



# MOTOROLA

## Service Manual

HOME RADIO  
MODEL CHASSIS  
L14E HS-730  
RANGER 1000 SERIES

### GENERAL INFORMATION

**TYPE** - Portable superheterodyne radio using eight transistors and a diode. An earphone jack is provided on side of radio; insertion of earphone automatically disconnects speaker for private listening. A 2500 ohm accessory earphone (Motorola Part Number 50R640710 or 50R641488) is available through Motorola Dealers or Distributors.

**TUNING RANGE** - 535 to 1620 Kc IF - 455 Kc

**POWER SUPPLY** - Operates from six 1-1/2 volt batteries; use one of the following or equivalent:  
Eveready 615, Burgess 1, Ray-O-Vac 1LP

**NOTE:** To ensure 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 ones.

Battery Drain - (see Service Notes)



REAR VIEW OF RADIO WITH PANEL REMOVED  
SHOWING BATTERY LOCATIONS

### OUTPUT STAGE CIRCUIT DESCRIPTION

The output stage of this receiver functions in a manner similar to the one used in the Motorola TX25 Series. For a more detailed description of this circuit, refer to the TX25 Series Service Manual, Motorola Part No. 68P644007.

### SERVICING PRECAUTIONS

1. When servicing this radio, probing with a screwdriver (checking for "clicks" from various points) must be avoided, because the transistors are susceptible to damage from this type of check. If the transistor BASE electrode is shorted to certain points in the circuit, the BASE bias will be altered, allowing excessive current to flow through the transistor, causing permanent damage.

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

### TRANSISTOR 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



L14 SERIES

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

| Ref. No. | Type               | Function   |
|----------|--------------------|------------|
| V-1      | 2N1107             | RF amp     |
| V-2      | 2N1109             | Oscillator |
| V-3      | 2N1108             | Mixer      |
| V-4      | 2N1108 (coded red) | 1st IF Amp |
| V-5      | 2N1111             | 2nd IF Amp |
| V-6      | 2N1111 (coded red) | Driver     |
| V-7, 8   | 2N1185             | Power Amp  |

### SERVICE NOTES

Use schematic as an additional aid in servicing this receiver. A check of these voltages will indicate whether or not a transistor stage is functioning normally.

### BATTERY DRAIN

12-16 ma (max) with no input signal

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

A very simple, convenient method of measuring battery drain can be made without unsoldering any connections. The only items necessary are a low resistance DC milliammeter and a jumper wire or two milliammeters. 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 switch; the receiver is automatically turned on at the minimum volume level. The meter should read 12-16 ma; then interchange jumper wire and milliammeter connections, the meter should read 12-16 ma. If two milliammeters are available, place one across each section of the switch; each meter should read 12-16 ma.

### CHASSIS REMOVAL

1. Loosen two back panel mounting screws 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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