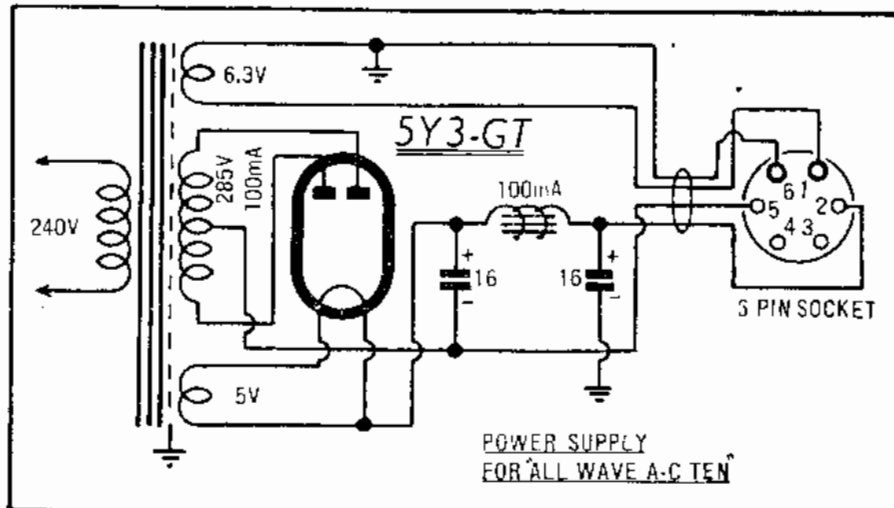


POWER SUPPLY FOR THE RECEIVER



The power supply is a simple unit which could well be used for other purposes if desired.

from the diode detector wiring. The shield which traversed the chassis in the earlier models has been re-shaped to put the R.F. valves further forward and to interpose a shield in front of the 6H6 socket. The change should be adopted as standard also for the battery models.

The changes will be recorded on the final chassis blueprint so that the one you will ultimately buy for any of the three models should put the valves and the shield in the position indicated on page 51.

We have also taken care to locate the components in positions to take advantage of the improved shielding between the final IF components and the injection lead to the grid of the converter.

The differing requirements of the three versions have necessitated the addition of various holes, all of which will be shown on the final blueprint.

The low gain I.F. transformers are available in either high or medium selectivity types, and the proper choice depends on your plans for the set. For general DX listening, the medium selectivity types would probably be the best, but nothing can be too sharp for the prospective amateur.

Don't attempt to build this receiver using standard IF transformers. They are designed with a view to giving the maximum possible gain with a single stage and the gain in a two-stage channel would promote a condition of hopeless instability. The constructor would be faced with the necessity to reduce drastically the gain of the valves with cathode resistors, or to load the windings heavily with resistors.

NOISE LIMITER

The noise limiter is the standard circuit we have been using for some time now. There are other possible arrangements, but none of them combine simplicity so completely with effectiveness. The noise limiter operates in conjunction with the AVC on position 2 of the function switch.

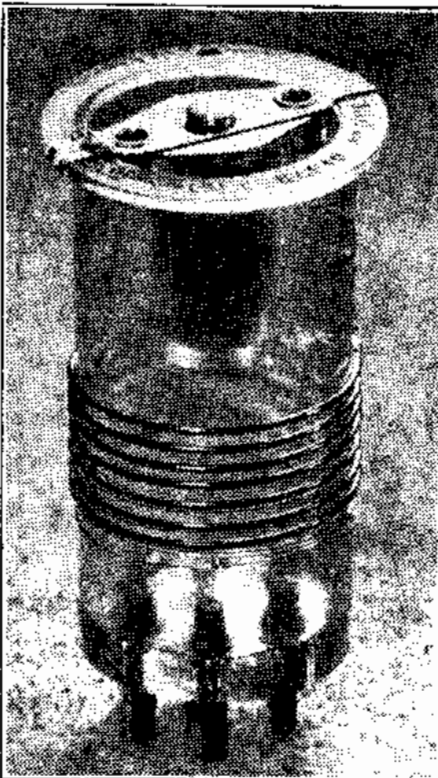
In operation, it tends to trim off all

signal peaks which exceed the equivalent of 90-95 per cent modulation on the incoming carrier. It therefore introduces a trace of distortion on heavily modulated signals, but it is capable of rejecting static crashes and auto ignition pulses to an amazing degree.

It is completely automatic in operation, adjusting itself to match the strength of the incoming carrier. Naturally, it can afford no relief against persistent low level interference, as from leaky insulators, noisy motor brushes, &c. By the same token, neither can any other form of noise limiter.

The audio end is quite straightforward, involving a 6J7-G and a 6V6-GT. There is obviously a good deal of latitude in the choice of valves for these positions.

A tone control operates in the



A coil showing how the trimmer is mounted in the top.

McGILL'S

Est. 1860

A Brief Selection from our large range of Technical Books

Price Post

RADIO DATA CHART, R.
A. Beatty.
Series of ABACS providing most of the essential data required for receiver design 11/9 .. 4d

PRACTICE RECORDINGS
Richard H. Dorf.
This explains disc recordings in practical terms and the elements of making high quality records 5/3 .. 4d

GUN DIGEST, 4th edition,
by leading authorities on every phase of Guns and Ammunition.
An authentic guide to American and foreign rifles, shot guns, hand guns and accessories . . . 10/6 .. 6d

HOW TO BUILD 20 PLYWOOD BOATS, by Rudder.
Giving simple instructions on building 8 to 16 ft. small boats 7/6 .. 4d

Popular Mechanics Publication

BUILD A BOAT FOR PLEASURE OR PROFIT.
An ideal book for the inexperienced ship builder, containing 17 different plans, including dinghys, canoes, speed boats and small sailing yachts . . . 10/6 .. 6d

BOATS ANYBODY CAN BUILD.
Over 300 photographs, blue prints and easy to follow instructions 21/- .. 6d

HOW TO BUILD 20 BOATS.
Complete plans for sail boats, row boats, outboard sports craft, auxiliaries, speedboats, cruisers from 8 to 42 feet 4/6 .. 5d

PHOTOGRAPHIC HANDBOOK.
144 pages of practical projects for photo fans, including nude poses explained by an expert . . . 5/- .. 4d

FLASH PHOTOGRAPHY,
by Gordon Parks.
A new practical guide for the beginner and professional, including technique, in natural lighting photos, single, multiple, colour, speed and outdoor flash, parts and equipment 8/9 .. 4d

Mail Orders by Return.
Plus Exchange.

SUBSCRIPTIONS ARRANGED TO
RADIO & TELEVISION NEWS £1 12 0
Q.S.T. 1 13 6
C.Q. 1 12 0
ELECTRONICS 7 6 0
F.M. & TELEVISION 1 12 0
RADIO CRAFT 1 9 6

McGILL'S

AUTHORISED NEWSAGENCY

183 Elizabeth Street, Melbourne
The G.P.O. is Opposite