



TWO YEAR LIMITED WARRANTY PROGRAM

This limited warranty program is the only one that applies to this product, and it sets forth all the responsibilities of Vector Products, Inc., regarding this product. There is no other warranty, other than those described herein. Any implied warranty of merchantability or fitness for a particular purpose on this product is limited in duration to the duration of this warranty.

This Vector Products, Inc. product is warranted, to the original purchaser only, to be free of defects in materials and workmanship for two years from the date of purchase without additional charge. The warranty does not extend to subsequent purchasers or users. Manufacturer will not be responsible for any amount of damage in excess of the retail purchase price of the product under any circumstances. Incidental and consequential damages are specifically excluded from coverage under this warranty.

This product is not intended for commercial use. This warranty does not apply to damage to units from misuse or incorrect installation/connection. Misuse includes wiring or connecting to improper polarity power sources.

RETURN/REPAIR POLICY: Defective products may be returned to manufacturer. Any defective product that is returned to manufacturer within 30 days of the date of purchase will be replaced free of charge. If such a product is returned more than 30 days but less than two years from the purchase date, manufacturer will repair the unit or, at its option, replace it, free of charge.

If the unit is repaired, new or reconditioned replacement parts may be used, at manufacturer's option. A unit may be replaced with a new or reconditioned unit of the same or comparable design. The repaired or replaced unit will then be warranted under the terms of the remainder of the warranty period. The customer is responsible for the shipping charges on all returned items. During the warranty period, manufacturer will be responsible for the return shipping charges to the customer in the United States.

LIMITATIONS: This warranty does not cover accessories, such as charging adapters, bulbs, fuses and batteries, damage or defects resulting from normal wear and tear (including chips, scratches, abrasions, discoloration or fading due to usage or exposure to sunlight), accidents, damage during shipping to our service facility, alterations, unauthorized use or repair, neglect, misuse, abuse, failure to follow instructions for care and maintenance, fire, flood and Acts of God.

If your problem is not covered by this warranty, call our Technical Support Department toll free at (800) 618-5178 for general repair information and charges if applicable. You may also contact us through our website at www.vectormfg.com.

STATE LAW RIGHTS: This warranty gives you specific legal rights. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the exclusions or limitations stated herein may not apply. This warranty gives the purchaser specific legal rights; other rights, which vary from state to state, may apply.

TO REQUEST WARRANTY SERVICE FOR THIS PRODUCT: Contact Technical Support by telephone, fax or mail (see below). We suggest that you keep the original packaging in case you need to ship the unit. When returning a product, include your name, address, phone number, dated sales receipt (or copy) and a description of the reason for return and product serial number. After repairing or replacing the unit, we will make every effort to return it to you within four weeks.

WARRANTY ACTIVATION: Please complete Warranty Activation Card and mail to Vector Products, Inc., Enter "VEC1032BD" as Model and "STARTIT" Jump-Starter/Rechargeable Power Supply" as Product Type. All Vector products must be registered within 30 days of purchase to activate this warranty. Mail the completed registration form, along with a copy of the original sales receipt, to:

ATTN.: CUSTOMER SERVICE
4140 SW 30th Ave., Ft. Lauderdale, FL 33312
• TOLL FREE: (800) 618-5178 • FAX: (954) 584-5556 •

WARRANTY IS NON-TRANSFERABLE.

BD040506

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MADE IN CHINA

START-IT® Jump-Starter/ Rechargeable Power Supply



USER'S MANUAL & WARRANTY INFORMATION

IMPORTANT SAFETY INFORMATION, SAVE THESE INSTRUCTIONS

TO REDUCE THE RISK OF INJURY, USER MUST READ AND UNDERSTAND THIS INSTRUCTIONAL MANUAL. THIS MANUAL CONTAINS IMPORTANT INFORMATION REGARDING THE OPERATION AND WARRANTY OF THIS PRODUCT. PLEASE RETAIN FOR FUTURE REFERENCE.

4140 S.W. 30th Ave., Ft. Lauderdale, FL 33312 U.S.
Toll Free: (800) 618-5178

www.vectormfg.com

IMPORTANT SAFETY INSTRUCTIONS

WARNINGS

- 1. RISK OF EXPLOSIVE GAS MIXTURES — 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 EACH TIME BEFORE USING THIS UNIT, YOU READ THIS MANUAL AND FOLLOW THE INSTRUCTIONS EXACTLY.**
- 2. To reduce risk of battery explosion, follow these instructions and those published by the battery manufacturer and manufacturer of any equipment you intend to use in vicinity of battery. Review cautionary markings on these products and on engine.**
- 3. This equipment employs parts (switches, relays, etc.) that produce arcs or sparks. Therefore, if used in a garage or enclosed area, the unit MUST be placed not less than 18 inches above the floor.**

Battery Safety

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 releasing explosive gases when lead acid batteries are charged or discharged. Failure to follow instructions may cause property damage and/or personal injury.
4. When connecting the battery clamps to a discharged battery and an alarm sounds — the clamp connections are incorrect and need to be reversed.
5. Jump-start procedures should only be performed in a safe, dry, well-ventilated area.
6. Always store battery clamps on the clamp tabs on the back of the unit when not in use. Never touch battery clamps together. This can cause dangerous sparks, power arcing and/or explosion.
7. When using this unit close 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 parts.
8. Do not wear vinyl clothing when jump-starting a vehicle, friction can cause dangerous static-electrical sparks. Remove all jewelry or metal objects that could cause short circuits or react with battery acid.
9. 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.
10. a. For negative-grounded systems (most common), connect the POSITIVE (RED) clamp to the POSITIVE ungrounded battery post and the NEGATIVE (BLACK) clamp to the vehicle chassis or engine block away from the battery. Do not connect the clamp to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
b. For positive-grounded systems, connect the NEGATIVE (BLACK) clamp to the NEGATIVE ungrounded battery post and the POSITIVE (RED) clamp to the vehicle chassis or engine block away from the battery. Do not connect the clamp to the carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
11. Always disconnect the NEGATIVE (BLACK) jumper cable first, followed by the POSITIVE (RED) jumper cable, except for positive grounded systems.
12. Do not expose battery to fire or intense heat since 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).
13. Do not smoke or use flammable items (matches, cigarette lighters, etc.) while working on a vehicle's battery system.
14. DO NOT ATTEMPT TO JUMP-START A FROZEN BATTERY.
15. Place this unit as far away from the battery as DC cables permit.
16. Never allow battery acid to come in contact with this unit.
17. Vehicles that have on-board computerized systems may be damaged if vehicle battery is jump-started. Before jump-starting, read the vehicle's owners manual to confirm that external-starting assistance is suitable.

Personal Safety

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 and seek immediate medical attention.

CAUTIONS

- THIS UNIT IS DELIVERED IN A PARTIALLY CHARGED STATE – YOU MUST FULLY CHARGE IT USING THE 120 VOLT AC CHARGING METHOD FOR A MINIMUM OF 48 HOURS BEFORE USING IT FOR THE FIRST TIME.
 - Do not overcharge this unit using the 12 volt DC charging method. Charge for no longer than 5-6 hours using this method.
 - 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.
 - 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.
 - Do not use this unit to operate appliances that need more than 5 amps to operate from the 12 volt DC accessory outlet.
 - This system is designed to be used only on vehicles with a 12 volt DC battery system. Do not connect to a 6 volt or 24 volt battery system.
 - This system is not designed to be used as a replacement for a vehicle battery. Do not attempt to operate a vehicle that does not have a battery installed.
 - 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.
 - 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.
 - Check unit periodically for wear and tear. Contact the Customer Service Department at (800) 618-5178 to replace worn or defective parts.
 - Do not drop this unit as it may damage the product. If unit is dropped or damaged, please discontinue using it.
 - Never submerge this unit in water.
 - Store indoors. Do not operate unit in rain or snow, or use when wet.
 - Do not operate this unit in a closed area or restrict ventilation in any way.
 - Never insert a vehicle cigarette lighter into the unit's 12 Volt DC Accessory Outlet.
- THIS UNIT IS NOT FOR USE BY CHILDREN AND SHOULD ONLY BE OPERATED BY ADULTS.

Read This User's Manual Before Using This Unit.

SAVE THESE INSTRUCTIONS

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INTRODUCTION

Thank you for choosing the **Black & Decker START-IT® Jump-Starter/Rechargeable Power Supply**. 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/Rechargeable Power Supply** is a compact, durable, portable jump-start system for vehicles that have a standard 12 volt battery system. This self-contained, rechargeable system will start most vehicles 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

- Keyless ON/OFF Safety Power Switch
- Cordless/rechargeable, includes AC and DC Charging Adapters
- Reverse polarity protection
- Built-in non-spillable, maintenance-free, heavy duty, 19 Ah, sealed, lead-acid battery
- Requires no maintenance (other than recharging) for optimum operation
- Heavy duty, industrial grade copper clamps and #4 AWG jumper cables with exclusive recessed cable holsters

- 120 Volt AC Charging Adapter is UL listed
- Easy-to-read Battery Status LED Indicators
- Alternator Check
- ETL listed

Controls and Functions



Battery Charge Status Indicators

A series of four LED indicators (three red and one green) display the level of charge in the battery. The right red LED indicates minimum battery charge. Charge the battery when only a single red LED is lit. The center red LED indicates moderate battery charge level. When the green LED is lit, the battery is at full charge. The charge status LEDs will light when the Battery Charge Status Pushbutton is pressed, or automatically during 120 volt AC recharging. During DC recharging, the charge status pushbutton can be pressed periodically to monitor recharging progress.

12 Volt DC Outlet

This accessory outlet is provided for use with appliances that are 12 volt DC compatible. The 12 Volt DC Outlet also allows for DC recharging from a vehicle or other 12 volt DC power source.

120 Volt AC Recharge Port

Located just below the 12 Volt DC Accessory Outlet is the 120 Volt AC Recharge Port. The 120 Volt AC Charging Adapter's barrel connector plugs into this port to recharge the unit using any functioning standard North American household 120 volt AC outlet.

LED Area Light

Located in the center of the control panel, the LED Area Light provides proper lighting while changing a tire or connecting the unit to a battery.

Applications

- Jump-start most engines with standard 12 volt DC battery systems, such small trucks, cars, RVs, tractors, etc.
- Using the 12 Volt DC Accessory Outlet, operate such appliances as 12 volt DC fans, fluorescent worklights, air compressors, spotlights, TVs, portable radios,

cassette or CD players. The unit can quick-charge a cellular phone using a 12 volt DC recharging kit (not supplied).

- Illuminate areas under the hood, inside tents and work areas.

USING THE UNIT AS A JUMP-STARTER

This Jump-Starter is equipped with a Safety Power Switch that only allows energy to flow when proper connections are made to the battery and frame. Once the connections are properly made, turn the switch ON to jump-start the vehicle.

1. Turn OFF vehicle ignition and all accessories (radio, A/C, lights, connected cell phone chargers, etc.). Place vehicle in "park" and set the emergency brake.
2. Make sure the Jump-Starter Safety Power Switch is in the OFF position.
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 GROUNDED 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. NEVER CLAMP DIRECTLY TO POSITIVE BATTERY TERMINAL OR MOVING PART.
6. When clamps are connected properly, turn the Jump-Starter Power Switch to ON.
 7. Turn ON the ignition and crank the engine in 5-6 second bursts until engine starts.
 8. Turn the Jump-Starter Safety Power Switch back to the OFF position.
 9. Disconnect the NEGATIVE (-) engine or chassis clamp first, then disconnect the POSITIVE (+) battery clamp.

FOLLOW ALL DIRECTIONS FOUND IN THE IMPORTANT SAFETY INSTRUCTIONS SECTION AT THE BEGINNING OF THIS USER'S MANUAL.

⚠ WARNINGS

- **Jump-Starter Power Switch should be OFF prior to jump-starting.**
- **This power system is to be used ONLY on vehicles with 12 volt DC battery systems.**
- **Never touch RED and BLACK clamps together — this can cause dangerous sparks, power arcing, and/or explosion.**
- **Vehicles that have on-board computerized systems may be damaged if vehicle battery is jump-started. Before jump-starting this type of vehicle, read the vehicle manual to confirm that external-starting assistance is advised.**

- **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 for other problems that need to be corrected.**
- **After use, turn the Jump-Starter Power Switch OFF.**
- **Replace worn or defective parts immediately — contact the Customer Service Department toll free (800) 618-5178.**

⚠ CAUTIONS

- If the audible Reverse Connection Polarity Alarm sounds after clamps are connected to vehicle battery, turn the unit OFF and reverse clamp connections before continuing.
- If vehicle fails to start, turn OFF the ignition, turn OFF the Jump-Starter Power Switch, disconnect the jump-start system's leads and investigate why the engine did not start.
- Recharge this unit fully after each use.

USING THE ALTERNATOR CHECK FEATURE

1. Make sure the Jump-Starter Power Switch is turned to OFF.
2. Remove jumper clamps from clamp tabs and connect to vehicle (refer to the "Using the Jump-Starter" section for notes about polarity).
3. Start the engine.
4. Turn all vehicle accessories OFF.
5. Turn the Jump Starter Power Switch to ON.
6. Observe the Alternator Check Indicator. A solid green LED indicates a good alternator. A solid red LED indicates a bad alternator.

USING THE UNIT AS A 12 VOLT DC PORTABLE POWER SUPPLY

This portable power source can also be used with all 12 volt DC accessories equipped with a male accessory outlet plug that 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.
3. Switch on the appliance and operate as usual.
4. Periodically press the Battery Charge Level Pushbutton to check battery status.

⚠ CAUTION

Make sure that the Jump-Starter Power Switch is ALWAYS in the OFF position when using the unit's 12 Volt DC Outlet as an accessory outlet. DO NOT operate appliances that draw more than 5 amps.

⚠ WARNING

NEVER INSERT A CIGARETTE LIGHTER INTO THE UNIT'S ACCESSORY OUTLET.

USING THE LED AREA LIGHT

The LED Area Light in the center of the control panel is activated by the Area Light ON/OFF Pushbutton located on the lower right side of the control panel.

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 every 60 days if not used. Failure to do this may reduce battery life dramatically.

Note: This unit is delivered in a partially charged state - you must fully charge it using the 120 volt AC charging method for a minimum of 48 hours before using it for the first time.

Charging/Recharging

Lead-acid batteries require routine maintenance to ensure a full charge and long 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 the unit is not in use, Black & Decker recommends that the battery is recharged at least every 60 days.

Check the battery charge level by pressing the Battery Status Pushbutton. The LED charge status display will indicate the level of battery charge. When only one red LED lights, recharge the unit.

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

⚠ CAUTION

Make sure ON/OFF Power Switch and Area Light are turned OFF during recharge as this may slow recharge function.

120 Volt AC Charging/Recharging

The 120 Volt AC Charging Adapter is a UL listed "wall" type unit that operates from any 120 volt, 60 Hz AC supply that has a standard North American outlet. The adapter has a barrel connector that plugs into the unit's Recharge Port. (See "Controls and Functions" on page 2 for Recharge Port location.)

Make sure the Jump-Starter Safety Power Switch and Area Light Power Switch are turned OFF during AC charging. When the AC Charging Adapter is plugged into the Recharge Port, the Battery Charge Status Indicators will automatically activate. As charging progresses, the red LEDs will light, one by one. Charge the unit until the green FULL Battery Charge Status Indicator LED lights. Then disconnect the Charging Adapter.

The 120 volt AC recharge system is an automatic taper charge and can be left connected to the main unit for long periods.

12 Volt DC Charging/Recharging

Recharging the Jump-Starter from an external DC power source requires the use of the DC/DC adapter. This adapter has a male DC connector at each end.

Unlike the AC recharge method, DC recharge does NOT automatically activate the "battery status" display and provide a taper charge. Battery status can still be monitored by pressing the battery status level pushbutton.

⚠ WARNINGS

- **DO NOT charge using the 12 volt DC charging method for more than 5-6 hours maximum.**
- **DO NOT leave unattended while charging using this method.**

12 Volt DC Charging

See “Controls and Functions” on page 2 for 12 Volt DC Outlet location.

1. Insert the gold-tipped 12 Volt DC Charging Adapter plug into the vehicle's 12 volt DC accessory outlet.
2. Insert the silver-tipped end plug into the 12 Volt DC Outlet on the front panel of the unit.
3. Charge the unit until the green FULL Battery Status Level Indicator lights when the battery status level pushbutton is pressed. **DO NOT EXCEED 5-6 HOURS MAXIMUM USING THIS METHOD.**
4. When charging is completed, disconnect the 12 Volt DC Charging Adapter and store in a safe place.

Note: Make sure the ON/OFF Safety Power Switch and Area Light are turned OFF during recharging.

Replacement Parts

For replacement parts (fuses, batteries, charging adapters, etc.), contact Black & Decker Technical Support: toll free (800) 618-5178. There are no user serviceable parts inside the unit. Periodically, the cables and connectors should be inspected for damage, corrosion, dust, and dirt. If surfaces are dirty, they can be wiped clean with a cloth moistened with water and a drop of detergent. Contacts can be wiped clean with a dry cloth.

⚠ WARNING

Do not operate unit if there is any evidence of damage. Replace any damaged charging adapters immediately before further use. This unit contains no user-serviceable parts. It must be returned to Black & Decker for testing and repair.

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 (800) 822-8837.



⚠ 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.

TROUBLESHOOTING

Unit Fails to Jump-Start

- Make sure unit's power switch is in the ON position.
- Check that Jump-Starter has a full charge.
- Make sure a proper polarity cable connection has been established (see “Using the Unit as a Jump-Starter,” page 4).

12 Volt Outlet Fails to Deliver Power

- Make sure a proper 12 volt adapter connection has been established.
- Check that Jump-Starter has a full charge.

12 Volt Outlet Shuts Off

Disconnect unit and allow to cool for 10 minutes.

Note: When pulling more than 5 amps from the 12 volt outlet, unit will shut off.

LED Area Light Does Not Come On

- Check that Jump-Starter has a full charge.

SPECIFICATIONS

Boost Ampere:	450 instantaneous cranking amps
Battery Type:	Sealed, high energy density, AGM, lead-acid, rechargeable, maintenance-free, 12 volt DC, 19 Ah
Area Light:	Light Emitting Diode (LED)
Booster Cables:	#4 AWG heavy duty welding cable with industrial grade 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)