

AMBASSADOR Model MU540 (3540, 3541, 5243)

General Description : Five-valve (including rectifier) two-waveband superheterodyne receiver for A.C. or D.C. mains.

Power Supply : A.C./D.C. mains, 200–250 volts.

Intermediate Frequency : 465 kc/s.

Valves : (V1) CCH35; (V2) EF39; (V3) EBC33; (V4) CL33; (V5) CY31 plus 240-volt, 60-watt Ballast lamp.

General Notes : Models 3540, 3541, 5243 are all variations of this chassis, various versions of which were produced up to 1943. Some had three wavebands (M.W., M.S.W. and S.W.), some two (M.W. and S.W.). Long waves were not provided. The I.F.'s employed mica dielectric trimmers and, when a chassis is repaired, it is essential to check alignment.

The MU540 employed an iron-cored aerial coil and air-cored oscillator coil, all other versions employ air-cored coils throughout, and adjustment of these is not recommended. Variable padders are employed on M.W.

If modulation hum is experienced a 47,000-ohm resistor should be connected between aerial and chassis and a 0.01- μ F. capacitor inserted in the aerial lead.

No earth should be used, but if one is considered essential a 0.01- μ F. 1000 volt capacitor should be inserted in series with the lead.

The 60-watt lamp employed as ballast in the heater chain keeps the heater current correct for mains voltages 210–240 volts. An old lamp may cause a soft crackle.

Alignment Procedure :

I.F. : Inject 465-kc/s. signal into V1 Grid. Align I.F. trimmers for maximum output.

M.W. : Inject 600-kc/s. signal into aerial. Set pointer to 500 m. and adjust P1 and aerial coil (if variable) for maximum output. Inject 1333-kc/s. signal. Set pointer to 225 m. Adjust T4 and T2 for maximum output.

Adjustment of S.W. is not recommended. If essential adjust T1 for maximum output with 15-Mc/s. signal injected and pointer set to 20 m.

