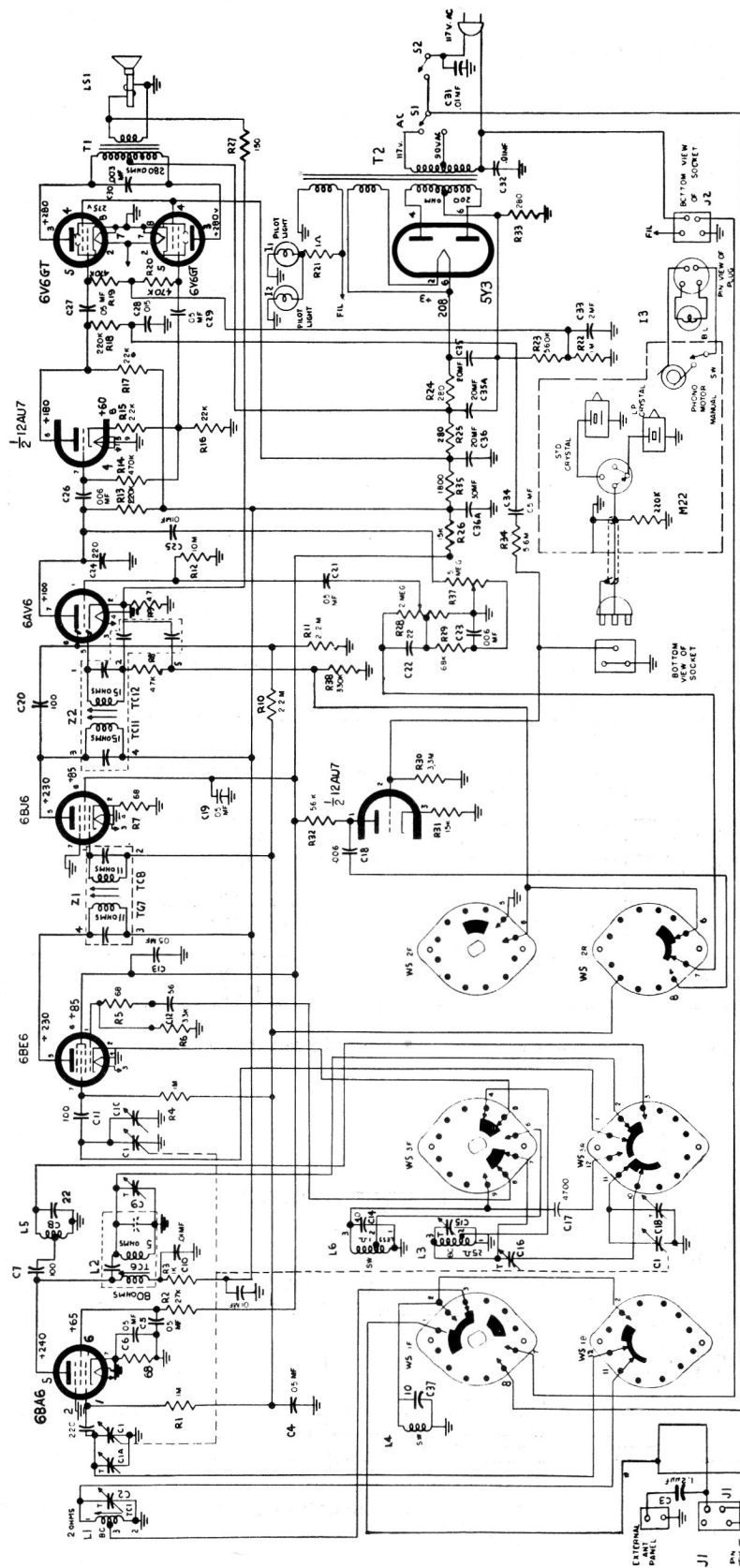
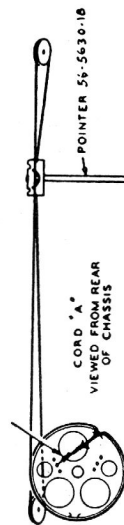
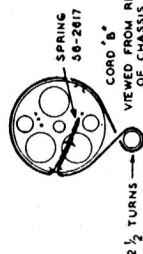


ALL RESISTOR VALUES IN OHMS AND ALL CAPACITOR VALUES IN MICROFARADS UNLESS OTHERWISE INDICATED. RESISTOR VALUES ARE MEASURED FROM POINTS INDICATED BY ARROWS. RESISTOR VALUES ARE IN OHMS UNLESS OTHERWISE INDICATED. RESISTOR VALUES ARE IN OHMS UNLESS OTHERWISE INDICATED. RESISTOR VALUES ARE IN OHMS UNLESS OTHERWISE INDICATED.

SPRING 56-2417



Drive-Cord Installation Details



SPECIFICATIONS

CABINET	Models 742 — 743	Wood Console
CIRCUIT	8 tube superheterodyne	
FREQUENCY RANGES	Standard Broadcast	540-1620 kc.
SW		5.5-15 mc.
AUDIO OUTPUT		10 watts
OPERATING VOLTAGES		742, 743 — 117 volts, 60 cycle
OPERATING VOLTAGES		742-2, 743-2 — 117 volts, 25 cycle
POWER CONSUMPTION		110 watts
AERIAL		Built-in loop. Provision for external aerial.
INTERMEDIATE FREQUENCY		460 kc.

6BA6 RF ampl., 6BE6 osc. mixer, 6BJ6 IF ampl., 6AV6 det. a.v.c. 12AU7. Phase inverter, phono amplifier, 2-6V6GT output, 5Y3GT Rectifier.

RECORD PLAYER Philco Model M22. All-speed Automatic Record Changer. (For service information refer to Service Manual PR-1923.)

TO REMOVE CHANGER FROM CABINET — (1) Disconnect input and power plugs. (2) Pull changer out to its limit of travel, lift front up and remove.

AM ALIGNMENT PROCEDURE

Make alignment with loop aerial connected to radio. The AM alignment should be made before the FM alignment.

DIAL POINTER: Calibration and pointer-index measurements are shown in figure 3. With tuning gang fully meshed, set pointer to index mark.

OUTPUT METER: Connect across speaker voice-coil terminals.

SIGNAL GENERATOR: Connect AM r-f signal generator as indicated in chart. Use modulated output.

RADIO CONTROLS: Set volume control to maximum, tone control counterclockwise, and band switch to broadcast position.

OUTPUT LEVEL: During alignment, adjust signal generator output to hold output-meter indicator below 1.25 volts.

AM ALIGNMENT CHART

STEP	SIGNAL GENERATOR		RADIO		ADJUST
	CONNECTIONS TO RADIO	DIAL SETTING	DIAL SETTING	SPECIAL INSTRUCTIONS	
1	Through .1mf to pin 7 6BE6	460 kc.	540 kc.		TC 12—2nd i-f sec. TC 11—2nd i-f pri. TC 7—1st i-f pri. TC 8—1st i-f sec.
2	Same as Step 1.	15 mc.	15 mc.	Adjust for maximum.	C1B
3	Radiating Loop.	15 mc.	15 mc.	Adjust for maximum. Check for image.	C1C C1A
4	Radiating Loop.	15 mc.	15 mc.	Adjust for maximum while rocking gang.	C1C C1A
5	Through .1mf to pin 7 6BE6.	1600 kc.	1600 kc.	Adjust for maximum.	C15
6	Same as Step 5.	600 kc.	600 kc.	Adjust for maximum.	C16
7	Radiating Loop.	1500 kc.	1500 kc.	Adjust for maximum.	C9 C2
8	Radiating Loop.	600 kc.	600 kc.	Adjust for maximum while rocking gang.	TC6 TC1
9	Same as Step 7.	1500 kc.	1500 kc.	Recheck for maximum.	C9 C2

Radiating loop: Make up a 6 to 8 turn diameter loop using insulated wire, connect to signal generator leads, and place near radio loop antenna.

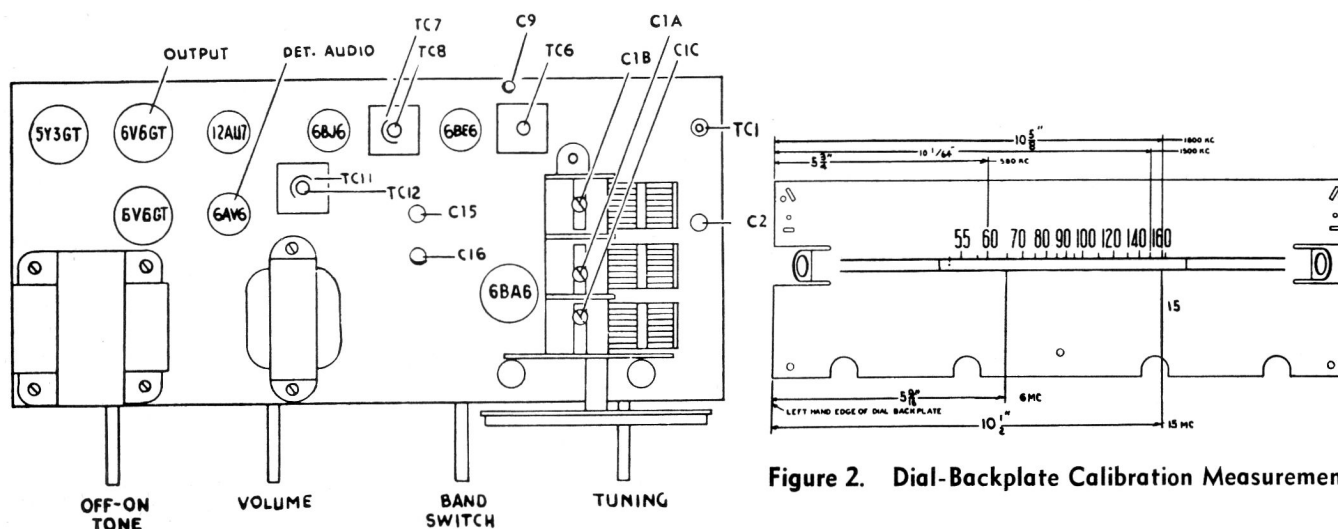


Figure 3. Top View Showing Trimmer Locations

Figure 2. Dial-Backplate Calibration Measurements