

Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

22a



12V LITHIUM JUMP STARTER

**FULLY CHARGE
IMMEDIATELY
AFTER
PURCHASE.**

Fully recharge every
3 months to ensure
long battery life.



⚠ WARNING

Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.

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SAFETY

SETUP

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WARNING SYMBOLS AND DEFINITIONS

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

V	Volts
~	Alternating Current
A	Amperes
Wh	Watt-hours
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved splash-resistant safety goggles.
	Read the manual before setup and/or use.
	WARNING marking concerning Risk of Fire. Follow connection procedure.

General Safety Warnings

⚠️ WARNING

Read all safety warnings and instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

WARNING! – RISK OF EXPLOSIVE GASES.

Working in vicinity of a lead-acid battery is dangerous. Batteries generate explosive gases during normal battery operation. For this reason, it is of utmost importance that you follow the instructions each time you use the Jump Starter.

To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of battery. Review cautionary marking on these products and on engine.

Work Area Safety

1. **Keep work area clean and well lit.**
Cluttered or dark areas invite accidents.
2. **Do not operate Jump Starter in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.**
The Jump Starter can create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating the Jump Starter.**
Distractions can cause you to lose control.
4. **Store idle equipment.** *Always lock up tools and keep out of reach of children.*

Electrical Safety

1. **Do not drop a metal tool onto battery.** *It might spark or short-circuit battery or other electrical part that may cause explosion.*
2. **Do not operate if Jump Starter has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified technician.**
3. **Do not leave Jump Starter unattended while switched on.** *It could result in fire and property damage.*
4. **Do not expose to rain or wet conditions.** *Water entering the Jump Starter will increase the risk of electric shock.*
5. **Do not use an extension cord with this item.**
6. **Use of an attachment not recommended or sold by the manufacturer may result in a risk of fire, electric shock, or injury to persons.**
7. **To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting the Adapter.**
8. **Do not operate with damaged cord or plug.** *Replace the cord or plug immediately.*

Personal Safety

1.  **Wear ANSI-approved splash-resistant safety goggles and heavy-duty rubber work gloves whenever connecting, disconnecting, or working near battery.** *Battery acid can cause permanent blindness. Avoid touching eyes while working near battery.*
2. **Do not use Jump Starter while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating Jump Starter may result in serious personal injury.*
3. **NEVER smoke or allow a spark or flame in vicinity of battery or engine.**
4. **If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with running cold water for at least 10 minutes and get medical attention immediately.**
5. **Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a lead-acid battery.** *A lead-acid battery can produce a short-circuit current high enough to weld a ring or the like to metal, causing a severe burn.*
6. **People with pacemakers should consult their physician(s) before use.** *Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.*

7. **This product contains a Lithium-Ion battery.** In case of fire, you may use water, a foam extinguisher, Halon, CO₂, ABC dry chemical, powdered graphite, copper powder or soda (sodium carbonate) to extinguish fire. Once the fire is extinguished, douse the product with water, an aqueous-based extinguishing agent, or other nonalcoholic liquids to cool the product and prevent the battery from re-igniting. NEVER attempt to pick up or move a hot, smoking, or burning product, as you may be injured.

8. Lithium Battery Safety Warnings



LITHIUM BATTERIES STORE A LARGE AMOUNT OF ENERGY AND WILL VENT FIRE OR EXPLODE IF MISTREATED:

- a. **Keep Battery dry.**

b. **DO NOT DO ANY OF THE FOLLOWING TO THE BATTERY:**

- **Open,**
 - **Drop,**
 - **Short-circuit,**
 - **Puncture,**
 - **Incinerate, or**
 - **Expose to temperatures greater than 265°F.**
- c. Inspect before every use; do not use or charge if damaged.

Service

Have your Jump Starter serviced by a qualified repair person using only identical replacement parts.
This will ensure that the safety of the Jump Starter is maintained.

Jump Starter Safety Warnings

1. **Lead-acid batteries generate hydrogen gas when charging.** Hydrogen gas is explosive. Only use the Jump-Start system in a well-ventilated area.
2. **Jump-Starting A Vehicle**
 - a. Use the Jump Starter for jump-starting a LEAD-ACID battery only.
 - b. For emergency use only. Do not use the Jump Starter as a replacement for a vehicle battery.
 - c. Be sure area around battery is well ventilated while battery is being jump-started.
 - d. Avoid letting the internal Jump Starter Battery freeze. Never charge a frozen battery.
 - e. Do not attempt to jump-start a vehicle with a non-rechargeable or defective battery.
 - f. Study all battery manufacturer's specific precautions for jump-starting.
 - g. **DO NOT TOUCH POSITIVE AND NEGATIVE BATTERY CLAMPS TOGETHER.**
 - h. Unplug the Jump Starter from its Adapter before connecting its cables to a battery.
 - i. Connect and disconnect battery cable clamps only after setting any Jump-Starter switches to OFF position (if available).
 - j. Connect cables to proper polarities. Connect black cable to negative body ground and red cable to positive battery terminal.
 - k. Locate Jump Starter as far away from battery as battery cables permit.
3. Maintain labels and nameplates on the Jump Starter. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
4. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.



SAVE THESE INSTRUCTIONS.

Specifications

Peak Amps (Battery)	2000A
Cranking Amps	1000A
Battery Type	Lithium-Polymer
Battery Capacity	49.6 Wh
USB Port Output	5V, 2.4A
DC Port Output	12V, 15A

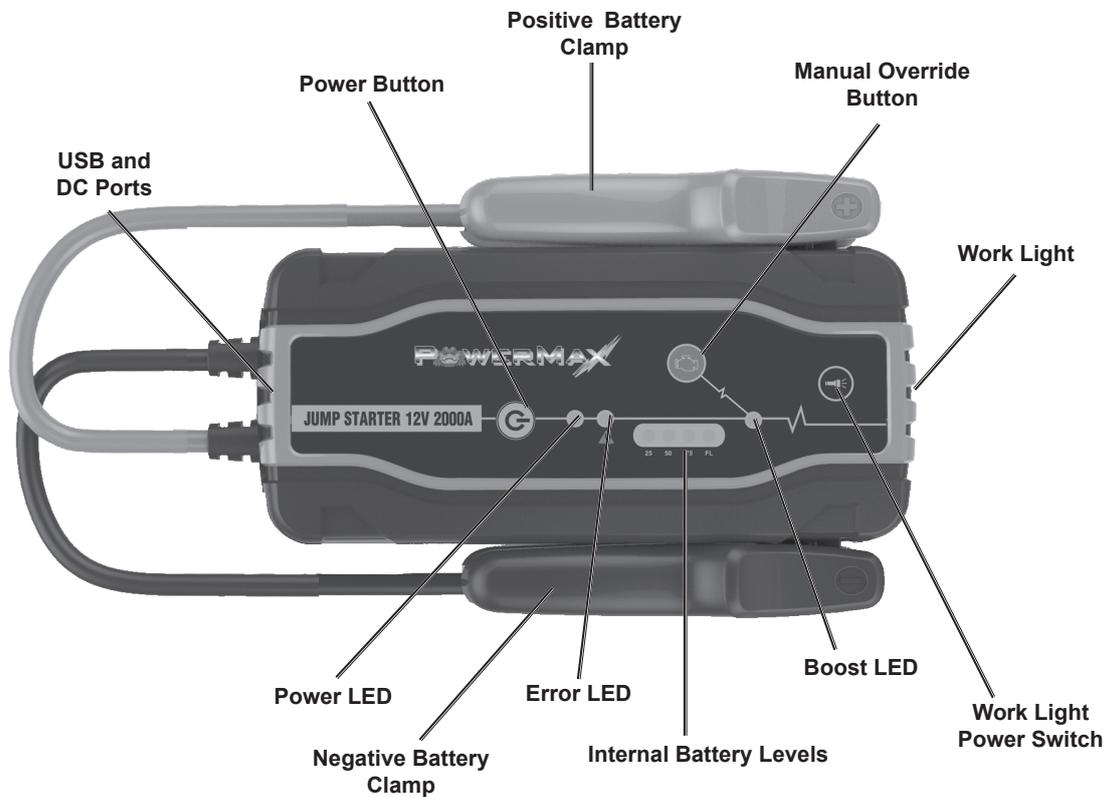
Setup - Before Use:



Read the **ENTIRE IMPORTANT SAFETY INSTRUCTIONS** section at the beginning of this manual including all text under subheadings therein before setup or use of this product.

Note: For additional information regarding the parts listed in the following pages, refer to *Parts List and Diagram* on page 11.

Functions



Charging the Jump Starter

IMPORTANT: YOU MUST CHARGE COMPLETELY BEFORE FIRST USE AND EVERY 30 DAYS OR VOIDS WARRANTY.

WARNING! TO PREVENT SERIOUS INJURY: Charge on a non-flammable surface.

1. Make sure Jump Starter is off. The Power LED should not be illuminated.
2. Turn Work Light and USB off. Disconnect any device connected to the USB Port.
3. Plug the Charging Cable into the DC Port on Jump Starter. Then plug the Charging Cable into vehicle auxiliary power outlet (cigarette lighter receptacle).
4. Jump Starter can also be charged via USB cable. Plug Micro USB Charging Cable into the Micro USB port and plug other end of cable into AC adapter or car charger.



5. While charging, Internal Battery LEDs will light up according to charge. See Figure A.
 - a. 25% Red LED: Light will flash when battery is less than 25% charged. When battery is at least 25% charged, this light will remain solid.
 - b. 50% Red LED: Light will flash, when battery is between 25% and 50% charged. When battery is at least 50% charged, this light will remain solid.
 - c. 75% Yellow LED: Light will flash when battery is between 50% and 75% charged. When battery is at least 75% charged, the light will remain solid.
 - d. 100% Green LED: Light will flash when battery is between 75% and 100% charged. When battery is 100% charged, all four lights will remain solid.

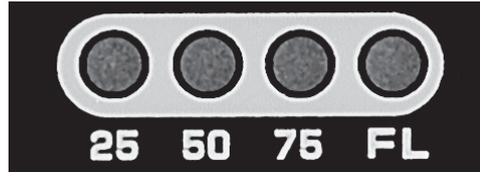


Figure A: Internal Battery Level LEDs

6. When the Jump Starter is fully charged, unplug Charging Cord from the outlet and the unit.

DC Appliance Compatibility

The Jump Starter can power 12VDC appliances that draw 15 Amps (180 Watts) or less.

The lower the watts the appliance uses, the longer the Jump Starter can power it before needing to be recharged.

Calculate the total wattage needed to run the appliance before operation. You do not need to calculate startup or surge wattages.

To calculate the size of the load you plan to use with the Jump Starter, use the following formula:

$$\text{Amps} \times \text{Volts} = \text{Watts}$$

For example, if you use an appliance whose running amps total 7 amps, you will need 84 watts of power (**7 amps x 12 volts = 84 Watts**) to run the item. This figure is within the capacity of the unit.

SAFETY

SETUP

OPERATION

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Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Internal parts are not user-serviceable and are not available.

Limited 90 Day Warranty

POWER MAX makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

