

# Single-Unit Charger



## Accessories



Professional Radio



# IMPORTANT SAFETY INSTRUCTIONS

**This document contains important safety and operating instructions. Please read these instructions carefully and save them for future reference.**

Before using the battery charger, read all the instructions and cautionary markings on (1) the charger, (2) the battery, and (3) on the radio using the battery.



## **WARNING**

1. To reduce risk of injury, charge only the rechargeable Motorola authorized batteries listed in Table 1. Other batteries may explode, causing personal injury and damage.
2. Use of accessories not recommended by Motorola may result in risk of fire, electric shock, or injury.
3. To reduce risk of damage to the electric plug and cord, pull by the plug rather than the cord when disconnecting the charger.
4. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in risk of fire and electric shock. If an extension cord must be used, make sure that the cord size is 18AWG for lengths up to 100 feet (30.48 m), and 16AWG for lengths up to 150 feet (45.72 m).
5. To reduce risk of fire, electric shock, or injury, do not operate the charger if it has been broken or damaged in any way. Take it to a qualified Motorola service representative.
6. Do not disassemble the charger; it is not repairable and replacement parts are not available. Disassembly of the charger may result in risk of electrical shock or fire.
7. To reduce risk of electric shock, unplug the charger from the ac outlet before attempting any maintenance or cleaning.

## OPERATIONAL SAFETY GUIDELINES

- Turn radio off when charging battery.
- This equipment is not suitable for outdoor use. Use only in dry locations/conditions.
- Connect equipment only to an appropriately fused and wired supply of the correct voltage (as specified on the product).
- Disconnect from line voltage by removing mains plug.
- The socket outlet to which this equipment is connected should be close by and easily accessible.
- In equipment using fuses, replacements must comply with the type and rating specified in the equipment instructions.
- Maximum ambient temperature around the power supply equipment must not exceed 40°C (104°F).
- Output power from the power supply unit must not exceed the ratings stated on the product label located on the bottom of the charger.
- Make sure the cord is located where it will not be stepped on, tripped over, or subjected to water, damage, or stress.

## MOTOROLA AUTHORIZED BATTERIES

The batteries listed in Table 1 are approved for use with the chargers listed in Table 2.

*Table 1 Motorola Authorized Batteries*

<b>Kit (part) Number</b>	<b>Battery Chemistry/Description</b>
HNN9008	NiMH/High-Capacity
HNN9009	NiMH/Ultra-High-Capacity
HNN9010	NiMH/Ultra-High-Capacity, Factory Mutual
HNN9011	NiCd/High-Capacity, Factory Mutual
HNN9012	NiCd/High-Capacity
HNN9013	Lithium Ion
JMNN4023	AA Lithium Ion

*Table 1 Motorola Authorized Batteries*

<b>Kit (part Number)</b>	<b>Battery Chemistry/Description</b>
JMNN4024	AFAT Lithium Ion
JMNN4025	NiMH Factory Mutual Intrinsically Safe
NNTN5510	GP Series ATEX Li-Ion 1480mAh
PMNN4073	Lithium Ion, Factory Mutual, IP67
PMNN4074	Lithium Ion, Non-Factory Mutual, IP67

## **POWER SOURCES AND MOTOROLA AUTHORIZED TRANSFORMERS**

These Class 2 battery chargers should be used with the direct plug-in, Motorola authorized transformers listed below:

*Table 2 Power Sources/Power Supplies*

<b>Charger Kit Number</b>	<b>Charger Base</b>	<b>Power Source</b>	<b>Power Supply Part Number</b>
PMTN4024	HTN9000	120Vac (U.S. Plug)	2504548T05 2571586S13
PMTN4025	HTN9000	230Vac (EURO Plug)	2504548T07 2571586S07
PMTN4026	HTN9000	230Vac (UK Plug)	2504548T06 2571586S06
HTN2006	HTN9000	230Vac (Aust. Plug)	2504548T08 2571586S08
PMLN5195	HTN9000	90-264Vac (UK Plug)	2571886T01
PMLN5196	HTN9000	90-264Vac (EURO Plug)	2571886T01
PMLN5197	HTN9000	90-264Vac (U.S. Plug)	2571886T01
PMLN5205	HTN9000	90-264Vac (Aus/Nz Plug)	2571886T01

## OPERATING INSTRUCTIONS

**Single-unit chargers will charge only the Motorola authorized batteries listed in Table 1. Other batteries may not charge.**

The battery charger's pocket will accommodate either a radio with a battery attached or a battery alone. **Prior to charging a battery with radio, turn the radio off.** To charge a battery, use the following procedure: (Refer to Figure 1, page 5)

1. Plug the round end of the transformer cord into the socket on the back of the charger.
2. Plug the transformer into the appropriate ac outlet. The charger LED will blink green once to indicate a successful power-up.
3. Insert a battery, or a radio with battery (radio turned off), into the charger's pocket by:
  - a. aligning the groove on each side of the battery with the corresponding raised rail on each side of the charger pocket
  - b. pressing the battery toward the rear of the pocket
  - c. sliding the battery into the charger pocket, ensuring complete contact between the charger and battery contacts
2. When the battery is properly seated in the pocket, the charger LED will light red to indicate that the battery is charging rapidly. When the battery is 90% charged, the LED will begin to blink green to indicate that the battery is trickle charging. When the battery is fully charged, the LED will change to a steady green light to indicate that the battery is fully charged.

**Note:** Even though new batteries might prematurely indicate a full charge (steady green LED), charge the battery for 14 to 16 hours prior to initial use for best performance.

Batteries will charge best at room temperature.

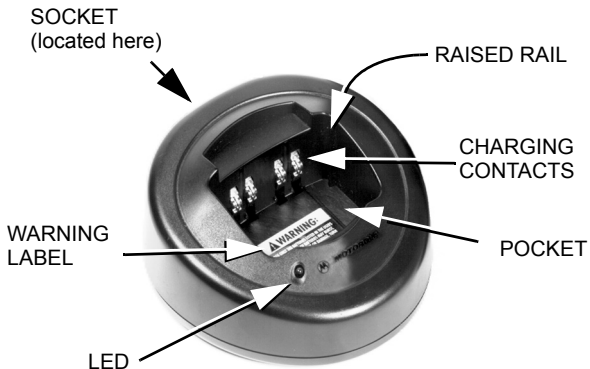


Figure 1 Battery Charger

## TROUBLESHOOTING

When troubleshooting, always observe the color of the LED:

Table 3 LED Indications of Battery/Charger Status

LED Color	Battery/Charger Status
No LED indication	Battery is inserted incorrectly.
Single green blink	Successful charger power-up
Blinking red	Battery is unchargeable or not making proper contact.
Steady red	Battery is in rapid-charge mode.
Blinking yellow	Battery is in charger, not in rapid-charge mode but waiting to be charged.
Blinking green	Battery is charged (to 90% or greater capacity).
Steady green	Battery is fully charged.

### **No LED Indication?**

1. Check that the radio with battery, or the battery alone, is inserted correctly (refer to step 3 on page 4).
2. Make sure that the transformer is plugged into an appropriate ac outlet, and that the transformer cable is plugged securely into the charger socket.

### **Blinking Red LED Indicator?**

1. Remove the battery from the charger, and:
  - a. make sure that it is a Motorola authorized battery listed in Table 1. Other batteries may not charge.
  - b. remove power from the battery charger and, using a clean dry cloth, clean the gold metal, charging contacts of the battery and charger.
2. Power up the charger and place the battery back into the charger pocket. If the LED indicator continues to blink red, replace the battery.

### **Blinking Yellow LED Indicator?**

1. The battery temperature may be below 5°C (41°F) or above 40°C (104°F).
2. The voltage may be lower than the predetermined threshold level for rapid charging.

**Note:** Rapid charging outside of the stated temperature and voltage limits can drastically reduce the life expectancy of the battery.

**Note:** When the battery charger detects the proper battery conditions, rapid charging begins automatically (steady red LED).

### **SERVICE**


The Single-Unit Chargers are not repairable. Order replacement chargers as necessary.







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