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Model: DXAEC801B

1. PRODUCT OVERVIEW

The DEWALT DXAEC801B is a professional-grade battery charger and maintainer designed for 12V automotive and marine batteries, including AGM, GEL, and WET types. It offers multiple functionalities to ensure optimal battery performance and vehicle readiness.



Image: Front view of the DEWALT DXAEC801B 30 Amp Bench Battery Charger, showing the digital LCD screen, control buttons, 120V AC outlet, and 3.1A USB port.

Key Features:

- **30 Amp Charging:** Charges and maintains 12V AGM, GEL, or WET batteries.
- **80 Amp Engine Start:** Provides a quick boost to start vehicles with a low battery.
- **2 Amp Maintainer:** Automatically switches to trickle charge to keep batteries at an optimum level.
- **Battery Reconditioning:** Helps extend battery life by reversing sulfate build-up.
- **Alternator Check:** Indicates if the vehicle's alternator is maintaining the battery level.
- **Digital LCD Screen:** Displays charging status and battery status with easy-to-understand icons.

- **Integrated Power Outlets:** Includes a 120V AC power outlet and a 3.1A USB outlet for powering external devices.
- **Reverse Polarity Protection:** Alerts the user to improper connections.

2. SAFETY INFORMATION

Read and understand all safety instructions before operating this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always wear eye protection and protective clothing when working with batteries.
- Ensure the work area is well-ventilated.
- Keep sparks, flames, and smoking materials away from batteries.
- Never charge a frozen battery.
- Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged.
- Disconnect the AC power cord before making or breaking connections to the battery.
- This product contains chemicals known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65Warnings.ca.gov.

3. SETUP

Before initial use, ensure all components are present and undamaged. The unit features integrated cord management for convenience.

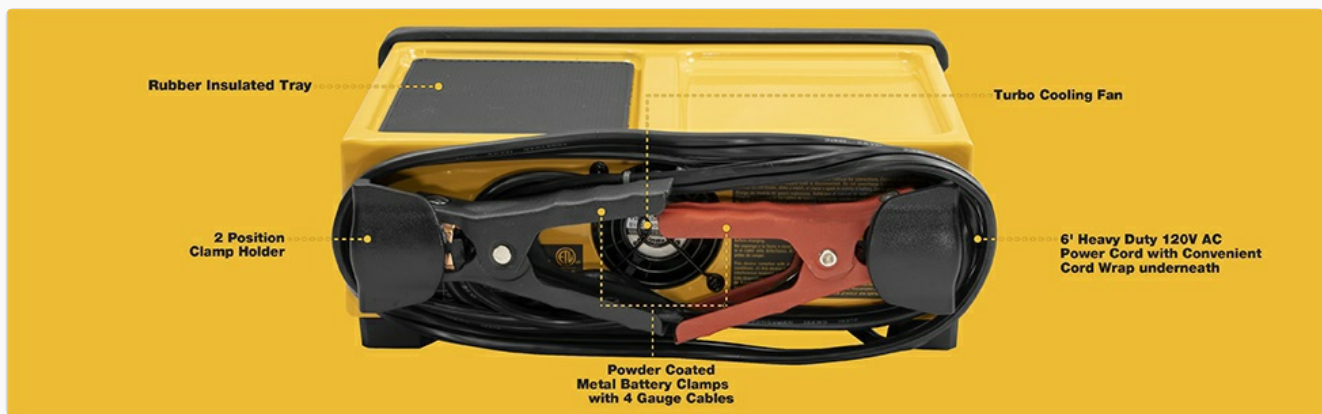


Image: Underside view of the DEWALT DXAEC801B, highlighting the cord wrap and two-position clamp holders for organized storage.

Connecting to a Battery:

1. Ensure the charger is unplugged from the AC power source.
2. Connect the red (positive) battery clamp to the positive (+) battery terminal.
3. Connect the black (negative) battery clamp to the negative (-) battery terminal. For vehicles, connect the black clamp to a non-moving metal part of the vehicle chassis or engine block, away from the battery and fuel line.
4. Plug the charger's AC power cord into a standard 120V AC outlet.
5. The LCD screen will illuminate, and the charger will begin its diagnostic process.

4. OPERATING INSTRUCTIONS

The DXAEC801B offers various modes for battery management. Use the control buttons to select the desired function.



Image: A visual representation of the various functions available on the DEWALT DXAEC801B, including battery charging, reconditioning, and alternator testing.

4.1. Battery Charging and Maintaining

The charger automatically detects the battery type (AGM, GEL, or WET) and applies a 3-stage charging process: fast charge, top-off, and trickle charge. It will automatically switch to maintainer mode once the battery is fully charged.

- Connect the charger to the battery and AC power as described in the Setup section.
- The charger will automatically begin charging. The LCD screen will display the charging status.
- Once charging is complete, the unit will enter maintenance mode to keep the battery at optimal charge.

4.2. Engine Start

Use the 80 Amp Engine Start function to provide a quick boost to a vehicle with a discharged battery. This function is designed for temporary assistance, not as a replacement for a fully charged battery.

1. Connect the charger to the vehicle battery and AC power.
2. Press the 'Engine Start' button on the control panel.
3. Attempt to start the vehicle. If the vehicle does not start after 5-10 seconds, wait a few minutes before trying again.

4.3. Battery Reconditioning

The battery reconditioning feature uses electric pulse technology to help reverse sulfate build-up on battery plates,

improving charge capability and extending battery life.

1. Connect the charger to the battery and AC power.
2. Press the 'Battery Recondition' button. The LCD screen will indicate that the reconditioning process has started.
3. Allow the process to complete. This may take several hours depending on the battery's condition.

4.4. Alternator Test

This function checks the vehicle's alternator to ensure it is properly charging the battery.

1. Connect the charger to the vehicle battery and AC power.
2. Start the vehicle's engine and allow it to reach normal operating temperature.
3. Press the 'Alternator Test' button. The LCD screen will display the alternator's status (e.g., 'ALT GOOD' or 'ALT BAD').

Video: An overview of the DEWALT DXAEC801B product, demonstrating its features and functions, including the alternator test. This video is provided by the manufacturer, Baccus Global LLC.

4.5. USB and AC Power Outlets

The unit includes a 120V AC power outlet and a 3.1A USB outlet for convenience.

- Ensure the charger is connected to an AC power source.
- Plug your devices into the appropriate outlets.
- The USB outlet provides 3.1A for charging compatible devices.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your DEWALT DXAEC801B charger.

- **Cleaning:** Disconnect the charger from power before cleaning. Use a dry cloth to wipe all surfaces. Do not use solvents or abrasive cleaners.
- **Cable and Clamp Inspection:** Periodically inspect the battery clamps and cables for any damage, corrosion, or loose connections. Replace damaged parts immediately.
- **Storage:** Store the charger in a cool, dry place when not in use. Utilize the integrated cord wrap and clamp holders to keep cables organized.

6. TROUBLESHOOTING

If you encounter issues with your charger, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Charger does not turn on.	No AC power; Faulty outlet.	Check AC power connection; Test outlet with another device.
Charger displays "Reverse Polarity".	Battery clamps connected incorrectly.	Disconnect clamps and reconnect red to positive (+), black to negative (-).
Battery not charging.	Battery deeply discharged (below 3V); Faulty battery.	Attempt to pre-charge with a manual charger if possible, then use DXAEC801B. Test battery condition.
Engine Start function not working.	Insufficient charge in charger; Vehicle battery too low.	Ensure charger is fully powered. Allow more time for initial charge before engine start.

7. SPECIFICATIONS

- **Brand:** DEWALT
- **Model Number:** DXAEC801B
- **Product Dimensions:** 9"D x 11"W x 5"H
- **Item Weight:** 6.6 Pounds
- **Output Voltage:** 12 Volts
- **Input Voltage:** 120 Volts
- **Current Rating:** 3.1 Amps (USB)
- **Amperage:** 80 Amps (Engine Start) / 30 Amps (Continuous Output)
- **Battery Charge Time:** Approximately 60 minutes (depending on battery size and discharge level)
- **Specification Met:** UL
- **UPC:** 814632014195
- **Manufacturer:** Baccus Global LLC

8. WARRANTY AND SUPPORT

This DEWALT DXAEC801B charger includes a limited 1-year manufacturer warranty.

For warranty claims or technical support, please contact Baccus Global LLC, the manufacturer.