

BLACK+DECKER BC25BD & BM3B

BLACK+DECKER Battery Charger/Maintainer Bundle User Manual

Models: **BC25BD** (25 Amp 12V) & **BM3B** (6V/12V)

Brand: BLACK+DECKER

INTRODUCTION AND OVERVIEW

This user manual provides essential information for the safe and effective operation of your BLACK+DECKER 25 Amp 12V Battery Charger/Maintainer (Model BC25BD) and 6V/12V Battery Charger/Maintainer (Model BM3B). This bundle is designed to charge and maintain various automotive and marine batteries, ensuring optimal performance and extending battery life.

The **BC25BD** is a fully automatic 25 Amp 12V bench battery charger/maintainer with a 75A engine start feature and alternator check. It is suitable for motorhomes, boats, jet skis, lawn tractors, ATVs, snowmobiles, and vehicles that sit idle for extended periods. It charges and maintains AGM, GEL, or WET 12V batteries.

The **BM3B** is a fully automatic 6V/12V battery charger/maintainer. It is ideal for battery maintenance in RVs, specialty vehicles, antique and classic cars, marine deep cycle batteries, motorcycles, lawn mowers, ATVs, and snowmobiles. It supports 6V and 12V batteries and includes multiple connector sets for versatile use.

KEY FEATURES

- **BC25BD:** 25 Amp bench battery charger with 75 Amp engine start for quick vehicle starting (approx. 90 seconds) and maintenance of 12V automotive or marine batteries.
- **BC25BD:** Fully automatic high-frequency 3-stage charging for 12V batteries, transitioning from fast charge to top-off to trickle charge.
- **BM3B:** 6V and 12V battery charger capable of charging AGM, GEL, and WET 6-volt and 12-volt batteries.
- **BC25BD:** Features a patented alternator check function to assess if the vehicle's alternator is maintaining the battery level.
- **Both Chargers:** Offer easy connection to batteries using included cable clamps or O-ring terminals.

PRODUCT COMPONENTS



Image: The BLACK+DECKER 25 Amp 12V Battery Charger/Maintainer (left) and the 6V/12V Battery Charger/Maintainer (right).



Image: Front view of the BLACK+DECKER 25 Amp Battery Charger, showing the digital display and control buttons.



Image: Front view of the BLACK+DECKER 6V/12V Battery Charger, highlighting its compact design and indicator lights.



Image: The BLACK+DECKER 6V/12V Battery Charger shown with its included cable clamps and O-ring terminals.

SETUP

Safety Precautions

- Always read the entire user manual before operating the charger.
- Ensure proper ventilation when charging batteries.
- Wear eye protection and gloves when handling batteries.
- Do not smoke or allow sparks or flames near the battery or charger.
- Ensure the charger is disconnected from the AC outlet before making or breaking connections to the battery.

Connecting the Charger (General Steps)

1. Identify the battery type (AGM, GEL, or WET) and voltage (6V or 12V) to ensure compatibility with the selected charger.
2. Ensure the battery terminals are clean and free of corrosion.
3. Connect the red (positive) clamp to the positive (+) battery terminal.
4. Connect the black (negative) clamp to the negative (-) battery terminal. For vehicle batteries, connect the negative clamp to the vehicle chassis away from the battery and fuel line if the battery is installed in the vehicle.
5. Plug the charger's AC power cord into a standard 120V AC outlet.



Image: The BLACK+DECKER 25 Amp charger connected to a car battery, demonstrating proper clamp placement.

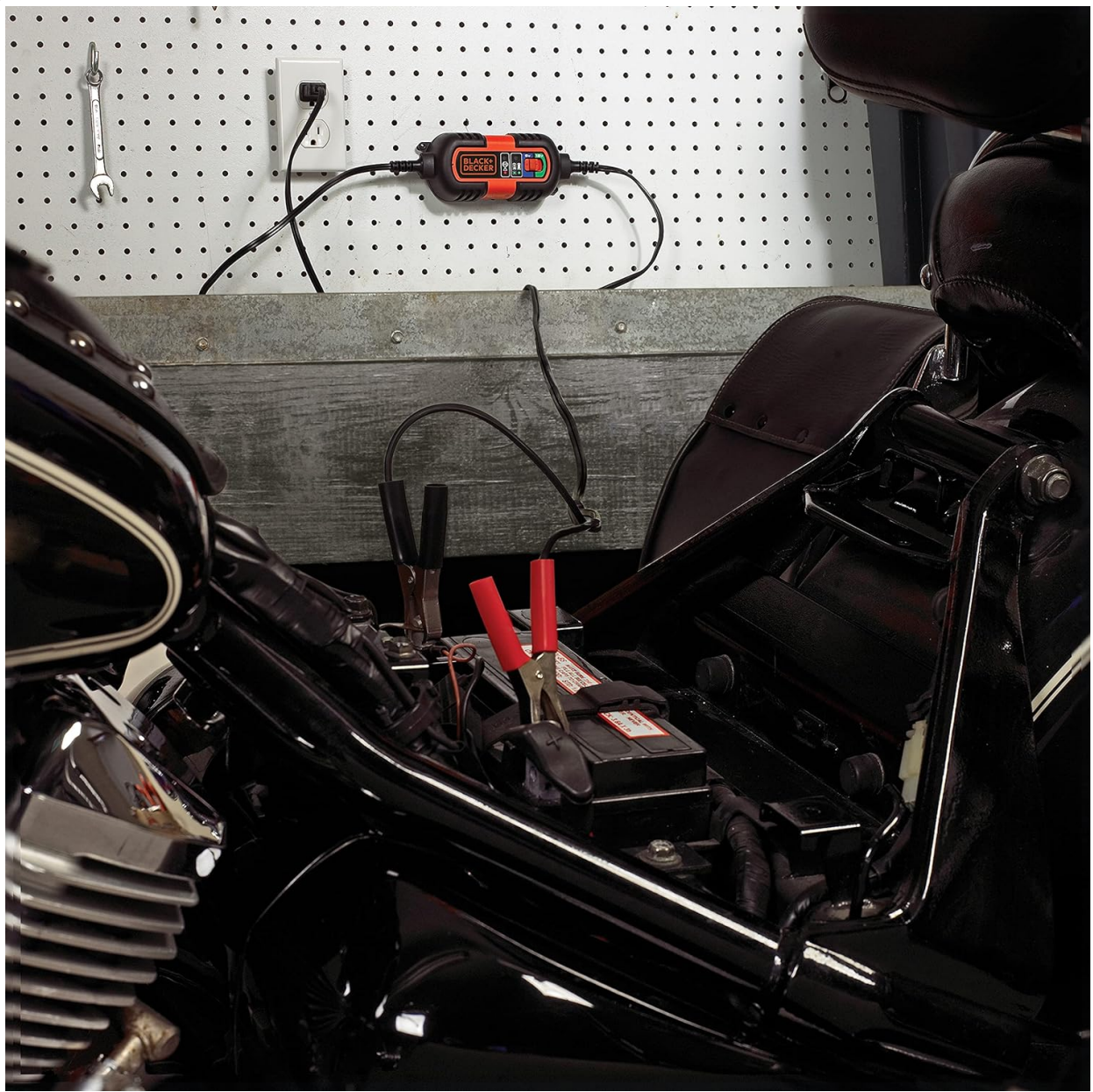


Image: The BLACK+DECKER 6V/12V charger connected to a motorcycle battery, illustrating its use for smaller applications.

OPERATING INSTRUCTIONS

BC25BD (25 Amp 12V Charger)

The BC25BD features a digital LCD screen and multiple function buttons for precise control.

- **Charging:** Once connected and powered, the charger automatically detects the battery type and begins charging. The LCD screen displays charging status and battery level.
- **Engine Start (75 Amp):** For starting a dead vehicle battery, connect the charger as described in the Setup section. Select the "Engine Start" function. The charger will provide a boost to help start the engine within approximately 90 seconds.
- **Alternator Check:** After the battery is fully charged, start your vehicle's engine. Select the "Alternator Check" function on the charger. The display will indicate if your alternator is functioning correctly and maintaining the battery's charge.
- **Battery Recondition:** This feature helps to recondition deeply discharged or sulfated batteries. Consult the detailed PDF manual for specific instructions on using this function.
- **Battery Voltage Display:** Press the "Battery Voltage" button to view the current voltage of the connected

battery on the LCD screen.



Image: The BLACK+DECKER 25 Amp charger positioned in a vehicle's engine bay during operation.

BM3B (6V/12V Charger)

The BM3B is designed for simpler, automatic operation, primarily for maintaining battery charge.

- **Voltage Selectivity:** The BM3B features a switch to select between 6V and 12V charging modes. Ensure the correct voltage is selected for your battery.
- **Automatic Charging:** Once connected and the correct voltage is selected, the charger automatically provides a charge when needed and stops charging when the battery is fully charged or topped-off.
- **Connector Sets:** Includes three connector sets: DC accessory plug, battery clips, and battery ring terminals for various connection needs.

MAINTENANCE

- **Cleaning:** Keep the charger's casing and cables clean and free of dirt, grease, or moisture. Use a soft, dry cloth for cleaning.
- **Cable Storage:** The BC25BD features built-in cord and cable wrap for neat storage. For the BM3B, coil the cables neatly after use.

- **Storage:** Store the chargers in a cool, dry place when not in use. Avoid extreme temperatures.
- **Battery Terminals:** Periodically check battery terminals for corrosion and clean them as necessary to ensure good contact.

TROUBLESHOOTING

If you encounter issues with your BLACK+DECKER battery charger/maintainer, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
Charger not turning on/no display.	No AC power; incorrect battery connection; deeply discharged battery (below 2V).	Check AC outlet and power cord. Ensure correct polarity connection. For deeply discharged batteries, a specialized recovery charger may be needed first, or the battery may be beyond recovery.
Battery not charging.	Poor connection; incorrect battery type/voltage selected (BM3B); battery is faulty.	Verify all connections are secure and clean. Ensure correct voltage setting on BM3B. Test battery with a load tester; replace if faulty.
"FLO" or "FULL" displayed (BC25BD) but battery seems low.	Battery is fully charged or charger has switched to maintenance mode.	This indicates normal operation. If the battery still seems low, it may have a reduced capacity and need replacement.
Engine Start function not working (BC25BD).	Battery too deeply discharged; vehicle issue; poor connection.	Ensure battery is not completely dead. Check vehicle's starter and other electrical components. Re-check all connections.

For more detailed troubleshooting or issues not listed here, please refer to the full user guide PDF or contact BLACK+DECKER customer support.

SPECIFICATIONS

BLACK+DECKER BC25BD (25 Amp 12V Charger)

- **Input Voltage:** 120V AC
- **Output Voltage:** 12V DC
- **Charging Amperage:** 25 Amps
- **Engine Start Amperage:** 75 Amps
- **Battery Types:** AGM, GEL, WET (12V)
- **Compliance:** California Energy Commission (CEC) compliant, ETL Certified

BLACK+DECKER BM3B (6V/12V Charger)

- **Input Voltage:** 120V AC

- **Output Voltage:** 6V DC / 12V DC (Selectable)
- **Charging Amperage:** Not explicitly stated in provided data, typically lower for maintainers.
- **Battery Types:** AGM, GEL, WET (6V & 12V)
- **Features:** Fully automatic, circuit protection (overcharging, reverse polarity, short circuit).

WARRANTY AND SUPPORT

For detailed warranty information and customer support, please refer to the official BLACK+DECKER website or the comprehensive user guide provided with your product.

A digital version of the user guide is available here: [BLACK+DECKER User Guide \(PDF\)](#)

Please register your product at www.baccusglobal.com to ensure you receive the latest updates and support.