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Technical Precision AX-5XV2-7

Technical Precision Replacement Battery User Manual

Model: AX-5XV2-7

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use, installation, maintenance, and troubleshooting of your Technical Precision AX-5XV2-7 replacement battery. This 35AH AGM battery is designed for use with the Drive Medical Design Titan X16 Wheelchair and other compatible mobility devices. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of your battery.

2. SAFETY INFORMATION

Always prioritize safety when handling batteries. Improper handling can lead to serious injury or damage to the battery and equipment.

- **Eye Protection:** Always wear appropriate eye protection when working with batteries.
- **Gloves:** Wear insulated gloves to prevent electrical shock and protect against potential acid exposure (though AGM batteries are sealed, caution is advised).
- **Ventilation:** Ensure adequate ventilation when charging batteries.
- **Tools:** Use insulated tools to prevent short circuits. Remove all metallic jewelry before working with batteries.
- **Short Circuits:** Avoid short-circuiting battery terminals. This can cause severe burns, fire, or explosion.
- **Charging:** Use only chargers approved for AGM batteries. Do not overcharge.
- **Disposal:** Dispose of old batteries responsibly according to local regulations. Do not incinerate.
- **Children:** Keep batteries out of reach of children.

3. PRODUCT OVERVIEW

The Technical Precision AX-5XV2-7 is a high-quality, maintenance-free Absorbed Glass Mat (AGM) battery designed as a direct replacement for the Drive Medical Design Titan X16 Wheelchair and similar mobility

devices. It features a 12-volt nominal voltage and a 35 Amp-Hour (AH) capacity, providing reliable power for extended use. The battery is equipped with M6 insert terminals for secure and easy connections.



Image 1: Technical Precision AX-5XV2-7 35AH AGM Battery. This image shows the sealed battery unit with its M6 insert terminals visible on the top surface.

4. SETUP AND INSTALLATION

Before beginning installation, ensure the mobility device is turned off and disconnected from any power source. Refer to your wheelchair's original manual for specific battery compartment access instructions.

1. **Preparation:** Gather necessary tools, including an insulated wrench or screwdriver for the M6 terminals, and wear safety gear (gloves, eye protection).
2. **Access Battery Compartment:** Locate and open the battery compartment on your Drive Medical Design Titan X16 Wheelchair.
3. **Disconnect Old Battery:** Carefully disconnect the negative (-) terminal first, then the positive (+) terminal from the old battery. Ensure wires do not touch any metal surfaces.
4. **Remove Old Battery:** Lift the old battery out of the compartment. Note its orientation for correct placement of the new battery.
5. **Insert New Battery:** Place the Technical Precision AX-5XV2-7 battery into the compartment, ensuring it is oriented correctly and fits securely.
6. **Connect New Battery:** Connect the positive (+) terminal first, then the negative (-) terminal. Ensure connections are tight and secure. Do not overtighten.
7. **Secure Compartment:** Close and secure the battery compartment.
8. **Initial Charge:** It is recommended to fully charge the new battery before its first use.



Image 2: Close-up view of an M6 insert terminal connection. This image illustrates how to properly connect a cable lug to the threaded M6 insert terminal using a bolt and washer.

5. OPERATING INSTRUCTIONS

Once installed, the battery operates as part of your mobility device's power system. Proper charging is key to maximizing battery life.

- **Charging:** Always use a charger specifically designed for 12V AGM batteries. Follow the charger manufacturer's instructions. Avoid using automotive chargers not designed for deep cycle or AGM batteries.
- **Regular Charging:** For optimal performance and longevity, charge the battery after each significant use, even if it's not fully discharged. Avoid deep discharges whenever possible.
- **Storage Charging:** If the wheelchair will not be used for an extended period, fully charge the battery and then disconnect it. Recharge every 3-6 months to prevent self-discharge.
- **Temperature:** Charge and operate the battery within recommended temperature ranges (typically 0°C to 40°C or 32°F to 104°F). Extreme temperatures can affect performance and lifespan.

6. MAINTENANCE

The Technical Precision AX-5XV2-7 is a maintenance-free AGM battery, meaning it does not require water additions. However, some basic care will ensure its best performance.

- **Terminal Inspection:** Periodically check battery terminals for corrosion or loose connections. Clean terminals with a wire brush if corrosion is present and ensure connections are snug.
- **Battery Casing:** Keep the battery casing clean and dry. Wipe away any dust or debris with a damp cloth. Do not use solvents or harsh chemicals.
- **Physical Damage:** Inspect the battery for any signs of physical damage, cracks, or swelling. If damage is observed, discontinue use and replace the battery.
- **Storage:** Store the battery in a cool, dry place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you experience issues with your battery, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Wheelchair not powering on or low power.	Battery discharged, loose connections, faulty charger.	Charge battery fully. Check terminal connections for tightness. Test charger functionality.
Battery not charging.	Charger not connected, faulty charger, battery fault.	Ensure charger is properly connected and powered. Test charger with another battery if possible. If battery is old, it may need replacement.
Reduced operating time.	Battery not fully charged, aging battery, extreme temperatures.	Ensure full charge cycles. Battery capacity naturally decreases with age. Operate in moderate temperatures.

If these steps do not resolve the issue, please contact customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	Technical Precision
Model Number	AX-5XV2-7
Battery Capacity	35 Amp Hours (AH)
Voltage	12 Volts
Terminal Type	M6 Insert TERMINALS
Battery Type	AGM (Absorbed Glass Mat)
Reusability	Rechargeable
Recommended Uses	Wheelchair, Mobility Devices
Unit Count	1.0 Count

9. WARRANTY AND SUPPORT

Warranty: This Technical Precision battery comes with a **1 Year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, neglect, improper installation, or unauthorized modifications.

Customer Support: For technical assistance, warranty claims, or further inquiries, please contact Technical Precision customer service. Refer to your purchase documentation or the Technical Precision website for current contact information.

Please retain your proof of purchase for warranty purposes.