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SigmasTek DKS320

SigmasTek Bladez Mobility DKS320 Battery Replacement Set User Manual

2X 12V 55AH SEALED LEAD ACID BATTERIES

Introduction

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of your SigmasTek Bladez Mobility DKS320 Battery Replacement Set. This set includes two 12V 55AH Sealed Lead Acid (SLA) batteries designed for compatibility with the Bladez Mobility DKS320. Please read all instructions carefully before proceeding.

Safety Information

- Always wear appropriate personal protective equipment, including safety glasses and gloves, when handling batteries.
- Do not short-circuit the battery terminals. This can cause severe burns, fire, or explosion.
- Keep batteries away from open flames, sparks, and heat sources.
- Do not attempt to open or disassemble the battery. There are no user-serviceable parts inside.
- In case of accidental contact with battery acid, flush the affected area with plenty of water and seek medical attention immediately.
- Dispose of old batteries according to local regulations. Do not dispose of batteries in household waste.

Setup and Installation

The SigmasTek Bladez Mobility DKS320 Battery Replacement Set is designed for direct compatibility. You will need to reuse the original wire harness from your existing Bladez Mobility DKS320 unit.

1. **Preparation:** Ensure the Bladez Mobility DKS320 unit is powered off and disconnected from any charging source.
2. **Access Batteries:** Locate and open the battery compartment of your Bladez Mobility DKS320. Refer to your device's original manual for specific instructions on accessing the batteries.

3. **Disconnect Old Batteries:** Carefully disconnect the original wire harness from the old batteries. Note the positive (+) and negative (-) terminal connections to ensure correct reinstallation.
4. **Remove Old Batteries:** Remove the old batteries from the compartment. Be mindful of their weight (approximately 72 pounds for the set).
5. **Insert New Batteries:** Place the new SigmasTek 12V 55AH batteries into the compartment. Ensure they fit securely. The dimensions of each battery are approximately 9.04 x 5.45 x 8.15 inches.
6. **Connect New Batteries:** Reconnect the original wire harness to the new batteries, ensuring that positive (+) connects to positive (+) and negative (-) connects to negative (-). Double-check all connections for tightness.
7. **Secure Compartment:** Close and secure the battery compartment.
8. **Initial Charge:** It is recommended to fully charge the new batteries before the first use.



This image displays the two SigmasTek 12V 55AH Sealed Lead Acid batteries included in the replacement set. These batteries are designed for the Bladez Mobility DKS320.

Operating Instructions

These SigmasTek batteries are rechargeable Sealed Lead Acid (SLA) batteries. They are designed to provide reliable power for your Bladez Mobility DKS320.

- **Charging:** Always use a charger compatible with 12V SLA batteries. Follow the charging instructions provided with your Bladez Mobility DKS320 unit or your battery charger. Avoid overcharging, as this can reduce battery life.
- **Discharging:** Avoid deep discharges whenever possible. While SLA batteries can tolerate deep discharges, frequent deep cycling can shorten their lifespan.
- **Temperature:** Operate batteries within recommended temperature ranges (typically 20°C to 25°C or 68°F to 77°F) for optimal performance and longevity. Extreme temperatures can affect battery capacity and life.

Maintenance

SigmasTek SLA batteries are maintenance-free, meaning they do not require water additions. However, proper care can extend their lifespan.

- **Cleaning:** Keep battery terminals clean and free of corrosion. Use a dry cloth to wipe down the battery casing. Do not use solvents or harsh chemicals.

- **Storage:** If storing the batteries for an extended period, ensure they are fully charged. Store them in a cool, dry place, away from direct sunlight and extreme temperatures. Recharge them every 3-6 months to prevent self-discharge and maintain capacity.
- **Inspection:** Periodically inspect the batteries for any signs of damage, swelling, or leaks. If any issues are observed, discontinue use and replace the batteries.

Troubleshooting

Problem	Possible Cause	Solution
Device not powering on	Batteries not connected correctly; Batteries not charged; Faulty wire harness.	Check all connections; Charge batteries fully; Inspect wire harness for damage.
Reduced operating time	Batteries not fully charged; Batteries reaching end of life; Operating in extreme temperatures.	Ensure full charge cycles; Consider battery replacement if old; Operate within recommended temperature range.
Batteries not charging	Charger malfunction; Loose connections; Battery fault.	Test charger with another device; Check all charging connections; If problem persists, batteries may need replacement.

Specifications

Battery Type: Sealed Lead Acid (SLA)

Voltage: 12 Volts (per battery)

Capacity: 55 Amp Hours (AH) (per battery)

Dimensions (each battery): 9.04 x 5.45 x 8.15 inches

Weight (set of 2): Approximately 72 Pounds

Reusability: Rechargeable

Compatibility: Bladez Mobility DKS320

Certifications: U.L. Recognized and CE Certified

Warranty and Support

This SigmasTek battery replacement set comes with a **1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the batteries are free from defects in material and workmanship under normal use and service.

For warranty claims, technical support, or any questions regarding your SigmasTek batteries, please contact your retailer or the SigmasTek customer service department. Please have your purchase information and battery details available when contacting support.