

NT FOR
CLUDES
G PULLEY

PRING-56-2617

—CORD ROUTE FOR MODEL 53-954

RECORD ROUTE FOR MODEL 53-952-

25 FT SPOOL 45-8750

Drive-Cord Installation Details

NOTE

- LESS THAN ONE OHM.

ALL RESISTOR VALUES IN OHMS
UNLESS OTHERWISE SPECIFIED.
ALL CONDENSER VALUES IN μ UF
UNLESS OTHERWISE SPECIFIED.
ALL VOLTAGES MEASURED BETWEEN
POINTS INDICATED AND B- WITH A
20,000 OHMS-PER-VOLT VOLTMETER.
CONNECTION OF CIS OPPOSITE PLATE
(PIN 7) OF 35C5 IS CONNECTED TO
B- ON MODELS 53-952 AND 53-954

SWITCH S2 SHOWN IN BROADCAST
POSITION

ALIGNMENT CHART

RADIO CONTROLS—Set volume control for maximum output and tuning control as given in the alignment chart. Set band switch to broadcast position for first 5 steps, and to special services position for steps 6 and 7.

OUTPUT INDICATOR—Connect output indicator (either on oscilloscope or a 1000-ohms-per-volt, a-c voltmeter) across voice-coil terminals.

SIGNAL GENERATOR—Use an AM r-f generator, connected as indicated in the alignment chart.

OUTPUT LEVEL—During alignment, attenuate signal-generator output to maintain output indication below 1 volt.

DIAL POINTER—Before the alignment is started, the dial pointer should be set to coincide with the dial scale mark to the left of "55" when the tuning gang is fully meshed.

STEP	SIGNAL GENERATOR		RADIO		ADJUST
	CONNECTION ROD TO RADIO	DIAL SETTING	DIAL SETTING	SPECIAL INSTRUCTIONS	
1	Ground lead to B—. Output lead through a .01- μ f. condenser to pin 7 (mixer grid) of 12BE6, converter.	460 kc.	Tuning gang fully open.	Adjust in order given in next column, for maximum output.	TC5—2nd i-f sec. TC4—2nd i-f pri. TC3—1st i-f sec. TC2—1st i-f pri.
2	Radiating loop. See Note 1 below.	1620 kc.	1620 kc. See Note 2 below.	Adjust for maximum output.	C1C—osc. trimmer
3	Same as step 2.	1520 kc.	Tune radio to generator signal.	Adjust for maximum output. (High-frequency adjustment)	C1B—mixer-grid trimmer C1A—r-f trimmer
4	Same as step 2.	580 kc.	Same as step 3.	Adjust for maximum output. (Low-frequency adjustment)	TC1—r-f transformer
5	Repeat steps 3 and 4 until no further improvement is obtained.				
6	Same as step 2.	3200 kc.	Same as step 3.	Adjust for maximum output.	C5—special-services mixer-grid trimmer C2—special-services r-f trimmer
7	Same as step 2.	1800 kc.	Same as step 3.	Adjust for maximum output.	C3—special-services r-f padder

NOTE 1: Make up a 6—8 turn, 6-inch-diameter loop from insulated wire; connect to signal-generator leads and place near radio loop antenna. The loop antenna must be connected to the radio.

NOTE 2: To set the tuning gang to 1620 kc., place a piece of 6-mil flat shim stock beneath the heel of

the rotor, and turn the rotor until it holds the shim firmly in place. Then remove the shim.

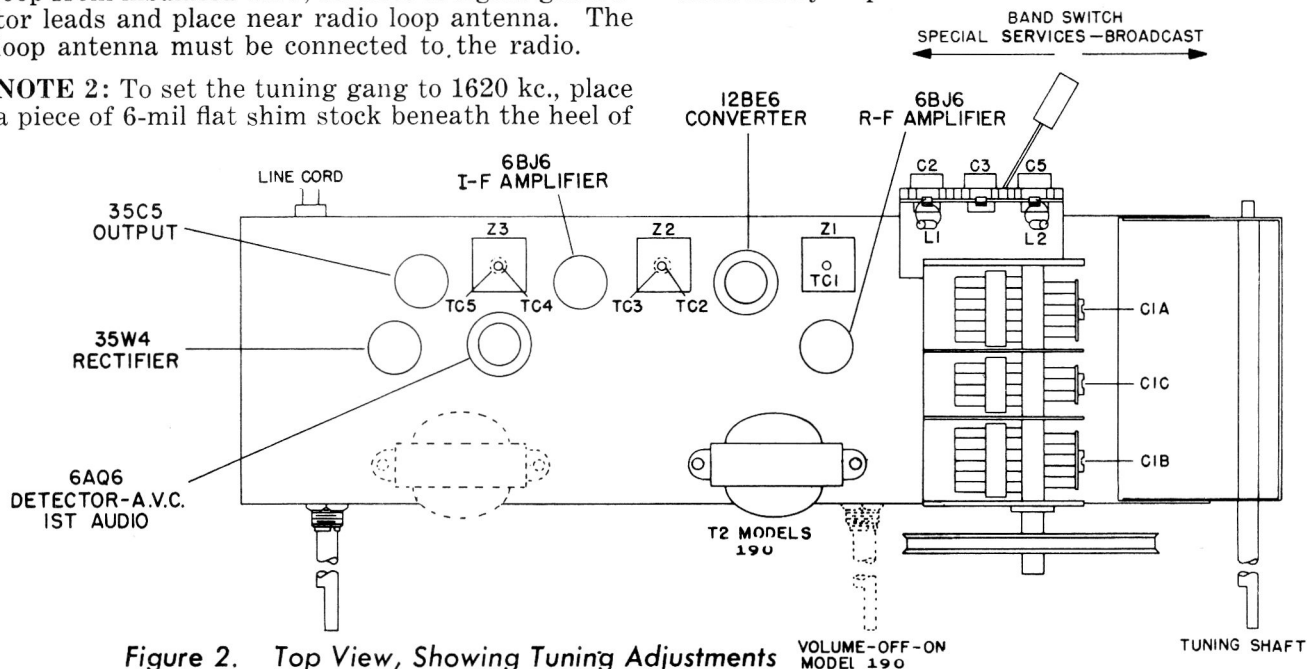


Figure 2. Top View, Showing Tuning Adjustments

VOLUME-OFF-ON
MODEL 190