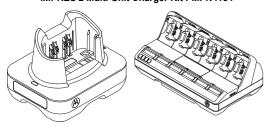


Chargers Instruction Leaflet

California Energy Commission (CEC) Compliant IMPRES™ 2 Single-Unit Charger Kit PMPN4175 and IMPRES 2 Multi-Unit Charger Kit PMPN4134



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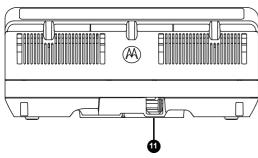


Table 3: Motorola Solutions Communications Module for SUC

Part Number	Description
NNTN8870	IMPRES 2 USB Reprogramming and Fleet Management Module

Table 4: Motorola Solutions-Authorized Chargers and Batteries

Adapter Kit Number	Kit Number	Description
	NNTN4435	NIMH Battery, 1800 mAH, (IMPRES)
	NNTN4436	NIMH Battery, 1800 mAH, FM
	NNTN4437	NIMH Battery, 1800 mAH, FM
	NNTN6034	Li-Ion Battery, 4500 mAH, (IMPRES)
	NNTN6263	NIMH Battery, 2000 mAH, FM, (IMPRES)
Multi-Unit	NNTN7335	Li-Ion Battery 2800 mAH, (IMPRES)
Charger PMPN4134 and Single-Unit	NNTN7453	Li-Ion Battery, 4500 mAH, FM, (IMPRES)
	NNTN7554	Li-Ion Battery, 2100 mAH, (IMPRES)
Charger	NTN9857	NIMH Battery, 2000 mAH, FM, (IMPRES)
PMPN4175	NTN9858	NIMH Battery, 2410 mAH, (IMPRES)
	NTN9862	Li-Ion Battery, 2850 mAH, (IMPRES)
	NTN9862	Li-Ion Battery, 2850 mAH, (IMPRES)
	PMNN4093	NIMH Battery, 3200 mAH, (IMPRES)
	PMNN4449	Li-Ion Battery, 4200 mAH
	PMNN4454	Li-Ion Battery, 2750 mAH



- 1-6. Pocket 1 to Pocket 6.
- 7. Communications Module/Accessory Charging
- 8. Menu Selection Keypad.
- 9. Charger Display
- 10. LED Status Indicator.
- 11. AC Inlet Socket connect to power cord listed in Table 2.

Operating Instructions

- Batteries charge best at room temperature.
- Batteries may be attached to a radio or stand-alone.

 Bright and MARRED Co. MARRED
- Prior to charging a radio with an IMPRES or IMPRES 2 battery, turn the radio off.

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) the radio using the battery.



 To reduce risk of damage to the power supply electric plugs and cords, pull the plug rather than the cord when disconnecting from the AC outlet or the charger.
 An extension cord should not be used unless absolutely

in risk of fire and electric shock. If an extension cord must be used, make sure that the cord size is 18 AWG for lengths of un to 6.5 feet

- make sure that the cord size is 18 AWG for lengths of up to 6.5 feet (2.0 m), and 16 AWG for lengths up to 9.8 feet (3.0 m).

 3. To reduce risk of fire, electric shock, or injury, do not operate the
- charger if it has been broken or damaged in any way.

 4. Do not disassemble the charger. It is not repairable and replacement parts are not available. Disassembly of the charger may result in risk of electric shock or fire.
- To reduce risk of electric shock, unplug the charger power supply from the AC outlet before attempting any cleaning.
 To reduce risk of injury, charge only the rechargeable Motorola
- To reduce risk of injury, charge only the rechargeable motoroial Solutions-authorized batteries listed in Table 4. Other batteries may explode, causing personal injury and damage.
- Use of accessories not recommended by Motorola Solutions may result in risk of fire, electric shock, or injury.

Operational Safety Guidelines

- This equipment is not suitable for outdoor use. Use only in dry locations and conditions.
- Maximum ambient temperature around the charger must not exceed 40 °C (104 °F).
- Turn the radio off when charging the battery.

- Connect the single-unit charger only to an appropriate power supply listed in Table 1.
- Connect the multi-unit charger only to an appropriate power cord listed in Table 2.

 The ACC sulfet to which the power cord is connected must be close and.

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 The ACC sulfet to which the power cord is connected must be close and.
 - The AC outlet to which the power cord is connected must be close and easily accessible.
 - Make sure the power supply or power cord to the charger is located where it will not be stepped on, tripped over, or subjected to water, damage or stress.
 - damage, or stress.

 Connect the power supply or power cord only to an appropriately fused and wired AC outlet with the correct voltage, as specified on the
- Disconnect from line voltage by removing the power supply or power
- cord from the AC outlet.

 The equipment shall be connected to a nearby and easily accessible
- The equipment shall be connected to a nearby and easily accessible socket outlet.

IMPRES 2 Single-Unit Charger and IMPRES 2 Multi-Unit Charger can charge the batteries listed in Table 4. The batteries may be attached to a radio or may be stand-alone.

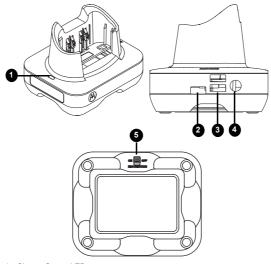
Table 1: Motorola Solutions-Authorized Power Supply for SUC

Part Number	Description
PS000040A01	36 W, 120 VAC, Low Noise, Level 6

Table 2: Motorola Solutions-Authorized Power Cord for MUC

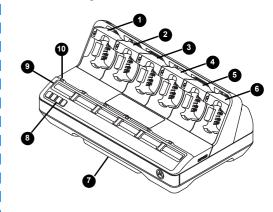
Part Number	Description
3087791G01	Power Cord, US/NA

Single-Unit Charger Overview

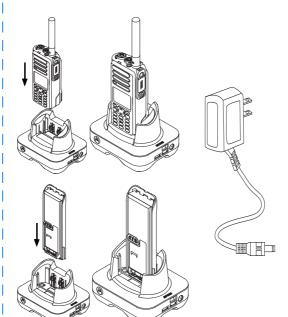


- 1. Charge Status LED.
- Programming/Fleet Management Port connect to Communication
 Module in Table 3.
- USB charging ports.
- DC Input Socket connect to power supply in Table 1.
- 5. Calibration/Reconditioning Switch.

Multi-Unit Charger Overview



Charging with a Single-Unit Charger



- Place the IMPRES 2 Single-Unit Charger on a flat surface.
- Firmly insert the power supply barrel connector into the charger DC Input Socket on the back of the charger.
- 3. Plug the AC adapter into a matching power outlet.
- Upon successful power-up, the pocket LED shows Green for one second. If the LED does not light up, check the power supply cord connections.
- Insert the radio with battery or stand-alone battery into the pocket.
- When the radio or stand-alone battery is properly seated in the pocket, charging status will be indicated by the LED.
- charging status will be indicated by the LED.

 7. The radio or stand-alone battery is ready for use when the LED is Steady Green.

Table 5: LED Indications for IMPRES or IMPRES 2 Batteries

Table 5: LED Indications for IMPRES of IMPRES 2 Batteries		
Status	LED Indication	
Charger Powering Up	Green for approximately1 second.	
Battery Detected (Battery requires Calibration but Calibration is disabled in charger)	Alternating Amber and Green for 4 seconds.	
Battery Discharging	Steady Amber	
Rapid Charging	Steady Red	
Charged to 90% or more		
Charged to 95% or more (Battery does not require Calibration)	Steady Green	
Charged to 95% or more (Battery requires Calibration but Calibration is disabled in charge)	Green for 4 seconds then, ● Steady Green.	

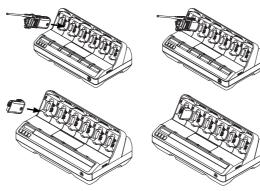
Table 5: LED Indications for IMPRES or IMPRES 2 Batteries

Status	LED Indication
Charged (Battery may be nearing End of Service but still usable)	
Fault	
Standby Battery is waiting to rapid charge. Battery may be too hot, too cold, or low voltage.	Blinking Amber

Table 6: LED Indications for Other Motorola Solutions Batteries

Status	LED Indicator	
Charger Powering Up	Green for approximately1 second.	
Battery Detected	Steady Red	
Rapid Charging	Steady Red	
Charged to 90% or more		
Charged to 95% or more	Steady Green	
Fault		
Standby Battery is waiting to rapid charge. Battery may be too hot, too cold or low voltage.		

Charging with a Multi-Unit Charger



- Place the IMPRES 2 Multi-Unit Charger on a flat surface.
- Firmly insert the power cord into the charger AC Inlet Socket at the
- back of the charger.
 Plug the power cord into a matching power outlet.
- Upon successful power-up, each pocket LED shows **Green** for one second and IMPRES 2 CHARGER is displayed. If the LEDs do not light
- up and no message is displayed, check the power cord connections.

 5. Insert the radio with battery or stand-alone battery into an available
- pocket.

 6. When the radio or stand-alone battery is properly seated in the pocket, charging status will be indicated by the associated pocket LED. The associated Display provides additional information. For single-display chargers, the display provides charging status of only Pocket 1.

7. The radio or stand-alone battery is ready for use when the LED is Steady Green.

Additional Features and Information

The complete online user guide is available through publication part number MN003204A01 at https://businessonline.motorolasolutions.com. This guide provides information on the features of the IMPRES 2 Single-Unit Charger and IMPRES 2 Multi-Unit Charger, including:

IMPRES 2 Single-Unit Charger

- Automatic reconditioning. Troubleshooting.
- IMPRES Charging Features and Benefit description.
 IMPRES 2 Multi-Unit Charger
 IMPRES 2 Charging Features.

- Details regarding charging status and LED indications for various batteries.
- Charger Reprogramming.

 IMPRES Battery Fleet Management.
- USB Accessory Charging.
- Charger Setup Options
- Preparing Lithium-ion Batteries for Shipment.
- Long-Term Battery Storage.
 Enabling or Disabling Calibration or Reconditioning.
- IMPRES Battery End-of-Service Life Indication Selection.

Notes

- Display Format Selection. Power Saver Selection.
- Battery Analyzer Mode.

Table 7: Messages and LED Indications for IMPRES or IMPRES 2 Batteries

Status	Charger Display	LED Indication
Charger Powering Up	IMPRES 2 CHARGER	Green for approximately 1 second.
Battery Detected	IMPRES 2 BATTERY or IMPRES BATTERY	Battery does not require Calibration: Steady Red Battery requires Calibration but Calibration is disabled in charger: Alternating Amber and Green for 4 seconds.
Requesting IMPRES Battery Calibration is disabled in charger) Press OK to enable Calibration Ignore for normal charging (message disappears after one minute)	ENABLE BATTERY CALIBRATION?	Steady Red
Battery Discharging	CAL DISCHARGE xxxx0mAh yyy%	Steady Amber
Rapid Charging	RAPID CHARGE xxxx0mAh yyy%	Steady Red
Charged to 90% or more	TRICKLE CHARGE xxxx0mAh yyy%	₩ Blinking Green
Charged to 95% or more	CHARGE COMPLETE xxxx0mAh yyy%	Battery does not require Calibration: Steady Green Battery requires Calibration but Calibration is disabled in charger: Alternating Amber and Green for 4 seconds then, Steady Green. Battery may be nearing End of Service (battery is usable): Alternating Red and Green
Fault	NOT CHARGEABLE REMOVE& REINSERT	Blinking Red
Standby (Battery is waiting to rapid charge)	HOT BATTERY WAITING TO CHRGE OF COLD BATTERY WAITING TO CHRGE OF VERY LOW BATTERY WAITING TO CHRGE	→ Blinking Amber

Table 8: Messages and LED Indications for Other Motorola Solutions Batteries

Status	Charger Display	LED Indication
Charger Powering Up	IMPRES 2 CHARGER	Green for approximately 1 second.
Battery Detected	MOTOROLA BATTERY	Steady Red
Rapid Charging	RAPID CHARGE xxxx0mAh yyy%	Steady Red
Charged to 90% or more	TRICKLE CHARGE xxxx0mAh yyy%	Blinking Green
Charged to 95% or more	CHARGE COMPLETE xxxx0mAh yyy%	Steady Green
Fault	NOT CHARGEABLE REMOVE& REINSERT	→ Blinking Red
Standby (Battery is waiting to rapid charge)	HOT BATTERY WAITING TO CHRGE OF COLD BATTERY WAITING TO CHRGE OF VERY LOW BATTERY WAITING TO CHRGE	Blinking Amber

Notes