



MOTOROLA

Service Manual

HOME RADIO

MODEL
57CD1 Mahogany
57CD2 White
57CD3 Blue
57CD4 Turquoise

CHASSIS
HS-528

GENERAL INFORMATION

TYPE - AC table model superheterodyne receiver with a plated circuit chassis, VOLUMATIC control and loop antenna. This model is equipped with an electronic clock for automatic control of the radio and a clock-controlled appliance outlet whose maximum rating is 1500 watts.

TUBE COMPLEMENT - 12BE6 Converter
12BA6 IF amp.
12CD6 Det.-AVC-1st AF amp.
6X4 Rectifier
6X5 Rectifier

TUNING RANGE - 535 to 1625 Kc. IF - 455 Kc.

POWER SUPPLY - 117 volts, 60 cycle AC only; 57 watts



SERVICE NOTES

USE OF ISOLATION TRANSFORMER

The chassis of this receiver is connected directly to the power line; however, the power cord circuit is broken by an interlock when the cabinet rear cover is removed. When servicing or adjusting this chassis, an isolation transformer should be inserted between the power line and the chassis.

NOTES:

1. Removing the line cord plug to the wall outlet may sometimes require removal.
2. **CAUTION:** Never contact the radio chassis to water pipe, radiator, or other ground.

DISASSEMBLY INSTRUCTIONS

To Remove Chassis From Cabinet

1. From front of cabinet, pull off the two control knobs and the dial scale knob.
2. Remove the screws which hold the cabinet back in place and remove the cabinet back.
3. From rear of cabinet, using the chassis AC connecting leads and the appliance cord leads.
4. From rear of cabinet, unsolder the output transformer leads from the output transformer which is mounted on the speaker.
5. From rear of cabinet, remove the two chassis mounting screws.
6. Remove chassis from cabinet.

Clock Crystal Removal

1. Remove the screws which hold the cabinet back in place and remove the cabinet back.
2. From rear of cabinet, insert a screwdriver between cabinet and clock crystal on left-hand side of clock. Gently twist; the clock crystal will pop out. Caution should be exercised when removing the crystal so as not to scratch or break it.

To Remove Clock From Cabinet

1. Remove the screws which hold the cabinet back in place and remove the cabinet back.
2. Remove the two clock leads.
3. Remove the clock crystal from Clock Crystal Removal.
4. From rear of cabinet, remove the clock connecting wires. **CAUTION:** To avoid damage, use care in removing appliance.

1. Remove clock from cabinet.

CIRCUIT DESCRIPTION

1. The circuit of this chassis is conventional - there are no built-in reactions or exceptions. Leads are placed on both sides of the chassis back, allowing replacing the usual connecting wires and making wiring more uniform.
2. The metal plating extends through all the holes on the chassis, connecting circuits on the front with those on the rear.
3. Reference to the schematic diagram and to chassis will permit the circuit to be traced easily.

SAFETY PRECAUTIONS

1. Do not service the chassis on a metal plate because of the possibility of a short circuit.
2. Use caution when handling the chassis with power applied because all high-voltage leads are exposed.
3. The outer edges of the chassis and control plate areas are all power line potential.

COMPONENT REPLACEMENT

1. To prevent tube breakage, remove them before replacing components.
2. WHEN REMOVING DEFECTIVE COMPONENTS USE ONLY A SMALL SOLDERING IRON (30 WATTS OR LESS) TO AVOID DAMAGE TO THE WIRING. DO NOT USE A SOLDERING IRON. WARNING: THE LEADS ARE VERY THIN AND EXTENSIVE HEAT WILL BURN THEM OR LOOSEN THEM FROM THE BASE MATERIAL.
3. Plated surfaces of regular tubing wire.
4. It is recommended that multiple lug components be removed by removing all the lugs simultaneously into a common temperature resisting (Motorola Part Number 6274444) available from Motorola Distribution. The soldering heat may be used on the chassis wiring. If a wire is needed, use the available heat which lug individually rather than as possible. Then, to eliminate heating and to prevent the chassis wiring will be fixed.
5. Reference to components may be removed by soldering one end of a wire.
- CAUTION:** Check all the wiring from the tubes before inserting a new component. Do not let the solder run over an exposed lead, as a short circuit will be created.

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A Gutmann



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