1200Amp VEHICLE JUMP STARTER
&
PORTABLE POWER STATION
P/N 030-0006 Instruction Manual

DO NOT EXPOSE TO WATER, FIRE, OR SMOKE

CHARGE UNIT BEFORE USE,

AFTER EACH USE AND EVERY 3 MONTHS!

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

! 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 requires attention.

Abbreviations and Acronyms

A	**Ampere**
AC	**Alternating current**
Ah	**Amp hours**
DC	**Direct current**
mA	**Milliamps**
V	**Volts**
LED	**Light emitting diode**
WH	**Watt Hours**

CONTENTS

1. Introduction

Easy to operate and designed for reliable service. The Jump starter can:

* Jump start cars, light trucks, motorcycles, ATV's, lawn tractors and more.

* Power 12V DC accessories.

* Power 12V AC accessories up to 100 watts

2. Important Safety Instructions

When properly charged, the Jump Starter internal battery generates a high current and will deliver it to the battery being boosted, when the jumper cable clamps are properly connected to that battery.
Operating the Jump Starter incorrectly, or misusing it, may not only damage the Jump Starter, but it may also create hazardous conditions for both the user and the equipment that it is connected to.

NOTE: Ensure that you read and understand these safety instructions before using this equipment.

! CAUTION

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

! WARNING

Before starting the vehicle ensure the battery clamps are connected in the correct polarity and the "correct connection indicator" LED is GREEN on the front of the unit.

! WARNING

The Jump Starter contains components that can produce sparks. To reduce the risk of fire or explosion, do not operate the Jump Starter in confined, poorly ventilated areas that contain flammable materials. This is especially true for locations that require ignition protected equipment.

WARNING

Never allow the red and black clamps to touch each other or another common metal conductor. This could cause damage to the Jump Starter and possibly create a spark or even explosion hazard.

WARNING

For a negative-grounded vehicle, first connect POSITIVE (RED) clamp to the POSITIVE (RED +) ungrounded battery post. Then connect NEGATIVE (BLACK) clamp to the vehicle chassis or engine block away from the battery. Do not connect clamp to the carburetor, fuel lines, or sheet metal body parts.

WARNING: Fire Hazard

The Jump Starter engine start function is designed for short term operation, typically 2 or 3 second bursts of very high electrical current. Continuing to operate the Jump Starter engine function for longer times may cause damage to the unit and its internal battery.
Allow the Jump Starter battery to cool down for at least 3 minutes after using the engine start function.

WARNING

Do not charge the unit through 12VDC socket.

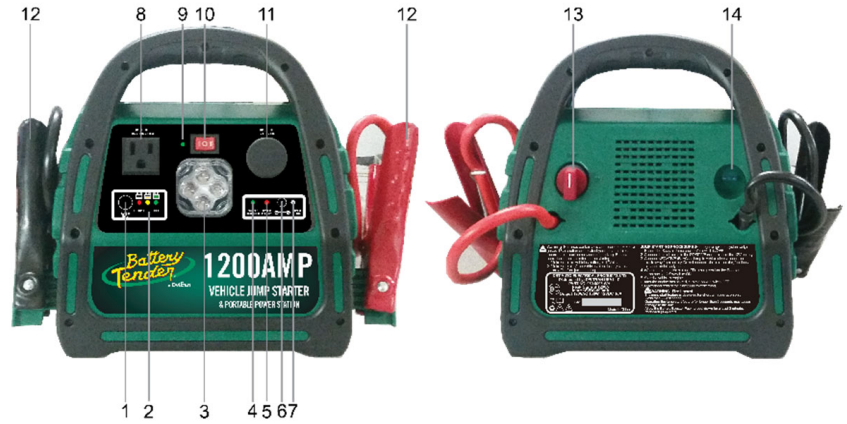
WARNING

Ensure that there are no 12VDC appliances connected to the Jump Starter while the unit is being charged.

WARNING

The 110VAC outlet has a maximum output of 100 watts. There is a built-in safety feature that will turn off the outlet if the power exceeds 100 watts.
The outlet will also not turn on if the current draw exceeds 100 watts.

3. Features



1) **Battery status button** – When you press the hold the Battery Status Button, the LED indicator will display the charge remaining in the internal battery. From those indications the user may determine whether or not the internal battery needs to be charged. See item 2) for details.

2) **Internal Battery Status** LED indicator – Identifies the level of charge remaining in the internal battery. When the 3rd (green) LED lights up, the unit is over 75% charged. When the 2nd (yellow) LED lights 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 to be recharged immediately.

   Note: On the actual unit, when the internal battery is nearly fully charged, the yellow and green LED's may be lit simultaneously. Then when you release the Battery Status Button, both the yellow and green LED's will turn off and the red LED may flash one time.

3) **Emergency** LED light.

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

5) **Reverse Polarity** Indicator – The Red LED indicates when the battery clamps are reversed or improperly connected to the battery along with a continuous audible beep (vehicle battery voltage must be over 2.5V).

6) **AC charging jack** – Use the included AC charger to recharge the internal battery through this charging jack. Only use the supplied AC charger to charge the Jump Starter.

7) **Charging Status indicator** – Red LED indicates when the Jump Starter is being recharged. When the LED turns Green the Jump Starter is fully charged.

8) **120VAC/60Hz/100Watt Outlet** – Use this for powering a variety of 120V accessories.

9) **120VAC Power LED** – This indicates there is power to the 120VAC outlet. The LED remains on even in the event of an overload.

10) **Switch** – Press to turn on power to the 110VAC outlet or the Emergency LED light.

11) **12VDC Power Outlet** – It provides 12VDC for powering devices.

12) **Battery Cables** – These cables connect the clamps to the Jump Starter.

13) **ON/OFF Switch** – Located on the back of the unit. When jump starting a vehicle, ensure the switch is in the “OFF” position before connecting the Jump Starter to the vehicle battery. Once properly connected, turn the switch into the “ON” position. This is located on the back on the unit.

14) **15A Fuse** – 15A over current protection for the 12VDC output port. This is located on the back of the unit.

4. Operating Instructions

This unit should only be operated in locations that meet the following conditions:

1) **Dry conditions**: Do not allow water or other liquids to drop or splash on the Jump pack.

2) **Cool conditions**: Ambient air temperature should be between 0 and 40°C (32 and 104°F).

3) **Ventilation**: Leave at least 2” (5 cm) clearance around the Jump Starter for air flow. Ensure that the ventilation openings are not obstructed.

4) **Safe**: Do not operate the Jump Starter in enclosed areas where batteries may be stored or in a compartment capable of storing flammable liquids like gasoline.

5) **Protected**: Do not operate the Jump Starter where it will be exposed to battery gasses. These gasses are very corrosive and prolonged exposure could seriously damage the Jump Starter. Also, these gases can combine with air in sufficient quantities and relative percentages to create an explosion hazard.

Jump Starting procedures

1) Turn off the vehicle and all accessories.

2) Place the Jump Starter on a flat and stable surface near the battery that needs to be jump started. Ensure that the Jump Starter power switch is in the “OFF” position.

3) Connect the RED positive (+) clamp of the cables to the positive (+) terminal of the engine battery.

4) Connect the BLACK Negative (-) battery cable clamp to the vehicle chassis or engine block away from the engine battery. Do not connect the BLACK Negative (-) battery cable clamp to the carburetor, any fuel lines, or any sheet metal body parts. If the **Reverse Polarity** Red LED illuminates, then a reverse polarity connection has been detected. The correct polarity on the cable clamp and battery terminal connections must be established before proceeding. Disconnect both Jump Starter battery cable clamps from the battery and repeat steps (3) and (4). Note also, if the vehicle’s battery voltage is less than 2.5V, the correct clamp connection Green LED will not turn on. However, you can still jump start the vehicle as long as the Reverse Polarity Red LED is not on.

5) Turn the power switch on. Before attempting to start the engine, make sure that the Jump Starter and the battery clamp cables are clear of any metal parts and any moving parts in or around the engine compartment.

6) Start the engine for 3 seconds or until the engine starts, whichever comes first. Do not crank the engine for longer than 3 seconds. See the following warning.

! WARNING: Fire Hazard

The Jump Starter engine start function is designed for short term operation, 2–3 seconds, or less. Continuing to operate the engine start function for longer than 3 seconds may cause damage to the Jump Starter unit.

Allow the Jump Starter to cool down for at least 3 minutes after each continuous 3 second attempt to start the engine, whether or not that attempt is successful.

7) Turn the power switch to the “OFF” position.

8) Disconnect both of the battery cable clamps from the vehicle battery IN THE OPPOSITE ORDER THAT YOU CONNECTED THEM TO THE BATTERY AND TO THE VEHICLE CHASSIS. First disconnect the BLACK Negative (-) clamp and clamp it back on its holder on the Jump Starter case. Then disconnect the RED Positive (+) clamp and clamp it back on its holder on the Jump Starter case.

5. Recharging the Jump Starter internal battery

NOTE:

Recharge the Jump Starter internal battery as soon as possible after each use.
When the Jump Starter is not being used for extended periods of time, the internal battery should be recharged every 3 months.
The Jump Starter internal battery must not be recharged through the 12V DC socket.
Make sure that there are no 12V DC appliances connected to the Jump Starter while the internal battery is being recharged.

! WARNING

The Jump Starter must not be recharged through the 12V DC socket.

! WARNING

Make sure there are no 12V DC appliances connected to the Jump Starter during charging.

Recharging the internal battery with the AC charger with coax adapter

1) Ensure the Jump Starter ON/OFF switch is in the “OFF” position.
2) Plug the AC coax adapter into the charger input socket on the Jump Starter.
3) Plug the AC charger into AC electrical outlet.
4) Whenever possible, do not stop charging the internal battery until it is fully recharged. This could take 24 to 30 hours, or more, depending upon the state of charge and the general condition of the internal battery when you begin to recharge it.

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 (Power Port)

The 12V DC Power Port cylindrical connection is located on the front of the unit, on the top left just below the carrying handle. It is perfect for a wide variety of electric or electronic appliances that have a cigarette lighter type adapter and require 12V DC input power.

NOTE:

A 12V cigarette adapter is not supplied with this unit.

It is recommended that you do NOT power any accessories that draw more than 8 Amps. Ensure the cigarette adapter you are using is properly rated.

7. Maintenance and Care

Routine maintenance is recommended to keep the Jump Starter in good working condition.

CLEANING
Occasionally clean the exterior of the case to remove dust, dirt, and other sediment that may accumulate over time.

BATTERY MAINTENANCE

The Jump Starter internal battery should be recharged periodically. The manufacturer recommends at least once every 3 months when the Jump Starter is not being used for extended periods of time. This is especially true in warm environments. It is also a very good idea to recharge the internal battery soon after using it to restart an engine.

WARNING Potential Battery Damage when Left Uncharged

If the Jump Starter internal battery is allowed to sit idle for long periods of time without being recharged, the internal battery energy storage and delivery structures, like the plates in each cell, may be permanently damaged. That damage will dramatically reduce the performance of the battery.

WARNING Potential Internal Battery Damage when it is Frozen

If the Jump Starter internal battery ever freezes, do not attempt to recharge it. Wait until the battery is allowed to **warm up to at least 0 °C (32 °F), the freezing point of water.** Note that the freezing point of battery acid is much, much lower than the freezing point of water.

BATTERY RECYCLING

The Jump Starter is not designed to allow the internal battery to be replaced. When the Jump Starter no longer functions adequately, take it to a battery recycling center. Most retail stores that sell batteries will accept a unit for recycling. DO NOT DISPOSE of the Jump Starter with common household waste.

8. Trouble Shooting

PROBLEM	CAUSE	SOLUTION
The vehicle engine will not start or turn over	Mechanical issue	Consult with Auto Repair Technician
	Bad electrical connection on the battery clamps	Inspect and clean battery terminals. Reconnect battery cable clamps
	Jump Starter internal battery is not fully charged	Recharge Jump Starter internal battery
	Jump Starter internal battery is defective	Replace the Jump Starter
The Jump Starter internal battery will not recharge.	Accessories are connected to 12V DC Outlet (Power Port)	Disconnect accessories from the 12V DC Outlet (Power Port)
	The AC recharge adapter may be damaged	Replace the AC recharge adapter
	The internal battery is defective	Replace the Jump Starter.
The appliance plugged into the 12V DC outlet (Power Port) does not work	The Jump Starter internal battery is below 10V DC	Recharge the Jump Starter internal battery
	15A Fuse may be blown	Check the 15A fuse and replace if required
	The appliance power requirements exceed 15A	Use a different appliance with power draw less than 15A, preferably around 8A
	The appliance or its cigarette adapter is defective	Check the cigarette adapter fuse, and replace if necessary. Or replace the appliance

9. Specifications

1200Amp Internal battery (Capacity/Type)	20Ah (AGM) sealed lead acid
1200Amp Jump Start cable (Size/Length)	6AWG / 18"
AC Adapter	15V DC@800mA
12VDC Power Port maximum current	15A
12V DC Power Port Fuse	Bussman ATM-15, 32V 15A or equivalent fuse
110VAC 60Hz Plug	100 Watts Maximum output
Dimensions L x W x H	11½ x 7½ x 9½
Operating temperature gauge	0°C - 40°C (32°-104°F)

10. Warranty

The Battery Tender® Jump Starter comes with a twelve (12) month limited warranty against defects or failure within one (1) year of 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 an authorized service representative.
3) The product was purchased from an unauthorized source. Warranty is not transferable from the original purchaser.
4) Any physical damage to the Jump Starter or any accessory after purchase.
5) Any modifications to the Jump pack.
6) Any corrosion including salt water.

DISTRIBUTED BY:

DELTRAN USA LLC

801 International Speedway Blvd.

Deland, FL 32724

USA

batterytender.com