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- › [Zoeller](#) /
- › [Zoeller 10-1450 Aquanot 12V Deep Cycle Wet Cell Battery Instruction Manual](#)

## Zoeller 10-1450

# Zoeller 10-1450 Aquanot 12V Deep Cycle Wet Cell Battery Instruction Manual

[Introduction](#)   [Setup](#)   [Operating](#)   [Maintenance](#)   [Troubleshooting](#)   [Specifications](#)   [Warranty](#)   [Support](#)

## 1. INTRODUCTION

This manual provides essential instructions for the safe and efficient use of your Zoeller 10-1450 Aquanot 12V Deep Cycle Wet Cell Battery. This battery is designed to provide reliable backup power for compatible sump pump systems, such as the Zoeller 507 Series, ensuring continued operation during power outages. Proper installation, operation, and maintenance are crucial for maximizing the battery's lifespan and performance.



Image 1.1: Zoeller 10-1450 Aquanot 12V Deep Cycle Wet Cell Battery. This image shows the external casing and terminals of the battery.

## 2. SETUP AND INSTALLATION

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**Safety Precautions:** Always wear appropriate personal protective equipment, including safety glasses and gloves, when handling batteries. Ensure adequate ventilation. Do not smoke or allow open flames near the battery. Disconnect all power sources before beginning installation.

1. **Unpacking:** Carefully remove the battery from its packaging. Inspect for any signs of damage during transit.
2. **Initial Charge:** Although the battery may come partially charged, it is recommended to fully charge it before initial use. Refer to your sump pump system's charger instructions for proper charging procedures.
3. **Electrolyte Level Check (Wet Cell Batteries):** For wet cell batteries, verify that the electrolyte level is between the 'MIN' and 'MAX' lines. If low, add distilled water only, up to the 'MAX' line. **Do not overfill.**
4. **Placement:** Position the battery in a clean, dry, well-ventilated area, away from direct sunlight and heat sources. Ensure it is placed on a stable, non-conductive surface.
5. **Connecting to Sump Pump System:**
  - Connect the **positive (+)** terminal of the battery to the positive terminal of the sump pump system's battery cables.
  - Connect the **negative (-)** terminal of the battery to the negative terminal of the sump pump system's battery cables.
  - Ensure all connections are tight and secure to prevent arcing and ensure optimal power transfer.
6. **System Test:** After installation, perform a system test according to your sump pump system's manual to confirm the battery backup is functioning correctly.

## 3. OPERATING INSTRUCTIONS

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The Zoeller 10-1450 Aquanot battery operates as an integral part of your sump pump backup system. It is designed to automatically provide power to your sump pump when the primary power source is interrupted.

- **Automatic Operation:** When a power outage occurs, the sump pump system will automatically switch to battery power, utilizing the Zoeller 10-1450 battery.
- **Run Time:** This 12V Deep Cycle battery is designed to provide approximately 7 hours of continuous run time for compatible Zoeller 507 Series sump pumps under typical operating conditions. Actual run time may vary based on pump load, frequency of operation, and battery age.
- **Recharging:** Once primary power is restored, the sump pump system's charger will automatically begin recharging the battery. Ensure the charger is always connected to a live power source to keep the battery fully charged.
- **Status Indicators:** Refer to your sump pump system's control panel or charger for battery status indicators (e.g., charge level, fault warnings).

## 4. MAINTENANCE

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Regular maintenance is essential for extending the life and ensuring the reliability of your Zoeller 10-1450 Aquanot battery.

- **Monthly Checks:**

- Inspect battery terminals for corrosion. Clean any corrosion with a wire brush and a solution of baking soda and water. Rinse with clean water and dry thoroughly.
  - Check electrolyte levels. For wet cell batteries, ensure the fluid is between the 'MIN' and 'MAX' lines. If low, add distilled water only. **Never add acid.**
  - Ensure battery cables are securely connected.
  - Verify the battery charger is operating correctly and the battery is maintaining a full charge.
- **Annual Load Test:** It is recommended to perform an annual load test on the battery to assess its capacity and overall health. Consult a qualified technician or your sump pump system's manual for instructions on performing a load test.
  - **Cleaning:** Keep the battery casing clean and dry. Wipe away any dust or debris with a damp cloth.
  - **Storage:** If the battery needs to be stored for an extended period, ensure it is fully charged and stored in a cool, dry place. Periodically recharge it every 3-6 months to prevent deep discharge.

## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter with your Zoeller 10-1450 Aquanot battery.

| Problem  | Possible Cause   | Solution  |
|--|--|---|
| Sump pump does not run on battery power during outage. | Battery discharged; Loose connections; Faulty battery; Sump pump system issue. | Check battery charge level. Ensure connections are tight. Test battery with a multimeter. Consult sump pump system manual for troubleshooting its components.                 |
| Battery not holding a charge.                          | Faulty charger; Old battery; Low electrolyte level; Sulfation.                 | Verify charger operation. Check electrolyte levels and add distilled water if needed. If battery is old, consider replacement. Consult a technician for advanced diagnostics. |
| Corrosion on battery terminals.                        | Acid fumes; Loose connections.   | Clean terminals thoroughly with baking soda solution. Ensure connections are tight. Apply anti-corrosion grease.  |
| Reduced run time.                                      | Aging battery; High pump load; Incomplete charging.                            | Perform a load test. Ensure battery is fully charged. Consider battery replacement if significantly aged.   |

If you continue to experience issues, refer to your sump pump system's manual or contact Zoeller customer support.

## 6. SPECIFICATIONS

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**Manufacturer:** Zoeller

**Part Number:** 10-1450

**Item Model Number:** 10-1450

**Battery Type:** 12V Deep Cycle Wet Cell (Lead Acid)

**Voltage:** 12 Volts

**Item Weight:** Approximately 65 pounds

**Product Dimensions:** Approximately 12.75 x 7.5 x 10 inches (L x W x H)

**Color:** Unfinished

**Material (Casing):** Plastic

**Usage:** Inside (for sump pump backup systems)

**Included Components:** Product Only (Battery)

**Estimated Run Time:** Approximately 7 hours for Zoeller 507 Series (continuous)

## 7. WARRANTY INFORMATION

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Zoeller products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to the 10-1450 Aquanot battery, please refer to the warranty documentation included with your purchase or visit the official Zoeller Company website. Keep your proof of purchase for warranty claims.

## 8. CUSTOMER SUPPORT

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If you require technical assistance, have questions regarding installation, operation, or maintenance, or need to report a problem, please contact Zoeller Customer Support:

- **Website:** Visit the official Zoeller Company website for FAQs, product documentation, and contact information.
- **Phone:** Refer to the contact section of the Zoeller website for the appropriate customer service phone number.
- When contacting support, please have your product model number (10-1450) and purchase date available.