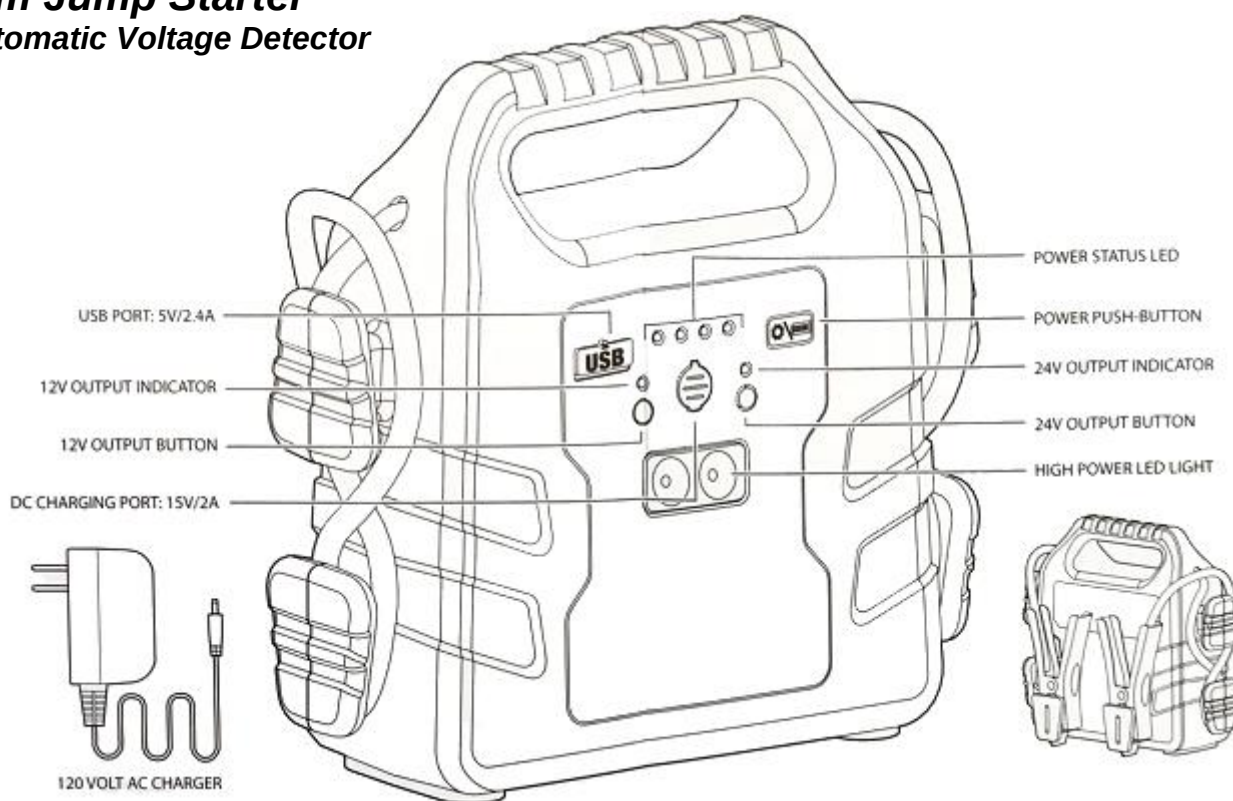


Installation Instructions for 81952

Lithium Jump Starter

with Automatic Voltage Detector



WARNING

- Read, understand and follow all instructions, cautions and warnings listed in this instruction manual, those published by your vehicle battery manufacturer & manufacturers of any device intended to be used with this unit. Failure to follow all instructions and abide by all cautions and warnings could result in personal injury, injury to others and property damage. Save these instructions for future reference.
- Use this product with 12V & 24V lead-acid batteries only. DO NOT connect to 6V DC batteries.
- DO NOT use with dry-cell batteries, these batteries may burst and may cause injury to person or damage personal property.
- Never charge or jump-start a vehicle with a frozen battery.
- DO NOT face battery. Stay as far as possible from vehicle battery being jumped when making final connection.
- Working around lead-acid batteries may be dangerous. Lead-acid batteries generate explosive gases during normal charging and jump-starting operations.
- All lead-acid batteries (car, truck & boat) produce hydrogen gas, which may violently explode in the presence of fire or sparks. DO NOT smoke, use matches, lighters or open flame near batteries.
- DO NOT operate this device or place this product near flammable materials or any location, which accumulate flammable fumes.
- Do not submerge in water, or expose unit to heavy moisture or rain.
- This product is not intended for use in the rain or temperature above 140° F.
- Some late model vehicles have on-board computers that might be damaged if jump-started. Always read the vehicle owner's manual before attempting to jumpstart (battery boost) the vehicle to determine if external-starting assistance is acceptable.
- Stay clear of fan blades, belts, pulleys and moving parts that can cause bodily injury during battery jump-start.

WARNING

- DO NOT use additional attachments other than those recommended or provided by the manufacturer.
- Allow one (1) hour cool-down period before recharging.
- DO NOT exceed manufacturer's recommended specifications.
- Make sure that any electrical outlet, located in a potentially wet or moist area, and is to be used to charge the jump starter, is protected by a ground fault interrupt switch.
- Do not charge the jump starter on boat, boat ramp or docks since the electrical cords and outlets used for charging could cause severe electrical shock if they get wet.

CAUTION

- Make sure fresh water & soap are available nearby in case battery acid contacts skin, eyes or clothing. If contact with battery acid occurs, rinse immediately and thoroughly with water, and then wash with soap and water.
- Get immediate medical attention if redness, irritation or pain is present. For eye contact flush eyes for at least 15 minutes and get immediate medical attention.
- It is highly recommended that this product be operated by two persons. Ensure that someone is available to give assistance, if needed.
- Wear complete eye and clothing protection. Do not touch eyes while working near battery.
- Do not operate this device while wearing vinyl clothing. Static electricity sparks maybe generated when vinyl clothing is rubbed.
- Remove personal metal items such as rings, bracelets, necklaces and watches while working with a lead-acid battery. It can produce a short-circuit high enough to cause a severe burn.
- Always keep the booster clamps in their storage holders to prevent sparking when recharging and when they are not in use.
- Never allow booster clamps to touch together or to contact the same piece of metal to prevent short circuits and arcing.
- Avoid dropping metal tools onto vehicle battery. It might spark or short circuit battery or other electrical parts that may cause short circuits or explosion.
- Keep battery terminals clean. Be careful to keep corrosion from coming in contact with eyes.
- When using the 120V AC charger, pull on the plug and never pull on the cord when disconnecting.
- DO NOT recharge product battery with damaged chargers, replace them immediately.
- DO NOT place anything into the jump starter charging port except the provided plug from the charger unit.
- Use only the provided charger, cables and clamps. Unauthorized parts may damage the jump starter.
- This product has no consumer serviceable parts.
- This device contains a lithium battery and must be disposed of properly. Contact your local government recycling authority for proper disposal.
- DO NOT attempt to remove or replace the battery used in this device. When battery has reached the end of its useful lifetime, take the entire unit to a battery recycling facility for proper disposal and/or battery replacement.
- This is not a toy. KEEP OUT OF REACH OF CHILDREN!

FEATURES:	Heavy-Duty Booster Clamps: 700A starting/1400A peak current rated color-coded battery clamps
Power Push Button: Powers USB, LED Lights, LED Charge Status %	Professional Quality Cables: Color coded cables with extra thick oil resistant external cable insulation sheathing
USB Port: 5V/2.4A to power USB powered devices	Booster Clamps Storage Holders: Prevents accidental sparking when cables are not in use
LED Power Status & Charge Indicator: 25%, 50%, 75%, & 100% indicators, LED battery charge status	LED Light: Provides long lasting portable lighting with emergency flasher functions
12V & 24V Manual Buttons: Manually Select between 12V & 24V batteries	Convenient Charge Cord: 120V AC charger for in home use



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CHARGING & RECHARGING INSTRUCTIONS

CAUTION

- Ensure that the unit power push-button is in the off position.
- This product may arrive partially charged from the manufacturer. It is recommended to fully charge the unit immediately after purchase and before using for the first time.
- Recharge immediately when red LED (25%) is flashing due to jump starter battery low voltage. Fully recharge the jump starter, when charge status is 50%. Once unit is 100% charged, all LEDs lights will turn off. To check status, press power push-button one time.
- The charging LED indicators will be illuminated while charging, showing 25%, 50%, 75%, & 100%.
- It is recommended that the jump starter is in an upright position while charging.

IMPORTANT: THE 120 VOLT AC POWER UNIT (CHARGER) IS INTENDED TO BE CORRECTLY ORIENTED IN A VERTICAL OR FLOOR MOUNT POSITION DURING CONNECTION TO A 120V AC RECEPTACLE.

NOTE: ENSURE BOTH BOOSTER CLAMPS (POSITIVE & NEGATIVE) ARE PLACED IN THEIR STORAGE HOLDERS WHEN NOT IN USE & DURING THE JUMPSTARTER RECHARGING.

CHARGING WITH 120 VOLT AC CHARGER

1. Insert the 120V AC charger plug into the jump starter charging port.
2. Insert the 120V AC charger transformer plug into a 120V AC receptacle.
3. Fully charge the unit according to the following:
 - **Initial & first time charge: charge until LED charge status lights turn off.**
 - **Recharge or between each use: 6 to 8 hours.**
4. Charging LEDS will turn off once 100% status is achieved. Press power push-button to verify 100% charging status. When charging is complete unplug the 120V AC charger transformer plug first and then the 120V AC charger plug from the charging port on the jump starter.

SPECIFICATIONS

1. BUILT IN BATTERY: 33 AMP HOUR (Ah) LITHIUM COBALT BATTERY
2. STARTING CURRENT: 12V/700A : 24V/350A
3. PEAK CURRENT: 12V/1400A : 24V/700A
4. USB PORT: 5V DC/ 2.4A
5. LED LIGHT: 12V DC/ 2 LED (2W/330mA)
6. PROTECTIONS: OVER CURRENT, LOW VOLTAGE, OVER & REVERSE CHARGE, REVERSE POLARITY, OVER TEMPERATURE, SHORT CIRCUIT
7. OPERATING TEMP: -40° F - 1400° F
8. NET WEIGHT: 6.8 lb
9. UNIT DIMENSIONS: 9.5" (H) x 10.6" (W) x 5" (D)

STORAGE

Store in cool, dry, well ventilated area with overhead cover. This unit may be stored in any position. Ensure that the booster clamps are secured to their storage holders.

NOTE: Jump starter output & power buttons must be in the off positions. If not used for prolonged time, recharge every 3 months.



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JUMP STARTING (BATTERY BOOST) INSTRUCTIONS

CAUTION: Follow correct polarity connection and never allow booster clamps to touch together or to contact the same piece of metal to prevent short circuits and arcing.

1. Turn off the vehicle ignition and all accessories (e.g., radios, lights, air conditioner and cellular phones).
2. Set the emergency brake and put vehicle with automatic transmission in the PARK position.
3. Determine the polarity of the vehicle battery terminals. The Positive (POS, P, +) battery terminal usually is larger in diameter than the Negative (NEG, N, -) terminal. (If you are unsure you should refer to vehicle owner's manual).

4. Determine whether your vehicle uses a Negative or Positive Grounded System:

Negative Grounded System: Negative battery terminal is grounded to chassis. Most vehicles use this system.

Positive Grounded System: Positive battery terminal is grounded to chassis or any other metallic part of the vehicle (If you are unsure you should refer to the vehicle owner's manual).

5. Access the jump starter booster clamps by squeezing the clamp handles. Pull the clamps outward and remove clamps from their storage holders. Never allow clamps to touch together or to contact the same piece of metal to prevent short circuits and arcing.

6. Follow instructions for Negative Grounded System or Positive Grounded System as indicated below:

Negative Grounded System:

- a. Securely connect the Positive (+) Red clamp to the Positive (POS, P, +) terminal of the vehicle battery or the remote Positive (+) terminal if equipped.
- b. Securely connect the Negative (-) Black clamp to the vehicle chassis, engine block or a thick non-moving grounded metal part of the vehicle as far away from the battery as possible. Do not clamp directly to carburetor, fuel lines, or non-grounded sheet-metal body parts.
- c. See Jump Starting (Battery Boost) step #7 to continue.

Positive Grounded System:

- a. Securely connect the Negative (-) Black clamp to the Negative (NEG, N, -) ungrounded terminal of the vehicle battery.
- b. Securely connect the Positive (+) Red clamp to the vehicle chassis, engine block or a nonmoving grounded metal part of the vehicle as far away from the battery as possible. Do not clamp directly to carburetor, fuel lines, or Sheet-metal body parts.
- c. See Jump Starting (Battery Boost) step #7 to continue.

NOTE: Unit should detect 12V or 24V battery voltage on vehicle. If the battery is severely discharged, 12V and/or 24V LED will be flashing. Stop the process immediately and disconnect clamps. Check vehicle manual to identify battery voltage. User must manually select 12V or 24V battery until the proper LED is illuminated. Then connect clamps based on Positive or Negative Ground System (step #6) and proceed to step #7.

NOTE: DO NOT start vehicle until you check all connections. Make sure correct positive and negative polarity connections are achieved when using manual voltage selection for 12V or 24V to avoid damage to unit and/or vehicle battery.

7. Allow 2 or 3 minutes charging time. It is recommended to have a second person to assist holding the jump starter unit securely in place during the next steps.
8. Turn the ignition key and attempt to start the vehicle.

NOTE: If the vehicle does not start after 4 to 5 seconds of engine cranking, stop. Wait 3 to 4 minutes, then try again. Repeat several times until the vehicle starts.

NOTE: Excessive engine cranking can damage vehicle starter motor. If the engine turns, but fails to start after several attempts, other technical problem(s) might be involved. Discontinue cranking the engine until the other problem is determined and corrected.



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9. If the vehicle starts, disconnect clamps in reverse sequence to connecting procedure above as far away from the vehicle battery as practical:

For Negative Grounded System first disconnect Negative (-) Black clamp then Positive (+) Red clamp.

For Positive Grounded System first disconnect Positive (+) Red clamp then Negative (-) Black clamp.

10. Replace the clamps to their storage holders.

NOTE: 12V or 24V LED output indicators will turn off after use automatically.

LED LIGHT & EMERGENCY FLASHER INSTRUCTIONS

1. To power on the LED light, press & hold the power push-button until LED display illuminates, then release. Double-click on button to turn light on.

2. Press the push-button switch once to activate the emergency flasher function.

3. Press the push-button switch once to activate the SOS function.

4. To power off the light press & hold the power push-button until lights turn off.

NOTE: LED light, emergency flasher & SOS functions will operate in sequence to each other. The lighting mode will depend on the prior (last) operating function selected. User may have to cycle between modes in order to achieve the proper lighting function.

USB POWERED DEVICES

1. Prior to connecting the device to the unit's USB port, make sure the device is off.

2. Using the power/charging cable included with the device to be powered or charged, connect the device to the USB port on the jump starter.

3. Press & hold the power push-button until LED display illuminates. (The device with built-in battery will start charging automatically). Turn on the device & use as normal.

4. Once finished charging device, unplug cable from USB port & press power push-button until LEDs turn off.

NOTE: Make sure device power/charging cable works prior to use. Make sure all connections are correct to USB port and device port.



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TROUBLE SHOOTING GUIDE:

NOTE: Do not start vehicle until you check all connections. Make sure correct positive and negative polarity connections are achieved when using manual voltage selection for 12V or 24V to avoid damage to unit and/or vehicle battery.

Trouble	Cause	Solution
Vehicle does not start	1. Bad clamp connection due to loose clamp installation. 2. Incorrect polarity connection during automatic voltage detection. 12V/24V LED output indicators flashing & buzzing. 3. Very low vehicle battery charge. 4. Low Jump starter charge. 5. Vehicle battery defective. 6. Require higher starting current than provide by this unit. 7. Vehicle electrical system faulty. 8. Wrong manual voltage selected when battery is severely discharged.	1. STOP! Carefully disconnect and reconnect the Jump starter booster clamps to the proper battery polarity to achieve full connections for positive & negative polarity. 2. STOP! Carefully disconnect and reconnect the Jump starter booster clamps to the proper positive and negative vehicle battery polarity. 3. Maintain Jump starter connection to the vehicle depleted battery. Wait 3-4 minutes before attempting to start vehicle again. 4. Recharge the Jump starter to full charge or at least 50% of charge status. 5. Replace with new battery. 6. This unit will not start vehicle. Disconnect clamps and use Jump starter with higher starting current. 7. Have your vehicle alternator/starter/battery checked by a professional for repair. 8. Ensure to verify the correct battery voltage from the vehicle's owner manual and follow jumpstarting/battery boost instructions.
12V/24V output indicator flashing	1. Weak charging connectors. 2. Defective AC charger. 3. Reverse charged protection after jumpstarted vehicle. 4. Vehicle battery defective & will not be charged with this unit.	1. Insert AC charger plug to full contact into DC charger port. 2. Replace with new AC charger. 3. Immediately disconnect Jump starter clamps from vehicle battery connections. 4. Replace with new battery.
12V/24V output indicator flashing & buzzer during autovoltage connection	1. Incorrect polarity connection during automatic voltage detection & short circuit protection activated.	1. STOP! Carefully disconnect and reconnect the Jump starter booster clamps to the proper positive & negative vehicle battery polarity.
Red LED (25%) flashing	1. Low voltage protection.	1. DO not use unit to jumpstart vehicle. Charge Jump starter immediately to at least 50% charging level.
Red LED (25%) flashing & buzzer	1. Over temperature protection. Jump starter exceeded 140° F operational temperature.	1. Do not use Jump starter at existing temperature. Place unit in a well ventilated area to cool the battery.
12V or 24V LED light stays illuminated after jumpstarted vehicle	1. Normal operation.	1. Press 12V or 24V output button until they turn off.



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