

**AMBASSADOR****Model 6779**

**General Description :** Six-valve (including rectifier), three-waveband superheterodyne receiver with R.F. stage. - Released March 1939.

**Power Supply :** A.C. mains, 200-250 volts.

**Intermediate Frequency :** 465 kc/s.

**Valves :** (V1) VP41; (V2) TH41; (V3) VP41; (V4) HL42/DD; (V5) Pen 45; (V6) UU7.

**General Notes :** Owing to war-time shortages, various versions of this chassis are in existence, but the basic circuit is as given.

Mechanically, the chassis presents some unusual points. The dial is a glass plate covering the whole front of the set and through which all the controls project. If it is necessary to change a control, it is a wise plan to remove the dial first. Edge lighting is employed on earlier models. The dial lamp-holders are circular, and clip into polished tubes. These can short-circuit to chassis if the receiver is mishandled.

The sensitivity control in earlier models was a 5000-ohm potentiometer in the R.F. and I.F. cathode circuits with a double-pole switch for gram/radio. This was discontinued in later models and replaced by a two-way switch, wired to break the H.T. supply to the frequency changer, and, at the same time, to switch in the pick-up. The cathode resistors are of 180 ohms wired from cathode to chassis and by-passed by a 0.1- $\mu$ F. capacitor.

A.V.C. is also applied to the A.F. triode, HL42/DD, which must not be replaced by an HL41/DD, as this latter valve is a straight triode.

If it is necessary to replace the electrolytic smoothing capacitor, it will be preferable to employ a 16 + 16- $\mu$ F. type to improve hum level.

A 0.1- $\mu$ F. capacitor is wired from mains to chassis to prevent modulation hum, this will cause a slight spark when the chassis is earthed.

**Alignment Procedure :**

<i>Inject Signals via</i>	<i>Frequency</i>	<i>Tune Receiver to</i>	<i>Adjust in Order Stated</i>
V2 Grid	465 kc/s.	—	L4, L3, L2, L1
Aerial socket	166 kc/s.	1800 m.	P1
” ”	250 kc/s.	1200 m.	T7, T4, T1
” ”	600 kc/s.	500 m.	P2
” ”	1500 kc/s.	200 m.	T8, T5, T2
” ”	15 Mc/s.	20 m.	T9, T6, T3

