

LBI-39007



Mobile Communications

***Monogram* Series**
DUAL RATE
CHARGER
MHCH3V

Operator's Manual

IMPORTANT SAFETY INSTRUCTIONS

1. **SAVE THIS MANUAL** - It contains important safety and operating instructions for the Dual Rate Charger MHCH3V (349A9730P25).
2. Before using the battery charger, read all instructions and cautionary markings on (1) the battery charger, (2) the battery and (3) the product using the battery.
3. **CAUTION** - To reduce the risk of injury, charge only Ericsson GE battery packs. Charging any other battery pack or batteries may cause the battery to burst and cause personal injury or damage.
4. Do not expose charger to rain or snow.
5. Do not use auxiliary equipment not recommended or sold by the manufacturer. To do so may result in a risk of fire, electrical shock or injury to persons.

IMPORTANT SAFETY INFORMATION (CONT.)

6. To reduce risk of damage to electric plug and cord, pull by the plug rather than the cord when disconnecting the charger.
7. Make sure the cord is located so that it will not be stepped on, tripped over or otherwise subjected to damage or stress.
8. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure:
 - a. That pins on the plug of the extension cord are the same number, size and shape as those on the charger's plug;
 - b. That the extension cord is properly wired and in good condition; and
 - c. That the wire size is large enough for the AC ampere rating of the charger as specified in Table 1.

IMPORTANT SAFETY INFORMATION (CONT.)

TABLE 1 - RECOMMENDED MINIMUM SIZE FOR EXTENSION CORDS FOR BATTERY CHARGERS

LENGTH OF CORD (FT.)	25	50	100	150
AWG SIZE OF CORD	18	18	18	16

9. Do not operate charger with damaged cord or plug - replace them immediately.
10. Do not operate charger if it has received a sharp blow, been dropped or otherwise damaged in any way; return it to a qualified service shop.
11. Do not disassemble the charger; return it to a qualified service shop when service or repair is required. Incorrect re-assembly may result in a risk of fire or electrical shock.
12. To reduce risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning.

IMPORTANT SAFETY INFORMATION (CONT.)

- 13. GROUNDING AND AC POWER CORD CONNECTION** - To reduce the risk of electrical shock, use only a properly grounded outlet. The charger is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. Be sure that the outlet is properly installed and grounded in accordance with all local codes and ordinances.
- 14. DANGER** - Never alter the AC cord or plug. If it will not fit in the outlet, have a proper outlet installed by a qualified electrician. Improper connection can result in risk of an electric shock.
- 15.** The charger 120 VAC line cord has a grounding plug that looks like the plug illustrated in Figure 1. A temporary adapter, which looks like the adapter illustrated in sketches B and C, may be used to connect this plug to a two-pole receptacle as shown in sketch B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician.

IMPORTANT SAFETY INFORMATION (CONT.)

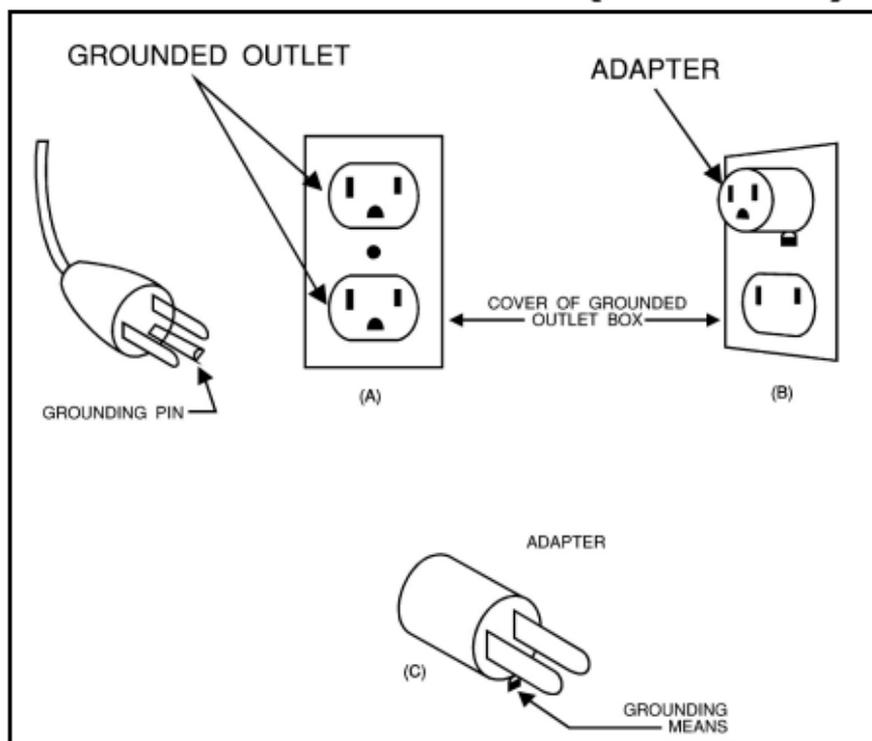


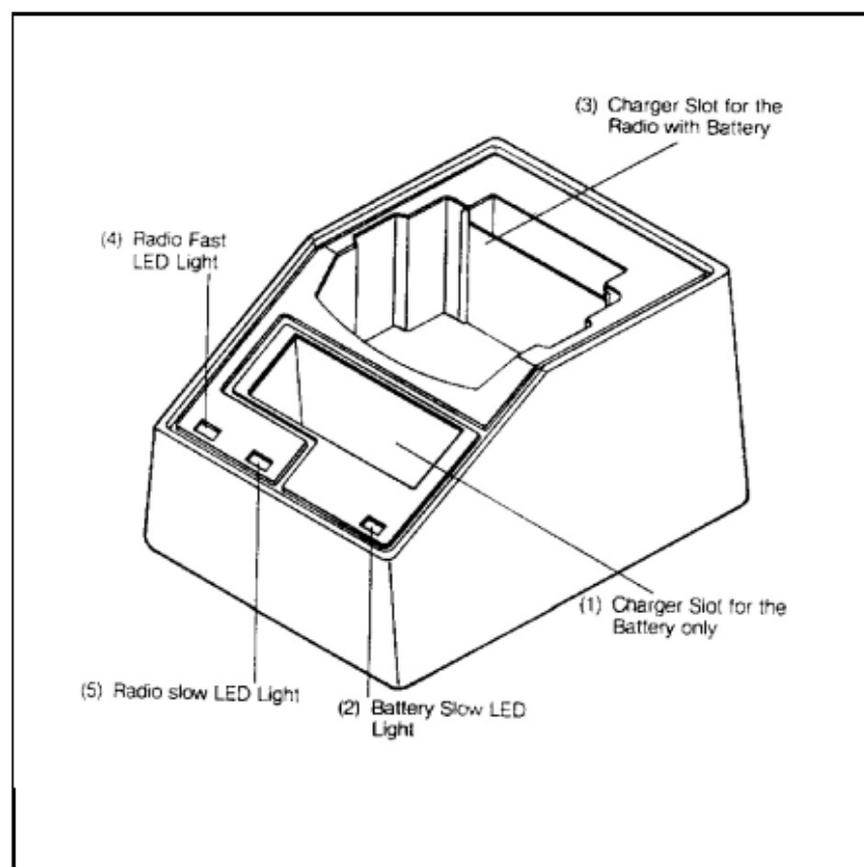
FIGURE 1 - GROUNDING METHODS

16. **DANGER** - Before using an adapter as illustrated, be certain the center screw of the outlet plate is grounded. The green-color rigid ear of lug extending from the adapter must be connected to a properly grounded outlet--make certain it is grounded. If necessary, replace the outlet cover plate screw with a longer screw that will secure adapter ear or lug to outlet plate and make ground connection to grounded outlet.

IMPORTANT SAFETY INFORMATION (CONT.)

17. Care should be taken when placing the charger in service to ensure proper top and bottom ventilation. A minimum of $\frac{1}{4}$ " is required between the bottom of the charger and the surface on which it sits.

FEATURES



- (1) **Battery Charging Slot:** This slot is provided so that a battery may be charged independently. Dual positive contacts are wired so that positioning of the battery is not relevant.
- (2) **Slow LED Light:** will be illuminated as long as a battery is positioned in the Battery Charging Slot.
- (3) **Radio Charging Slot:** For insertion of a *Monogram Series* Model MGP 300 low band radio unit without a carrying case but with a battery inside.
- (4) **Fast Radio LED Light:** will be illuminated when a radio with battery is inserted into the Radio Charging Slot. Remains "ON" for the initial 3-hour charging period and extinguishes automatically at the end of that period.
- (5) **Slow Radio LED Light:** Remains illuminated for the second 3-hour slow charging period, extinguishing itself automatically at the end of six hours. This LED remains dark; however, the charging process continues indefinitely at a 10 mA rate.

CAUTION

Never insert a radio into the charger without a battery. The higher voltage of the charger can damage the circuitry of the radio.

OPERATION

RADIO WITH BATTERY

With a battery inside the radio, insert the radio into the Radio Charge Slot. The Radio Fast LED will illuminate and the battery will commence charging at a rapid rate for approximately 3 hours. At the end of the 3-hour period, the battery will have reached approximately 85% of full charge and the charger will automatically switch to the slow rate. At this point, the Radio Fast LED will go out and the Radio Slow LED will glow. After a 3-hour period at the slow charge rate, the charger will automatically switch to a trickle rate and the Radio Slow LED will go out. The trickle rate will maintain the battery at full charge, provided the radio is turned off.

BATTERY ONLY

Insert a 600 mAh battery (MHPA5P) into the Battery Charge Slot, battery contacts

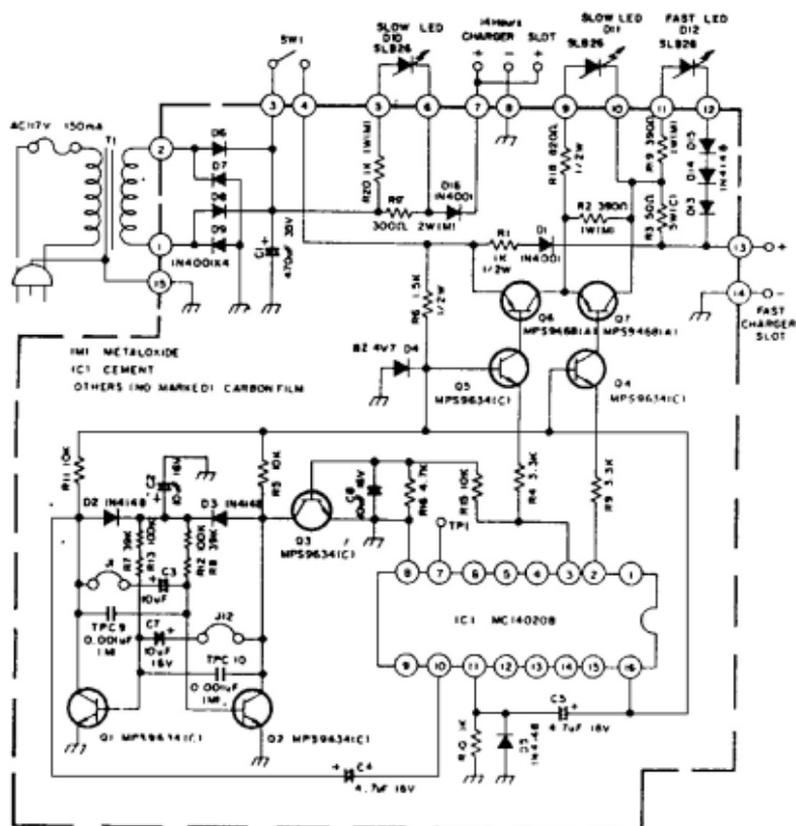
downward. Dual positive contacts are provided so that battery polarity will be correct regardless of battery orientation.

After approximately 14 hours the battery will be fully charged. The Battery Slow LED will remain illuminated as long as the battery remains in the charger slot. Prolong charging in this mode will not cause battery damage. The battery in a radio and a battery in the Battery Charge Slot can be charged simultaneously without degradation of charger performance.

CIRCUIT DIAGRAM

CAUTION

These servicing instructions are for use by qualified personnel only. To avoid electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.





Ericsson GE Mobile Communications Inc.
Mountain View Road • Lynchburg, Virginia 24502

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