

SPECIFICATIONS

Tuning range	525-1615 kc/s.
Intermediate frequency	455 kc/s.
Power supply—portable	9V battery type 2362
—car	12V only.
Battery consumption	see table below.
Fuse	750 mA.
Dial lamp	14V, 0.75W (4822.134.40185)
Aerial input capacitance	60 pF.

CASE OPENING FOR SERVICE

Remove battery hatch cover. Remove battery and unclip leads. Remove two case fastening screws and lift off top cover. Lift off bottom of case and lay over to the extent of the speaker leads. All components are now accessible for service.

To check audio module, unscrew heat sink securing screw and release board from plastic securing clips. The R.F. module can be lifted from its mounting base after first unsoldering C208 from the tuning gang.

Reassembly is a reversal of the above with care to position the dial scale in front of the ridge of the bottom portion of the case.

Cradle wiring components are accessible after removing four screws and lifting off the metal cover at the rear of the cradle.

OUTPUT TRANSISTOR ADJUSTMENT

Quiescent current adjustment should be made in the 9 volt operating condition. Adjustment is made with no signal by means of R108. Metering points are provided for insertion of a meter. Adjustment should be in accordance with the following temperature/current table. This table also shows the total current at 9V for guidance purposes.

Amb. Temp. °F	60	75	90	100
Q. Current, mA (9V)	2.5±.5	3±.5	3.75±.75	4±.75
Total Current, mA (9V)	13.5-20.5	14-21	14.5-21.5	15-22

ALIGNMENT

The various trimming points used in alignment are shown in the circuit drawing.

I.F. ALIGNMENT

Fully open tuning capacitor. Apply signal generator through normal I.F. dummy to base of TR1. Detune secondaries of 1st and 2nd I.F.T.'s by screwing out cores about one turn. Peak cores in the following order and at the quoted frequencies.

1. All cores at 454 KHz. Repeat.
2. Repeat 2nd I.F. Secondary L13, 14 at 459 KHz.
3. Repeat Detector L16, 17, 18 at 457 KHz.

R.F. ALIGNMENT (portable)

Position switch for portable use. Apply the signal generator via a coupling turn around the rod aerial assembly.

Fully open the tuning capacitor and at 1620 kc/s peak trim oscillator trimmer C207.

Fully close the tuning capacitor and at 520 kc/s peak trim the oscillator coil core.

Repeat the above two operations.

Tune to 1500 kc/s signal and peak trim portable aerial trimmer C203.

Tune to 600 kc/s signal and peak position rod aerial coil L205-6. Repeat the above two operations and seal coil in position.

R.F. ALIGNMENT (Car)

Position switch for car use. Apply signal generator to the

aerial socket through a dummy consisting of a capacitor of 60 pF across the socket and another of 15 pF in series with the generator lead.

Tune to 1500 kc/s signal and peak trim car aerial trimmer C204.

Tune to 600 kc/s signal and peak trim core of aerial coil L202-3. Repeat the above two operations.



