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› WARN XD9000i 9000-lb Winch Instruction Manual

## WARN 27550



# WARN XD9000i 9000-lb Winch Instruction Manual

Model: 27550

## 1. PRODUCT OVERVIEW

The WARN XD9000i is a high-performance electric winch designed for vehicle recovery and heavy-duty pulling applications. With a robust 9,000-pound (4080 kg) single-line pulling capacity, this winch is engineered for reliability and durability in challenging environments.

Key features include:

- **Integrated Control Box:** Provides enhanced protection for electrical components.
- **Series-Wound, High-Speed Motor:** Delivers fast line speed and strong pulls with a low amp draw, ensuring long winching duty cycles.
- **Durable 3-Stage Planetary Geartrain:** Ensures smooth and reliable operation.
- **Exclusive Brake Design:** Offers superior control during winching operations.
- **Wire Rope:** Equipped with 125 feet (38 meters) of 5/16-inch (8mm) wire rope.
- **Remote Control:** Includes a remote switch with a 12-foot (3.7m) lead for safe operation.
- **Finish:** Chip-resistant, powder-coated finish for enhanced durability.



Image: The WARN XD9000i 9000-lb Winch, showcasing its integrated design.

## 2. SAFETY INFORMATION

Always read and understand this manual completely before installing, operating, or performing maintenance on your WARN winch. Failure to follow these instructions can result in serious injury or property damage.

### General Safety Precautions:

- **Wear Protective Gear:** Always wear heavy-duty gloves and eye protection when handling wire rope or operating the winch.
- **Keep Clear:** Never place hands or body parts near the fairlead, hook, or wire rope when the winch is under tension or operating.
- **Rated Capacity:** Do not exceed the rated line pull of 9,000 lbs. (4080 kgs.). Use a snatch block for double line pulls to reduce load on the winch.
- **Secure Anchoring:** Ensure the anchor point is strong enough to withstand the pulling force. Use tree trunk protectors or anchor straps to prevent damage to trees.
- **Battery Condition:** Ensure your vehicle's battery is in good condition and fully charged. A minimum of 650 CCA is recommended for winching.
- **Inspect Before Use:** Before each use, inspect the wire rope, hook, remote control, and all electrical connections for damage or wear. Do not use a damaged winch.
- **Maintain Control:** Always keep the remote control in your hand during operation and stand clear of the winching path.
- **Layering Rope:** Always spool the wire rope evenly and tightly on the drum. Uneven spooling can damage the rope and the winch.
- **Heat:** Winches can generate significant heat during prolonged use. Allow the winch to cool down between heavy pulls.

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### 3. SETUP AND INSTALLATION

Proper installation is critical for the safe and effective operation of your WARN XD9000i winch. It is recommended that installation be performed by a qualified professional or an individual with experience in automotive electrical and mechanical systems.

#### Mounting:

- The winch requires a mounting surface with a bolt pattern of 10.0 inches x 4.5 inches (254mm x 114.3mm).
- Ensure the mounting structure (e.g., bumper, winch plate) is robust enough to handle the full rated pulling capacity of the winch.
- Use high-grade hardware for mounting, ensuring all bolts are tightened to the manufacturer's specifications.

#### Electrical Connections:

- Connect the winch directly to the vehicle's battery using the provided 2 gauge, 72-inch (1.83m) battery leads.
- Ensure all connections are clean, tight, and free from corrosion.
- Connect the positive (+) lead to the positive battery terminal and the negative (-) lead to the negative battery terminal or a suitable chassis ground.
- The integrated control box simplifies wiring by housing the contactor and other electrical components.

#### Wire Rope Installation (Initial Spooling):

The winch comes pre-spoiled with 125 feet of 5/16-inch wire rope. For optimal performance and longevity, it is crucial to properly tension the rope during initial spooling.

1. Unspool the entire length of the wire rope, leaving only a few wraps on the drum.
2. Attach the hook to a secure anchor point.
3. With the vehicle in neutral and the engine running, engage the winch and begin to spool the rope back onto the drum under a light load (e.g., 500-1000 lbs.). This ensures tight, even wraps.
4. Guide the rope by hand (wearing heavy gloves) to ensure even layering across the drum.

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### 4. OPERATING INSTRUCTIONS

Familiarize yourself with the winch controls and operating procedures before attempting any recovery operations.

#### Freespooling the Wire Rope:

- To quickly pull out the wire rope by hand, disengage the clutch by sliding the ring gear lever.
- Pull the desired length of rope from the drum.
- Once the rope is positioned, re-engage the clutch by sliding the ring gear lever back into the engaged position. Ensure it is fully engaged before winching.

#### Using the Remote Control:

- Plug the remote control into the winch's control box.
- The remote has two buttons: 'IN' to retract the rope and 'OUT' to extend the rope.
- Always stand clear of the winch and the path of the rope during operation.

#### Winching Techniques:

- **Single Line Pull:** For loads within the winch's rated capacity. Attach the hook directly to a secure anchor point.
- **Double Line Pull (Snatch Block):** For loads exceeding the winch's rated capacity or to reduce strain. Attach a snatch block to the anchor point, run the wire rope through it, and attach the hook back to the vehicle. This effectively doubles the pulling power and halves the load on the winch.
- **Dampening:** Place a heavy blanket or winch dampener over the middle of the wire rope during a pull. This helps absorb energy if the rope breaks.



Image: A vehicle equipped with a WARN winch navigating challenging muddy terrain, demonstrating typical usage scenarios.



Image: A UTV utilizing a WARN winch to recover itself from a difficult position, highlighting the winch's versatility.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your WARN XD9000i winch.

### Wire Rope Care:

- **Inspection:** Regularly inspect the entire length of the wire rope for kinks, frayed strands, broken wires, or corrosion. Replace the rope immediately if any damage is found.
- **Cleaning:** Clean the wire rope after use, especially if it has been exposed to mud, sand, or saltwater. Rinse with fresh water and allow to dry before respooling.

- **Lubrication:** Periodically lubricate the wire rope with a light oil or wire rope lubricant. The internal geartrain uses Aeroshell #17 lubricant and typically does not require user maintenance.

### Electrical System:

- **Connections:** Check all electrical connections (battery terminals, motor terminals, remote plug) for tightness and corrosion. Clean as necessary.
- **Remote Control:** Inspect the remote control cable for cuts or damage. Store the remote in a dry place when not in use.

### General Cleaning:

- Keep the winch exterior clean from dirt, mud, and debris.
- Periodically check mounting bolts for tightness.

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## 6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your WARN XD9000i winch.

### Winch Does Not Operate:

- **Check Battery:** Ensure the vehicle battery is fully charged and has sufficient CCA (650 CCA minimum).
- **Electrical Connections:** Verify all battery and winch electrical connections are clean, tight, and free of corrosion.
- **Remote Control:** Ensure the remote control is securely plugged into the control box and the cable is not damaged.
- **Clutch:** Confirm the clutch is fully engaged.

### Winch Operates Slowly or with Reduced Power:

- **Battery Charge:** A low battery charge is a common cause. Recharge the battery.
- **Cable Gauge:** Ensure correct gauge battery leads are used (2 gauge recommended).
- **Overload:** The winch may be attempting to pull a load exceeding its capacity. Consider a double line pull with a snatch block.
- **Motor Overheating:** Allow the winch motor to cool down. Avoid continuous long pulls.

### Wire Rope Kinking or Fraying:

- **Improper Spooling:** Ensure the rope is spooled evenly and tightly under a light load.
- **Obstructions:** Check for sharp edges on the fairlead or anchor points that could damage the rope.
- **Damage:** If the rope is kinked or severely frayed, it must be replaced immediately for safety.

If these troubleshooting steps do not resolve the issue, contact WARN customer support for further assistance.

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## 7. SPECIFICATIONS

Detailed technical specifications for the WARN XD9000i 9000-lb Winch.

| Feature | Specification |
|---------|---------------|
|---------|---------------|

| Feature                      | Specification                                                  |
|------------------------------|----------------------------------------------------------------|
| Part Number                  | PN 27550 (12V DC)                                              |
| Rated Line Pull              | 9000 lbs. (4080 kgs.) single-line                              |
| Motor                        | 12V 4.6 hp, Series Wound™                                      |
| Remote Control               | Remote switch, 12' (3.7m) lead                                 |
| Geartrain                    | 3-Stage Planetary                                              |
| Gear Ratio                   | 156:1                                                          |
| Lubrication                  | Aeroshell #17                                                  |
| Clutch (freespooling)        | Sliding Ring Gear                                              |
| Brake                        | Automatic Direct Drive Cone                                    |
| Drum Diameter/Length         | 2.5"/9.0" (6.4cm/23cm)                                         |
| Weight                       | 85 lbs. (38.5 kgs.)                                            |
| Wire Rope                    | 125', 5/16" diameter (38m, 8mm diameter)                       |
| Fairlead                     | Roller                                                         |
| Recommended Battery          | 650 CCA minimum for winching                                   |
| Battery Leads                | 2 gauge, 72" (1.83m)                                           |
| Finish                       | Argent Powder Coat                                             |
| Winch Dimensions (L x D x H) | 21.8" L. x 6.3" D. x 9.94" H. (553mm L. x 160mm D. x 252mm H.) |
| Mounting Bolt Pattern        | 10.0" x 4.5" (254mm x 114.3mm)                                 |

## 8. WARRANTY INFORMATION

The WARN XD9000i 9000-lb Winch is backed by a **limited lifetime warranty**. This warranty covers defects in materials and workmanship under normal use and service. Specific terms and conditions apply and may vary by region.

For complete warranty details, including coverage, limitations, and how to make a claim, please refer to the official WARN website or contact WARN customer support.

## 9. CUSTOMER SUPPORT

For technical assistance, parts inquiries, or any questions regarding your WARN XD9000i winch, please contact WARN Industries customer support.

- **Website:** Visit the official WARN website for FAQs, product registration, and additional resources.

- **Contact:** Refer to the 'Contact Us' section on the WARN website for phone numbers and email support options.

When contacting support, please have your winch model number (27550) and serial number available to expedite service.

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## ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

### Name

Anonymous

### Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question