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› SuperATV Black Ops 3500 LB Winch and Mounting Plate Instruction Manual for Polaris Ranger XP 900 Models

SuperATV 35-WM-RAN900-00

SuperATV Black Ops 3500 LB Winch and Mounting Plate Instruction Manual

For Polaris Ranger XP 900 Diesel (2012+) and Polaris Ranger XP 900 / Crew (2013+) Models

1. PRODUCT OVERVIEW

This manual provides essential information for the safe and effective installation, operation, and maintenance of your SuperATV Black Ops 3500 LB Winch and its accompanying mounting plate. This system is designed to assist in vehicle recovery and other utility tasks for compatible Polaris Ranger models.

Intended Use: The SuperATV Black Ops 3500 LB Winch is designed for vehicle recovery and pulling applications within its rated capacity. The mounting plate provides a secure and durable foundation for winch installation on specified Polaris Ranger models.

2. COMPATIBILITY AND FITMENT

This SuperATV Winch and Mounting Plate system is compatible with the following Polaris Ranger models:

- Polaris Ranger XP 900 Diesel: 2012 and newer models
- Polaris Ranger XP 900: 2013 and newer models
- Polaris Ranger XP 900 Crew: 2013 and newer models

3. COMPONENTS INCLUDED

The SuperATV Black Ops 3500 LB Winch kit includes the following main components:

- SuperATV Black Ops 3500 LB Winch
- Winch Mounting Plate
- Fairlead
- Winch Hook
- Synthetic Rope (50 feet)
- All necessary mounting hardware



Figure 1: Overview of the SuperATV Black Ops 3500 LB Winch and various mounting plate components. This image displays the winch unit, a fairlead, a winch hook, and several black metal mounting plates with various bolt patterns.

4. FEATURES AND CONSTRUCTION

4.1 Winch Features

- **Capacity:** 3500 LB rated line pull
- **Motor:** Permanent Magnet 12V 1.2 Hp DC Motor
- **Rope:** Synthetic 50-foot rope
- **Gear Ratio:** 166:1
- **Waterproofing:** 100% Waterproof design

4.2 Mounting Plate Construction

The winch mounting plate is engineered for durability and performance:

- **Material:** 3/16-inch thick, heavy-duty steel
- **Manufacturing:** Laser cut and CNC brake press bent for precision
- **Finish:** Powder-coated for enhanced durability and corrosion resistance
- **Compatibility:** Features dual mounting bolt patterns to accommodate most aftermarket 3500–6000 lb. winches, including Warn, Superwinch, and OEM winches.



Figure 2: The SuperATV Black Ops winch shown mounted, highlighting its compact design and integrated fairlead. The winch is black with a synthetic rope visible, and a red strap is attached to the hook.

5. SETUP AND INSTALLATION

Important: SuperATV has adopted a paperless approach for detailed installation instructions. To access the complete, step-by-step installation guide for your specific product, please scan the QR code provided on your product invoice using any smart device (smartphone, tablet, etc.). This ensures you receive the most current and accurate instructions.

General Installation Notes:

- Ensure all components are present and undamaged before beginning installation.
- Refer to your vehicle's service manual for specific disassembly and reassembly procedures if required.

- Always use appropriate safety gear, including eye protection and gloves.
- Ensure the vehicle is stable and secure before working underneath it.
- The winch mount utilizes existing frame points for a bolt-on installation. No drilling or modification to the vehicle frame is typically required.
- Properly route all electrical wiring, ensuring connections are secure and protected from abrasion or heat.

6. OPERATING INSTRUCTIONS

Before operating the winch, familiarize yourself with its controls and safety procedures. Always operate the winch from a safe distance and ensure no bystanders are in the winching area.

6.1 Safety Precautions

- Never exceed the winch's rated capacity.
- Always wear heavy-duty gloves when handling the winch rope and hook.
- Inspect the winch rope, hook, and fairlead for damage before each use.
- Ensure the vehicle's engine is running during winching operations to maintain battery charge.
- Do not use the winch to lift people or objects.
- Keep hands and clothing clear of the winch drum and rope during operation.
- Use a tree saver strap or similar anchor point protector to prevent damage to trees or other objects.
- Place a dampener (e.g., a heavy blanket or jacket) over the middle of the winch rope during operation to absorb energy in case of rope failure.

6.2 Basic Winch Operation

1. **Prepare the Vehicle:** Engage the parking brake and place the transmission in neutral (or park for automatic transmissions).
2. **Identify Anchor Point:** Select a strong, secure anchor point (e.g., a tree, another vehicle, or a rock) capable of withstanding the pulling force.
3. **Attach Winch Rope:** Pull out the desired length of synthetic rope. Attach the winch hook securely to a tree saver strap or recovery strap wrapped around the anchor point. Ensure the hook's safety latch is closed.
4. **Tension the Rope:** Slowly reel in the rope until it is taut, removing any slack.
5. **Clear the Area:** Ensure all personnel are clear of the winch rope and the vehicle's path.
6. **Begin Winching:** Use the remote control to slowly and steadily reel in the rope. Monitor the winching process closely.
7. **Stop Winching:** Once the vehicle is recovered or the task is complete, stop the winch.
8. **Release Tension:** Carefully release tension on the rope.
9. **Disconnect and Rewind:** Disconnect the hook from the anchor point. Neatly rewind the synthetic rope onto the winch drum, ensuring it spools evenly under light tension.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your SuperATV winch system.

- **Rope Inspection:** Regularly inspect the synthetic rope for fraying, cuts, or other damage. Replace damaged rope immediately.
- **Winch Inspection:** Check the winch housing, motor, and gear train for any signs of damage, corrosion, or loose fasteners.
- **Electrical Connections:** Ensure all electrical connections are clean, tight, and free from corrosion.

- **Fairlead:** Keep the fairlead clean and free of debris to prevent damage to the rope.
- **Mounting Plate:** Periodically check the mounting plate and its hardware for tightness and signs of stress or damage. The powder-coated finish helps prevent corrosion, but inspect for any chips or scratches that could expose bare metal.
- **Cleaning:** Clean the winch and mounting plate with mild soap and water after use, especially after exposure to mud, salt, or harsh chemicals. Rinse thoroughly and allow to dry.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your winch system.

- **Winch Not Operating:**
 - Check battery connections for tightness and corrosion.
 - Ensure the vehicle's engine is running.
 - Verify all electrical connections to the winch and remote control are secure.
 - Check for tripped circuit breakers or blown fuses in the winch's electrical system.
- **Winch Operates Slowly or Weakly:**
 - Battery may be low; run the vehicle's engine to charge.
 - Check for excessive load exceeding the winch's capacity.
 - Inspect electrical connections for poor contact or corrosion.
- **Rope Not Spooling Evenly:**
 - Ensure light tension is maintained on the rope during rewinding.
 - Manually guide the rope if necessary to ensure even layering.

If issues persist, consult the detailed online installation guide (via QR code) or contact SuperATV customer support.

9. SPECIFICATIONS

9.1 Winch Specifications (Black Ops 3500 LB)

- **Rated Line Pull:** 3500 lbs (1587 kg)
- **Motor:** 12V DC, 1.2 Hp Permanent Magnet
- **Gear Ratio:** 166:1
- **Rope Type:** Synthetic
- **Rope Length:** 50 ft (15.24 m)
- **Winch Dimensions (L x W x H):** 12.76" x 4.60" x 4.37" (324mm x 117mm x 111mm)
- **Mounting Holes:** 3" x 6 5/8" (76mm x 169mm) and 3" x 4 7/8" (76mm x 124mm)
- **Fairlead Bolt Pattern:** 5.98" (152mm) and 4.29" (109mm)
- **Weight:** Approximately 46 lbs (20.8 kg) (Winch and Mounting Plate combined)

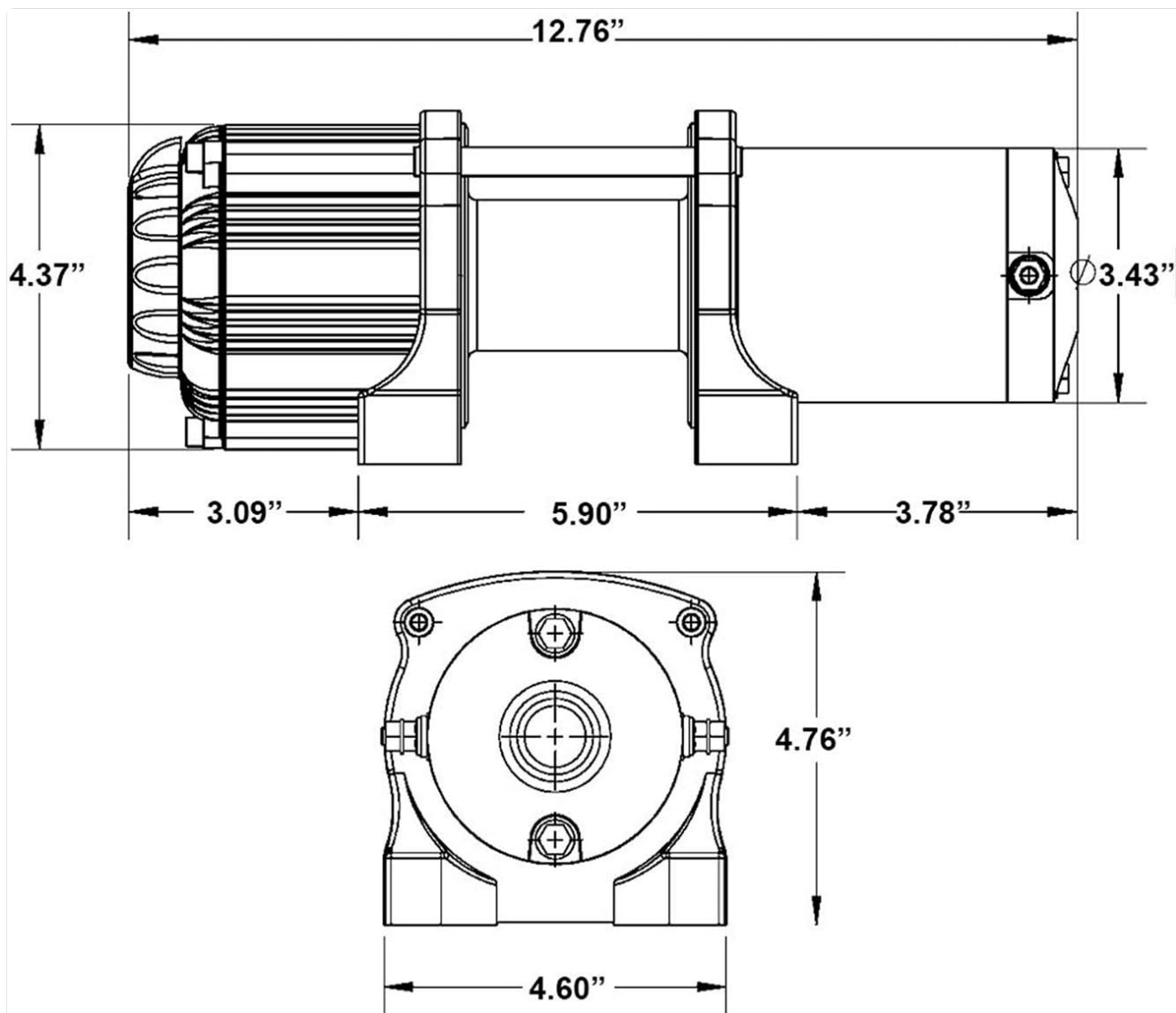


Figure 3: Technical diagram illustrating the dimensions of the SuperATV Black Ops winch. Key measurements for length, width, and height are provided in inches.

9.2 Mounting Plate Specifications

- **Material Thickness:** 3/16 inch steel
- **Finish:** Powder-coated
- **Mounting Bolt Patterns:** Dual patterns for broad winch compatibility (as listed above for winch mounting holes)

10. WARRANTY AND SUPPORT

SuperATV products are designed for durability and performance. The winch mounting plate is powder-coated to ensure a lifetime of durability and performance. For specific warranty details regarding the winch and other components, please refer to the official SuperATV website or contact their customer support directly.

For technical assistance, installation inquiries, or warranty claims, please visit the SuperATV website or use the contact information provided on your purchase documentation. Remember to have your model number (35-WM-RAN900-00) and purchase details available when contacting support.

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