

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 manufacturer, regarding this product. There is no other warranty, other than those described herein.

This Vector Manufacturing 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 accessories or damage to units from misuse or incorrect installation. Misuse includes wiring or connecting to improper polarity power sources.

RETURN/REPAIR POLICY: Defective products, other than accessories, may be returned postage prepaid to manufacturer. Any defective product, other than accessories, 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 after 30 days. During the warranty period, manufacturer will be responsible for the return shipping charges.

LIMITATIONS: This warranty does not cover accessories, bulbs, fuses and batteries, 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 Technical Support 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 Manufacturing. Enter "VEC1026BD" as Model and "Electromate 250" 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 AND NON-REFUNDABLE.

BD050205

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MADE IN CHINA


ELECTROMATE 250

**AC/DC Portable Power Supply
Jump- Starter
Cordless • Rechargeable**



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 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 YOUR CHARGER, 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 detached from 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, 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. Whether stored or in use, keep this unit out of reach of children.
15. Do not operate charger in rain or snow, nor use when wet.
16. **DO NOT ATTEMPT TO JUMP-START A FROZEN BATTERY.**
17. When using an extension cord, make sure it has the same configuration as the plug of the unit and the cord is properly wired and in good electrical condition. This cord needs to be suitable for 120 volt AC and have a minimum 2 amp rating.
18. Place this unit as far away from the battery as DC cables permit.
19. Never allow battery acid to come in contact with this unit.
20. Do not operate this unit in a closed area or restrict ventilation in any way.

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.

IMPORTANT

This unit is delivered in a partially charged state. Fully charge unit with the supplied 120 volt AC charger for a full 40 hours before using for the first time. You cannot overcharge the unit using the AC charger method.

1. Use a common household extension cord for charging (not supplied).
2. Do not recharge for more than 3-4 hours maximum using the 12 volt DC method. Recharge unit after each use.
3. 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.
4. 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.
5. Do not use this unit to operate appliances that need more than 5 amps to operate from the 12 volt DC accessory outlet.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. Check unit periodically for wear and tear. Take to a qualified technician for replacement of worn or defective parts immediately.
12. **NEVER** submerge this unit in water.

SAVE THESE INSTRUCTIONS

TABLE OF CONTENTS

Introduction	1
Features	1
Protective Features	2
AC and DC Charging/Recharging	3
Viewing Battery Charge Status	3
120 Volt AC Charging	3
12 Volt DC Charging	3
Using the Electromate as a Jump-Starter	4
Using the Alternator Check Feature	5
Using the 12 Volt Portable Power Supply	5
Using the 120 Volt AC Power Supply	5
Using the Emergency Area Light	6
Care and Maintenance	6
Replacement Parts	6
Battery Replacement/Disposal	7
Fuse Replacement (DC Accessory Adapter)	7
Specifications	7

INTRODUCTION

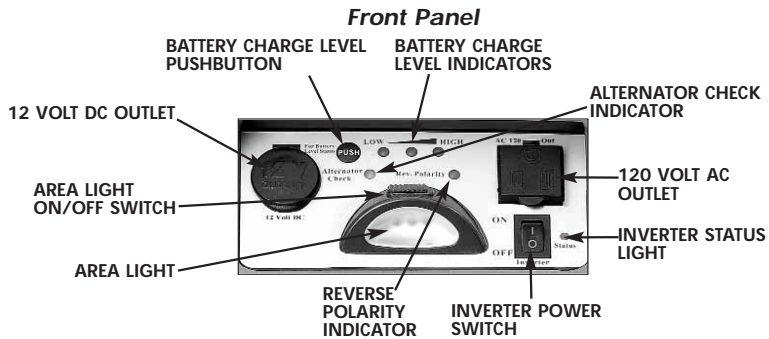
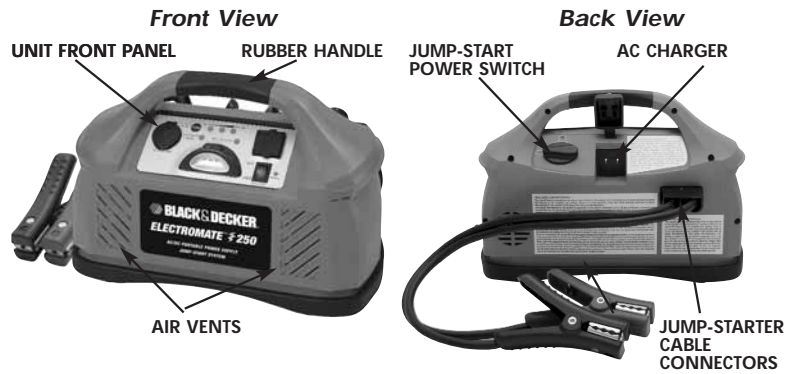
Thank you for purchasing the **Black & Decker VEC1026BD Electromate 250**. Please read this guide carefully before use to ensure optimum performance and avoid damage to the unit.

FEATURES

- Powers 110/120 volt AC appliances
- Powers 12 volt DC appliances
- Jump-starts vehicle engines
- Built-in 250 watt inverter
- Includes non-spillable, maintenance-free, heavy-duty, sealed battery
- Safe to use, transport and store
- Alternator check
- Reverse polarity connection warning
- Detachable jumper cables
- Requires no maintenance (other than recharging) for optimum operation
- Rechargeable with built-in AC charger
- Unique compact design provides completely portable 12 volt DC power
- Molded high-impact case is tough and durable
- Built-in area light for night time roadside repairs and use in remote locations without utility power
- Battery charge level indicators

Protective Features

- **Automatic Overload** — Built-in protection against overload — in the event the AC outlet draws more than 250 watts, power to the unit's outlet will automatically shut off.
- **Ground Fault Circuit Interrupter (GFCI)** — The GFCI protects the unit and the user by sensing imbalances in a circuit caused by current leakage to the ground and shuts down the unit's AC outlet to prevent electrical shock.
- **Overheating** — Unit automatically shuts down if it exceeds a safe temperature.
- **Safety Power Switch and Reverse Polarity Alarm** — In event the cables/clamps are reversed during jump-starting, an indicator lights and an alarm sounds BEFORE the Power Switch is turned ON.
- **Low Battery** — If the battery power level is too low, the AC Power Supply shuts down automatically.



AC AND DC CHARGING/RECHARGING

Use a common household AC extension cord for charging (cord not supplied). For maximum battery life, we recommend the unit be kept fully charged at all times. If the battery is allowed to remain in a discharged state, battery life will be shortened.

- MAKE SURE ALL SWITCHES ARE TURNED OFF DURING RECHARGING.
- Charge the unit for a full 40 hours using AC method before first use.
- Recharge the unit fully after each use
- Recharge the unit every two months when it has not been used regularly.

Notes: *Recharging the battery after each use prolongs battery life; frequent discharges between recharges reduces battery life.*

The Electromate also comes with a DC/DC charging adapter for recharging the unit from a 12 volt DC accessory outlet in a vehicle.

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

Viewing Battery Charge Level Status

Press the Battery Charge Level pushbutton to display battery status. The Battery Charge Level Indicator LEDs will light.

LEDS (from left to right):

- Red LED indicates a low battery charge
- Two Red LEDs indicate a medium level or partially charged battery
- Two Red and one Green LED indicates a full or high level battery charge

120 Volt AC Charging

1. Lift the AC adapter cover located on the back of the **Electromate** and connect an extension cord to the unit. Plug the other end of the cord into a standard 120 volt AC wall outlet.
2. Charge until two Red and one Green LEDs light.
3. Once fully charged, disconnect the extension cord.

Note: *The unit cannot be overcharged using the AC method.*

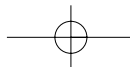
12 Volt DC Charging

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

1. Insert the gold-tipped DC/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 accessory outlet on the front panel of the unit.
3. To check the charge status of the battery during DC charging, disconnect the DC adapter from the accessory outlet and push the Battery Charge Level pushbutton. Observe the battery charge indicator.
4. When charging is complete, remove the power cord.

⚠ WARNING

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



USING THE ELECTROMATE AS A JUMP-STARTER

⚠ WARNING

Before using this system to jump-start any vehicle 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 in the battery manual.

⚠ CAUTION

To avoid possible damage that may shorten the unit's working life, protect this unit from direct sunlight, direct heat and moisture.

This system is to be used **ONLY** on vehicles, garden tractors and gasoline-powered generators with 12 volt DC battery systems.

This system is **NOT** designed to be installed as a replacement for a vehicle battery.

⚠ WARNING

Connect or disconnect battery leads **ONLY** when AC or DC charging supply cord is disconnected.

Jump-Starting Instructions

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.

Connect — RED clamp first, then BLACK clamp. Disconnect — BLACK clamp first, then RED clamp.

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. Connect jumper cables to unit.
4. To jump-start a **NEGATIVE GROUNDED SYSTEM** (NEGATIVE battery terminal is connected to the chassis — the most common configuration), follow steps 4a and 4b, then proceed to step 6.
 - 4a. Connect the **POSITIVE (+) RED** clamp to vehicle battery's **POSITIVE** ungrounded post.
 - 4b. Connect the **NEGATIVE (-) BLACK** clamp to the vehicle chassis or engine block away from the battery. Do not connect the clip to carburetor, fuel lines or sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.
5. To jump-start a **POSITIVE GROUNDED SYSTEM** — 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** ungrounded post.
 - 5b. Connect **POSITIVE (+) RED** clamp to the vehicle chassis or engine block away from the battery. Do not connect the clip to carburetor, fuel lines or

sheet-metal body parts. Connect to a heavy gauge metal part of the frame or engine block.

DO NOT TURN SAFETY SWITCH ON IF REVERSE POLARITY ALARM SOUNDS OR THE REVERSE POLARITY INDICATOR LIGHTS. REVERSE THE CLAMP CONNECTIONS.

6. After making proper connections, turn safety power switch to ON.
7. Start vehicle (do not turn key for longer than 5-6 seconds).
8. After vehicle starts, turn the safety power switch to off, remove clamps (disconnect the frame or engine clamp first, followed by the battery cable). Disconnect the cables from unit.

Notes: Always disconnect the engine or frame jumper clamp first; followed by the battery jumper clamp.

If engine fails to start, leave the ignition turned off and disconnect the negative (-) clamp first, then the positive (+) clamp. Try again later — the engine may be flooded.

Recharge the Electromate after each use.

USING THE ALTERNATOR CHECK FEATURE

1. Connect jumper cables to vehicle.
2. Turn the Jump-Start Power Switch on the back of the unit to the ON position. The Alternator Check LED lights.
3. Start the engine, and turn vehicle accessories off.
4. A solid LED indicates a good alternator. A flashing LED indicates a bad alternator.

USING THE 12 VOLT DC PORTABLE POWER SUPPLY

1. Flip open the 12 volt DC outlet cover on the Front Panel.
2. Insert the 12 volt DC plug from the appliance into the receptacle.
3. Turn on the appliance and operate normally.

⚠ CAUTION

DO NOT USE UNIT TO POWER APPLIANCES THAT DRAW MORE THAN 5 AMPS DC.

USING THE 120 VOLT AC POWER SUPPLY

The AC Power Supply is designed for maintaining today's modern lifestyle while traveling in vans, RVs, automobiles, trucks, or vehicles that have a 12 volt battery power supply and a means to recharge those batteries. The **Electromate 250** comes with:

1. AC On/Off Switch — Slide switch to turn the AC Power Supply ON and OFF.
2. 120 Volt AC Power Outlet
3. AC Power Supply "ON" Status Indicator — red LED lights when AC outlet is turned on; red LED flashes on and off when faulted.



4. AC Power Ground Fault Circuit Interrupt (GFCI) — A 3-prong outlet for 120 volt AC appliances which shuts down inverter if leakage or ground fault current is detected.
5. Internal protective circuits including:
 - Overload and over-temperature shutdown (activated if AC output exceeds 250 watts)
 - AC short-circuit shutdown
 - Low voltage shutdown
 - A new cooling technology that more efficiently cools the power transistors and, combined with soft start, dramatically increases reliability and product life

AC Power Supply Controls and Indicators

The Inverter ON/OFF Switch turns the AC power circuitry on and off. The ON/OFF switch can also be used to reset the AC power after shutdown due to overvoltage, overload or over-temperature condition. The AC outlet (covered when not in use) supplies power to AC appliances.

AC Power Supply Operation

1. Turn power switch to ON (the power indicator lights).
2. Plug in appliance and turn the appliance on.

Note: *The AC power supply shuts down automatically when the battery voltage level is too low. If the LED flashes, a faulty condition such as an overload, overheating or short circuiting has occurred. Turn the AC Power Supply off and unplug the appliance. Wait a few minutes, then turn power back on.*

USING THE EMERGENCY AREA LIGHT

The Area Light is controlled by the ON/OFF slide switch directly above it on the front panel. Make sure the light is turned OFF when the unit is being recharged or stored.

CARE AND MAINTENANCE

⚠ CAUTION

If the cord, wires, or cables become damaged, do not attempt to use. Return the entire unit to Vector Manufacturing for service and repair.

Replacement Parts

For replacement parts (bulbs, batteries, fuses, etc.), contact Customer Service toll-free at (800) 618-5178.

Battery Replacement/Disposal

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

This unit contains a maintenance-free, non-spillable, sealed lead-acid battery. This battery is fully recyclable and should be accepted at any location that accepts common automotive starter batteries. Examples of places that accept these batteries are: county or municipal recycling drop-off centers, scrap metal dealers and retailers who sell automotive replacement lead acid starter batteries.



⚠ 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.

Fuse Replacement (DC Accessory Adapter)

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

SPECIFICATIONS

Jump-Start Clamps:	Heavy-duty copper
Jumper Cables:	#6AWG welding cables
Instant Starting Amps:	300 amps
AC Power Output:	250 watts AC
DC Power Output:	12 volts DC
Battery High-density AGM:	12 volt, 9 amp hour, sealed lead-acid
Accessory Outlet Protection:	Automatic overload protection

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