call Book and Technical Review" (formerly Citizen's Call Book Quarterly), Dec. issue. 1/11.
"Wireless Constructor" Nov. issue (all the world on one dial). 11d.
"Break-In" November (N.Z. Amateur's publication). 4d.
"Radio Questions and Answers" ("Radio Record"). 1/8.

publication). 4d.

"Radio Questions and Answers" ("Radio Record"). 1/8.

"N.Z. Radio Handbook, 1931." 2/6.

"Radio Physics Course," by Ghirardi—revised and enlarged. Answers every question on Radio, Electricity, Television and Talkies. First lot sold on sight. More stocks on way. Book now. 30/-.

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

"Mathematics of Radio," by Rider, 13/8.

"Mathematics for Practical Man," by Howe. Simplicity Itself, 10/9.

"Radio: A Study in First Principles," by Burns, 13/. (Simple and clear.)

"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, 13/8.

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

New Pilot All-Wave 11 valve Double Super-het., for s.w. and broadcast.

"Scott's Radio Handbook, 1931," 1/8.

OUR LOCA

Auckland: F. R. Jeffreys, 466 Queen St

"Wireless Weekly," 32-page call-sign booklet for broadcasters, amateurs and short-wavers, 4d. (Useful.)

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

"Morse Made Easy," 7d.

"Perry Auto-Time Morse System," 10d.

"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.

Special Short-Wave issue ("Popular Hobbies") (Complete list S.W. stations New time conversion special S.W. sets). 7d.—Rush it! 'Practical Radio Telegraphy," by Nilson and Hornung, 18/6.

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Palmerston North: Radio Supplies & Service Co. (E. B. Borham), 245 Main St.
Blenheim: Tomlinson & Gifford,
Nelson: Keifh Walker, Baird's Bulldings.
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COLOMBO STREET, CHRISTCHURCH.

A.: It appears one station does not keep on its proper wavelength at night. Check up with your neighbours and see if this is so. 2. Would a .0005 condenser be suitable

for a wavetrap and what gauge of wire should I use with it?

A.: It would be quite suitable if em-ployed with a 2in. former, 26 d.s.c. wire, 65 turns.

A.H. (Devonport): Full details of the broadcast coils for the Night Owl Three were published in last "R.R."

IGHTNING (Auckland): We cannot Let tell you very much unless you send us the circuit of your set. Apparently a wrong connection has been made.

MUG (Khandallah): The fact when you move your detector you cause the frying noise to stop, points to one of two things being wrong with your First a defect in a socket or a loose connection to it, or a defective valve. If you cannot track both these faults down your wisest plan would be to get a radio serviceman to inspect your set.

M.H.O. (Temuka): Can I use a .00035 and a .0005 condenser for the Eagle Five?

.: If you use a .0005 condenser you will need to wind about 10 less turns on the coil, otherwise it will be quite suitable if you use it in conjunction with a .00085. It is immaterial which stage you It is immaterial which stage you

use it in.

2. Would two S625 valves be suitable

Asterior of the "Kestrel for the s.g. detector of the Three"?

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