

OVER THE CAMDEN, N. J. SOLDERING IRON MARCH 2, 1937

PREPARED FOR THE INFORMATION AND USE OF RCA VICTOR DISTRIBUTORS' SERVICE MANAGERS

MODEL 67M - HUM AND NOISE

This receiver may respond to induction from nearby alternating current circuits when it is being tested or demonstrated in a dealer's store. The response is exhibited as hum, noise or mushy reception. It may be eliminated by attaching a 5 MH, R-F choke between the antenna terminal and chassis ground. Stock #12177 R-F coil is suitable for this application. It is not required on the receiver after installation in a car.

I-F WAVE TRAP ADJUSTMENT

In areas where interference is experienced from code stations operating in the range of 450-470 KC, additional reduction of such interference may be obtained by adjusting the wave trap contained in the receiver to the frequency of the interfering station instead of to 460 KC, the I-F of the receiver. Each receiver installed in affected areas should be accordingly adjusted by the dealer during installation, after having determined the exact operating frequency of the disturbing station by consulting the owners or operators of the station. Effect of wave trap adjustment on battery receivers is increased by use of a short direct (low impedance) ground lead to earth.

MODEL 5U - PHONOGRAPH RUMBLE

Hum or rumble that may appear excessive during phonograph operation can be reduced by installing a Stock #12037 filter, connected across the input transformer secondary (3 & 4) terminals. The filter unit is contained and potted in a metal case which may be mounted inside the cabinet with wood screws. Polarity of the two flexible leads is immaterial. The unit should be kept as far as possible from the power transformer and turntable motor.

MAGIC EYE TUBES - INTERIM LINE RECEIVERS

The 6G5 Type Magic Eye is specified for use in certain models of the 1937 spring line. In order that the confusion of types required for a particular receiver may be cleared, the following table is given:-

<u>Use 6G5 in Models</u>		<u>Use 6E5 in Models</u>	
6T5	9K1	8T	13K
7T1	9K3	8K1	15K
7K1	7U2	10K1	15U

RECTIFIER TUBES - INTERIM LINE

The following data on rectifier tube types will assist in supplying information to dealers and customers:-

<u>RCA-80 Used In</u>	<u>RCA-5W4 Used In</u>			<u>RCA-5Z4 Used In</u>		
5T1	5T6	6K1	7T1	8T	9K3	13K (2)
6T5	5T7	6K3	7K1	8K1	10K1	15K (2)
	5T8			9K1		

RADIO-PHONOGRAPH COMBINATIONS

It is inadvisable to transport or move phonograph instruments with the turntable plate in place on the spindle, since a jolt will be apt to bend the spindle or turntable and result in excessive "wow". The motor should always be clamped solidly to the motor board when the instrument is handled; this being extremely important due to close mesh between the fixed automatic main gear and the pinion on the spindle of the flexibly mounted motor. Any binding or burr produced by a jolt on the teeth of the pinion or gear, will contribute to "wow" content.

CABINET BLOOM - WHITE SPOTS

A condition that becomes apparent as a white milky spot under the finish of some cabinets, tending to spread or bloom with age, should be repaired by a competent cabinet refinisher as follows:-

- (1) Rub surface of lacquer over area where the white spot appears with steel wool. If this operation does not remove the condition ---
- (2) Spray on a new coat (additional) of lacquer over the area affected and rub down with oil and rubbing abrasive.
- (3) If spraying facilities are not available, carefully apply a light coat of slow-drying, lacquer thinner with a cloth. Allow to dry and rub down with oil and rubbing abrasive. Two coats of thinner may be required in some cases.

TURNTABLE PLATE - 10 INCH TYPE

The turntable plate used on Models 5U, 7U, D 7-7, R-95 and R-93-2 is carried in stock less rotor ring laminations as Stock #13956. This plate is thus available for replacement purposes on assemblies #11737, #11738, #11739, #12048, #12049 and #13084. The importance of exact centering of the rotor laminations in respect to the spindle and stator should not be overlooked in exchanging these turntables.

MODELS 5T6, 5T7 and 5T8

The small black insulated IRC resistor (1.8 ohms) which connects from the "hot" side of the 6F6 heater circuit to the terminal strip directly behind the volume control, should be replaced on all chasses passing through service shops for repair. The replacement resistor, Stock #13820 is a wire wound type, with the resistance element enclosed in a ceramic tube. This resistor is in series with the pilot lamps and serves to reduce voltage. A quantity of the replacement resistors should be stocked for the above purpose.

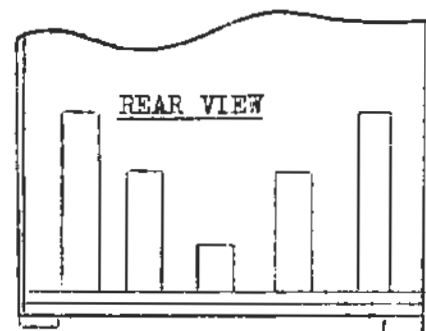
MODEL 15K CABINET - VENEER LIFTING

Cabinets of this type on which the veneer is blistering or lifting away from the solid wood core on the left or right pilasters, should be turned over to a competent local cabinet maker and refinisher for repair. Satisfactory and permanent correction may be effected by the following method:-

- (1) Split the blister along the grain of the veneer with a sharp knife so as to form an opening which will allow insertion of glue.
- (2) Fill the cavity formed behind the loose veneer with a reliable furniture glue - animal type.
- (3) Rub the blistered veneer with a smooth object (head of hammer) until glue has become solidly set.
- (4) Sand down the repaired spot - if necessary - and refinish.

PLACEMENT MAGIC VOICE TUBES

Best response will be maintained on Magic Voice instruments when the acoustic tubes are inserted in their mountings as they are shipped from the factory. These tubes are removable by unscrewing and lifting upward and are replaceable by the reverse operation. Their proper locations, as viewed from the rear of the cabinets are shown by the sketch to the right. Improper location of, or missing tubes will usually produce abnormal resonances at the low frequency end of the response range. Rattle excited by low frequencies may likewise be caused by a loose tube. When replacing the cabinet rear Magic Voice cover, make sure to get all screws turned up tightly to prevent vibration or rattle between the cover and the cabinet.



SERVICE DIVISION
RCA MANUFACTURING COMPANY, INC.