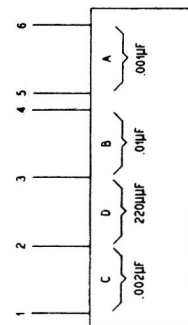
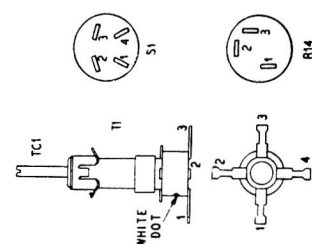


NOTES: _____
 ALL RESISTOR VALUES IN OHMS AND ALL CONDENSER VALUES IN μ F UNLESS OTHERWISE MARKED.
 * LESS THAN 1 OHM
 ALL VOLTAGES SHOWN WERE MEASURED WITH A 20,000 OHMS-PER-VOLT METER FROM POINTS INDICATED TO "B".

TUBE SOCKET VOLTAGES				
	1B5	1U4	1U5	3V4
B SUPPLY	OSC PLATE PIN 2	SCREEN PLATE PIN 2	SCREEN PLATE PIN 3	SCREEN PLATE PIN 3
	90	90	90	86
5Y5	5Y5	90	18	16
6X4	90	70	17	16
6X5	70	41	70	67
6X6				70
6X7				
6X8				
6X9				
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6X106				



C10 FOUR SECTION CONDENSER



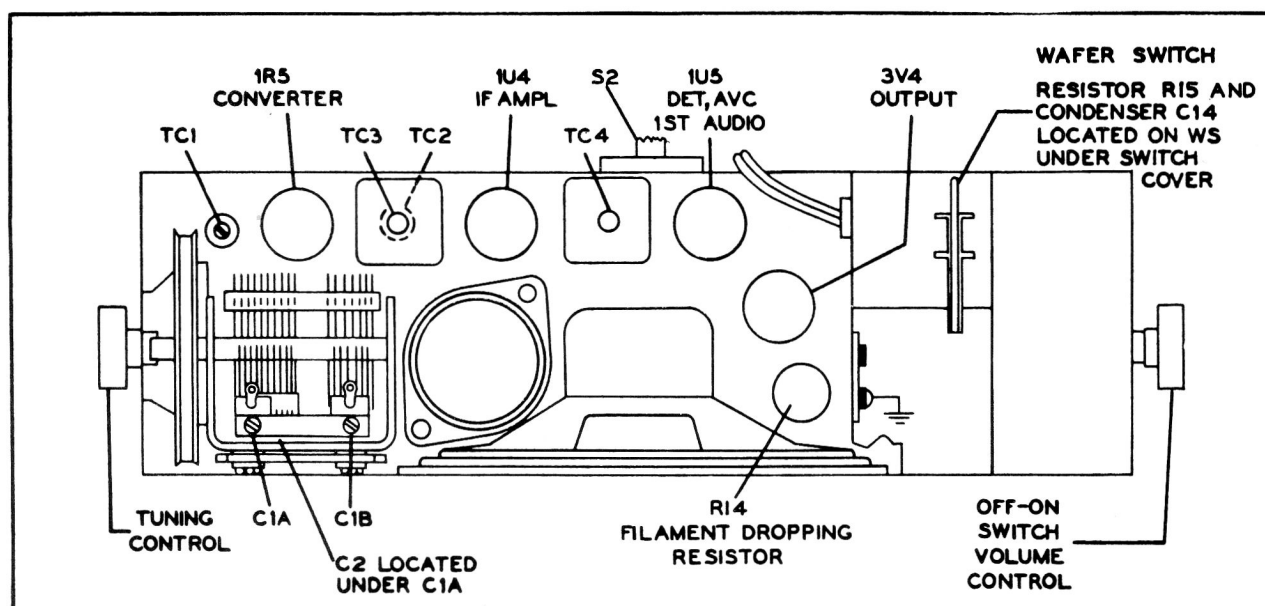


Figure 2. Top View, Showing Tuning Adjustments

TP2-3162

ALIGNMENT PROCEDURE

GENERAL—Allow the set and the test equipment to warm up for fifteen minutes before starting the alignment procedure.

DIAL POINTER—Before proceeding with the alignment, the dial pointer should be set to coincide with the index mark to the extreme left of the dial back plate when the tuning-condenser plates are fully meshed. See figure 3.

OUTPUT INDICATOR—Connect the output indicator (a 1000-ohm-per-volt, a-c voltmeter, or an oscilloscope) across the voice-coil terminals.

SIGNAL GENERATOR—Use an AM r-f signal generator. Connect the ground lead to B—, and

connect the output lead as indicated in the alignment chart.

OUTPUT LEVEL—Attenuate the signal-generator or output throughout the alignment so as to maintain the output level below .5 volt.

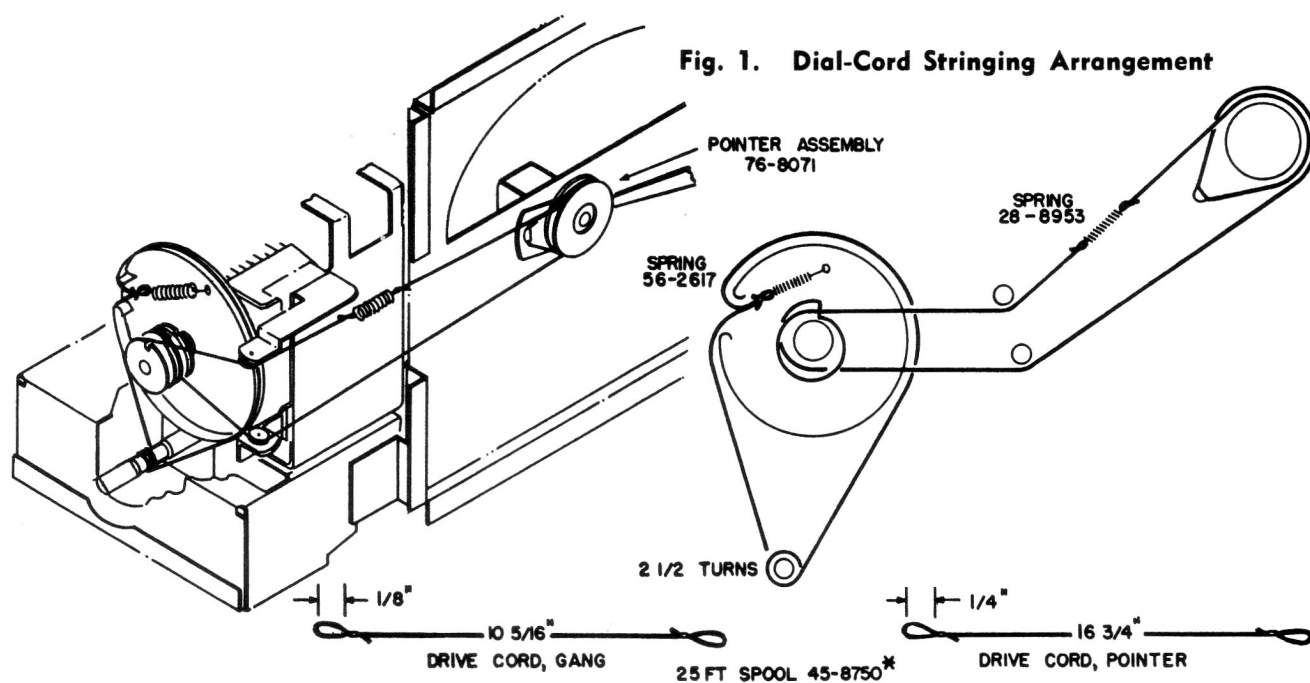
RADIO CONTROLS—Set the volume control to maximum. Set the tuning control as indicated in the alignment chart. During alignment of the radio, the batteries should be in the same position with respect to the chassis and the loop antenna as they normally are in the cabinet. It is recommended that a-c power be used when aligning the radio.

ALIGNMENT CHART

STEP	SIGNAL GENERATOR		RADIO		ADJUST
	CONNECTION TO RADIO	DIAL SETTING	DIAL SETTING	SPECIAL INSTRUCTIONS	
1	Connect signal generator through a .1- μ f. condenser to pin 6 (converter grid) of 1R5.	460 kc.	Tuning gang fully open.	Adjust for maximum output in order given.	TC4—2nd i-f sec. TC3—1st i-f sec. TC2—1st i-f pri.
2	Use radiating loop. (See NOTE 1 below.)	1620 kc.	1620 kc. (See NOTE 2 below.)	Adjust for maximum output.	C1B—osc. trimmer
3	Same as step 2.	1400 kc.	1400 kc. (See NOTE 2 below.)	Adjust for maximum output.	C1A—antenna trimmer
4	Same as step 2.	600 kc.	600 kc. (See NOTE 2 below.)	Adjust for maximum output. Rock tuning gang while making this adjustment.	TC1—osc. core
5	Repeat steps 2, 3, and 4 until no further improvement is obtained.				

NOTE 1. Use a 6-8-turn, 6-inch-diameter loop made up of insulated wire. Connect to generator terminals, and place about one foot from radio loop.

NOTE 2. The tuning condenser can be set to the proper frequency by turning it until the dial pointer coincides with the respective marks on the dial backplate. See figure 2.



I.F. = 460 Kc.

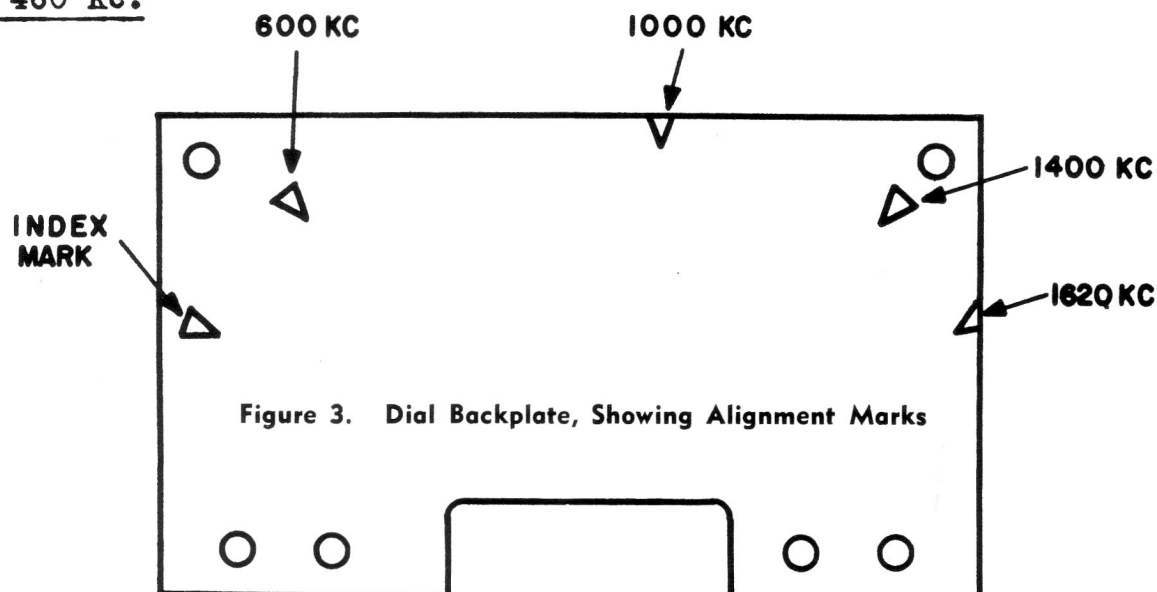
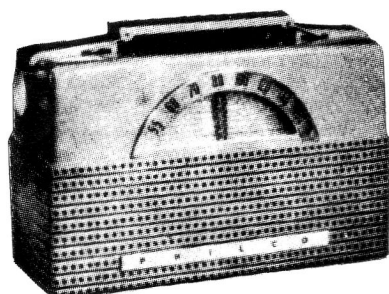


Figure 3. Dial Backplate, Showing Alignment Marks



POWER CONSUMPTION

A-C or d-c operation	11 watts
Battery operation	10 ma. from 75-volt "B" Battery (9 ma.: battery-saver operation) 260 ma. from 1.5-volt "A" battery

ANTENNA Magnecor high-impedance loop with provision for external antenna

INTERMEDIATE FREQUENCY 460 kc.

PHILCO TUBES 1R5 converter, IU4 i-f amplifier,
1U5 detector-a.v.c. 1st audio,
3V4 output

BATTERY TYPE P144 "B" battery P77 "A" battery