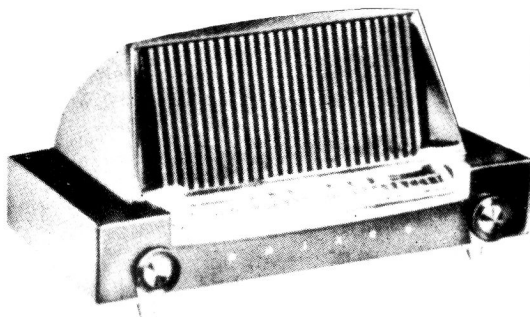


NOTE: D.P.D.T. SWITCH SHOWN IN BROADCAST POSITION



MODEL 166

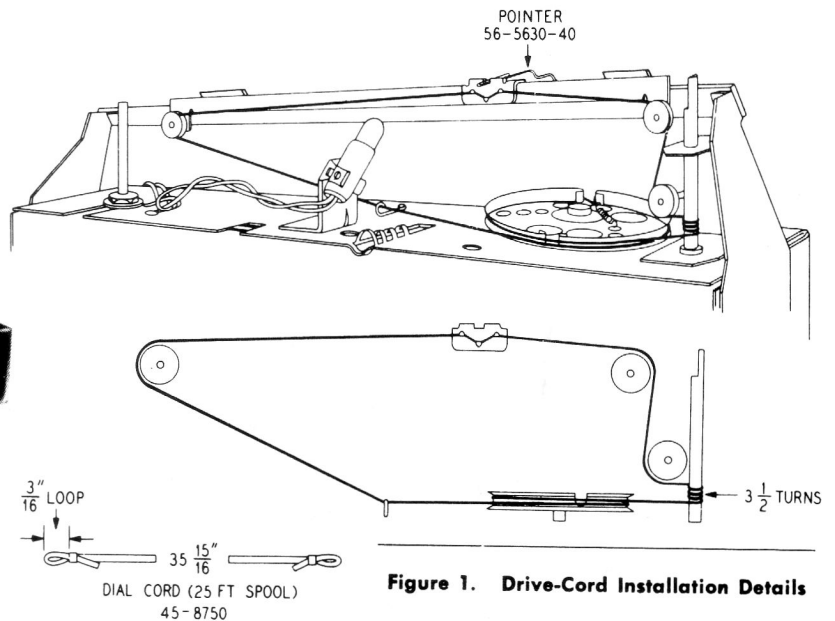


Figure 1. Drive-Cord Installation Details

## SPECIFICATIONS

CABINET	Molded plastic, maroon
CIRCUIT	Four-tube superheterodyne plus rectifier
FREQUENCY RANGE	540—1620 kc.
SPECIAL SERVICE	1.7—3.4 meg.
AUDIO OUTPUT	1 watt

OPERATING VOLTAGE	105—120 volts, a.c. or d.c.
POWER CONSUMPTION	30 watts
INTERMEDIATE FREQUENCY	460 kc.
AERIAL	Magnecor high-impedance loop; provision for connecting external aerial.
PHILCO TUBES	7A8 converter, 7B7 i-f amplifier, 7C6 2nd det., avc., 1st audio, 50C5 output, 35W4 rectifier

## ALIGNMENT PROCEDURE

**DIAL POINTER**—Turn tuning condenser to full-mesh position. Set dial pointer to index mark, located to the left of "55".

**CONTROLS**—Set volume control to maximum, and tuning control as indicated in chart.

**OUTPUT METER**—Connect across voice-coil terminals.

**SIGNAL GENERATOR**—Ground lead to B—, output lead as indicated in chart.

**OUTPUT LEVEL**—During alignment, attenuate signal-generator output to hold output-meter indication below 1.25 volts.

STEP	SIGNAL GENERATOR		RADIO		ADJUST TRIMMER
	CONNECTION TO RADIO	DIAL SETTING	DIAL SETTING	SPECIAL INSTRUCTIONS	
1	Through a .01- $\mu$ f. condenser to pin 6 of 7A8 converter tube.	460 kc.	Gang fully open.	Adjust, in order given, for maximum output. TC1 and TC4 are located at top of transformers.	TC4—2nd i-f sec. TC3—2nd i-f pri. TC2—1st i-f sec. TC1—1st i-f pri.
2	Radiating loop (see note below).	1600 kc.	1600 kc.	Adjust for maximum.	C1B—osc. trimmer
3	Same as step 2.	1500 kc.	1500 kc.	Adjust for maximum.	C1A—ant. trimmer
4	Radiating loop	3.2 meg. SW	3.2 meg. SW	Adjust for maximum.	C1C—ant. trimmer

**RADIATING LOOP:** Make up a 6—8-turn, 8-inch-diameter loop from insulated wire, connect to signal generator output leads, and place near radio loop. C1C must be set  $\frac{1}{4}$  turn from tight before broadcast alignment.

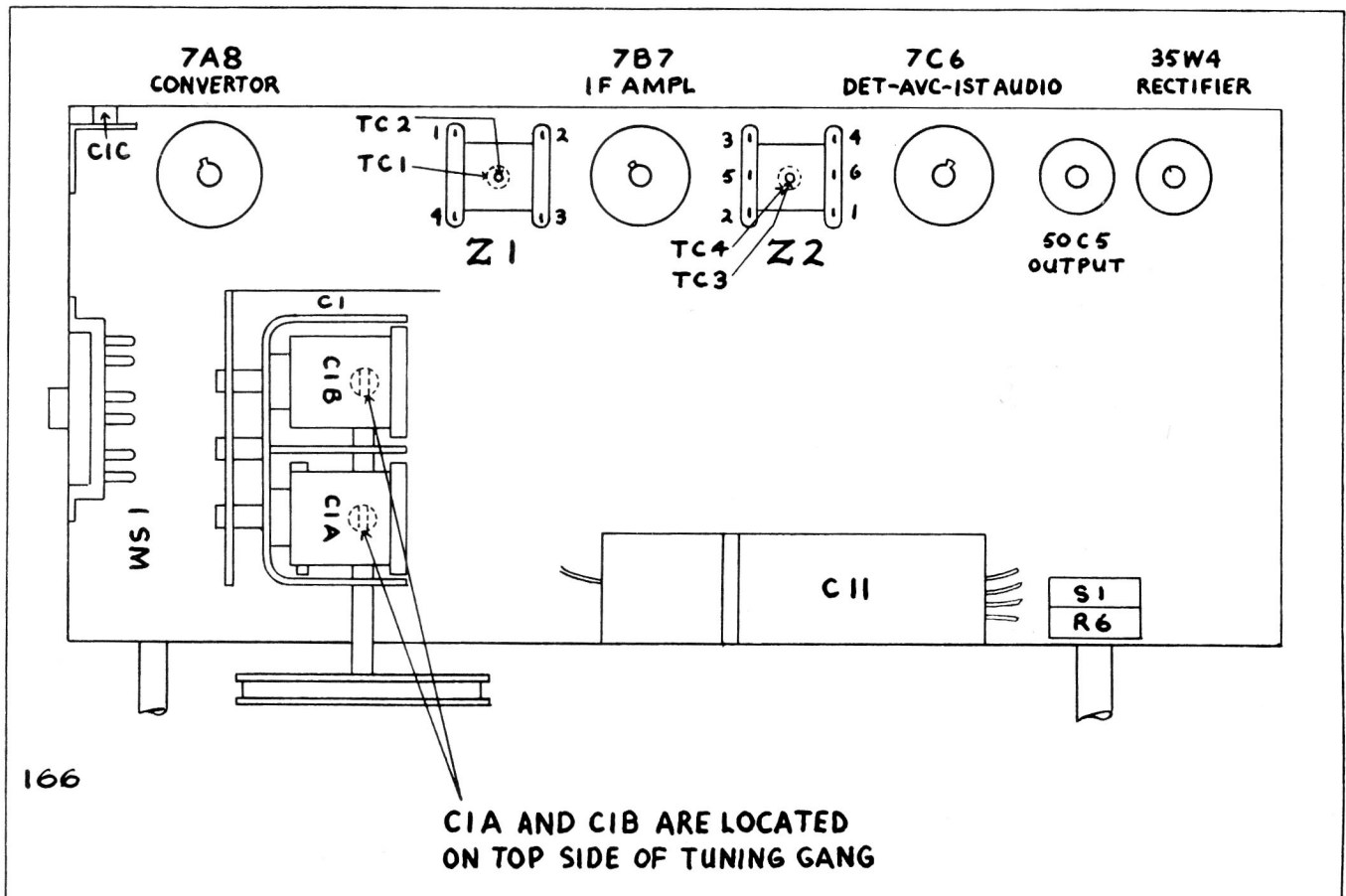


Figure 2. Base View, Showing Parts Placement and Alignment Points