



MOTOROLA

Service Manual

HOME RADIO

MODEL	CHASSIS
X11B	HS-759
X11E	HS-759
X11G	HS-759
X11R	HS-759

Supersedes X11 Service Manual & Supplement Part No's 68PG44481 & 68PG44487

GENERAL INFORMATION

TYPE - Pocket portable superheterodyne radio using a printed circuit board, 6 transistors, 1 diode and a thermistor (in some sets). An earphone jack is provided on side of radio; insertion of earphone automatically disconnects speaker for private listening. A 16 ohm impedance earphone (Motorola Part No. 50D64509 or 50D64487) and an accessory carrying case (Motorola Part No. 15C645008) are available through Motorola Dealers or Distributors.

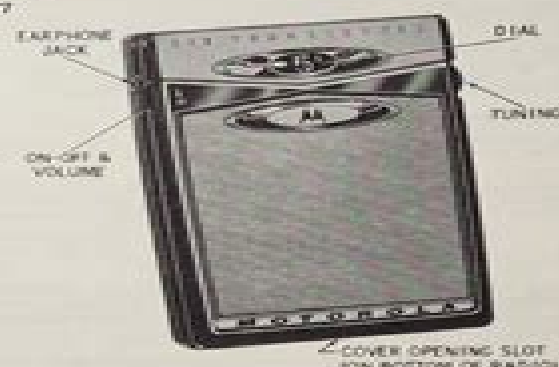
This manual covers two versions of the X11 series. These versions differ from each other primarily in physical location of parts and the printed circuit board.

POWER SUPPLY - Operates from one 9-volt battery; see Eveready 215 or equivalent.

Battery Drain - (see Service Notes)

TUNING RANGE - 531 to 1620 Kc

IF - 455 Kc



X11 SERIES

TRANSISTOR COMPLEMENT

NOTE: Three transistor type complements are used. The chart below lists the various types used along with correct replacement for each type. Circuit changes are also shown for each complement.

Ref. No.	Complement 1*	Complement 2*	Complement 3**	Function	Replace with***
V-1	2S-52	2S-50	2N402	Converter	2S-52
V-2	2S-53	2S-51	2N400	1st IF amp	2S-53
V-3	2S-49 or 2S-55	2S-51	2N400	2nd IF amp	2S-49
V-4	2S-54	2S-52	2N406	Driver	2S-54
V-5, 6	2S-56	2S-53	2N408	Power amp	2S-56 (replaces 2S-54 & 2S-53) 2N408 (replaces 2N406)

*With complements 1 and 2, R-17 is included, R-19 is TK

**With complement 3, R-17 is omitted, R-19 is 2TK

***See Replacement Parts List for Motorola Part Nos.

SERVICE NOTES

CIRCUIT DESCRIPTION

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

2. Reference to the chassis photographs, printed circuit board wiring diagrams, schematic diagram and to chassis will permit the circuit to be traced easily.

NOTE: To facilitate servicing, the printed circuit board wiring diagrams are shown from the conductor side of the chassis; the components shown are actually located on the opposite side of the chassis. To further aid servicing, the base, emitter and collector voltages are included.

CHASSIS REMOVAL

1. Remove cabinet back by inserting a coin into the cover opening slot (located on bottom of radio) and twisting until cabinet back is free.

2. Remove 2 chassis mounting screws (see PARTS LOCATION photo).

3. Unscrew earphone jack mounting nut and remove spacer.

NOTE: A special tool for removing the earphone jack is available, order Motorola Part Number 66A646III.

4. Remove cardboard strip (located under battery).

5. Unsolder speaker leads.

6. Slide chassis to tuning knob side of cabinet and pull up on volume knob side.

7. When replacing chassis, make certain leads are dressed properly against chassis and are away from speaker.

COMPONENT REPLACEMENT

Component replacement for this radio is comparable to that of other transistor radios and, generally, techniques which apply to these radios are applicable to this receiver.

To facilitate replacement and to prevent damage to the printed circuit board, use a soldering iron of 15 watts or less; since some adjacent areas on the printed circuit board are physically close to each other, the diameter of the soldering iron tip should be 3/16" or less to prevent solder shorts across these areas. If possible, use miniature tools (twosers, etc.) and a soldering brush to further facilitate removal. For component replacement, use the techniques outlined below.

NOTE: Caution must be re-emphasized on use of the soldering iron with this chassis. Do not use a soldering pot.

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