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› OPENROAD 6000 lbs UTV Winch Instruction Manual

OPENROAD 6000lb

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Model: 6000lb

1. INTRODUCTION

This manual provides essential information for the safe and effective operation and maintenance of your OPENROAD 6000 lbs UTV Winch. This heavy-duty electric winch is designed for recovery needs, featuring a 12V DC motor, synthetic rope, and wireless remote controls. Understanding the contents of this manual is crucial for proper installation, safe use, and longevity of the product.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always read and understand the entire instruction manual before operating the winch.
- Wear appropriate safety gear, including heavy-duty gloves and eye protection, during installation and operation.
- Never exceed the rated pulling capacity of the winch (6000 lbs).
- Keep hands and body clear of the winch rope, hook, and fairlead during operation.
- Do not operate the winch if the rope is frayed, kinked, or damaged. Inspect the rope before each use.
- Ensure the vehicle's engine is running during winching operations to maintain battery charge.
- Never use the winch to lift people or for overhead lifting.
- Always use a tree saver strap or anchor point that can withstand the pulling force.
- Disengage the clutch when manually unwinding the rope. Engage the clutch fully before winching.
- Maintain a safe distance from the winch and load during operation.
- Do not operate the winch continuously for extended periods. Allow the motor to cool down between pulls.

3. PRODUCT COMPONENTS

The OPENROAD 6000 lbs UTV Winch includes the following main components:

- Winch Assembly with Synthetic Rope
- Hook
- Fairlead
- Winch Stopper
- Wireless Remote Controls (2 units)
- Wired Remote Control
- Control Box and Wiring Harness



RUBBER STOPPER

Made Of High-Quality Rubber – Durable, Elastic, And Odorless.

- **Protects The Winch Body**
acts as a buffer to prevent the hook from hitting the winch or fairlead during retraction.
- **Protects Rope And Fairlead**
reduces metal friction and impact, extending the life of the rope and fairlead.
- **Marks The Rope Limit**
serves as a visual stop to prevent over-retraction.
- **Reduces Noise And Shaking**
keeps the hook stable while driving, avoiding collisions and noise.

Image showing the OPENROAD UTV Winch assembly with the synthetic rope and the rubber winch stopper installed on the rope near the hook. The stopper acts as a buffer to prevent the hook from hitting the winch or fairlead during retraction, protects the rope and fairlead, marks the rope limit, and reduces noise and shaking.

4. SETUP AND INSTALLATION

Proper installation is critical for the safe and efficient operation of your winch. Ensure your mounting surface can support the

winch's weight and pulling capacity.

4.1 Mounting the Winch

- The winch requires a flatbed mounting channel.
- **Fairlead Mounting Pattern:** 6 5/8 inches (169mm).
- **Winch Mounting 4-Hole Pattern:** 3 inches x 6 5/8 inches (76mm x 169mm).
- Ensure compatibility of mounting holes with your winch bracket before purchase.
- Secure the winch using appropriate hardware (not included, unless specified).

4.2 Electrical Connections

Connect the winch to a 12V DC power source. All connection points are color-coded for ease of installation.

- Connect the ignition wire to the positive battery terminal or a switch wire.
- Ensure all connections are tight and secure to prevent arcing and power loss.



Wiring diagram for the winch, showing connections for the two wireless remote controls and the main power supply. Connection points are color-coded for correct assembly.

4.3 Winch Stopper Installation

Install the rubber winch stopper on the synthetic rope to prevent the hook from being fully retracted into the fairlead, protecting both the winch and the fairlead.

5. OPERATING INSTRUCTIONS

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

5.1 Engaging/Disengaging the Clutch

- To manually unspool the rope, rotate the clutch lever to the "Free Spool" position. This disengages the drum from the gear train.
- To engage the winch for pulling, rotate the clutch lever to the "Engaged" position. Ensure it is fully engaged before operating.

5.2 Using the Remote Controls

The winch comes with two wireless remote controls and one wired remote control.

- **Wireless Remote:** The high-performance wireless remote has an operating range of up to 50 feet (15 meters). To connect the winch, you need to press and hold the "open" and "close" buttons simultaneously for three seconds.
- **Wired Remote:** Connect the wired remote to the designated port on the control box for direct control.
- Use the "IN" button to retract the rope and the "OUT" button to extend the rope.

5.3 Winching Procedure

- Ensure the vehicle is securely anchored.
- Engage the clutch.
- Slowly operate the winch using the remote control, ensuring the rope spools evenly onto the drum.
- The automatic braking system will engage when the winch motor stops with a load on the cable, holding the load in place.
- Avoid side pulls. Position the vehicle and anchor point to allow for a straight pull.

6. MAINTENANCE

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

- **Rope Inspection:** Regularly inspect the synthetic rope for signs of wear, fraying, cuts, or damage. Replace the rope if any damage is found.
- **Electrical Connections:** Check all electrical connections periodically for corrosion or looseness. Clean and tighten as necessary.
- **General Cleaning:** Keep the winch clean from dirt, mud, and debris. Use a mild detergent and water, then rinse thoroughly. Avoid high-pressure washing directly on electrical components.
- **Lubrication:** Consult a qualified technician for internal lubrication if required.



Close-up view of the 1/4 inch by 50 feet (6.4mm x 15m) synthetic winch rope, showing its braided structure and connection to the hook. Regular inspection of the rope is essential for safety.

7. TROUBLESHOOTING

If you encounter issues with your winch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Winch does not operate	No power, loose electrical connections, faulty remote, engaged clutch.	Check battery connections, ensure clutch is engaged, test remote battery, check wiring harness.
Winch operates slowly or with reduced power	Low battery voltage, overloaded winch, poor electrical connections.	Ensure vehicle engine is running, check battery charge, reduce load, inspect connections.
Remote control not working	Remote battery dead, remote not paired, interference.	Replace remote battery, re-pair remote (hold "open" and "close" for 3 seconds), try wired remote.

Problem	Possible Cause	Solution
Winch motor overheats	Continuous operation, excessive load.	Allow motor to cool down, reduce pull duration, ensure load is within capacity.

8. SPECIFICATIONS

Key technical specifications for the OPENROAD 6000 lbs UTV Winch:

Feature	Specification
Rated Line Pull	6000 lbs (2721 kg)
Motor	12V DC, 2.9 HP / 2.2 kW Permanent Magnet
Gear Train	3-Stage Planetary
Gear Ratio	166:1
Clutch	Free Spooling
Braking Action	Automatic (Dynamic)
Rope Type	Synthetic Rope
Rope Dimensions	1/4 inch x 50 feet (6.4mm x 15m)
Fairlead	Roller Fairlead (or Hawse, depending on model)
Wireless Remote Range	Up to 50 feet (15 meters)
No-Load Line Speed	19.8 feet per minute
Full-Load Line Speed	2.9 feet per minute
Item Weight	30 pounds
Product Dimensions	20 x 14 x 7 inches
Manufacturer	OPENROAD



3 STAGE PLANETARY GEAR



2.0KW/2.7HP MOTOR



12V VOLTAGE



192:1 GEAR RATIO

Diagram illustrating the internal 3-stage planetary gear system of the winch, highlighting the 2.0kW/2.7HP motor and 12V voltage, which contribute to its pulling power.

9. WARRANTY AND SUPPORT

OPENROAD is committed to providing quality products and customer satisfaction.

- **Warranty:** This product comes with a one-year warranty from the date of purchase.
- **Technical Support:** Lifetime technical support is provided for this product.
- **Contact:** For any inquiries, technical assistance, or warranty claims, please contact OPENROAD customer service. We guarantee professional and quick service within 12 hours.