

OPERATOR'S MANUAL



JUMP STARTER and DC Power Source

Model No.
71489



CAUTION:

Read and follow all Safety
Rules and Operating Instructions
before Every Use of this Product.

SAVE THESE INSTRUCTIONS.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

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PLUS START ONE-YEAR FULL WARRANTY

When operated and maintained according to all supplied instructions, if this Plus Start product fails due to a defect in material or workmanship within 1 year from the date of purchase, return it to any Kmart location in the United States for free replacement.

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

Sears, Roebuck and Co., Hoffman Estates, IL 60179

**FOR CUSTOMER ASSISTANCE OR REPLACEMENT PARTS,
CALL TOLL-FREE FROM 7 AM TO 5 PM CT
MONDAY THROUGH FRIDAY: 1-800-732-7764**



**CONTAINS SEALED NON-SPILLABLE LEAD-ACID BATTERY. MUST
BE DISPOSED OF PROPERLY.**

**WARNING: Possible explosion hazard. Contact with battery acid may
cause severe burns and blindness. Keep out of reach of children.**

IMPORTANT: READ AND SAVE THIS SAFETY AND INSTRUCTION MANUAL.

SAVE THESE INSTRUCTIONS – Charge the jump starter's internal battery immediately after purchase, after every use and every 30 days. This manual will show you how to use your jump starter safely and effectively. Please read, understand and follow these instructions and precautions carefully, as this manual contains important safety and operating instructions. The safety messages used throughout this manual contain a signal word, a message and an icon.

The signal word indicates the level of the hazard in a situation.

⚠ DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or bystanders.

⚠ WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or bystanders.

⚠ CAUTION Indicates a potentially hazardous situation which, if not avoided, could result in moderate or minor injury to the operator or bystanders.

IMPORTANT Indicates a potentially hazardous situation which, if not avoided, could result in damage to the equipment or vehicle or property damage.

⚠ WARNING



Pursuant to California Proposition 65, this product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

1. IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS.

This manual contains important safety and operating instructions.

⚠ WARNING



⚠ WARNING



RISK OF ELECTRIC SHOCK OR FIRE.

1.1 Read the entire manual before using this product. Failure to do so could result in serious injury or death.

1.2 This jump starter is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they

have been given supervision or instruction concerning the use of the jump starter by a person responsible for their safety.

- 1.3** Children should be supervised to ensure they do not play with the jump starter.
- 1.4** Do not put fingers or hands into the product.
- 1.5** Do not expose the jump starter to rain or snow.
- 1.6** Use only recommended attachments. Use of an attachment not recommended or sold by the manufacturer may result in a risk of fire, electric shock or injury to persons or damage to property.
- 1.7** Do not operate the jump starter with a damaged output cable; have the damaged part replaced immediately by a qualified service person. (Call customer service at 1-800-732-7764.)
- 1.8** Do not operate the jump starter if it has received a sharp blow, been dropped or otherwise damaged in any way; take it to a qualified service person. (Call customer service at 1-800-732-7764.)
- 1.9** Do not disassemble the jump starter; take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock. (Call customer service at 1-800-732-7764.)



RISK OF EXPLOSIVE GASES.

1.10 WORKING IN THE 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.

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

2. PERSONAL PRECAUTIONS



RISK OF EXPLOSIVE GASES. A SPARK NEAR THE BATTERY MAY CAUSE A BATTERY EXPLOSION. TO REDUCE THE RISK OF A SPARK NEAR THE BATTERY:

2.1 NEVER smoke or allow a spark or flame in the vicinity of a battery or engine.

- 2.2** 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.
- 2.3** Be extra cautious, to reduce the risk of dropping a metal tool onto the battery. It might spark or short-circuit the battery or other electrical part that may cause an explosion.
- 2.4** To prevent sparking, NEVER allow clips to touch together or contact the same piece of metal.
- 2.5** Consider having someone nearby to come to your aid when you work near a lead-acid battery.
- 2.6** Wear complete eye and body protection, including safety goggles and protective clothing. Avoid touching your eyes while working near the battery.
- 2.7** If battery acid contacts your skin or clothing, immediately wash the area with soap and water. If acid enters your eye, immediately flood the eye with cold running water for at least 10 minutes and get medical attention right away.
- 2.8** If battery acid is accidentally swallowed, drink milk, the whites of eggs or water. DO NOT induce vomiting. Seek medical attention immediately.

3. PREPARING TO USE THE JUMP STARTER



RISK OF CONTACT WITH BATTERY ACID. BATTERY ACID IS A HIGHLY CORROSIVE SULFURIC ACID.

3.1 Clean the battery terminals before using the jump starter. During cleaning, keep airborne corrosion from coming into contact

with your eyes, nose and mouth. Use baking soda and water to neutralize the battery acid and help eliminate airborne corrosion. Do not touch your eyes, nose or mouth.

- 3.2** Determine the voltage of the battery by referring to the vehicle owner's manual and make sure that the output voltage of the jump starter is correct.
- 3.3** Make sure that the jump starter cable clips make tight connections.

4. FOLLOW THESE STEPS WHEN CONNECTING TO A BATTERY



A SPARK NEAR THE BATTERY MAY CAUSE A BATTERY EXPLOSION. TO REDUCE THE RISK OF A SPARK NEAR THE BATTERY:

4.1 Attach the output cables to the battery and chassis as indicated below. Never allow the output clips to touch each other.

4.2 Position the DC cables to reduce the risk of damage by the hood, door and moving or hot engine parts. **NOTE:** If it is necessary to close the hood during the jump starting process, ensure that the hood does not touch the metal part of the battery clips or cut the insulation of the cables.

- 4.3** Stay clear of fan blades, belts, pulleys and other parts that can cause injury.

- 4.4 Determine which post of the battery is grounded (connected) to the chassis. If the negative post is grounded to the chassis (as in most vehicles), see step 4.5. If the positive post is grounded to the chassis, see step 4.6.
- 4.5 For a negative-grounded vehicle, connect the POSITIVE (RED) clip from the jump starter to the POSITIVE (POS, P, +) ungrounded post of the battery. Connect the NEGATIVE (BLACK) clip to the vehicle chassis or engine block away from the battery. Do not connect the clip to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
- 4.6 For a positive-grounded vehicle, connect the NEGATIVE (BLACK) clip from the jump starter to the NEGATIVE (NEG, N, -) ungrounded post of the battery. Connect the POSITIVE (RED) clip to the vehicle chassis or engine block away from the battery. Do not connect the clip to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
- 4.7 When disconnecting the jump starter, remove the clip from the vehicle chassis, then remove the clip from the battery terminal.

5. CHARGING THE INTERNAL BATTERY OF THE JUMP STARTER

IMPORTANT: CHARGE IMMEDIATELY AFTER PURCHASE, AFTER EACH USE AND EVERY 30 DAYS TO KEEP THE JUMP STARTER INTERNAL BATTERY FULLY CHARGED.

5.1 LED Indicators:

TO CHECK THE INTERNAL BATTERY'S CHARGE STATUS, PRESS THE BATTERY STATUS BUTTON ON THE FRONT OF THE JUMP STARTER.

The LED lights will indicate the charge level as follows:

- A red LED indicates a 50% or less charge and you should immediately recharge the jump starter.
- A yellow LED indicates a 50 to 75% charge. The jump starter may be used but should be recharged as soon as possible.
- A green LED indicates the internal battery is fully charged.
- The CHARGING (red) LED indicates the jump starter is charging (connected to an AC power source.) At full charge, the CHARGED (green) LED will light.

5.2 Charging the Internal Battery using the Built-In Charger:

1. To charge, plug an 18 gauge (AWG) or larger extension cord into the charger plug on the side of the jump starter. (Extension cord not included; must be purchased separately.)
2. Plug the extension cord into a 120V AC electrical wall outlet.
3. The CHARGING (red) LED will glow indicating charging.
4. The CHARGED (green) LED will light when the battery has reached full charge. This could take up to 72 hours, depending on the age and condition of the battery. The charger will automatically go into maintain mode and maintain the battery at full charge without damaging it.
5. Charge the jump starter as soon as possible after use.

IMPORTANT Do not use the jumpstarter while charging the internal battery.

You may also charge the internal battery while driving, using a male-to-male charger cable (p/n 38-99-001564 – not included. Call 1-800-732-7764 to order). Insert one end of the accessory cable into the 12V DC power outlet and the other end into the vehicle's accessory outlet (lighter socket). Completely disconnect the charger cable when the engine is not running.

CAUTION The CHARGING (red) LED and the CHARGED (green) LED do not operate during this method of charging. Using this method to charge the battery overrides the maintain mode and the battery can be overcharged. Monitor the progress of the battery and when it reaches a full (100%) charge, disconnect the charger. Do not charge it for more than four hours or leave the battery unattended. It could explode, causing property damage or personal injury.

6. OPERATING INSTRUCTIONS

6.1 Jump Starting a Vehicle Engine



A SPARK NEAR THE BATTERY MAY CAUSE A BATTERY EXPLOSION. TO REDUCE THE RISK OF A SPARK NEAR THE BATTERY:

1. Turn vehicle's ignition OFF before making cable connections.
2. Connect the jump starter to the vehicle's battery, as described in Section 4.
3. Crank the engine. If the engine does not start within 5-8 seconds, stop cranking and wait at least 1 minute before attempting to start the vehicle again. (This permits the jump starter battery to cool down.)
4. After the engine starts, immediately disconnect the jump starter from the vehicle, as described in Section 4.
5. Return the battery clips to their storage holders.
6. Recharge the jump starter as soon as possible after use.

6.2 Powering a 12V DC Device:

The jump starter is a power source for all 12V DC accessories that are equipped with a 12V accessory plug. Use it for power outages and fishing or camping trips. Estimated usage time is listed in the chart below.

Make sure the device to be powered is OFF before inserting the 12V DC accessory plug into the 12V DC accessory outlet.

1. Open the protective cover of the DC power outlet on the back of the jump starter.
2. Plug the 12V DC device into the DC power outlet, and turn the 12V DC device on (if required).
3. If the 12V DC device draws more than 15A or has a short circuit, the internal fuse of the jump starter will blow and disconnect the power to the device. If this occurs, disconnect the 12V DC device in question and take it to a qualified service person. (Call customer service at: 1-800-732-7764.)

The DC power outlet is wired directly to the internal battery. Extended operation of a 12V DC device may result in excessive battery drain. Recharge immediately after unplugging the 12V DC device.

Appliance Type	Estimated Wattage	Estimated Usage Time
Cell Phone	4 watts	21 hours
Fluorescent Light	4 watts	21 hours
Radios, Fan	9 watts	9.3 hours
Depth Finder	9 watts	9.3 hours
Camcorder, VCR	15 watts	5.6 hours
Electrical Tool	24 watts	3.5 hours
Electrical Cooler	48 watts	1.8 hours
Car Vacuum, Air Compressor	80 watts	1.1 hours

NOTE: Estimated run-times. Actual time may vary. Times are based on the internal battery being fully charged and in good condition.

7. MAINTENANCE INSTRUCTIONS

- 7.1 Use a dry cloth to wipe all battery corrosion and other dirt or oil from the battery clips, cords and the jump starter case.
- 7.2 Ensure that all of the jump starter components are in place and in good working condition.
- 7.3 Servicing does not require opening the unit, as there are no user-serviceable parts.
- 7.4 All other servicing should be performed by qualified service personnel.

8. MOVING AND STORAGE INSTRUCTIONS

- 8.1 Store the jump starter in an upright position, inside, in a cool, dry place.
- 8.2 Always make sure the jump starter is fully charged before storing. When not using it for long periods of time, recharge the jump starter every 30 days.
- 8.3 The clips on the jump starter are live and will produce arcing or sparking if they come in contact with each other. To prevent accidental arcing, always keep the clips on the storage holders when not jump starting a vehicle.

IMPORTANT Do not use and/or store the jump starter in or on any area or surface where damage could occur if the internal battery should unexpectedly leak acid.

9. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REASON/SOLUTION
The jump starter won't jump start my car.	Clips are not making a good connection to the battery.	Check for poor connection to battery and frame. Make sure connection points are clean. Rock clips back and forth for a better connection.
	Connections are reversed.	Disconnect the jump starter and reverse the clips.
	The jump starter battery is not charged.	Check the battery charge status by pressing the button on the front of the jump starter. See LED Indicators section of this manual.
	The vehicle's battery is defective.	Have the battery checked.
The jump starter won't power my 12V device.	The 12V device is not turned on.	Turn on the 12V device.
	The jump starter battery is not charged.	Check the battery charge status by pressing the button on the front of the jump starter. See LED Indicators section of this manual.
	The internal fuse of the jump starter may be blown.	The 12V DC outlet is protected from overloads and short circuits by an internal fuse. Take the jump starter to a qualified service person, to replace the fuse. (Call customer service at 1-800-732-7764.)
The battery in the jump starter won't hold a charge.	The battery is bad (will not accept a charge).	Have the battery checked.

10. BEFORE RETURNING FOR REPAIRS

- 10.1** When a starting problem arises, make certain that the battery is capable of accepting a normal charge. Double check all connections, the jump starter's battery charge level, the battery clips for correct polarity and the quality of connections from the cables to the clips, and from the clips to the battery system. The clips must be clean.
- 10.2** When an UNKNOWN OPERATING PROBLEM arises, please read the complete manual and call the customer service number for information that will usually eliminate the need for return.

If the above solutions do not eliminate the problem, or for information about troubleshooting or replacement parts, call toll-free from anywhere in the U.S.A.

1-800-732-7764

7:00 a.m. to 5:00 p.m. Central Time, Monday – Friday