BATTERY BUTLER®
Battery Accessories

6 Volt Portable Battery Jump-Starter

Part # BBJS600

Distributed by
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CAREFULLY AND COMPLETELY READ THE CONTENTS OF THIS USER'S MANUAL BEFORE USING THIS PRODUCT!

CONTENTS

IMPORTANT NOTICE!!!

THIS MANUAL CONTAINS IMPORTANT INFORMATION REGARDING SAFETY, OPERATION, MAINTENANCE AND STORAGE OF THIS PRODUCT. BEFORE USING THIS PRODUCT, READ AND UNDERSTAND ALL CAUTIONS, WARNINGS, INSTRUCTIONS AND PRODUCT LABELS, PLUS YOUR VEHICLE'S BATTERY MANUFACTURER'S GUIDELINES. FAILURE TO DO SO COULD RESULT IN INJURY AND/OR PROPERTY DAMAGE.

1. SAFETY INFORMATION

WARNINGS: *WARNING STATEMENTS IDENTIFY CONDITIONS OR PRACTICES THAT MAY RESULT IN PERSONAL INJURY OR LOSS OF LIFE.*

1) When working with lead acid batteries, always make sure immediate assistance is available in case of accident or emergency.
2) Always use protective eyewear when using this product: contact with battery acid may cause blindness and/or severe burns, be aware of first aid procedures in case of accidental contact with battery acid.
3) There is a risk of explosive gases being released when lead acid batteries are being charged or discharged. Failure to follow instructions may cause property damage, explosive hazard, and/or personal injury.
4) Make sure the Safety Switch is OFF before connecting battery clamps to discharged battery. This will enable the polarity alarm to function.
5) When connecting the battery clamps to a discharged battery, and an alarm sounds, do NOT turn on the Safety Switch - the polarity is reversed. Interchange battery clamps before turning the Safety Switch ON.
6) When charging unit from a 110/120 volt AC electrical outlet in any wet or damp area, make sure that the outlet used is protected by a ground fault interrupt (GFI) switch.
7) When charging the unit near water, do not allow the electrical cords and outlets to get wet or come near water-electrical shack could result.
8) Jump-start procedures should only be performed in a safe, dry, well-ventilated area.
9) Always store battery clamps in built-in holsters when not in use. Never touch battery clamps together. This can cause dangerous sparks, power arcing, and/or explosion.
10) When using this unit in proximity to the vehicle's battery and engine, stand the unit on a flat, stable surface, and be sure to keep all clamps, cords, clothing and body parts away from moving vehicle components.
11) Do not wear vinyl clothing when jump-starting a vehicle-friction can cause dangerous static electricity sparks. Remove all jewelry or metal objects that could cause short circuits or react with battery acid.
12) Always disconnect the negative (Black) jumper cable first followed by the positive (Red) jumper cable.
13) Never allow red and black clamps to touch each other or another common metal conductor. This could cause damage to-the unit and/or create sparking/explosion hazard. Always store battery clamps in built-in holsters when not in use.
14) Do not expose battery to fire or intense heat as it may explode. Before disposing of the battery, protect exposed terminals with heavy-duty electrical tape to prevent shorting (shorting can result in injury or fire).
15) Do not smoke, use matches or cigarette lighters while working on a vehicle's battery system.
16) Keep unit out of reach of children (whether stored, or in use)!

1.1 FIRST AID:

• **SKIN:** If battery acid comes in contact with skin, rinse immediately with water, then wash thoroughly with soap and water. If redness, pain, or irritation occurs, seek immediate medical attention.

• **EYES:** If battery acid comes in contact with eyes, flush eyes immediately for a minimum of 15 minutes. Seek immediate medical attention.

CAUTIONS:

Caution statements advise against certain conditions and practices that may result in damage to vehicles, appliances and/or the Portable Jump-Starter.

1) Use only the supplied transformer and cords for recharging this unit. Do not recharge for more than 3-4 hours maximum using 12 volt DC method. Recharge unit after each use.
2) All On/Off switches should be in the OFF position when the unit is charging or not in use. Make sure all switches are in the OFF position before connection to a power source or load.
3) Never insert anything other than the supplied power/recharging cords or recommended appliance power/recharging cords into the recharge port of this unit. Do not use any accessory that is not recommended or provided by the manufacturer.
5) This jump-starter is designed to be used only on vehicles with 6 volt DC battery systems. Do not connect battery clamps to a 12 or 24 volt battery system.
6) This system is not designed to be used as a replacement for a vehicular battery. Do not attempt to operate a vehicle that does not have a battery installed.
7) Vehicles that have on-board computerized systems may be damaged if vehicle battery is jump-started. Before jump-starting, read the vehicle's owner`s manual to confirm that external-starting assistance is advised.
8) Excessive engine cranking can damage a vehicle's starter motor. If the engine fails to start after the recommended number of attempts, discontinue jump-start procedure and look for other problems that may need to be corrected.
9) Although this unit contains a non-spillable battery, it is recommended that unit be kept upright during storage, use and recharging. To avoid possible damage that may shorten the units working life, protect it from direct sunlight, direct heat and/or moisture.
10) Do not attempt to jump-start a frozen battery.
11) Never submerge this unit in water.
12) All wires, cables and cords must be positioned so that they can not be accidentally moved, tripped over or damaged by moving parts, by pinching or abraiding.

2. INTRODUCTION

The Battery Butler® BBJS600 Jump-Starter can jump-start most vehicles with a standard 6 volt DC electrical system. As with all jump-starters available today, this unit is designed to assist a vehicle's weak battery; a battery that may be too weak to start a vehicle, but one that is not completely without charge. This jump-starter is not designed to replace your vehicle's existing battery.

The Battery Butler® BBJS600 Jump-Starter is extra safe as compared to other jump-starters because it has a Power Safety On/Off Switch and a self-contained Audible Polarity Alarm that sounds when the cable clamps are connected to incorrect polarity.

Please read this guide carefully before use to ensure optimum performance and to avoid damage to the system or items that you are using it with.

The built-in Work Light is invaluable when it becomes necessary to locate battery terminals while preparing to jump-start a weak battery in the dark.

This unit also has an easy-to-read, series of red LEDs (Light Emitting Diodes) arranged as a charge status display that shows the level of charge in the battery (from Low to Full). The LED Display Status activates whenever the Battery Status Pushbutton is pressed, or automatically during the recharge operation.

The colors of the three display status LEDs are two red and one green. During recharge, the LED Display Status is active to indicate the level of charge on the battery. The left most red LED indicates minimum charge on the battery. Recharge the battery when a single LED is the only one that lights. The center LED indicates moderate charge on the battery. The green LED on the right indicates when the battery is FULL.. At this point you can stop charging.

To the left of the three LEDs is a Battery Status Pushbutton. Pressing the pushbutton turns on the LED Display Status. The pushbutton is pressed to check the battery level at any time. During recharge this display is automatically active.

The Power Safety Switch is located on the upper right side of the unit. When the Power Safety Switch is in the OFF position, the cable clamps are not powered and the Audible Polarity Alarm is ready to sound if the clamps are connected to incorrect polarity.

Below the Power Safety Switch is the 12 volt Recharge Port. It is covered by a rubber cap that keeps dust, dirt, and moisture out of the socket. The recharger's connector plugs into this port during recharge.

The recharge port allows for recharge from either the supplied a 110 volt wall transformer or a vehicle's 12 volt power plug socket.

To the left of the Battery Status Pushbutton is a work light. This provides the user with light while changing a tire, connecting battery clamps, etc. The work light is a long lasting lamp and will continuously operate for 10 hours from a fully charged battery. To the left of the work light is the ON/OFF rocker switch that controls operation of the work light.

FIGURE 1:

KEY FEATURES:

- Jump-Starter for most batteries of engines with a standard 6 volt DC battery system. Ideal for older cars, tractors, etc.
- Work Light illuminates area while jump-starting vehicle, under the hood, changing tires, inside tents, during power failure, etc.
- Powerful 410 peak and 205 amp CCA (Cold Cranking Amp) Current.
- Non-Spillable, Maintenance-Free, 12 amp hour sealed lead-acid Battery.
- Industrial Grade Heavy-Duty Cables & Clamps rated at 250 amps
- 4 Gauge Jumper Cables with exclusive Cable Storage Routing Channels that keep jumper cables out of the way until they are needed.
- On/Off Safety Power Switch (no key required, no key to get lost!)
- Audible Polarity Alarm that sounds when cable clamps are connected to incorrect polarity.
- Easy-to-Read battery LED Display Status activated by pressing the Battery Status Pushbutton and automatically activated during 110 volt AC recharge.
- Cordless / Rechargeable internal battery is a non-spillable, maintenance-free, 6 volt, 12 amp hour sealed lead-acid battery.
- Recharges from Standard 110 volt AC Wall Socket (adapter included)
- Recharges from Vehicle's 12 volt DC Accessory/Power Outlet (adapter cable included - see Figures 2A & 2B).
- Requires No Maintenance (other than recharging).
- 1 Year Limited Warranty.

IMPORTANT:
Although this unit is delivered in a partially-charged state, you must fully charge it with the supplied 110/120 volt AC wall charger for a full 24 hours before using it for the first time. You can not overcharge the Jump-Starter using the AC charging method. Refer to Sections 4.1 and 4.2 for use of 110 Volt AC or 12 Volt DC Recharge Adapters.

3. USE AS PORTABLE JUMP-STARTER

3.1 JUMP-STARTER WARNINGS

1. There is a risk of explosive gas being released when batteries ore improperly charged of discharged. Failure to follow instructions may cause properly damage, explosion hazard, and/or personal injury.
2. Do not smoke while jump-starting.
3. Only attempt to jump-start a vehicle in a well ventilated area.
4. This power system is to be used ONLY on vehicles with 6 volt DC battery system.
5. Do not attempt to jump-start a frozen battery.
6. Do not wear vinyl clothing when jump-starting a vehicle. Friction can cause dangerous static electricity, resulting in sparks.
7. Remove all metal jewelry. This can cause short circuits. Always use protective eyewear when jump-starting. Contact with battery acid may cause blindness and/or severe burns.
8. Never touch red and black clamps together. This can cause dangerous sparks, power arcing, and/or explosion.
9. After use as jump-starter, turn OFF Power Safely Switch. Keep out of reach of children.
10. Vehicles that have on-board computer systems may be damaged if vehicle's battery is jump-started. Before jump-starting this type of vehicle, read the vehicle owner's manual to confirm that external-starting assistance is advised.
11. Always begin the jump-starting process with Power Safety Switch turned OFF. This allows the polarity alarm to sound if reverse (incorrect) polarity connection is made.

WARNING: If Reverse Polarity Alarm sounds, reverse the cable clamp connections.

12. Excessive engine cranking can damage the vehicle's starter motor. If the engine fails to start after the recommended number of attempts, discontinue jump-start procedure and look (or other problems that may need to be corrected).
13. Only if vehicle to be started has a Positive Grounded System (positive battery terminal is connected to chassis), replace steps 9 and 10 of the jump-start procedure (to follow) with the following steps A and B, and then proceed to step 11.
    A. Connect Negative (-) Black clamp to vehicle battery's negative terminal.
    B. Connect Positive (+) Red clamp to vehicle chassis or a solid, non-moving, metal vehicle component or body part. DO NOT clamp directly to positive battery terminal or moving parts.

3.2 JUMP-START PROCEDURE (refer to Figure 1)

1. Turn off ignition and all accessories (radio, a/c, lights, cell phone, etc). If vehicle, place transmission in "park" and set the emergency brake.

2. **Make sure the unit's Power Safety Switch is turned OFF.**

3. Observe jump-starting negative or positive ground system, as follows: Negative ground (negative battery terminal connected to chassis) - this is the most common.

4. Squeeze negative (black) clamp handle and remove it from the Cable Clamp Storage Holster.

5. Carefully lift negative (black) jumper cable wire from Cable Storage Routing Channel, (below unit), starting of clamp end of cable.

6. Squeeze positive (red) clamp handle and remove it from the Cable Clamp Storage Holster.

7. Carefully lift positive (red) jumper cable wire from Cable Storage Routing Channel, (below unit), starting of clamp end of cable.

8. Connect **Positive (+) Red** clamp to vehicle's positive battery terminal.

9. Connect **Negative (-) Black** clamp to chassis or a solid, non-moving, metal vehicle component or chassis part. Never clamp directly to negative battery terminal or moving part.

WARNING: If reverse polarity alarm sounds, DO NOT TURN ON SAFETY SWITCH. Change (swap) positions of Red and Black clamps. When proper polarity connection is mode, the alarm will not sound - continue with next step.

10. Turn ON jump-starter's Power Safety Switch.

11. Start vehicle (crank engine in 5 - 6 second bursts). If engine won't start, seek help and go to step 14.

12. After vehicle starts, turn unit's Power Safety Switch to OFF position.

13. Leave engine running.

14. Remove clamps. First, disconnect the clamp connected to the engine or chassis, followed by the clamp connected to the battery.

15. Carefully press negative (black) jumper cable wire into Cable Storage Routing Channel starting at end away from the clamp.

16. Squeeze negative (black) clamp handles and slide clamp into side holster.

17. Carefully press positive (red) jumper cable wire into Cable Storage Routing Channel starting at end away from the clamp.

18. Squeeze positive (red) clamp handles and slide clamp into side holster.

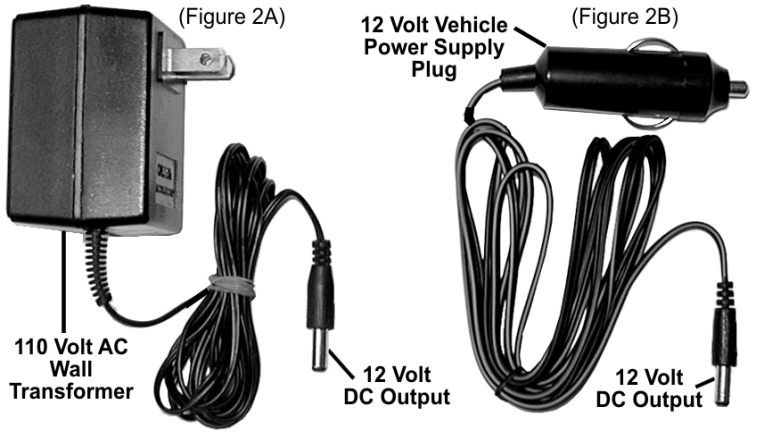
19. Recharge Jump-Starter as soon as possible.

4. CHARGING / RECHARGING

Lead-acid batteries require maintenance to maintain a full charge and to ensure good battery life. All batteries lose energy from self-discharge over time and more rapidly when they are at higher temperatures. Therefore, batteries need periodic charging to replace energy lost through self-discharge When this jump-starter is not in use, for maximum performance and battery life, we recommend that the jump-starter's internal battery be recharged every 30-60 days.

All batteries must be recharged as soon as possible after each use. If a jump-starter's battery remains in a discharged state, battery life will be significantly reduced. **NOTE:** Recharging battery after each use will prolong battery life. Frequent heavy discharges between recharges or overcharging the unit will reduce battery life.

The battery can be recharged using an AC wall adapter or DC vehicle adapter.



Check the battery charge level pressing the Battery Status Pushbutton. The LED Display Status will indicate the level of charge in the main battery. When only one red LED lights, be sure to recharge the unit.

4.1 AC RECHARGE (110 Volt Wall Transformer)

The 110 volt AC Recharge Adapter (wall transformer) is a UL approved and operates from any 110 volt 60 Hz AC supply. The wire has a connector that plugs into the Recharge Port to recharge the internal battery. See Figure 2A.

Make sure that the Safety Switch and the Work light are turned OFF during AC recharge. When a powered AC recharge adapter's plug is inserted into the Jump-Starter's Recharge Port, the LED Display Status will automatically activate. As recharge progresses, the red LEDs will light one by one. Charge the unit until the LED Display Status lights or flashes the GREEN (fully charged) LED. At this point, continue to recharge for one or two hours, then disconnect the AC Recharge Adapter. AC recharge system is an automatic taper charge and the AC Recharge Adapter can remain connected to the main unit for long periods. See Figure 1 for the AC Recharge Port location of the jump-starter.

4.2 DC RECHARGE (12 Volt)

Recharging the jump-starter from an external 12 volt DC power source requires the use of the supplied DC recharge cable. See Figure 2B.

MAKE SURE POWER SAFETY SWITCH AND WORK LIGHT ARE TURNED OFF DURING RECHARGE, THIS MAY SLOW RECHARGE OF THE MAIN BATTERY.

The 12 volt DC Recharge method automatically activates the LED Display Status and provides a taper charge. This jump-starter is protected to prevent overcharging. If the jump-starter's battery is fully discharged, it is recommended that the host vehicle's engine being used for recharging be left operating while the unit is being charged using the 12 volt DC method.

NOTE: The 12 volt DC recharge method will recharge the unit's battery, but the green LED may not light if the charging source is below 12.6 volts. 110 volt AC recharge is the best method.

WARNING: DO NOT LEAVE UNIT UNATTENDED WHILE DC CHARGING.

1. Insert the Plug of the 12 volt DC Recharge Adapter into the Recharge Port on the unit.
2. Plug the other DC Plug into a vehicles cigarette lighter or accessory socket or other 12 volt DC source.
3. Charge the unit until the green CHARGED indicator is lit.

5. LAMP REPLACEMENT

You will need a small Phillips head type screwdriver and a "PR type" 6 volt, 3 watt, 0.5 ampere bulb.

I . Make sure the Work Light /area light is turned off.
2. Remove the two Phillips type screws (turn counter-clockwise).
3. Liftoff lens and set it aside.
4. Using the clean cloth, rotate the burned out bulb until the bulb is in the position where the reflector has a triangular gap.
5. Lift the bulb straight out.

NOTE: DO NOT USE ANY METAL TOOLS TO REMOVE OR REPLACE BULB

6. Carefully replace with a new bulb, “PR” type, 6 volt 0.5 amp bulb.
7. Rotate a bulb so the triangle gap and bulb are not align
8. Snap the lens into place a replace the two screws.
9. Turn screws clockwise to tighten, being careful NOT TO OVER-TIGHTEN.

6. BATTERY DISPOSAL

Contains a maintenance-free, sealed, non-spillable lead acid battery, which must be disposed of properly. Recycling is required - contact your local authority for information. Failure to comply with local, state and federal regulations can result in fines, or imprisonment.

BATTERY DISPOSAL WARNINGS

- Do not dispose of the battery in fire as this may result in an explosion.
- Before disposing of the battery, protect exposed terminals with heavy-duty electrical tape to prevent shorting (shorting can result in injury or fire)
- Do not expose battery to fire or intense heat as it may explode.

7. SPECIFICATIONS

Peak Current	410 Amps
CCA Cranking Current	205 Amps
Battery - High Density AGM	6 Volt, 12 Amp Hour, Sealed Lead-Acid
Jump-Start Clamps	400 Amps - Heavy Duty Copper
Jumper Cables	4 Gauge Welding Cable
Work Light Bulb	6 Volt, 3 watt, 0.5 Amp

Battery Butler® 6 Volt Portable Battery Jump Starter (Part #BBJS600) features:

- **Jump Starter** for most batteries of engines with a standard 6 Volt DC battery system. Ideal for older cars, tractors, etc.
- **Powerful 410 Peak Amps** & **205 CCA** (Cold Cranking Amp) **Current**
- **Work Light** Illuminate areas while jumping vehicle, under the hood, changing tires, during power outages, camping, inside tents, etc.
- **Cordless / Rechargeable** internal battery is a non-spillable, maintenance-free, 12 amp hour sealed lead-acid battery.
- **Industrial Grade Heavy-Duty Cables & Clamps** rated at 250 amps.
- **4 Gauge Jumper Cables** with exclusive **Cable Storage Channels** that keep jumper cables out of the way until they are needed.
- **ON/OFF Safety Power Switch** (no key required, no key to get lost!)
- **Audible Polarity Alarm** that sounds when cable clamps are connected to incorrect polarity.
- **Easy-to-Read LED Battery Charge Status Display** activated by pressing the Charge Status Button and automatically activated during recharge.
- **Recharges from Standard 110 Volt AC Wall Socket** (adapter included).
- **Recharges from Vehicle's 12 Volt DC Accessory Outlet** (adapter cable included).
- **Requires No Maintenance** (other than recharging).
- **1 Year Limited Warranty**.

WARRANTY: Lectric Limited, Inc. warrants that for one (1) year from date of purchase, with proof of purchase, it will replace this product if found to be defective in materials or workmanship, when used as directed. Return it postage prepaid to Lectric Limited, Inc. for a prompt, no charge replacement with a current equivalent. This replacement is Lectric Limited, Inc's sole obligation under this warranty. Lectric Limited, Inc. will not be responsible for any incidental or consequential damages or for any loss arising in connection with the use, misuse, or inability to use this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty excludes defects or damage due to misuse, abuse, or neglect. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

PLEASE READ THE FOLLOWING CAREFULLY: Do not attempt to repair or replace parts in or of this product, or attempt to modify this product in any way from its original form. The buyer assumes all risk and liability arising out of his or her repair, parts replacement or modification to the original product or arising out of his or her installation of this product.