



IRONTON 300A JUMPSTARTER OWNER'S MANUAL



WARNING:
Read carefully and understand all **ASSEMBLY AND OPERATION INSTRUCTIONS** before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

If you have any questions, please call 1-800-222-5381 for assistance.

Item# 40236

Thank you very much for choosing a IRONTON product! For future reference, please complete the owner's record below:

Model: _____ Purchase Date: _____
Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

This machine is designed for certain applications only. The distributor cannot be responsible for issues arising from modification. We strongly recommend this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted the distributor to determine if it can or should be performed on the product.

For technical questions please call 1-800-222-5381.

INTENDED USE

This IRONTON 300A Jump Starter is easy-to-use and designed for reliable service, it can jump start your vehicle and run 12VDC appliances whenever and wherever you need it, whether it is at home or on the road.

TECHNICAL SPECIFICATIONS

12V DC Power:

Internal Battery	7Ah/12V sealed lead-acid battery
DC Power Socket	8A with automatic reset
DC Fuse	15A

Battery:

No Load Current Draw	<0.5A
Operating Temperature Range	14°F-104°F (-10°C-40°C)

Internal Battery Charging Controller System:

AC Charging Bulk Charging Current	300mA
Peak Charging Voltage	14.2V±0.2V
Charging Restart Voltage	12.9V±0.2V

Physical Specifications

Jump Starter cables (size/length)	8 Gauge
Dimensions	12.75" H x 9.5"W x 3.75" D
Weight	7lbs

GENERAL SAFETY RULES

WARNING: Read and understand all instructions. Failure to follow all instructions listed below may result in serious injury.

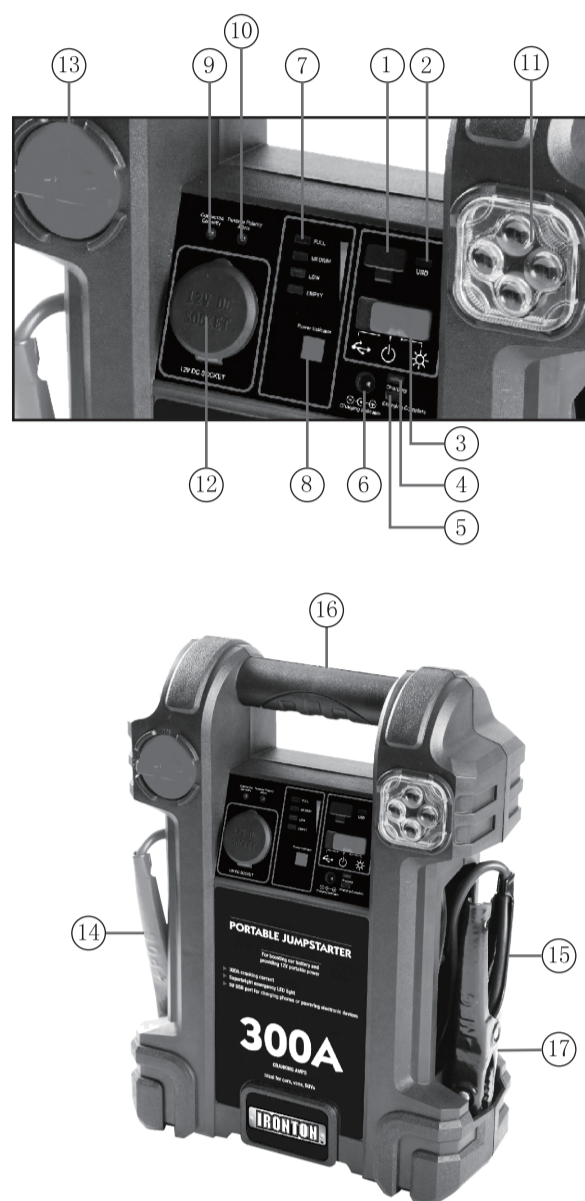
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CAUTION: Do not allow persons to operate this 300A Ironton Jump Starter until they have read this manual and have developed a thorough understanding of how the unit works.

WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could 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.

FEATURE

1. USB power port
2. USB power indicator
3. USB/LED power switch
4. Charging indicator
5. Charging complete indicator
6. Charging jack
7. Battery level indicators
8. Battery level button
9. Battery connection indicator
10. Reverse polarity indicator
11. LED work lights
12. 12V DC socket / cover
13. Jump start power switch
14. Positive battery clamp (red)
15. Negative battery clamp (black)
16. Carry handle
17. Fuse



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INTRODUCTION

Important: Please be sure to read and save the entire manual before using your mobile power pack. Any misoperation or misusing may damage the equipment or create hazardous conditions for the user. Please keep this manual for future reference.

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: These notes describe an important action item or an item that you must pay attention to.

Abbreviations and Acronyms:

A	Ampere
AC	Alternating Current
Ah	Amp-hours
DC	Direct Current
LED	light-emitting diode
mA	milli-Ampere
V	Volt
W	Watt

Important Safety Instructions

- WARNING:** Charge unit fully prior to use. Keep unit clear of fire and water.
- WARNING:** Shock hazard. Keep away from children. Do not insert foreign objects into the DC power pack socket, the jump start cable port, or the ventilation hole. Do not expose this product to water, rain, snow, condensation, or spray. Do not open the power pack except to replace the internal battery. Have a qualified technician perform any service work.
- WARNING: Explosion hazard**
Do not use this product where there are flammable fumes or gases, such as in the bilge of a gasoline-powered boat, or near propane tanks. Do not use this product in an enclosed area containing automotive-type lead-acid batteries. These batteries, unlike the sealed AGM battery in power pack, vent explosive hydrogen gas which can be ignited by sparks from electrical connections. When working on electrical equipment, always ensure someone is nearby to help you in an emergency.
- WARNING: Heated surface**
Ensure at least 2" (5cm) air space is maintained on all sides of the power pack. During operation, keep away from materials that may be affected by high temperatures such as blankets, pillows and sleeping bags.

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WARNING: Fire hazard
Never allow jump start cables' 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. Always disconnect the jump start cables from the unit after use and clip the plastic guard over the jump start cable port.

WARNING: Fire hazard
The jump start feature is designed for short term operation only. Operating the jump starter for more than 5 seconds may cause damage to the unit. Allow the jump starter to cool down for at least 3 minutes between starting attempts. In case of contact with battery acid use baking soda to neutralize. Always have a second person near by in case of an accident.

WARNING: Risk of explosion, fire or burns
The battery terminals exposed at the jump start cable port have enough energy present to cause a spark, creating an explosion hazard, or to cause burns if a metal object contacts both terminals.

CAUTION: Equipment damage
Do not expose the power pack to temperatures over 104° F(40° C) or under 14° F(-10° C).

Precautions when working with batteries

- WARNING: Explosion and fire hazard**
- 1. Follow all instructions published by the battery manufacturer and the manufacturer of the equipment in which the battery is installed.
- 2. Make sure the area around the battery is well-ventilated.
- 3. Never smoke or allow a spark or flame in vicinity of the engine or batteries.
- 4. Be careful not to drop a metal object on the battery or allow a metal tool to simultaneously touch the positive and negative cable ends or battery terminals. It might spark or short-circuit the battery or other electrical parts and cause an explosion.
- 5. Remove personal metal items such as rings, bracelets, necklaces, and watches when working with batteries. Batteries produce a short-circuit current high enough to weld a ring or other similar objects to metal, causing a severe burn.
- 6. If you need to remove a battery, always remove the negative terminal from the battery first. Make sure all accessories are off so you don't cause an arc.
- 7. Someone should be within range of your voice, or close enough to hand to your aid when you work near batteries.
- 8. Have plenty of fresh water, soap and a supply of baking soda on hand in the area of the batteries in case of contact with battery acid. Baking soda neutralizes lead acid battery electrolyte.
- 9. The product is supplied with a rechargeable, sealed lead acid battery. This battery is self contained and not consumer replaceable. Batteries must be disposed of properly when they no longer hold a charge. For information on battery recycling call toll free 800-822-8837

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Controls and Indicators:

1. USB power port Provides 5 volt output voltage for consumer electronics devices.
2. USB power indicator Illuminates when USB port is in use.
3. USB/LED power switch If the switch is flipped left, the USB port can provide power. Flipped right, the white LED lamps illuminate. Center position, the USB port and LED lamps are off.
4. Charging indicator 2-color LED indicator. When the battery is being charged, this LED indicator lights red, when the battery is fully charged, the LED indicator lights green.
5. Charging jack Charge the battery in the unit by inserting the connector from the AC charging adapter into this jack.
6. Battery level indicators:

Battery value	Display Mode
U<12.2V	Only red LED indicator light.
12.2V<U<12.4V	Red and yellow LED light.
12.4V<U<12.6V	Red, yellow and one green LED light.
U>12.6V	Red, yellow and two green LED all light.

7. Battery level button When pressed, indicates the battery charge levels.
 8. Battery connection indicator Green LED indicates connection to a battery indicator is correct.
 9. Reverse polarity indicator Red LED indicates jump start connection to battery is incorrect
 10. LED lights Four white LED lights foremergency use.
 11. 12V DC socket Easy-access output port to charge 12V accessories.
- Note:** The unit contains 15A fuse for over current protection.
Note: It is recommended that you use the unit to power 12V accessories less than 8A.
12. Jump start power switch Turn this switch to the ON position after connecting the positive and negative clamps to the battery being jump started. Turn to the OFF position when not in use.
 13. Red battery clamp Positive connector for jump starts.
 14. Black battery clamp Negative connector for jump starts.
- Note:** Be sure that the jump start switch is in off position prior to connecting clamps to vehicle's battery. Attach clamps properly to battery (red to positive post, and black to negative chassis ground) before turning jump start switch to on.
15. Portable handle For convenient handling of unit.
 16. AC charging adapter: Input voltage: 120V AC Output voltage: 13.5V DC Input current: 0.3A
- Note:** It is recommended that you charge the interior battery using the AC charging adapter, which offers charge protection.

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OPERATION

12V DC appliances
The power pack can operate one 12V DC auto, RV, marine, or other portable DC appliance that draws 10 amps or less from its DC socket. The combined load must not exceed 120 W. The less combined wattage used, the longer the power pack will operate before recharging is required.

- Operating DC appliances:**
1. Check battery status to ensure the battery is fully charged.
 2. Open the DC socket.
 3. Plug the DC appliance into the DC socket.
 4. Turn the DC appliance ON.
 5. Recharge the power pack immediately after use.

USB Devices

The power pack can charge or power one USB-chargeable device through its USB port. Compatible devices include most MP3 players, PDAs, digital cameras, and camcorders that have internal batteries which can be charged via the USB port of a desktop/laptop computer. USB-chargeable devices usually include a special USB cable (not supplied) that attaches one end to the USB port and the other end to the device.

Jump starting a vehicle's engine
You can use the power pack to jump start a vehicle (or boat engine) that has a 12V starting battery using the jump start cables supplied with the unit.

WARNING: Fire Hazard
A reverse polarity connection may cause damage to the unit and/or create a sparking/explosion hazard. Never allow cables' red and black clamps to touch each other or another common metal conductor. The connection of the cables to the vehicle's battery terminals must be positive to positive (red clamp to battery "+") and negative to negative (black clamp to battery "-" or vehicle chassis).

NOTE: Carefully follow these instructions for jump starting your vehicle as they may be different from the instructions supplied with other jump start products or cables.

To jump start a vehicle:

1. Turn off the vehicle and all accessories.
2. Place the unit on a flat and stable surface near the battery which need to be started. Ensure that the unit's jump start 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 motor. If the red "Reverse Polarity" LED illuminates, then reverse polarity has been detected. Correct polarity must be established before proceeding. Disconnect the jump starting clamps from the vehicle's battery and repeat steps (3) and (4).
5. Switch on the jump start power switch. Before starting the engine, make sure the jumpstarter pack and the cables are clear of the metal parts and other moving things.
6. Crank the engine for 5 seconds or until it starts, whichever is first.

WARNING: Fire hazard
Do not try to start the engine for more than 5 seconds. The jump start feature is designed for short term operation only. Operating the jump starting feature for more than 5 seconds may cause damage to the unit. Allow the unit to cool down for at least 3 minutes after each start attempt.

7. Switch off the jump start power switch.
8. Remove the red positive (+) clamp and then the black negative (-) clamp.

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Recharging the power pack battery

CAUTION: Do not operate DC appliance while the power pack is being charged.

Charging with the AC charging adapter
Using the AC charging adapter is the simplest method for recharging the battery. While charging from an AC source, the charging status LED indicator will light red. When the battery has reached capacity, the indicator will light green. Charging when the battery is fully discharged takes around 23 hours.

NOTE: Recharge the mobile power pack as soon as possible after each use. When not used the power pack, it should be recharged every 3 months!

- To recharge with AC charger:**
1. Turn the rotary switch to the "OFF" position.
 2. Plug AC charging adapter into charging jack on the front of the unit.
 3. Plug AC charging adapter into 120V AC electrical outlet.
 4. Continually charge until the battery is fully charged.

CAUTION: Full charging time for the unit assumes that there is 120V at the AC wall outlet. If the voltage is less than 120V AC, it may require more time to fully recharge the internal battery. Once fully charged, the charging current automatically reduces to a floating charge mode, and the unit may be left permanently connected to the AC charger.

TROUBLESHOOTING

Problem	Cause	Solution
The power pack can not jumpstart vehicle	The battery in the power pack is not fully charged	Charge it for at 23 hours
	The engine start capacity exceeds the power pack jumpstart capacity.	
	The power pack's battery has been damaged	Replace the power pack's battery (consult servicetechnician).
The charging status LED indicator does not light.	No AC power at the AC wall outlet.	Ensure power is available at the AC wall outlet.
	AC charging adapter is faulty.	Replace 120V AC charger
The charging status LED indicator still lights red and hasnot charged to steady after 50hours of charging.	The AC charger's output istoo low.	Replace the AC charger

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WARRANTY

1-Year Limited Warranty
This Ironton 300A Jump Starter carries a one (1) year warranty against defects in workmanship and materials. At its discretion, Northern Tool agrees to have any defective unit(s) repaired or replaced free of charge, within the stated warranty period, when returned by the original purchaser with proof of purchase. This product is not guaranteed against wear or breakage due to misuse and/or abuse.

If you have any questions, please call 1-800-222-5381 for assistance.



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