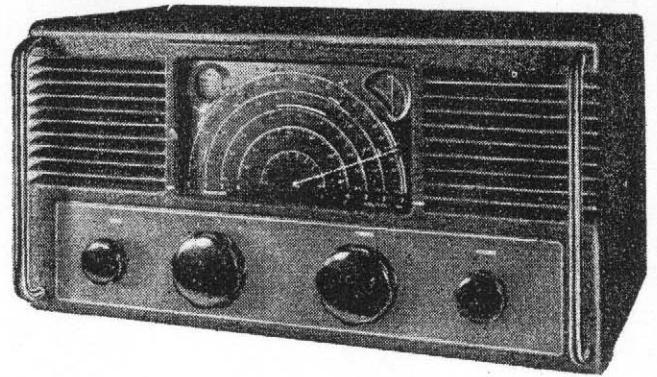


SEAFARER'S RECEIVER

*Eddystone Model 670
Broadcast Superhet*



ALTHOUGH described as a marine receiver the new Eddystone Model 670 is essentially a broadcast set and not, as might be supposed, one of the communications type.

The set is primarily intended for personal use on board ship and in view of this has been designed for operation on either A.C. or D.C. supplies of from 100 to 110 volts or 200 to 250 volts.

Particular attention has been given to the performance of the set

band and the four amateur bands of 1.7, 7, 14 and 28 Mc/s.

Seven miniature valves on B8A bases are used in a superheterodyne circuit having one R.F. stage, combined frequency changer, one I.F. amplifier, A.G.C., detector and A.F. amplifier and finally a push-pull output stage delivering about 2 watts to a 6in loudspeaker mounted on the left-hand side of the chassis.

A.C.-D.C. technique with series-connected valve heaters and a tapped voltage dropping resistor is

This view of the Eddystone 670 shows the large calibrated dial and the disposition of the controls. The bandspread dial is in the top right-hand corner of the main dial.

measuring only 16½in by 9in by 10½in overall and finished in brown crackle enamel.

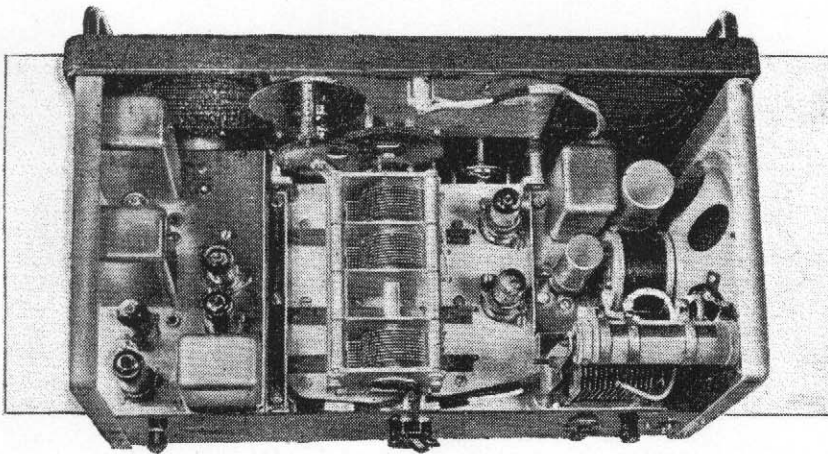
A point of interest regarding the supply circuit is that the mains leads and their plugs and sockets are completely insulated. Particular attention has, in fact, been given to insulation throughout, in addition to which all components are the tropical grade, so necessary in a set of this kind which is almost sure to be used in every conceivable variety of climate and weather.

The controls comprise a spin-wheel tuning system, large illuminated dial with calibrated scales and the subsidiary band-spread scales previously mentioned, wave-band switch, volume control and a combined tone compensator and on-off switch.

On the back are sockets for the mains input, voltage adjusting panel and sockets for a single wire or dipole aerial. There is also a pair of sockets and a plug which enables the internal loudspeaker to be disconnected and an external one, or headphone, plugged in instead.

We were able to give the set a brief test and knowing the conditions under which it would normally be used it was made in fairly close proximity to a considerable amount of electrical machinery and with a mediocre aerial. Performance was very satisfactory; the A.G.C. system works particularly well and the mains filter was found to be definitely worth having in this location. Adjacent channel selectivity is very good and the wavelength and frequency calibrations are extremely accurate.

The makers are Stratton & Company, Ltd., Eddystone Works, Alvechurch Road, West Heath, Birmingham, 31, and the price of the receiver is £37 10s., the filter unit costing £2 10s.



The layout of the Eddystone 670 chassis is particularly neat and gives access to all parts. The coil box is below the deck.

on the short waves, as for long periods the high frequencies will often be the sole medium for broadcast reception. The use of a novel expanded tuning scale ensures precise re-setting of the set to any previously logged station. It is a mechanical system embodied in the reduction drive and provides the equivalent of gains of scale for each range.

There are four wavebands in this set, covering, respectively, 1,220 to 522 kc/s (246-575m), 2.75 to 1.2 Mc/s (110-250m), 13 to 5.8 Mc/s (23.1-51.7m) and 30 to 12.8 Mc/s (10-23.5m). In addition to the short and medium broadcast bands the set covers the so-called trawler

employed with a selenium-type rectifier providing H.T.

Special care has been taken to prevent interference to, or from, other radio sets in the vicinity, a very important matter on board a ship where so much depends on radio for navigation and other essential services. Modern ships use a vast amount of electrical machinery and as interference from them may be carried along the ship mains, a mains filter for use external to the set is available if required.

The coil unit is a 3-compartment die-cast metal box in which all trimmers and padders are included and the whole set is enclosed in a compact and stout metal cabinet