

SAFEGUARD YOUR INVENTION!

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**STUDY
SERVICE
ENGINEERING
AT HOME**
Write for particulars to
**SCHOOL of RADIO
ENGINEERING**
WEMBLEY HOUSE, RAILWAY SQUARE, SYDNEY

When Your Set Fails!

Get a Qualified Serviceman

The following is a list of servicemen and firms employing servicemen who are fully qualified under Government Regulations, and we strongly advise our readers to employ Only Qualified Men and get the job done properly.

AUCKLAND.

S. D. Mandeno & Co., Chnery Ch. 44-265

S.O.S. Service, 18 Darby St. Ph 42-706

BLENHEIM.

Thomson's Music Shop.

Rabone Bros., Phone 1524.

HUTT AND PETONE.

Len Jenness, 238 Jackson St. Ph 63-433

HAMILTON.

G. S. Anchor, Radio House, Tel. 2143

NEW PLYMOUTH

Nimmo's Radio Service, Phone 430.

WELLINGTON.

Berg's Radio Service, Phone 40-120.

CHRISTCHURCH.

Tricity House, 209 Menstr. St. 35,051

DUNEDIN.

Wholesale Rad. Dealers, Hanover St.

OAMARU.

K. A. King, Thames Street

HUNTLY.

Huntly Radio Service, Phone 30

TAURANGA.

Radio Specialties, Phone 83M.

Questions and Answers

"A.S." (Spreydon): You do not give any particulars of the condenser, but we assume that it is 0.0005 mfd. per section. If this is so, approximately 132 turns of 30 enamel S.W.G. wire on your formers would do for the secondary. The primaries can be up to 40 turns each of the same gauge, but the maximum you can use will depend on the extent of the shielding and by-passing, as the set will oscillate if the primaries are too large for the amount of by-passing. These turns will do to start with and can be subtracted from depending on the operation when finished. If the coils you have already are a set by a good manufacturer, be sure that you are not blaming them unnecessarily and that you have not got 'long leads which upset their performance.

"PUZZLED" (Lower Hutt): An aerial would make all the difference in your reception both on broadcast and shortwave bands. The reverberation you mention may disappear when the aerial is used, but if not, have a serviceman look at the speaker, as it may have a little grit in the air gap or the coil may not be quite central.

"112" (Punakaiki): The receiver that you have is very like the "Duodyne One" which was described in the 1936 "Radio Constructor's Guide," except that the transformer in your set is replaced by what is known as resistance-capacity coupling between the detector portion and the audio portion. The trouble that you are having could be due to the transformer breaking down in insulation or its wires being corroded. We suggest that you have the set overhauled by a serviceman, and further suggest that if the transformer is faulty it would be quite satisfactory for him to change the circuit to that of the "Duodyne One," as this set has given very good results.

"T.M.I." (Auckland): It is quite a good idea to put the R.F. stages of the "De Luxe Shortwave Six" ahead of the detector and audio of the "Trans-Pacific Four" if one has that already built up but the method of promoting regeneration in the first R.F. stage should definitely be retained.

The actual arrangement of the components should follow the layout of the "Shortwave Six," and should be followed very closely, at least up to and including the detector, if the full benefit of the circuit and design is to be obtained. Keep the 6P7 nearer the 42 in your proposed layout and keep all leads short.

"DOUBLE-DOUBLET" (Thames): The trouble that you are having with this aerial is certainly not the usual thing. The switch seems to be reversed for one thing. Not knowing any details of the particular aerial that you are using, we cannot form any idea of the cause. It may be a faulty one, and we suggest that you refer your trouble to the dealers from whom it was bought.

"A.V.C." (Clyde): Yes, it is feasible to add AVC to your receiver and the valve that should be used would be either 55 or 2P7. Apply the AVC voltages to the R.F. and I.F. stages. Circuits are given in the "Radio Times" and the "Radio Constructor's Guide" for this portion, and they apply to either T.R.F. or superhets alike.

VK2QY transmits a special experimental programme for N.Z. listeners at 2.30 a.m. N.Z.S.T. on the last day of each month.

VK2BO is again operating on the broadcast band (1250 k.c., 240 m.). His address is 23 Latimer Road, Rose Bay, N.S.W., Australia.

New Shortwave Station VPD2, Suva, Fiji

A NEW shortwave transmitter, using the call VPD2, has been installed at Suva, Fiji. This station transmits on 31.45 metres (9540 k.c.) from 10 to 11.30 p.m. from Mondays to Saturdays inclusive.

This station requests reports, and will forward an attractive verification on receipt of all correct ones. Reports should be addressed to station VPD2, Annamated Wireless (Australia) Ltd., 47 York Street, Sydney, N.S.W., Australia.

DX Topics

(Continued from page 46).

VK2WR is coming back to the broadcast band, and will be transmitting on 1210 k.c., 248 m. His address is 55 Boronia Road, Bellevue Hill, N.S.W., Australia.

On June 1, VK2QY was heard in Los Angeles, California, at 3 p.m., and has been requested to put on a DX programme for U.S.A. Reception was on 1290 k.c. (232.5 m.)—Gilbert Hayman (N.S.W., Austl.).

Exchange of QSL Cards.

I HAVE been dinging for about three months and have a six-valve, metal tube, commercial receiver.

I have reports out to VK's 2XS, 2LX, 3KX, 3RP, 3KE, 2BK, 2AT, 5VR, 4JX, 2ME, 5FL, 3RV, 2ABA, 2FY, 7CL, 4RG, 2QR, VE52S, W6FQY, W6ATH, XENT, ZJV, 2MO, 2WL, 3GI, 3XY and 4ZP. Verifications received are:—Broadcast: 4BH, 2GB, 5CL, 2KO, 2UE, 2GY. Shortwave: VK3ME, DJB (2), W2XAF, RNE, VK3HL, VK2BW, and several New Zealand cards.

By the way any dxer who is interested in the exchange of QSL cards may have mine by simply sending his card to F. I. Graham, Nell Street, Abbotstford, Dunedin, S.W.2.

Good Reception on 20 Metres.

CONDITIONS have been fair on 20 m. lately; latest loggings are:—VE1EA, RA1BH, VS6AH, XE1AA, CO7HF, K7PO, OA4AG, CO2HY, LU8AX, W1HUG, W1ONEA. Latest QSL's are: CO2WW, CO2KY, CO8RO, XE2FC, EA7BA, XE1W, VS6AQ, X1SMT, K7VIL, CT1DV, ON4VK, HC1PM, XE1BC, XE2N, K6KDX, K6GAS, VE1DQ, VE3NE, VE3GK, VE3DF, VE4SS, VE4YX, VE4NT, VE4HM, VE4CP, VE5CR, VE5CL, W1GR, W2HHA, W2OS, W3EGP, W4DBC, W5DUK, W5BEE, W6GYO, W6KW, W6MND, W6MIM, W7BRY, W7APD, W8JK, W8EFC, W9PA, W9TIZ, W9ELX, W9MRH, W9TSK, W9WZW, and VE3AFD.

Some very fine cards and photos have been received from some of the above stations, while W9TIZ, VE4SS, CO8RO, XE2FC credit me with being the first ZL to report them.—37A (Whangarei).

Reception Notes

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entertainment in the evenings.

VPD2, 31.28 m. approximately, was heard transmitting at 10.30 p.m., with a musical programme, and is apparently a new transmitter. It was coming in with very good volume, though slight fading was noticed. The signals were R7, Q5.

OA4AA, 20 m. Heard very well today (Wednesday), his voice coming in on a good, clear signal. Strength was R6, Q5, which was good, seeing his power is only 85 watts input. OA4AA was speaking to Chile and "W" phones.

TPA3, 25.23 m. Heard with an excellent signal at 5.30 p.m. Wednesday. This band, round 5 p.m., is rather noisy at present, but is better in the afternoon.