

MOTOROLA Service Manual

MODEL L14E CHASSIS HS-730

RANGER 1000 SERIES

GENERAL INFORMATION

TYPE - Portable superheterodyne radio using eight transistors and a diode. An earthone jack is provided on side of radio, insertion of earthone advantacally disconnects speaker for private listening. A 2000 ohm accessory earthone (Adviced Part Number Sikkt-1971) or Sikkt-188) is available through Motorcia Dealers or Entributors.

TUNING BANGE - 555 to 1620 Kd

1000 - 455 00m

POWER SUPPLY - Operates from six 1-1/2 woll batteries; use six of the following or equivalent: Everymany 635, Burgers 1, Ray-O-

SOUTE: To insure satisfactory performance, all six batteries used in this radio must be in good operating condition. Therefore, when battery replacement becomes necessary, it is recommended that all six be replaced with fresh once.

Buttery Drain - face Service Notes)



REAR VIEW OF SADIO WITH PANEL REMOVED SHOWING SATTERY LOCATIONS

SERVICE NOTES

OUTPUT STAGE CIRCUIT DESCRIPTION

The output stage of this receiver functions in a manner similar to the one used in the Motorcia IX25 Series. For a more detailed description of this circuit, refer to the IX25 Series Service Manual, Motorcia Part No. 58P644007.

SERVICING PRECAUTIONS

1. When servicing this radio, probing with a served liver [checking for "clicks" from various points] must be avoided, because the transmitters are succeptible to damage from this type of check. If the transmister BASE electrode is shorted to certain points in the circuit, the BASE bias will be altered, allowing excessive current to flow through the transmister, esseing permanent damage.

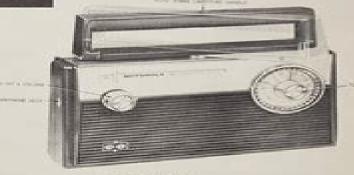
2. When making circuit resistance checks, transistor shouting paths may exist, which can, in some cases, chose arrections readings or possible damage to transistors. Therefore, when checking resistances, it may be necessary to remove one or more transistors from associated circuits.

TRAMBISTOR CHECK

Substituting a known good transistor for a suspected one is the simplest and most positive method of checking transistors.

EMITTER RESISTOR VOLTAGES

Voltages across the emitter resistors are provided on



LIA NESERBER

TRANSISTOR COMPLEMENT (NOTE: Replace with same type ariginally used in set.)

Ref.	Type	Fundamen.
V-1 V-2 V-4 V-5 V-6 V-7, 8	281107 281109 281108 281108 (coded sed) 2811110 281111 (coded red) 28228 28238	BF amp Oscillator Mixes Lat IF Amp Lod IF Amp Driver Fower Amp

the achievatic as an additional aid in accreting this receiver. A check of these voltages will indicate whether or not a translator stage is functioning normally.

BATTERY DRAIN

12-16 ma (max) with no ispot signal

NOTE: Due to the type of circuitry involved, there are may separate hattery current paths, therefore, a DPST on-off switch is used. This recreatates two current measurements.

A very simple, convenient method of measuring battery dram can be made without unabfering any consections. The only items necessary are a low resistance DC million menter and a jumper wire or two mailtanematers. With the receiver turned off, place a milliammeter across the open terminals of one section of the switch and the jumper across the other section of the militanemater is not materially birned on at the minimum volume level. The mater about read 12-16 ma; then interchange jumper were and milliammeters connections, the meter should read 12-16 ma. If we milliammeters are available, place one across each section of the switch each meter should read 12-16 ms.

CHASSIS REMOVAL

1. Lousen two back panel mounting acrews 5 or 6 turns (a coin can be used for a screwdriver) and remove panel (if necessary, press thumb against bottom center edge; the panel will swing free, allowing easy removal):

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