



GENERAL INFORMATION.

1. Alignment Procedure

General. Allow the test equipment to warm up for fifteen minutes before starting the alignment procedure.

Output Meter. Connect the output meter (a 1000-ohm-per-volt) (a-c volt meter or an oscilloscope) across the portable voice coil connections.

Signal Generator. Use an AM R.F. signal generator. Connect the ground lead to the chassis and connect the output as indicated in the alignment chart.

Output level. Attenuate the signal generator output through the alignment so as to maintain the output level below 0.2 volts.

Controls: Set the volume control to maximum and the tone switch in the "high" position. Set the tuning control as indicated in the alignment chart. During alignment of the radio, the battery should be in the same position with respect to the chassis as it normally is in the cabinet.

O P T I O N	RADIO				
	SIGNAL GENERATOR		RADIO		
	CONNECTION TO RADIO	FREQ	SETTING	SPECIAL INSTRUCT.	ADJ.
1.	Connect signal generator through a .1ufd condenser to collector of 2SA115	450 Kc/s	Tuning at high limit.	Adjust for max. output in order given.	I.F.T. 1 & 2 I.F.T. 3 & 4.
2.	Use radiating loop	530 Kc/s	Tuner at low limit.	Adjust for max. output.	Osc. coil 14
3.	Same as step 2	1650 Kc/s	Tuner at high limit.	Adjust for max. output.	Osc trimmer C12
4.	Same as step 2	1400 Kc/s	1400 Kc/s	Adjust for max. output.	R.F. trim C6, ant. trimmer C1.
5.	Repeat operations 2, 3 and 4, until no further improvement is obtained. Always stop on operation 5.				

- NOTE:**
- Alignment is carried out with Portable only, remove cover exposing adjustments.
 - Use three turns of insulated hook up wire coiled around the fully extended rod antenna of the portable and connected to the generator terminals.
 - Peak the antenna trimmer in the power unit, when installed in the car and connected to the car aerial. Tune to a weak station or noise at about 1400 Kc/s and adjust the trimmer with a small screw driver for maximum signal or noise.

- Adjustment of Transistor Stage Current.** This has been set at the factory but should a change of component require this to be re-adjusted an AVO model 8 Meter set to the 1 amp range inserted between the 270 ohm resistor mounted on the 8 pin tagstrip and the black lead to the output transformer.

With the radio switched on allow 5 minutes to warm up and adjust the collector current to $200\text{M/A} \pm 10\%$ by means of selecting either a 68 ohm or 150 ohm, or both, resistors in parallel with the 20 ohm resistor on the tagstrip.

NOTE. Do not operate the power unit without the speaker connected to the unit. To ensure the junction temperature of the output transistor is not exceeded, do not operate the radio for long periods with a sustained high amplitude signal.

SPECIFICATIONS.

TYPE. 8 Transistors.
12 Volt only POS. or NEG.
Polarity Adjustable.

FREQUENCY COVERAGE.

540 - 1600 Kc/s.

INTERMEDIATE FREQUENCY

450 Kc/s.

TONE CONTROL.

High or Low
(2 position switch)

OUTPUT:

With Power Unit - 1 Watt
Portable Only - 150 MW.

GENERAL NOTE.

For "Special Service Instructions for Transistor Radios", see your service Manual covering either T.P. 3, or 6C-11.

TRANSISTORS.

2SA115 - R.F. Amp.
2SA 30 - Converter.
2SA 31 - I.F. Amp.
2SA 31 - I.F. Amp.
2SB120 - 1st A.F. Amp.
2x2SB33 - Pwr Amp. (Portable)
2SB180 - Pwr Amp. (Power Unit)

DIODES:- 2 x 1NA4G

THERMISTOR:- Kv-1.

POWER CONSUMPTION:- 5W

Portable 9 MA.

