

Tuning Control Drive Ratio 7:1

Electrical Specifications

Rating A-6...105-117 volts, 50-60 cycles or 105-117 volts D-C; 30 watts
Rating C-2...105-117 volts, 25 cycles or 105-117 volts D-C; 30 watts

Tuning Frequency Range 550-1720 KC

Intermediate Frequency 455 KC

Maximum Power Output 1.5 watts

Loud-speaker—PM Dynamic

Outside Cone Diameter 4 inches
Voice Coil Impedance (400 Cycles) 3.5 ohms

Tubes

Converter and Oscillator GE-12SA7
I.F. Amplifier GE-12SK7
Detector, AVC, Audio GE-12SQ7
Power Output GE-50L6GT
Rectifier GE-35Z5GT
Dial Lamp MAZDA No.47

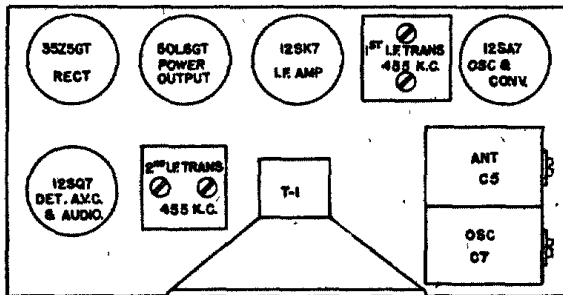


Fig. 1. Tube and Trimmer Location

REPLACEMENT PARTS LIST

Stock No.	Symbol	Description	List Price
*RC-072	C-1	CAPACITOR—.05 mfd. 200-V. paper	\$0.25
*RC-130	C-2	CAPACITOR—.02 mfd. 400-V. paper	.30
*RC-235	C-4	CAPACITOR—100 mmf. mica	.25
*RC-7039	C-6a, b	CONDENSER—Tuning condenser (includes trimmers C-5, C-7)	1.70
*RC-072	C-8	CAPACITOR—.05 mfd. 200-V. paper	.25
*RC-274	C-14	CAPACITOR—330 mmf. mica	.30
*RC-023	C-15	CAPACITOR—.005 mfd. 600 V. paper	.25
*RC-274	C-16	CAPACITOR—330 mmf. mica	.30
*RC-039	C-17	CAPACITOR—.01 mfd., 600 V. paper	.25
*RC-048	C-18	CAPACITOR—.02 mfd., 600 V. paper	.30
	C-19a	CAPACITOR—20 mfd., 150 V. dry electrolytic	.60
*RC-5174	C19-b	CAPACITOR—30 mfd. 150 V. dry electrolytic	.25
*RC-039	C-20	CAPACITOR—.01 mfd. 600 V. paper	.30
*RC-092	C-21	CAPACITOR—.05 mfd., 600 V. paper	.70-5
*RQ-1319	R-1	RESISTOR—330,000 ohms, 1/4 W. carbon	.70-5
*RQ-1291	R-2	RESISTOR—22,000 ohms, 1/4 W. carbon	.70-5
*RQ-1339	R-3	RESISTOR—2.2 megohms, 1/4 W. carbon	.95
*RV-108	R-4, S-1	VOL. CONTROL—.5 megohm volume control and power switch	.70-5
*RQ-1347	R-5	RESISTOR—4.7 megohms, 1/4 W. carbon	.70-5
*RQ-1317	R-6	RESISTOR—270,000 ohms, 1/4 W. carbon	.70-5
*RQ-1323	R-7	RESISTOR—470,000 ohms, 1/4 W. carbon	.70-5
*RQ-1239	R-8	RESISTOR—150 ohms, 1/4 W. carbon	.20
*RQ-1469	R-9	RESISTOR—2700 ohms, 1/4 W. carbon	.70-5
*RQ-1255	R-10	RESISTOR—680 ohm, 1/4 W. carbon	.70-5
*RQ-1214	R-11	RESISTOR—13 ohms, 1/4 W. carbon	.70-5

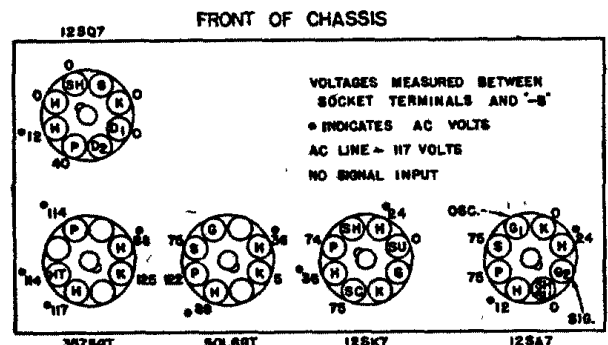


Fig. 2. Socket Voltages

Precaution

If the signal generator is AC operated, use an isolating transformer between the power supply and the radio receiver power input. The use of an isolating capacitor is not recommended as AC current through the capacitor will introduce hum modulation and/or create the possibility of a burned-out signal generator attenuator.

Special Service Information

The following information will be very useful in servicing receivers if a vacuum tube voltmeter or similar voltage measuring instrument is available.

- (1) Stage Gains*
Antenna Post to Converter Grid... 3.0 at 1000 KC
I.F. on Converter Grid to I.F. on I.F.
Amplifier Grid... 60 at 455 KC
I.F. Amplifier Grid to Diode Plate... 45 at 455 KC
- (2) 0.20-volt, 400-cycle signal across the volume control will give 1/2-watt speaker output.* (Volume control turned to maximum.)
- (3) Average DC voltage developed across oscillator grid leak... 6 volts

* Variations of ±20% permissible. All readings obtained with enough signal input to give 1/2-watt speaker output.