Battery Booster Pack

Instruction Manual
for P/N 030-0004

DO NOT EXPOSE TO WATER, FIRE, OR SMOKE
RECHARGE UNIT WHEN FIRST USED, AFTER EACH
USE & EVERY 3 MONTHS!

P/N 392-0372-R0

Important: Please ensure that you read and save this instruction manual before using this product. Incorrect operation or misuse of this Battery Booster Pack may damage the equipment or create hazardous conditions for the user. SAVE THESE SAFETY INSTRUCTIONS FOR FUTURE USE.

Conventions Used

The following conventions are used in this manual:

⚠ **WARNING**

Warnings identify conditions that could result in personal injury or loss of life.

⚠ **CAUTION**

Cautions identify conditions or practices that could result in damage to the unit or to other equipment.

NOTE

Describes an important action item or an item that requires attention.

Abbreviations and Acronyms

A	Ampere
AC	Alternating Current
Ah	Amp-hours
DC	Direct Current
mA	Milli-Ampere
V	Volt
LED	Light emitting diode

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1. Introduction

Easy to use and designed for reliable service, the Battery Booster Pack can:

- Jump start cars, light trucks, motorcycles, ATVs, lawn tractors and more
- Power 12 V DC accessories and USB accessories

2. Important Safety Instructions

The Battery Booster Pack generates a high current to the battery being boosted. Operating the Battery Booster Pack incorrectly or misusing it may damage the equipment or create hazardous conditions for the user.

NOTE: Ensure that you read and understand these safety instructions before using the Battery Booster Pack.

⚠ **CAUTION:**
The unit is not intended for use as a UPS (Uninterrupted Power Supply).

⚠ **WARNING:**
Before starting the vehicle, ensure that the clamps are connected in the right way and the green indicator light is on.

⚠ **WARNING:**
The Battery Booster Pack contains components that tend to produce arcs or sparks. To prevent the risk of fire or an explosion, do not operate the Battery Booster Pack in compartments containing batteries or flammable materials, or in locations that require ignition-protected equipment.

⚠ **WARNING: Fire Hazard**
Never allow the red and black clamps to touch each other or another common metal conductor. This could cause damage to the unit and/or create a sparking/explosion hazard.

⚠ **WARNING:**
The cable clamps connecting the boosting cables to the vehicle's battery terminals must be positive to positive (red clamp to battery "+") and negative to the engine block, cylinder head, or other stationary heavy metal part of the motor. A reverse polarity connection (positive to negative) may cause damage to the unit and/or create a sparking/explosion hazard.

⚠ WARNING: Fire hazard

The jump start feature is designed for short term operation only—less than 2-3 seconds. Operating the jump start feature for more than 3 seconds may cause damage to the unit. Allow the Battery Booster Pack to cool down for at least 3 minutes after each jump start .

⚠ WARNING:

Do not charge the unit through the 12VDC socket!

⚠ WARNING:

Ensure that there are no 12VDC appliances connected to the Battery Booster Pack while the unit is being recharged.

3. Features

(1) Battery status button – When pressed, LED indicator displays level of charge left in the battery and determines if the unit needs to be charged. See item (2) for details.

(2) Battery level LED indicator – Identifies the level of charge remaining in the internal battery. When the 3rd (green) LEDs light up, the unit is over 75% charged. When the 2nd (yellow) LEDs light up, the unit is about 50% charged and should be recharged. When the 1st (red) LED lights up, the unit is only 25% charged and needs recharging immediately.

(3) Emergency LED light.

(4) Correct Connection Indicator – Green LED indicates when the battery clamps are properly connected (vehicle battery voltage over 2.5V).

(5) Reverse/Incorrect Connection Indicator – Red LED indicates when the battery clamps are reversed or improperly connected to the battery (vehicle battery voltage over 2.5V).

(6) AC charging jack – Use the included external AC charger to recharge the unit through this charging jack. Only use the suppliled AC charger to charge this unit.

(7) Charging indicator: Red LED indicates when the unit is being recharged, when it turns to green, the unit is fully charged.

(8) 12V DC power port – Easy-access port for powering a variety of 12V accessories.

(9) LED light switch – Slide it to turn on or turn off the emergency light.

(10) USB switch – Slide the switch to turn USB power on or off.

(11) USB port – It provides 5V USB power for electronic devices.

(12) USB on indicator – When USB power is on, this green LED indicator will illuminate.

(13) Boosting cables – These cables connect clamps and Booster Pack.

(14) On/Off Switch – When jump starting a vehicle, ensure this switch is in the “off” position before connecting the unit to the vehicle battery. Once properly connected, the unit should be switched to the “on” position.

(15) 15A Fuse – 15A over current protection for 12V DC outlet.

⚠ WARNING:

Before starting the vehicle, ensure that the clamps are connected in the right order and the green indicator light is on (vehicle battery voltage over 2.5V).

⚠ CAUTION:

The unit is not intended for use as an UPS (Uninterrupted Power Supply).

4. Operating Instruction

The unit should be operated only in locations that meet the following requirements:

(1) Dry — Do not allow water or other liquids to drop on or splash the unit.

(2) Cool — Ambient air temperature should be between 0 and 40°C (32 and 104 °F)– the cooler the better within this range.

(3) Ventilated — Leave at least 2" (5 cm) clearance around the Battery Booster Pack for air flow. Ensure that the ventilation openings are not obstructed.

(4) Safe — Do not operate the unit in enclosed areas where batteries may be stored or in any compartment capable of storing flammable liquids like gasoline.

(5) Protected — Do not operate the unit where it will be exposed to battery gases. These gases are very corrosive and prolonged exposure will damage the Battery Booster Pack.

NOTE:
Closely follow these instructions for jump starting a vehicle as they may be different from the instructions supplied with other boosting products or boosting cables.

Jump starting procedures

(1). Turn off the vehicle and all accessories.
(2). Place the Battery Booster Pack on a flat and stable surface near the battery which needs to be started. Ensure that the Booster Pack power switch is "OFF".
(3). Connect the red positive (+) clamp of the cables to the positive (+) terminal of the engine battery.
(4). Connect the black negative (-) clamp of the cables to the engine block, cylinder head, or other stationary heavy metal part of the stalled vehicle. If the red "Battery Clips Incorrect" LED illuminates, then reverse polarity has been detected. Correct polarity must be established before proceeding. Disconnect the boosting clamps from the vehicle's battery and repeat steps (3) and (4).
Note: if vehicle battery voltage is less than 2.5V, LED will not turn on, but you still can jumpstart.
(5). Turn the power switch on. Before starting the engine, make sure the Booster Pack and the cables are clear of metal parts and other moving objects.
(6). Start the engine for 3 seconds or until it starts, whichever is first.

⚠ **WARNING: Fire hazard**
Do not try starting the engine for more than 3 seconds. The boosting feature is designed for short term operation only. Operating the boosting feature for more than 3 seconds may cause damage to the unit. Allow the Battery Booster Pack to cool down for at least 3 minutes after each boost.
(7). Turn the power switch off.
(8). Disconnect both clamps in reverse order and place them back in the holders.

5. Recharging

NOTE:
Recharge the Battery Booster Pack as soon as possible after each use.
When the Battery Booster Pack is not being used, it should be recharged every 3 months!

⚠ **WARNING:**
Must not be recharged through the 12V DC socket.

⚠ **WARNING:**
Make sure that there is no 12V DC appliance connected to the Battery Booster Pack during charging.

Recharging using an AC charger

(1) Turn the rotary switch to the off position.
(2) Plug the 120V AC charger into the charger input socket on the Booster Pack.
(3) Plug the 120V AC charger into the 120 V AC electrical socket.
(4) Do not stop until the battery is fully charged. This should take about 40 hours.

NOTE:
Charging time for the Battery Booster Pack is 40 hours assuming that the voltage in the AC wall outlet is 120V. If the voltage is less than 120V AC, it may take longer than 40 hours to fully charge.
NOTE:
Once fully charged, the charging current automatically drops to a floating charge mode, and the unit may be left permanently connected to the AC charger.

6. 12V DC outlet

For optional 12V power accessories using a cigarette plug. Use the portable power outlet for power supply for fishing and camping trips, extended running of mobile phones, camcorders, computers, etc. Combining the unit with an inverter provides 120V AC power.

NOTE:
12V cigarette plug is not supplied with this unit.
It is recommended that you do NOT power accessories that draw more than 8 Amps.
Ensure the cigarette adapter you are using is properly rated.

7. Maintenance and Care

Routine maintenance is required to keep your Motomaster Booster Pack operating properly. Occasionally clean the exterior of the unit to remove dust and dirt.

SHOCK HAZARD.
Disconnect all sources of AC power and DC power before performing any type of maintenance.

Battery Maintenance
You need to recharge the battery periodically to maintain maximum battery capacity and to avoid gradually discharge when left standing.

INTERNAL BATTERY DAMAGE.
Due to inherent self-discharge, lead-acid batteries must be charged at least every 3 months, especially in a warm environment. Leaving a battery in a discharged state, or failing to recharge every 3 months, may result in permanent battery damage and poor performance.

INTERNAL BATTERY DAMAGE.
Gradually warm the frozen battery to 0°C (32°F) before recharging to avoid battery damage.

Battery Recycling

The jumpstarter is designed to provide years of service. However, the internal battery is not designed to be user replaceable.

Because the internal batteries contain lead, which can be hazardous if exposed to the environment, the battery should be recycled or safely disposed of at your local recycling depot. Do not dispose of the battery and the jumpstarter with common household waste. Please ask your local authorities about recycling services that are available in your area.

8. Troubleshooting

Problem	Cause	Solution
The engine being jumpstarted will not start.	Mechanical Problem	Auto Shop
	Bad Connection	Reconnect and rock back and forth
	The Battery Booster Pack battery is not fully charged.	Charge it for at 40 hours.
	Battery Booster Pack battery has been damaged.	Replace the unit.
Battery Booster Pack does not recharge.	Accessories are connected to the 12V DC socket.	Disconnect the accessories.
	120V AC charger may be damaged.	Replace 120V AC charger
	Not charged after previous use.	The battery may be damaged as it may not have been recharged after previous use.
The appliance plugged into the outlet does not work.	Battery has discharged to 10V.	Recharge the Booster Pack.
	Fuse might be blown.	Replace fuse.
	The appliance power is over standard.	Use an appliance where the power is lower than 15A.

9. Specifications

Internal battery (Capacity/Type)	18Ah (AGM) sealed lead-acid battery
Jump start cables (Size/Length)	6G*30”
Adapter	15V DC@800 mA
Cigarette lighter plug maximum current	15A
Dimensions L x W x H	11½ x 7½ x 9½
Operating temperature range	0°C − 40°C(32 − 104 °F)

10. Warranty

The Battery Booster Pack comes with a twelve (12) month limited warranty against defects or failure within one (1) year from purchase.

THIS LIMITED WARRANTY IS VOID under the following conditions:

1) The product is misused, subjected to careless handling, or operated under conditions of extreme temperature, shock, or vibration beyond our recommendations for safe and effective use.

2) The product is disassembled or repaired by anyone who is not a factory authorized service representative.

3) The product was purchased from an unauthorized source. Warranty is not transferable from original purchaser.

4) Any physical damage to the Battery Booster Pack or any accessories occurring after purchase.

5) Any modifications to the Battery Booster Pack or accessories.

6) Any corrosion including salt water.

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