

Stock No.	Symbol	Description	List Price
*RC-7049	C-1a, 1b, 2a, 2b	CONDENSER—Tuning condenser.....	\$1.70
*RC-235	C-3	CAPACITOR—100 Mmf., mica.....	.25
*RC-242	C-8	CAPACITOR—150 Mmf., mica.....	.25
*RC-274	C-9	CAPACITOR—330 Mmf., mica.....	.30
*RC-039	C-10	CAPACITOR—.01 Mfd., 600 V. paper.....	.25
*RC-072	C-11	CAPACITOR—.05 Mfd., 200 V. paper.....	.25
*RC-104	C-12	CAPACITOR—.01 Mfd., 600 V. paper.....	.30
*RC-216	C-13	CAPACITOR—47 Mmf., mica.....	.25
*RC-023	C-14	CAPACITOR—.005 Mfd., 600 V. paper.....	.25
*RC-048	C-15	CAPACITOR—.02 Mfd., 600 V. paper.....	.25
*RC-092	C-16	CAPACITOR—.05 Mfd., 600 V. paper.....	.30
*RC-5183	C-17a, 17b	CAPACITOR—.50 Mfd., 60 Mfd., electrolytic.....	.80
*RC-235	C-18	CAPACITOR—100 Mmf., mica.....	.25
*RO-1227	R-1	RESISTOR—47 ohm, 1/2 W. carbon.....	.70-5
*RO-1275	R-2	RESISTOR—4700 ohm, 1/2 W. carbon.....	.70-5
*RO-1299	R-3	RESISTOR—47,000 ohm, 1/2 W. carbon.....	.70-5
*RO-1295	R-4	RESISTOR—33,000 ohm, 1/2 W. carbon.....	.70-5
*RO-1235	R-5	RESISTOR—100 ohm, 1/2 W. carbon.....	.70-5
*RO-1339	R-6	RESISTOR—2.2 megohm, 1/2 W. carbon.....	.70-5
*RV-120	R-7, S-1	VOLUME CONTROL—.5 megohm, combined with power switch.....	1.45
*RO-1349	R-8	RESISTOR—5.6 megohm, 1/2 W. carbon.....	.70-5
*RO-1323	R-9, 10, 11	RESISTOR—470,000 ohm, 1/2 W. carbon.....	.70-5
*RO-1213	R-12	RESISTOR—12 ohm, 1/2 W. carbon.....	.70-5
*RO-1239	R-13	RESISTOR—150 ohm, 1/2 W. carbon.....	.70-5
*RO-651	R-14	RESISTOR—1000 ohm, 1/2 W. carbon.....	.20
*RO-1299	R-15	RESISTOR—47,000 ohm, 1/2 W. carbon.....	.70-5
*RO-1255	R-16	RESISTOR—680 ohm, 1/2 W. carbon.....	.70-5

Electrical Power Output (117 line volts)
 Undistorted.....1.0 watts
 Maximum.....1.5 watts

ALIGNMENT PROCEDURE

Alignment Frequencies
 RF.....1500 KC
 IF.....455 KC

The chassis must be removed from the cabinet to make the following alignment. The location of all trimmers is shown in Fig. 2.

IF Alignment

Connect an output meter across the voice coil. Turn the volume control to maximum. Set test oscillator to 455 KC and keep the oscillator output as low as a readable meter reading will permit.

Apply signal to the 12SA7 converter grid through a .05 mfd. capacitor and align progressively the trimmers in the 2nd and 1st IF transformers.

RF Alignment

When making the following alignment the loop antenna must be bolted to the chassis by the screw and spacer mounting. The RF signal should be capacity coupled to the receiver loop by placing a two-foot piece of wire for an antenna on the test oscillator output post (high side). Keeping this antenna two feet or more from the receiver loop will generally insure freedom from too much coupling. Metal objects such as meters, tools, etc., should not be placed in close proximity to the loop when making this alignment.

With the gang condenser plates completely closed, the pointer should line up with the first mark on the left of the scale. Set the signal generator to 1500 KC. Align (C-1b) to the signal while the pointer is on the 1500 KC mark. Peak (C-1a) for maximum output.

Special Service Information

The following information will be very useful to servicemen equipped with vacuum tube voltmeters or similar voltage measuring instruments.

- Stage Gains**
 Antenna post to RF grid—3.8 at 1000 KC
 RF grid to converter grid—6.0 at 1000 KC
 Converter grid to IF grid—46 at 455 KC
 IF grid to 12SQ7 diode plate—75 at 455 KC
- Audio Gain**
 .14 volts, 400 cycles signal across volume control with control set at maximum, will give approximately 1/2-watt speaker output.
- DC voltage developed across oscillator grid resistor (R4) averages 10.0 volts at 1000 KC.**
 Variations of ±20% permissible. All readings obtained with enough signal input to give 1/2-watt speaker output.

(PRICES SUBJECT TO CHANGE WITHOUT NOTICE)

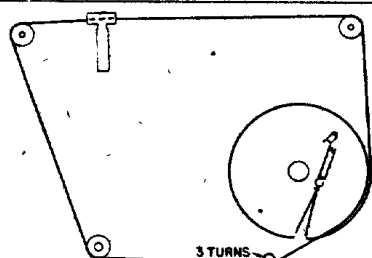
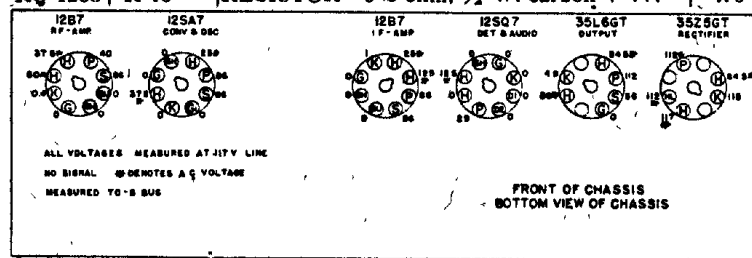


Fig. 1. Dial Stringing Diagram

