

Battery Replacement/Disposal

It is recommended that the unit be returned to manufacturer for battery replacement. Contact Customer Service, toll-free, at (800) 618-5178.

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. For more information on recycling this battery, call toll-free (877) 288-7722.



⚠ 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.

SPECIFICATIONS

Model:	VEC012CBD
Boost Ampere:	450 instantaneous cranking amps
Battery Type:	Sealed, high energy density, AGM, lead-acid, rechargeable, maintenance-free, 12 volt DC
Area Light:	Light Emitting Diode (LED)
Booster Cables:	Heavy duty welding cable with 450 Amp copper clamps
Accessory Outlet:	Self-resetting breaker 5 amps
DC Charging Adapter:	12 volt DC
AC Charging Adapter:	120 volt AC (700mA, 12 volt DC output)



Jump-Starter/Inflator

With 12 Volt DC Power Supply

KEY FEATURES:

- *Jump-start any engine system with a standard 12 volt DC battery*
- *Easy-to-read series of LED charge indicators*
- *Jump-Start System can be recharged from any standard 110/120 volt AC power source*
- *Built-in Emergency Area Light*



**BEFORE RETURNING THIS PRODUCT
FOR ANY REASON PLEASE CALL**

1-877-571-2391

BEFORE YOU CALL, HAVE THE CATALOG No
AVAILABLE IN MOST CASES A REPRESENTATIVE
CAN RESOLVE THE PROBLEM OVER THE PHONE.

SAVE THIS MANUAL FOR FUTURE REFERENCE.

IMPORTANT SAFETY INSTRUCTIONS

Personal Safety

1. Before using this system to jump-start any vehicle or boat, read and understand all instructions, safety tips, warnings, cautions and first aid information provided in this manual and on the product labeling. Additional important information may also be provided by the vehicle's battery system manufacturer.
2. Be aware of first aid procedures before attempting jump-start procedure.
3. When working with lead acid batteries, always make sure immediate assistance is available in case of accident or emergency.
4. 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.
5. 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.
6. When connecting the battery clamps to a discharged battery, and an alarm sounds — the polarity is reversed.
7. When charging unit from a 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.
8. When charging the unit near water, do not allow the electrical cords and outlets to get wet or come near water — electrical shock could result.
9. Jump-start procedures should only be performed in a safe, dry, well-ventilated area.
10. Always store battery clamps on clamp tabs when not in use. Never touch battery clamps together, this can cause dangerous sparks, power arcing and/or explosion.
11. 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.
12. 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.
13. Always disconnect the NEGATIVE (BLACK) jumper cable first: followed by the POSITIVE (RED) jumper cable, except for POSITIVE ground systems.
14. 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 a sparking/explosion hazard. Always store battery clamps on built-in clamp tabs when not in use.
15. 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, which can result in injury or fire.
16. Do not smoke or use inflammable items (matches, cigarette lighters, etc.) while working on a vehicle's battery system.
17. Keep unit out of reach of children (whether stored or in use)!
18. Lead-acid batteries generate hydrogen gas during normal operation. More gas is generated when the battery is charging. Hydrogen gas is explosive, poisonous to breathe and highly flammable.
19. DO NOT ATTEMPT TO JUMP-START A FROZEN BATTERY.

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.

Unit Safety

1. Use only the supplied cords/adapters 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 12 volt DC charging/power outlet on this unit. Do not use any accessory that is not recommended or provided by the manufacturer.
4. Do not use this unit to operate appliances that draw more than 5 amps.
5. This system is designed to be used only on vehicles with 12 volt DC battery systems. Do not connect to a 6 volt 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 users 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 procedures 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 unit's working life, protect it from direct sunlight, direct heat and/or moisture.
10. Check unit periodically for wear and tear. Replace worn or defective parts immediately. Contact Customer Service, toll-free, at (800) 618-5178.
11. Never submerge this unit in water.
12. DO NOT over-inflate tires.

SAVE THESE INSTRUCTIONS

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INTRODUCTION

Thank you for choosing the **Black & Decker Jump-Starter**. This compact jump-starter is unique in the amount of energy it can supply for its size. The internal battery is a high density sealed, lead-acid battery that stores and delivers energy comparable to full sized ordinary jump-starters. Please read this guide carefully before use to ensure optimum performance and avoid damage to the unit or items that you are using it with.

The **Black & Decker Jump-Starter** is a compact, durable, portable jump-start system for vehicles and boats that have a standard 12 volt battery system. This self-contained, rechargeable system will start most vehicles and boats without the need for a host vehicle or 120 volt AC power supply. It can also be used as a safe, portable source of 12 volt DC electric power in remote locations and/or emergency situations. It is ideal for use with 12 volt DC cordless, portable, rechargeable products and DC/AC power inverters.

FEATURES

The Jump-Starter has an easy-to-read series of LED (Light Emitting Diode) charge indicators that show the level of charge in the battery. Charge level can be viewed when the Battery Level Status pushbutton is pressed. A 12 volt DC accessory outlet is provided for use with appliances that can operate from a vehicle's 12 volt DC accessory outlet. This allows maximum portability and utility when the Jump-Starter is used in remote locations.

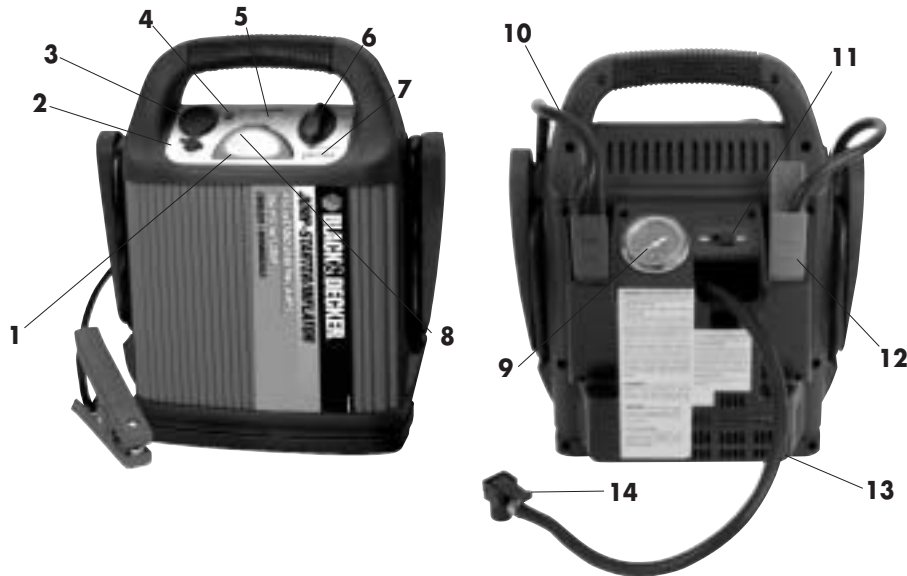
The Jump-Starter can be recharged from any standard 120 volt AC power source using the supplied AC Recharge Adapter. The adapter barrel connector attaches to the Recharge Port on the top right (Figure 1) of the jump-starter. A built-in 12 volt appliance outlet and the appropriate DC/DC charging/adapter cord is used to

recharge the battery from another 12 volt DC source. When pressed, the Battery Level Status pushbutton will show the battery level status (from LOW to HIGH). The green LED (HIGH) indicator illuminates when the unit is fully recharged and charging can be discontinued. An ON/OFF pushbutton operates the built-in emergency area light.

Additional Features

- Includes a non-spillable, maintenance-free, heavy-duty, sealed battery
- Sturdy and unique compact design provides portable 12 volt DC power
- Safe to use, transport and store
- Requires no maintenance (other than recharging) for optimum operation
- Automatic taper charge for AC recharge
- Molded high-impact case is tough and durable
- Built-in emergency area light for roadside repairs and use in remote locations without utility power

Figure 1



Front View

1. Built-in LED Emergency Area Light
2. AC Recharge Adapter Barrel Connector Receptacle
3. 12 Volt DC Outlet
4. Battery Charge Level Status pushbutton
5. LED Battery Charge Level Indicator
6. ON/OFF Safety Power Switch
7. Reverse Polarity Indicator

Back View

8. ON/OFF Area Light Switch
9. Pressure Gauge
10. NEGATIVE (-) BLACK Clamp
11. ON/OFF Compressor Switch
12. POSITIVE (+) RED Clamp
13. Air Hose
14. Connector (Chuck)

Figure 2



Applications

- Jump-start most vehicle batteries with a standard 12 volt DC system: boat, small truck, car, airplane, RV, personal watercraft, snowmobile, tractor, etc.
- Operate (using 5-amp rated 12 volt DC accessory outlet): 12 volt DC fans, fluorescent worklights, air compressors, spotlights, TVs, portable radios, cassette or CD players, and more. The unit can quick-charge a cellular phone by using the phone's 12 volt DC adapter cord.
- Illuminate areas under the hood, inside tents and work areas.
- Inflate (using compressor/inflator) bicycle tires, air mattresses, basketballs, volleyballs, and more.

USING THE UNIT AS A JUMP-STARTER

This jump-starter is equipped with a manual safety switch that only allows jump-start energy to flow when proper connections are made to battery and frame. Once the connections are properly made, turn the switch ON and you are ready to jump-start the vehicle.

1. Turn OFF vehicle ignition and all accessories (radio, A/C, lights, cell phone, etc.). Place vehicle in "park" and set the emergency brake.
2. Make sure jump-start system's ON/OFF power switch is turned to OFF.
3. Remove jumper clamps from clamp tabs. **Connect the red clamp first, then the black clamp.**
4. Procedure for jump-starting a NEGATIVE GROUNDED SYSTEM NEGATIVE BATTERY TERMINAL IS CONNECTED TO CHASSIS, (MOST COMMON)
 - 4a. Connect POSITIVE (+) RED clamp to vehicle battery's POSITIVE terminal.
 - 4b. Connect NEGATIVE (-) BLACK clamp to chassis or a solid, non-moving, metal vehicle component or body part. Never clamp directly to NEGATIVE battery terminal or moving part.
5. Procedure for jump-starting POSITIVE GROUND SYSTEMS

Note: In the rare event that the vehicle to be started has a Positive Grounded System (positive battery terminal is connected to chassis), replace steps 4a and 4b above with steps 5a and 5b, then proceed to step 6.

- 5a. Connect NEGATIVE (-) BLACK clamp to vehicle battery's NEGATIVE terminal.
- 5b. 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 PART.
6. Start vehicle (do not turn key for longer than 5-6 seconds).
7. After vehicle starts, remove clamps (**disconnect the black clamp first, then the red clamp**) and replace them on the built-in clamp tabs. Squeeze the handles and slide the clamp into position and release your grip.

⚠ CAUTIONS

- If engine fails to start, leave ignition key turned off and disconnect the negative (-) clamp first, then the positive (+) clamp. Try again later – the engine may be flooded.
- Recharge jump-start system fully after each use.

USING THE UNIT AS A 12 VOLT DC PORTABLE POWER SUPPLY

This portable power source is also for use with all 12 volt DC accessories equipped with a male accessory outlet plug and are rated up to 5 amps.

1. Lift up the cover of the unit 's 12 volt DC outlet.
2. Insert the 12 volt DC plug from the appliance into the 12 volt accessory outlet on the unit. **DO NOT EXCEED A 5-AMP LOAD.**
3. Switch on the appliance and operate as usual.
4. Periodically press the battery charge level button to check battery status.

Estimated 12 Volt DC Operation Time (When Using a Fully Charged System)

Appliance	Estimated Power Usage (Watts)	Operating Time (hours)
Cell phone	1	120 (talk time)
Fluorescent light	4	40
Radio, fan, depth finder	9	24
Camcorder, VCR, spotlight	15	14
Power tools, bilge pump	24	10
Car vacuum	80	2

Note: All times are approximate and based upon a fully charged unit.

USING THE UNIT AS AN EMERGENCY AREA LIGHT

The area light is controlled by an ON/OFF switch. Make sure the lamp is turned OFF when the unit is being recharged or stored. The area light is efficient and will operate up to 114 hours on a full charge. The area light's operating life is 100,000 hours.

USING THE UNIT AS A PORTABLE INFLATOR

The built-in 12 volt DC inflator is the ultimate inflator for all vehicles, trailer tires and recreational inflatables. Three different sized nozzles are supplied. Each nozzle will clip on the end of the standard tire valve connector located at the free end of the inflator hose. The inflator nozzles are stored inside the hose hatch. The inflator hose with tire fitting is stored in a retaining channel between the jumper cable channels on the rear of the unit. The ON/OFF Switch is located on the back of the Main Unit. The inflator can operate long enough to fill up to 3 average sized tires before the battery must be recharged.

The inflator may be used by removing the air hose from the storage hatch and if required, fitting an appropriate nozzle to the air hose. An On/Off switch located on the back of the unit controls the power to the inflator and the gauge light. Refer to Figure 1 for locations of inflator hose and nozzle storage hatch. Return hose to the storage compartment after use.

⚠ WARNINGS

- The inflator is capable of inflating up to 260 pounds per square inch (psi) pressure. To avoid over-inflation, carefully follow instructions on articles to be inflated. Never exceed recommended pressures. Bursting articles can cause serious injury.
- Always check pressure with the pressure gauge.
- Never leave the inflator unattended while in use.
- Allow unit to cool after 10 minutes of continuous operation.

Inflating Tires or Products With Valve Stems

1. Place connector (chuck) on valve stem.
2. Ensure connector is pushed on to valve stem as far as possible before closing thumb latch.
3. Make sure latch is secure.
4. Turn ON the Inflator Power Switch.
5. Check pressure with the pressure gauge.
6. When desired pressure is reached, open thumb latch and remove connector from valve stem.
7. Turn OFF Inflator Power Switch.
8. Allow unit to cool before storing away.
9. Store inflator hose and tire fitting in storage compartment.

Inflating Other Inflatables Without Valve Stems

Inflation of other items requires use of one of the adapters (nozzles).

1. Select the appropriate nozzle, located on the inside back cover.
2. Insert appropriate adapter (i.e. needle) into connector (chuck) and close thumb latch.
3. Refer to "Typical Inflation Times" for approximate pressure and time. Small items such as volleyballs, footballs, etc. inflate very rapidly.
4. Insert adapter (i.e., needle) into item to inflate to appropriate pressure.
5. Turn ON the Inflator Power Switch – inflate to desired pressure or fullness.
6. Remove adapter.
7. Switch the Inflator Power Switch OFF.
8. Recharge the unit before storing away.

Typical Inflation Times

	Inflation Pressure (PSI)	Filling Time
Vehicle and trailer tires		
155/80R 13"	26	2.5 min.
185/70R 14"	30	4.5 min.
235/75R 15"	30	6.5 min.
265/70R 17"	42	16 min.
Bicycle tires		
27 x 1" racing tires	10	40 sec.
Football	13	24 sec.
Basketball	9	20 sec.
Volleyball	5	6 sec.

CARE AND MAINTENANCE

This product has a sealed lead acid battery that should be kept fully charged. Recharge before first use, immediately after each use, and once a month if not used. Failure to do this may reduce the battery life dramatically.

Note: *This unit is delivered in a partially charged state – you must fully charge it before using it for the first time. Initial AC charge should be for 24 hours.*

Charging/Recharging

For maximum battery life, we recommend the Jump-Starter be kept fully charged at all times. If the battery is allowed to remain in a discharged state, battery life will be shortened.

Note: *Recharging battery after each use will prolong battery life; frequent heavy discharges between recharges and/or overcharging will reduce battery life.*

120 Volt AC Recharge

1. Plug the AC plug of the AC/DC adapter/charger into any standard 120 volt AC wall outlet.
2. Plug the barrel connector attached to the AC/DC adapter into the small barrel receptacle on the jump-starter.
3. After initial 24 hour charge, charge this device for at least 14-16 hours or until the green FULL indicator lights. Charge at least once a every month when not in use.
4. When charging is complete and the FULL light lights, remove the AC/DC charger plug and store in a safe place.

Note: *The unit cannot be overcharged using the AC method. The Jump-Starter also comes with a DC/DC charging adapter for recharging the unit from a vehicle's 12 volt DC accessory outlet.*

12 Volt DC Charging

This recharging method will NOT recharge the unit as effectively as recharging from a 120 volt AC outlet. The 12 volt DC recharging procedure is recommended only when it is necessary, as continued use of the 12 volt DC recharging procedure may shorten the battery system's life.

If unit is fully discharged, it is recommended that the vehicle being used for recharging be left running while the unit is being charged via the 12 volt DC method.

1. Insert one end of the DC/DC charging adapter into the 12 volt DC accessory outlet on the vehicle or boat.
2. Insert the plug at the other end of this charging adapter into recharging port on the front panel of the unit.
3. When charging is completed, remove the power cord and store in a safe place.

⚠ WARNING

Do not recharge for more than 3-4 hours maximum using the 12 volt DC method.

Replacement Parts

For replacement parts (bulbs, batteries, charging adapters, etc.), contact Technical Support, toll free at (800) 618-5178.

⚠ WARNING

Do not operate unit if there is any evidence of damage. The product must be returned to Black & Decker for testing and repair. Replace any damaged harging adapters immediately before further use.

Fuse Replacement

1. Remove the plug from the accessory receptacle. Remove the gold cap by turning counterclockwise and lifting off.
2. Remove the center pin and spring. Remove the fuse.
3. Replace the fuse with a same type and size fuse (8 amp).
4. Replace the center pin and spring inside the plug.
5. Replace the gold cap by turning clockwise onto the plug.