

BC40BE

EverStart Maxx 15 Amp Battery Charger and Maintainer

Model: BC40BE

Brand: EverStart Maxx (Generic)

INTRODUCTION

The EverStart Maxx BC40BE 15 Amp Automatic Battery Charger and Maintainer is designed to optimize and maintain the charge of 12V automotive battery systems, including AGM, GEL, and WET types. This unit simplifies battery care by automatically detecting the battery's needs and engaging the appropriate charging or maintenance mode. It also includes advanced features such as a 40 Amp Engine Start mode for jump-starting vehicles, a patented alternator check for diagnosing vehicle electrical issues, and a battery reconditioning feature to help extend battery life.



Image: Front view of the EverStart Maxx BC40BE Battery Charger and Maintainer, showing the digital display, control buttons, and attached battery clamps.

SAFETY INFORMATION

Always read and understand all safety warnings and instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Use only in well-ventilated areas.
- Do not expose the charger to rain or excessive moisture.
- Ensure proper polarity when connecting to a battery. Incorrect connection can damage the charger and battery.
- Keep out of reach of children.
- Wear eye protection and gloves when working with batteries.
- Do not operate the charger if it has been dropped or damaged.
- Disconnect the AC power before making or breaking connections to the battery.

PRODUCT FEATURES

The EverStart Maxx BC40BE is equipped with several features designed for efficient and safe battery management:

- **15 Amp Automatic Charging:** Automatically detects battery voltage and switches between bulk charging and maintenance (float) mode.
- **40 Amp Engine Start:** Provides a powerful boost to help start vehicles with a low battery.
- **Patented Alternator Check:** Diagnoses the vehicle's alternator to ensure it is operating within the correct range.
- **Battery Reconditioning:** Utilizes electric pulse technology to help reverse sulfate build-up and extend battery life.
- **Microprocessor Controlled:** Ensures precise and efficient charging.
- **LCD Screen:** Displays battery status, amperage, voltage, and provides reverse connection warnings.
- **Integrated Powder-Coated Metal Clamps:** Durable clamps for a secure connection.
- **ETL Certified:** Meets recognized safety standards.

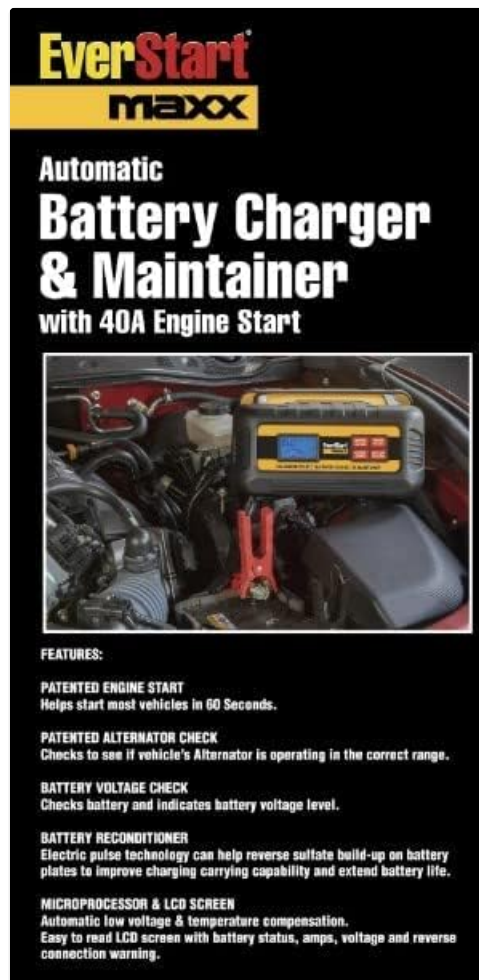


Image: A visual summary of key features of the EverStart Maxx BC40BE, including patented engine start, alternator check, battery voltage check, battery reconditioner, and microprocessor with LCD screen.

COMPONENTS IDENTIFICATION

Familiarize yourself with the main components of your EverStart Maxx BC40BE unit:

- **Control Panel:** Contains the LCD display and buttons for various functions (Charge/Voltage, Engine Start, Alternator Check, Battery Recond).
- **Positive (+) Clamp:** Red clamp, connects to the positive battery terminal.
- **Negative (-) Clamp:** Black clamp, connects to the negative battery terminal or vehicle chassis.
- **AC Power Cord:** Connects the unit to a standard electrical outlet.

SETUP AND CONNECTION

Before connecting the charger, ensure the vehicle is in a well-ventilated area and the ignition is off.

1. **Prepare the Battery:** Clean the battery terminals if necessary. Ensure the battery is accessible and free from debris.
2. **Connect Positive Clamp:** Attach the RED positive (+) clamp to the positive (+) terminal of the battery.
3. **Connect Negative Clamp:** Attach the BLACK negative (-) clamp to the negative (-) terminal of the battery. If connecting to a vehicle, connect the black clamp to a non-painted metal part of the vehicle chassis, away from the battery and fuel line.
4. **Connect to Power:** Plug the AC power cord into a standard 120V AC electrical outlet. The unit will power on

and display the current battery voltage.



Image: The EverStart Maxx BC40BE battery charger connected to a car battery within an engine bay, demonstrating typical setup.

OPERATING INSTRUCTIONS

Automatic Charging and Maintenance

Once connected and powered on, the charger will automatically sense the battery voltage and begin charging. It will transition to maintenance (float) mode once the battery is fully charged.

1. Ensure the charger is connected as described in the "Setup and Connection" section.
2. Press the **CHARGE/VOLTAGE** button to initiate or check the charging process. The LCD will display charging status.
3. The charger will automatically adjust its output to safely charge and maintain the battery.

40 Amp Engine Start Mode

This feature provides a quick burst of power to help start vehicles with a discharged battery.

1. Ensure the charger is properly connected to the battery and AC power.
2. Press the **ENGINE START** button. The unit will deliver a high current for a short period.
3. Attempt to start the vehicle. If the vehicle does not start, wait a few minutes before trying again to allow the charger to cool.

Alternator Check

This function helps diagnose if your vehicle's alternator is functioning correctly.

1. With the charger connected to the battery and AC power, start the vehicle's engine.
2. Press the **ALTERN CHECK** button.
3. The LCD will display the alternator's status (e.g., "GOOD", "LOW", "HIGH"). Refer to the display for interpretation.

Battery Reconditioning

This mode can help improve the performance and extend the life of 12V lead-acid batteries by addressing sulfation.

1. Ensure the charger is connected to the battery and AC power.
2. Press the **BATTERY RECOND** button.
3. The reconditioning process may take several hours. Monitor the display for progress.

MAINTENANCE AND STORAGE

Proper maintenance ensures the longevity and optimal performance of your charger.

- **Cleaning:** Disconnect from power and battery before cleaning. Wipe the unit with a dry cloth. Do not use solvents or abrasive cleaners.
- **Cable Care:** Inspect cables and clamps for damage before each use. Replace if frayed or broken.
- **Storage:** Store the charger in a cool, dry place when not in use. Keep cables neatly coiled.

TROUBLESHOOTING

If you encounter issues with your EverStart Maxx BC40BE, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Charger does not power on.	No AC power; faulty outlet; internal fuse.	Check AC outlet; ensure power cord is fully plugged in; consult customer support if fuse is suspected.
"Reverse Polarity" warning on LCD.	Clamps connected incorrectly.	Disconnect from AC power, then reconnect clamps with correct polarity (Red to +, Black to -).
Battery not charging.	Poor connection; deeply discharged battery; faulty battery.	Ensure clamps are securely connected; try Battery Reconditioning mode; have battery tested by a professional.
Engine Start mode not working.	Battery too low; insufficient connection; vehicle issue.	Ensure battery is not completely dead; check clamp connections; consult vehicle manual for starting issues.

SPECIFICATIONS

Technical specifications for the EverStart Maxx BC40BE:

Attribute	Value
Model	BC40BE
Input Voltage	120V AC (Standard Household)
Output Voltage	12 Volts DC
Charging Amperage	15 Amp (Automatic)

Attribute	Value
Engine Start Amperage	40 Amp
Battery Types Supported	AGM, GEL, WET (12V Automotive)
Certifications	ETL Certified
Color	Black and Yellow
Dimensions (Approx.)	10" W x 8" D x 4.5" H



Image: Diagram showing the approximate dimensions of the EverStart Maxx BC40BE: 10 inches wide, 8 inches deep, and 4.5 inches high.

WARRANTY AND SUPPORT

The EverStart Maxx BC40BE is backed by a manufacturer warranty. For specific warranty details, claims, or technical support, please refer to the documentation included with your product or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

For further assistance, you may visit the official EverStart website or contact their customer service department. Contact information is typically provided in the product packaging or on the manufacturer's website.