



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

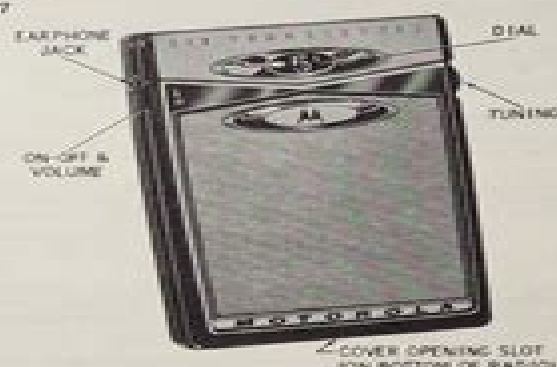
TYPE - Pocket portable superheterodyne radio using a printed circuit board, 6 transistors, 1 diode and a thermistor (in some sets). An earphone jack is provided on side of radio; insertion of earphone automatically disconnects speaker for private listening. A 16 ohm impedance earphone (Motorola Part 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.

MOTOROLA INC. 4645 WEST AUGUSTA BLVD. - CHICAGO 51, ILLINOIS

Motorola Service Manual

Intertec Publishing



Motorola Service Manual:

Motorola Service Manual Motorola, Inc, 195? Truck Service Manual , 1984 **Operator, Organizational, Direct Support, and General Support Maintenance Manual, Including Repair Parts List for Welding Machine, Model GCC-300W (3431-01-032-6289).** , 1990 **Official Auto-radio Service Manual** Hugo Gernsback, Robert Hertzberg, 1933

Outboard Motor Service Manual Intertec Publishing, 1987 Detailed tips on periodic servicing troubleshooting general maintenance and repair are explicitly outlined in this manual Repair is easy with the specifications and step by step repair procedures included for hundreds of models Volume II covers models with 30hp and above **Operator's, Organizational, Direct Support and General Support Maintenance Manual** , 1987 **Operator's, Organizational, Direct Support and General Support Maintenance Manual for Road Equipment, Roller, Towed, Smooth Drum, Vibratory, Air Mobile, Single Drum Rumbler SM54A, NSN 3895-01-193-4078** , 1987 Outboard Motor Service Manual: Motors below 30 hp , 1979 **Operator's, Organizational, Direct Support, and General Support Maintenance Manual (including Repair Parts Information and Supplemental Maintenance and Repair Parts Instructions) for Compactor, High Speed, Tamping Self-propelled (CCE) BOMAG Model K300 NSN 3895-01-024-4064** , 1982

Admiral Color TV Service Manual Homer L. Davidson, Stan Prentiss, 1970 **Operator and Organizational Maintenance Manual** , 1990 **Federal Trade Commission Decisions** United States. Federal Trade Commission, 1968

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Operator's, Organizational, Direct Support, and General Support Maintenance Manual (including Repair Parts and Special Tools List) for Truck, Fire Fighting, 4x4, Model 1350 PKP/200 AFFF, NSN 4210-00-484-5729 , 1992

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web give students model language and do an example in my picture the tree is next to the house on the left the other student reply yes that is the same as my picture or sorry my picture is different in my picture 5 students take turns describing the differences in each of their pictures until they have completed the picture

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web tentang kelimpahan dan sifat sifat golongan gas mulia halogen alkali dan alkali tanah a kelimpahan gas mulia unsur unsur gas mulia dalam sistem periodik terletak pada golongan viiia yang meliputi helium he neon ne argon ar kripton kr xenon xe dan radon rn

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web argon adalah gas mulia ketiga dan berkontribusi pada sekitar 1 atmosfer bumi argon memiliki kelarutan mirip oksigen dan sekitar 2 5 kali lebih mudah larut dalam air dari nitrogen unsur kimia inert ini tidak berwarna dan

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web dampak negatif keberadaannya di alam c argon kegunaan pengisi bola lampu karena argon tidak bereaksi dengan filamen walaupun pada temperatur tinggi argon digunakan dalam las titanium pada pembuatan pesawat terbang atau roket pengisi tabung pemadam kebakaran dampak negatif tidak dapat membentuk campuran kimia sejati 2 jumlah ya

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web dampak negatif radon menghasilkan hasil peluruhan berbentuk padat dan akibatnya cenderung membentuk debu halus yang mudah memasuki jalur udara dan melekat permanen dalam jaringan paru paru menghasilkan paparan lokal yang parah radon dalam rumah menyebabkan kematian akibat kanker paru paru dampak negatif gas mulia

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dan radon rn lebih jelasnya berikut penjelasan dan kegunaan unsur gas mulia baca juga fermentasi dan penjelasannya helium
he helium merupakan unsur gas mulia nomor dua terbanyak di alam semesta

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web jan 4 2022 balon helium sangatlah ringan dan tidak reaktif sehingga ia dapat mengapung di udara tanpa takut terbakar oleh panas hal ini membuat helium digunakan sebagai gas pengisi balon selain mengisi balon helium juga digunakan untuk mengisi air bag mobil ketika terjadi benturan pada mobil baca juga mengapa balon bisa terbang

e modul kimia kelas xii unsur golongan gas mulia halogen - Jun 16 2022

web di sekitar kalian terdapat unsur unsur dan persenyawaan unsur golongan utama seperti gas oksigen air dan lain lain banyak persenyawaan dari unsur unsur golongan utama yang bermanfaat bagi kehidupan di muka bumi ini namun demikian kadangkala penggunaan yang tidak bijak dari kita dapat menimbulkan dampak merugikan bagi

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web dampak negatif radon menghasilkan hasil peluruhan berbentuk padat dan akibatnya cenderung membentuk debu halus yang mudah memasuki jalur udara dan melekat permanen dalam jaringan paru paru menghasilkan paparan lokal yang parah radon dalam rumah menyebabkan kematian akibat kanker paru paru pembuatan unsur gas mulia