

Motorola

CHASSIS
HS-289
HS-289A

MODEL
52R11
52R12
52R13
52R14
52R15
52R16

TO REMOVE CHASSIS FROM CABINET:

1. Remove the four screws which hold the back cover, and remove the cover and line cord.
2. Pull off the two control knobs from the front of the receiver.
3. Remove the Phillips head screw under the tuning knob, on the front of the receiver.
4. From the back, remove the screw which holds the line cord plug.
5. Disconnect the leads from the speaker.
6. From the back, remove the three screws which mount the chassis. CAUTION: Do not lose the insulating washers on the screws -they prevent damage to the printed circuit by the heads of the screws. See Figure 1.
7. Slide the chassis from the cabinet.

CIRCUIT DESCRIPTION

The circuit of this chassis is conventional - there are no built-in resistors or capacitors. Leads are printed on both sides of the chassis base, thereby replacing the usual connecting wires and making wiring more uniform.

Chassis HS-289A is the same as HS-289 except for the locations of electrical components

A dual 250 mmfd ceramic capacitor replaces capacitors C-3 and C-6 used in chassis HS-289.

SAFETY PRECAUTIONS

1. 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 back is removed for replacing tubes. When aligning or servicing the chassis from AC, an isolation transformer should be inserted between the power line and the chassis.
2. Do not service the chassis on a metal plate, because of the possibility of a short circuit.
3. Use caution when handling the chassis with power applied, because all high voltage leads are exposed.
4. The outer edges of the chassis and the large printed areas in the center are at ground potential.

ANTENNA

Under certain circumstances, in early models, AC hum was induced into the loop antenna. This condition was corrected in later models by repositioning the loop. Figure 3 shows the revised location.

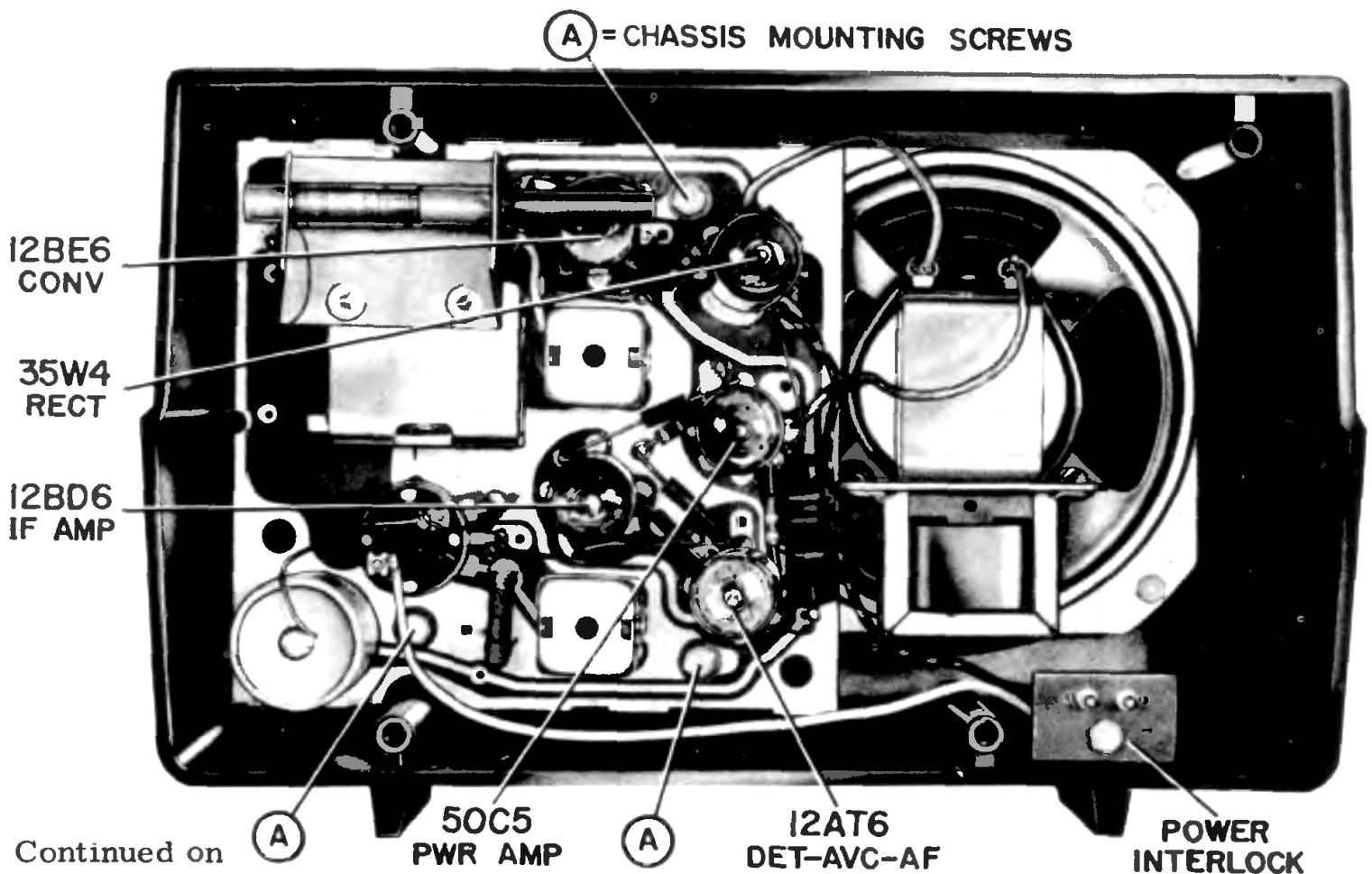


FIGURE 1. REAR VIEW OF RECEIVER (LATE MODEL)

MOTOROLA Chassis HS-289

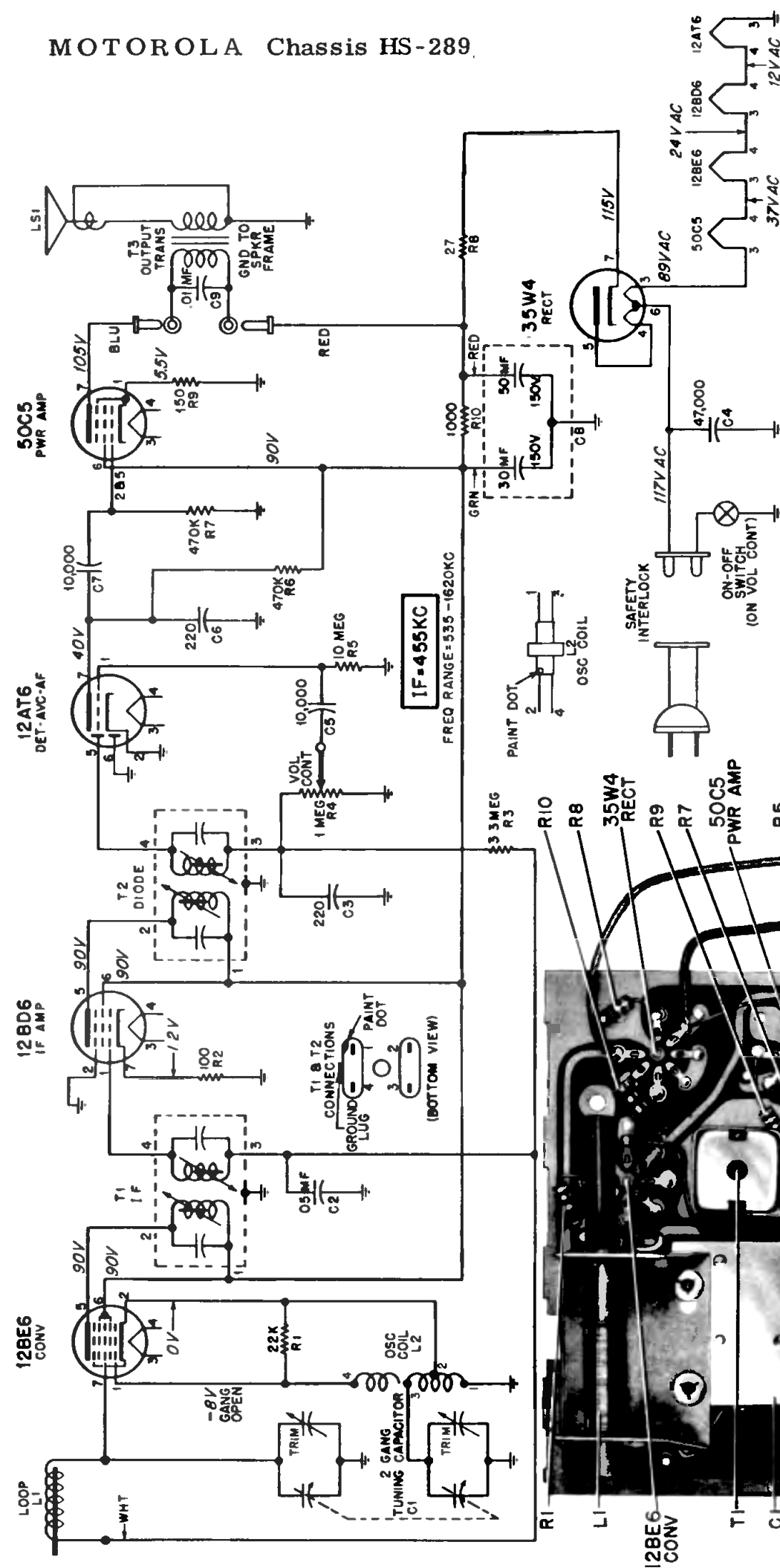


FIGURE 7. SCHEMATIC DIAGRAM

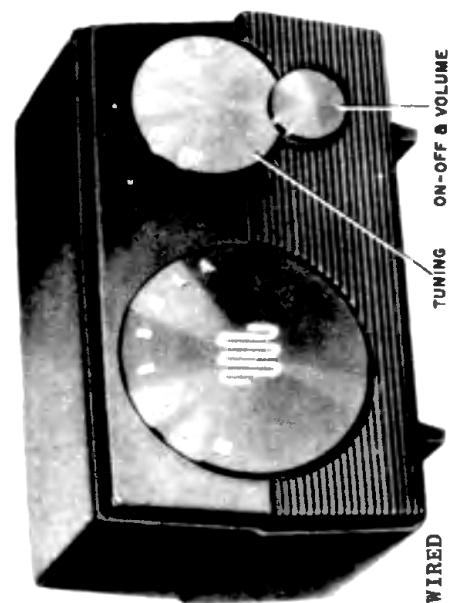


FIGURE 3. FRONT VIEW OF CHASSIS - WIRED

- NOTES**
- CAPACITORS INDICATED IN MMF
UNLESS OTHERWISE SPECIFIED
- RESISTORS INDICATED IN OHMS.
K = 1000 OHMS
1. VOLTAGE MEASUREMENTS MADE WITH
ELECTRONIC TYPE VOLTMETER
2. VOLTAGES TAKEN BETWEEN POINTS
INDICATED AND CHASSIS
3. VOLTAGE TOLERANCE $\pm 10\%$.
4. INPUT VOLTAGE 117 V AC
5. NO SIGNAL INPUT

