

SECTION 1-POWER SUPPLY

DIAL—Calibration and pointer-index measurements are shown in figure 1. With tuning condenser fully meshed, set pointer to index mark.

OUTPUT METER—Connect one lead to chassis, and other lead to terminal 3 of TB400.

SIGNAL GENERATOR—Connect generator ground lead to chassis; connect output lead as indicated in chart. Use modulated output.

RADIO CONTROLS—Set volume control to maximum and turn tone control fully counterclockwise.

OUTPUT LEVEL—During alignment, adjust signal-generator output to maintain output-meter indication below 1.5 volts.

SIGNAL GENERATOR			RADIO		ADJUST
STEP	CONNECTION TO RADIO	DIAL SETTING	BAND SWITCH	DIAL SETTING	
1	Through .1-mf. condenser to terminal 1 of TB400.	460 kc.	BC	540 kc.	TC302B—3rd i-f sec. TC302A—3rd i-f pri. TC301B—2nd i-f sec. TC301A—2nd i-f pri. TC300B—1st i-f sec. TC300A—1st i-f pri.
2	Radiating loop (see note below).	580 kc.	BC	580 kc.	C401C—BC osc. (series)
3	Same as step 2.	1600 kc.	BC	1600 kc.	C402B—BC osc. (shunt)
4	Same as step 2.	1500 kc.	BC	1500 kc.	C402A—BC aerial
5	Same as step 2.	580 kc.	BC	580 kc.	C401C—BC osc. (series)
6	Repeat steps, 3, 4, 5, 3, and 4 until no further improvement is noted.				
7	Same as step 2.	15 mc.	SW	15 mc.	C401B—SW osc.
8	Same as step 2.	15 mc.	SW	15 mc.	C401A—SW aerial

FREQUENCY RANGES

Broadcast 540—1620 kc.
Short Wave 5.8—15.7 mc.
AUDIO OUTPUT 6 watts
OPERATING VOLTAGE 105—120 volts, a.c.
Model 727 — 60 cycle a.c.
Model 727-2—25 cycle a.c.

POWER CONSUMPTION

Radio 75 watts
Phonograph 20 watts
INTERMEDIATE FREQUENCY 460 kc.
PHILCO TUBES (7) 7AF7, 7A7, 7B7, 7F7, 6K6GT(2), 7Z4
PHONOGRAPH Philco Automatic Record Changer and Record Player Combination Model M-20

FIGURE 8. TOP VIEW, SHOWING TRIMMER LOCATIONS

RADIATING LOOP: Make up a 6—8 turn, 6-inch-diameter loop from insulated wire; connect to signal-generator leads and place near radio loop aerial. Make certain that radio loop aerial is connected to radio.

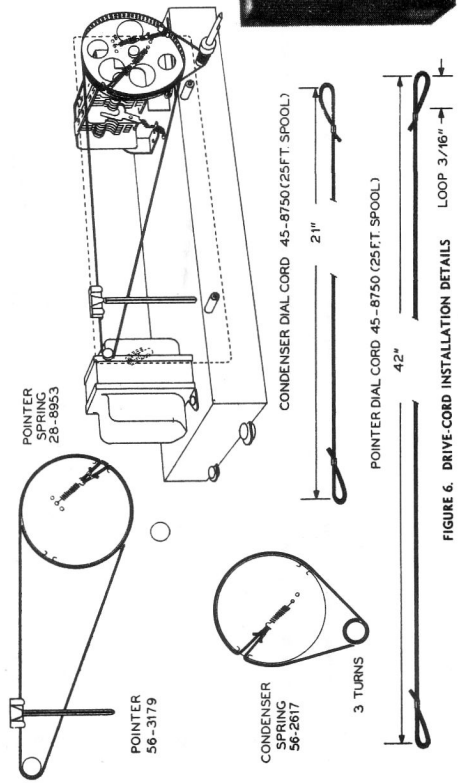


FIGURE 6. DRIVE-CORD INSTALLATION DETAILS

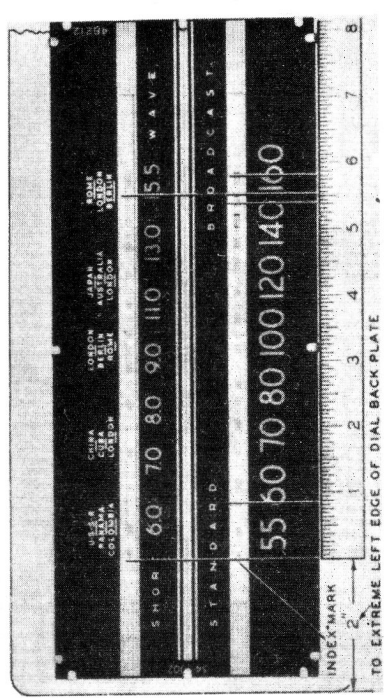


FIGURE 1. CALIBRATION MEASUREMENTS FOR DIAL BACKPLATE