

Technical Precision 29HM-850

Technical Precision Replacement Battery User Manual

MODEL: 29HM-850

1. Introduction

Thank you for choosing the Technical Precision replacement battery for PEP BOYS 29HM-850. This manual provides essential information for the safe and effective installation, operation, and maintenance of your new battery. Please read this manual thoroughly before use and retain it for future reference.

2. Safety Information

Batteries contain sulfuric acid, which is corrosive, and produce explosive gases. Improper handling can cause severe injury or death. Always follow these safety precautions:

- **Wear Eye Protection:** Always wear safety glasses or goggles and face shield when working with batteries.
- **Wear Protective Clothing:** Wear gloves and protective clothing to prevent contact with battery acid.
- **Ventilation:** Work in a well-ventilated area to disperse hydrogen gas.
- **No Smoking/Sparks/Flames:** Keep all ignition sources away from batteries.
- **Avoid Short Circuits:** Do not allow metal tools or jewelry to contact both battery terminals simultaneously.
- **First Aid for Acid Contact:** If acid contacts skin or eyes, flush immediately with water for at least 15 minutes and seek medical attention.
- **Proper Disposal:** Dispose of old batteries responsibly at an authorized recycling center. Do not discard with household waste.

3. Product Overview

The Technical Precision replacement battery is designed to meet the specifications of the PEP BOYS 29HM-850 model, providing reliable power for your vehicle or equipment.



This image displays the Technical Precision replacement battery, which is a black rectangular unit with terminals on top. The positive terminal is typically marked with red, and the negative with black. The battery is designed to replace the PEP BOYS 29HM-850 model.

4. Setup (Installation)

Follow these steps for safe battery installation. Refer to your vehicle's owner's manual for specific instructions.

1. **Preparation:** Ensure the vehicle's ignition is off and all accessories are turned off. Wear appropriate safety gear.
2. **Disconnect Old Battery:** First, disconnect the negative (black) cable from the old battery, then disconnect the positive (red) cable. Remove any hold-down clamps.
3. **Remove Old Battery:** Carefully lift and remove the old battery. Batteries are heavy; use proper lifting techniques or assistance.
4. **Clean Battery Tray and Cables:** Clean the battery tray and cable terminals with a wire brush and a battery terminal cleaner solution to remove corrosion.
5. **Place New Battery:** Place the new Technical Precision battery securely in the battery tray.
6. **Connect New Battery:** First, connect the positive (red) cable to the positive terminal, then connect the negative (black) cable to the negative terminal. Ensure connections are tight.
7. **Secure Battery:** Reinstall any hold-down clamps to secure the battery in place.

8. **Final Check:** Double-check all connections and ensure no tools are left near the battery.

5. Operating

Once installed, the battery operates as part of your vehicle's electrical system. It provides power for starting the engine and running electrical components when the engine is off. The vehicle's charging system will recharge the battery during operation.

6. Maintenance

Regular maintenance extends battery life and ensures optimal performance:

- **Keep Terminals Clean:** Periodically inspect battery terminals for corrosion. Clean with a wire brush and baking soda solution if necessary. Apply a thin coat of dielectric grease to prevent future corrosion.
- **Check Hold-Down:** Ensure the battery is securely held in its tray to prevent vibration damage.
- **Check Charge Level (if applicable):** For batteries with removable caps, check electrolyte levels periodically and top up with distilled water if low (do not overfill). This battery is typically a sealed, maintenance-free unit, so this step may not apply.
- **Avoid Deep Discharges:** Avoid leaving lights on or accessories running when the engine is off for extended periods, as this can deeply discharge the battery and shorten its lifespan.
- **Seasonal Care:** In extreme temperatures, ensure the battery is fully charged. Cold weather reduces battery capacity, and hot weather can accelerate internal degradation.

7. Troubleshooting

If you experience issues with your battery, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Engine cranks slowly or not at all	Low battery charge, corroded terminals, faulty starter/alternator	Charge battery, clean terminals, test charging system/starter
Lights dim or flicker	Low battery voltage, loose connections	Check battery charge, tighten connections
Battery constantly needs recharging	Faulty charging system (alternator), parasitic drain, old battery	Have charging system checked, identify and fix parasitic drain, replace battery if old
Corrosion on terminals	Acid leakage, improper ventilation, loose connections	Clean terminals, ensure proper ventilation, tighten connections, consider professional inspection

If problems persist after attempting these solutions, it is recommended to consult a qualified automotive technician.

8. Specifications

Model Number: 29HM-850

Brand: Technical Precision

Manufacturer: Technical Precision

ASIN: B07LBG2KP7

Date First Available: June 27, 2018

Unit per sale: 1

9. Warranty and Support

For specific warranty information regarding your Technical Precision replacement battery, please refer to the documentation provided at the time of purchase or contact the seller directly. Technical Precision is the third-party seller for this product.

For technical support or inquiries, please contact the seller, Technical Precision, through the platform where the purchase was made or via their official contact channels.