

## Questions and Answers

(Continued from page 10.)

have been using 201's in the r.f., B.T.H. detector, and 201A's in the audio. The combination has not worked too well, and I substituted the r.f. valves with 609's. This has improved things, but the set oscillates badly and there is mushiness in reproduction.

A.: The 609 is suitable for detector and first audio. Use 201A's in the r.f. stages, and a 605 in the power stage. If your set still handles badly it needs re-neutralising.

"SCREEN-GRID" (Woodville): I wish to make up a set of r.f. transformers to be used with 224 valves. How many turns of 38 gauge enamelled would I require on a 1in. former for the primaries?

A.: 45-50 for interstage primaries and about 25-30 for aerial primary.

2. With 100 volts on the plate of a power detector, what is the correct value of the bias resistance?

A.: 15-20,000 ohms.

A.W. (Wellington): What is the cause of 2YA breaking through at several points on the dial lately? Until about a fortnight ago I could tune him out outside 700 to 740. Now it comes in between 680 and 800.

A.: We believe that 3YA has increased power appreciably lately and this would account for the apparent lack of selectivity in your set. Reduce the effective length of your aerial with a .0001-.0002 mfd. fixed condenser.

2. Is the 750 ohm. resistance between one end of the Beverage aerial and earth essential?

A.: It depends on the aerial. Some driers find this resistance an advantage, while others report increased sensitivity when it is cut out.

3. The device you mention will increase selectivity, but not power.

N.B.—We have noted your suggestion re an article on aerials and this will appear at a later date.

25MC (Picton): Where could I obtain a commercial 230 volts d.c. "A" eliminator?

A.: Communicate with Fear and Co., Willis Street, Wellington, or Johns Ltd., Auckland.

M.H. (Canterbury): I cannot hear 22W during the day on my 7-valve super het. It comes in quite well at night.

A.: This is obviously due to your locality, and we cannot help you.

"CURIOUS" (Huntly): I have an 8-valve commercial set which has developed a loud hum. The mains transformer and speaker are O.K.

A.: Ten to one the trouble lies in a defective bias resistor or in one of the powerpack condensers. Your best plan is to call in a qualified serviceman.

"DINGO" (Auckland): Can I use a battery operated shortwave adaptor with an 8-valve all-electric set?

A.: Quite easily, though why not use an a.c. adaptor and plug into the detector socket for the power?

2. What batteries would I need for the above adaptor?

A.: A 60 volts "B" battery and a 2, 4, or 6-volt "A" battery, depending on the valves you are using.

3. What results should I get with the above?

A.: At least all the principal short-wave stations of the world.

F.A. (Christchurch): I wish to store an "A" battery for two months. What shall I do?

A.: Charge the battery fully. Empty the battery of the liquid and rinse it out with distilled water. The batteries can then be stored for six months or so without detriment.

## 22H, Napier

## Plans for Improved Programmes

A DEFINITE announcement has been made by Mr. C. B. Hansen, principal of station 22H, Napier, regarding the new broadcasting arrangements that have been made for Hawke's Bay. This will be of interest to all radio enthusiasts in the district, more particularly because of recent reports that have been spread to the effect that now the responsibility of providing entertainment for six days a week has been placed on one station, that the quality of the entertainment will fall below that provided previously by the several B class stations in the district.

22H wishes to deny emphatically these rumours, and points out that now all the evening programmes are provided from one source preparations will be made for the transmission of the best possible class of entertainment. The transmissions will incorporate the latest recordings, at least one studio programme per week, and appropriate relays of local events as may be available. Definite times will be allotted to cater for the various tastes of listeners, such as set hours for heavier and lighter recordings. On Saturday evenings a 2-hour dance session will be provided.

To make the service 100 per cent. efficient the station will appreciate suggestions of a helpful nature from listeners. The ultimate aim is to present transmissions which will appeal to every section of the listening community.

The station must not be considered as purely local to Napier, as it is intended to make it provincial in both its scope of programme and its district coverage, it being appreciated that the reception in this district of the YA stations, for topographical reasons, is not very satisfactory.

The complete schedule of transmission, which commenced on September 11, is as follows:—

Sunday: 12 noon to 3 p.m., 6.30 p.m. to 10 p.m. Monday: 12 noon to 2 p.m., 7 p.m. to 10.30 p.m. Tuesday: 12 noon to 2 p.m., 7 p.m. to 10.30 p.m. Wednesday: 12 noon to 2 p.m., 6.30 p.m. to 10.30 p.m. Thursday: 12 noon to 2 p.m. Friday: 12 noon to 2 p.m., 7 p.m. to 10.30 p.m. Saturday: 10 a.m. to 5 p.m., 7 p.m. to 11 p.m.

## Mixing Prices with Programmes

GENERAL depression in business has been responsible for a certain amount of relaxation in broadcasting regulations in the U.S.A. The two big corporations have been permitted to mention prices during certain hours of the morning transmissions. Prior to this, the practice was to mention prices only indirectly, as, for instance, it would be stated that the cost of a tube of tooth paste was exactly that of a certain brand of cigarettes, the price of which was universally known. Or, the cost of a certain brand of candy was no more than that of a local telephone call.

*Mr. Radio Fan  
Puzzled. Want the latest?  
"Tune in" on these publications at*

N.Z.'s. OWN RADIO BOOKSHOP—

## "H.M. Admiralty Wireless Handbook"

(Just issued and long waited for)

200 Copies coming  
HALF ALREADY BOOKED UP

Order yours now 9/6

OUR LOCAL AGENTS: (Inspect local stocks).

Auckland: F. B. Jeffreys, 466 Queen St.  
Christchurch: A. T. Williams, Bookseller, 35 Cashel St. W.  
Dunedin: Duncan and Simpson Ltd., Booksellers.  
Gisborne: O. W. Muir, Bookseller.  
Hamilton: Paul's Book Arcade.  
Hastings: Hall's Bookshop.  
Invercargill: Miss I. Lyon, Bookseller, Dee St.  
Nelson: Keith Walker, Baird's Build.  
Napier: Storkey's Bookshop, Thackeray St.  
New Plymouth: Fyfe's Bookshop.  
Oamaru: J. Miller, Stationer, Tees St.  
Palmerston North: Borham's Radio Service, 245 Main St., W.  
Stratford: Gardner's Book Shop.  
Timaru: J. H. Healey, Bookseller.  
Wanganui: Poynter's Bookshop.

NOTE.—We are acting as honorary collectors for 2/6 Annual Subs. to help keep 22W on the air. We will pass on your subs.

ALL RADIO MAGAZINES STOCKED.

PRICES QUOTED INCLUDE POSTAGE.  
WRITE US NOW.

TE ARO BOOK DEPOT

61 COURTENAY PLACE, WELLINGTON

**BEST IN ANY SET**  
BRITISH TOO!!

**Mullard**  
THE MASTER-VALVE

**RADIO GOODS** *What to Buy and Where*

BURGESS RADIO BATTERIES, All Radio Dealers.  
LOFTIN-WHITE AMPLIFIERS, Stewart Hardware Ltd.,  
Courtenay Place, Wellington.  
MULLARD VALVES ..... All Radio Dealers.