

Alignment Procedure

Power Supply.—Although this model employs an ac-dc chassis, it is not suitable for use on d.c., as this would damage the motor.

Output Meter Alignment.—Connect the meter across the voice coil, and turn the receiver volume control to maximum.

Test-Oscillator.—Connect the low side of the test-oscillator to the receiver chassis, through a .01 mfd. capacitor, and keep the output as low as possible.

Antenna.—The set is equipped with a built-in loop antenna. If an outdoor antenna is used, it should be connected to the blue antenna lead on the rear of the chassis.

Steps	Connect the high side of test-oscillator to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output
1	I-F grid, in series with .01 mfd.	455 kc	Quiet point 1,600 kc end of dial	L8 and L9 2nd I-F Transformer
2	1st Det. grid in series with .01 mfd.			L6 and L7 1st I-F Transformer
3	Ant. terminal in series with 200 mmfd.	1,650 kc	Gang at minimum	C25 (osc.) C31 (osc.)
4	Radiated signal 1300 kc		Signal Frequency	C23 (ant.)
5	Repeat steps 3 and 4.			

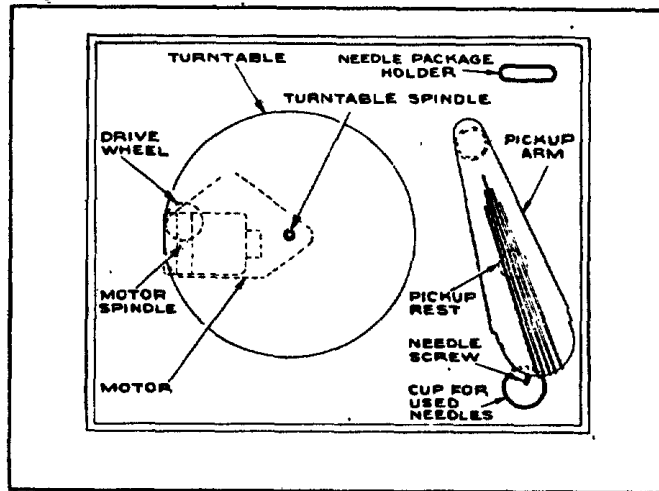


VOLUME CONTROL **PHONO-RADIO TUNING CONTROL** **PHONO-RADIO POWER-TONE CONTROL**

Controls

The phonograph motor is a self-starting, constant-speed induction type. It should be lubricated every six months by applying a few drops of light machine oil to the top and bottom motor spindle bearings, to the turntable spindle and to the turntable drive wheel bearing.

CAUTION: Keep oil away from drive bushing on top of motor spindle and from rubber driving tire on turntable drive wheel.



Phonograph

Frequency Range..... 540-1,650 k

Intermediate Frequency..... 455 k

Tube Complement

- (1) RCA-12SA7..... 1st Detector-Oscillator
 - (2) RCA-12SK7..... 1-F Amplifier
 - (3) RCA-12SQ7..... 2nd Detector, 1st A-F, and A.V.C.
 - (4) RCA-50L6GT..... Power Output
 - (5) RCA-35Z5GT..... Half-Wave Rectifier
- Dial Lamp (1)..... Mazda 51, 7.5 volts, 0.2 amp

Power Output (125 volt, 60 cycle supply) Radio Phonograph

Undistorted..... 0.9 watts..... 1.5 watt

Maximum..... 1.2 watts..... 2.2 watt

Power Supply Ratings

A-C Rating..... 105-125 volts, 60 cycles- 55 watts

Loudspeaker (RL-81-B4)

Type..... 5-inch permanent-magnet dynamic

Voice-Coil Impedance..... 4 ohms at 400 cycles

Phonograph..... Synchronous (self-starting)

Records..... 10-inch and 12-inch, 78 r.p.m.

Pickup..... Crystal, 100,000 ohms at 1,000 c.p.s.

Average Output of Pickup..... 1½ volts at 1,000 c.p.s.

across ¼ meg. load

Cabinet Dimensions (inches). Height 10 ½, Width 16 ½, Depth 13 ½

Weight..... 18 lbs. (net) 22 lbs. (shipping)

Tuning Drive Ratio..... 10-1