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## VEVOR Winch\_02

# VEVOR 3000 lb Electric Winch User Manual

Model: Winch\_02

## 1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your VEVOR 3000 lb Electric Winch. Please read and understand all instructions and warnings before using the product. Proper use and maintenance will ensure optimal performance and extend the lifespan of your winch.

## 2. SAFETY INFORMATION

Always prioritize safety when operating the winch. Failure to follow these safety guidelines can result in serious injury or property damage.

- **Read the Manual:** Understand all operating procedures and safety warnings before use.
- **Wear Protective Gear:** Always wear heavy-duty gloves and eye protection.
- **Inspect Before Use:** Check the winch, cable, hook, and all connections for damage or wear before each operation. Do not use if damaged.
- **Rated Capacity:** Never exceed the winch's rated pulling capacity of 3000 lbs. Use a snatch block to double the line if necessary for heavier loads.
- **Maintain Safe Distance:** Keep hands, hair, clothing, and jewelry clear of the cable, hook, and fairlead during operation. Stand clear of the cable's path.
- **Secure Anchor Point:** Always use a strong, stable, and reliable anchor point for recovery operations.
- **Cable Safety:** Never handle the cable under tension. Do not wrap the cable around an object and hook it back onto itself, as this can damage the cable.
- **Battery Connection:** Ensure proper battery connections (12V DC). Avoid short circuits.
- **Avoid Overheating:** Do not operate the winch continuously for extended periods. Allow the motor to cool down between pulls.
- **Wireless Remote:** Keep the wireless remote control away from children and unauthorized users. Ensure the operator is in a safe position with a clear view of the winching operation.
- **Red Cable Mark:** The last 5 rolls of the cable are marked red as a safety alert. Do not extend the cable beyond this point during operation.

### 3. PRODUCT OVERVIEW

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The VEVOR 3000 lb Electric Winch is designed for reliable pulling and recovery tasks. It features a robust motor, durable steel cable, and an IP55 waterproof rating for outdoor use.

#### Key Features:

- **Powerful Motor:** Equipped with a differential Planetary Gear for high performance and stability, operating on 12V DC input.
- **IP55 Waterproof Design:** Built to withstand harsh outdoor environments, including mud, rain, and snow.
- **High-Strength Steel Cable:** Features a 19-strand steel cable for reliable pulling operations. The last 5 rolls are marked red for safety.
- **Wireless Remote Control:** Allows for safe operation from a distance of up to 66 feet (20 meters).
- **Versatile Application:** Suitable for ATVs, UTVs, SUVs, trucks, cars, trailers, and boats within its rated pulling force.

#### Components:

The winch system typically includes the winch unit, steel cable with hook, fairlead, control box, wired controller, wireless remote control, mounting plate, and a set of screws.



**Figure 3.1:** VEVOR 3000 lb Electric Winch. This image shows the complete winch unit with the steel cable spooled, the hook attached, and the fairlead mechanism.

# COMPACT DESIGN, POWERFUL MOTOR

3-Stage Planetary Gear



12V DC Voltage



1.3 Horse Power



1800RPM Rated Speed

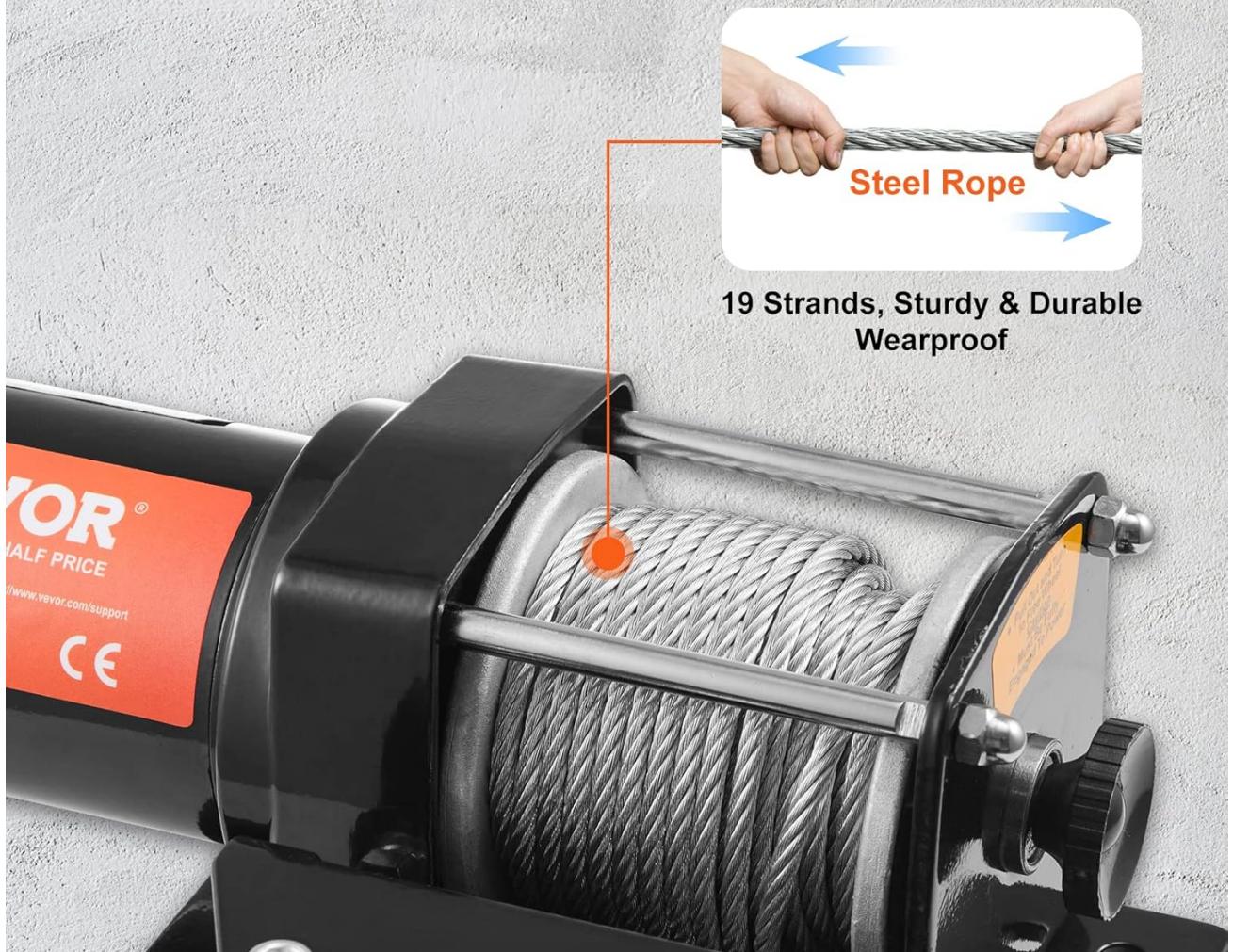


3.2Nm Rated Torque

**Figure 3.2:** Internal motor design. This illustration highlights the 3-stage planetary gear system and motor components, indicating 12V DC voltage, 1.3 horsepower, 1800 RPM rated speed, and 3.2 Nm rated torque.

# HIGH-STRENGTH STEEL CABLE

Crafted for Safe Operation and Avoid Sudden Breaking



**Figure 3.3:** High-strength steel cable. The image shows a close-up of the 19-strand steel rope, emphasizing its sturdy, durable, and wear-proof construction for safe operation.

# IP55 WATERPROOF RATED

Designed for Outdoors Operation



**Figure 3.4:** IP55 waterproof design. This image illustrates the winch's resistance to water and mud, confirming its suitability for outdoor operations in challenging weather conditions.

## 4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your winch. If you are unsure about any step, consult a qualified professional.

### 4.1 Mounting the Winch

- Choose Location:** Select a sturdy, flat surface on your vehicle (e.g., winch bumper) capable of supporting the winch's weight and pulling forces.
- Secure Mounting Plate:** If using a separate mounting plate, attach it securely to the vehicle frame using appropriate hardware.
- Mount Winch:** Position the winch on the mounting plate or bumper, aligning the mounting holes. Secure the winch using the provided bolts, washers, and nuts. Ensure all fasteners are tightened to the manufacturer's specifications.
- Install Fairlead:** Attach the 4-way roller fairlead to the mounting surface, ensuring the rollers are free to rotate and the cable can pass through smoothly.

## 4.2 Electrical Wiring

Connect the winch to a 12V DC vehicle battery. Ensure the vehicle's engine is off during wiring to prevent accidental activation.

- 1. Identify Wires:** The winch typically has two main power cables (red for positive, black for negative) and control wires for the solenoid/control box.
- 2. Connect Control Box:** Mount the control box in a secure, dry location, away from moving parts and heat sources. Connect the control box wires to the winch motor terminals as indicated in the wiring diagram (refer to specific diagram if provided with product).
- 3. Connect to Battery:** Connect the red positive (+) cable from the control box to the positive (+) terminal of the vehicle battery. Connect the black negative (-) cable from the control box to the negative (-) terminal of the vehicle battery or a suitable chassis ground.
- 4. Secure Connections:** Ensure all electrical connections are tight and protected from corrosion and abrasion. Use dielectric grease on terminals if recommended.
- 5. Test Functionality:** After installation, perform a brief test of the winch's IN and OUT functions using both the wired and wireless remotes to ensure proper operation.



**Figure 4.1:** Winch with control box. This image displays the winch unit along with its separate control box and associated wiring, illustrating the components involved in electrical connection.

## 5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective winch operation.

## 5.1 Preparing for Winching

- Vehicle Position:** Position your vehicle to allow a straight pull to the anchor point. Avoid angled pulls that can damage the cable or winch.
- Engage Clutch (if applicable):** If your winch has a clutch lever, disengage it to allow the cable to free-spool.
- Unspool Cable:** Pull out enough cable to reach your anchor point. Always leave at least 5 wraps of cable on the drum to prevent the cable from detaching.
- Secure Hook:** Attach the hook securely to a tree saver strap, clevis shackle, or other appropriate recovery gear connected to your anchor point. Never hook directly to the cable or an object.
- Dampening:** Place a heavy blanket or winch dampener over the middle of the cable. This helps absorb energy if the cable breaks.
- Engage Clutch:** Re-engage the clutch lever to lock the drum.
- Tension Cable:** Use the remote control to slowly reel in the slack until the cable is taut.

## 5.2 Winching Operation

- Start Engine:** Start your vehicle's engine to maintain battery voltage during winching.
- Operate Remote:** Use the wireless or wired remote control to slowly reel in the cable. Press the "IN" button to pull the load.
- Monitor Operation:** Continuously monitor the winching process, ensuring the cable spools evenly and there are no obstructions or excessive strain.
- Short Bursts:** For heavy loads, use short, controlled pulls rather than continuous operation to prevent motor overheating. Allow the motor to cool between pulls.
- Stop When Clear:** Once the load is recovered or moved to the desired position, stop winching.

## 5.3 After Winching

- Release Tension:** Carefully release tension on the cable.
- Disconnect:** Disconnect the hook from the anchor point.
- Respool Cable:** With light tension, slowly respool the cable onto the drum. Ensure the cable spools neatly and tightly to prevent damage. Do not allow the cable to become tangled or overlap excessively.
- Secure Hook:** Secure the hook to the fairlead or a designated hook point on your vehicle.
- Store Remote:** Store the remote control in a safe place.

# HASSLE-FREE WIRELESS REMOTE CONTROL



**Figure 5.1:** Wireless remote control in use. This image shows a Jeep equipped with the VEVOR winch, with a hand holding the wireless remote control, demonstrating its use for convenient and safe operation from a distance.

## 6. MAINTENANCE

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

- **Cable Inspection:** Regularly inspect the steel cable for kinks, frayed strands, broken wires, or corrosion. Replace damaged cables immediately.
- **Clean Winch:** After use, especially in muddy or wet conditions, clean the winch thoroughly with water and a mild detergent. Rinse well and allow to dry.
- **Lubrication:** Periodically lubricate moving parts such as the clutch mechanism and fairlead rollers with a suitable grease or lubricant.
- **Electrical Connections:** Check all electrical connections for corrosion or looseness. Clean and tighten as necessary.
- **Battery:** Ensure your vehicle battery is in good condition and fully charged, especially before winching operations.
- **Storage:** When not in use, store the winch in a dry, protected environment. If permanently mounted, ensure it is covered to protect from elements.

## 7. TROUBLESHOOTING

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If you encounter issues with your winch, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Winch does not operate	No power to winch; Loose electrical connections; Faulty remote; Engaged clutch.	Check battery connections and charge; Tighten all wiring; Test with wired remote; Disengage clutch.
Winch operates slowly or weakly	Low battery voltage; Overloaded winch; Corroded electrical connections; Motor overheating.	Charge battery or start vehicle engine; Reduce load or use snatch block; Clean and tighten connections; Allow motor to cool.
Cable spools unevenly	Lack of tension during respooling; Damaged fairlead.	Respool cable under light tension; Inspect and replace fairlead if damaged.
Winch makes unusual noises	Internal damage; Lack of lubrication.	Discontinue use and inspect; Lubricate moving parts. If noise persists, seek professional service.

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

## 8. SPECIFICATIONS

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Detailed technical specifications for the VEVOR 3000 lb Electric Winch.

# PRODUCT SPECIFICATIONS



Rated Line Pull

**3000 lbs**

Net Weight

**19 lbs ± 3%**

Control Mode

**Controller ( Wired )**

IP Rated

**IP55**

**Figure 8.1:** Product dimensions. This image provides key measurements of the winch unit, including length (11.8 in / 30 cm), height (4.17 in / 10.6 cm), and depth (4.07 in / 10.35 cm).

Specification	Value
Model Number	Winch_02
Rated Line Pull	3000 lbs
Power Source	12V DC Electric
Item Weight	18 pounds
Product Dimensions	13.4 x 9.5 x 6.3 inches
IP Rating	IP55
Control Mode	Wireless Handheld Remote & Wired Controller

Specification	Value
Cable Type	Steel Rope (3/16" x 39ft)
Fairlead Type	4-Way Roller Fairlead