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VEVOR 12000lb

VEVOR 12000lb Electric Winch Instruction Manual

Model: 12000lb

1. Introduction

This manual provides detailed instructions for the safe and efficient operation and maintenance of your VEVOR 12000lb Electric Winch. Please read this manual thoroughly before installation and use to ensure proper function and to prevent injury or damage. Keep this manual for future reference.

2. Safety Information

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

- **Read the Entire Manual:** Understand all operating procedures and safety warnings before use.
- **Wear Protective Gear:** Always wear heavy-duty gloves and eye protection when handling the winch cable.
- **Keep Clear:** Maintain a safe distance from the winch, cable, and hook during operation. Never step over a tensioned cable.
- **Inspect Before Use:** Check the winch, cable, hook, and all connections for damage or wear before each operation. Do not use if damaged.
- **Avoid Overloading:** Do not exceed the rated line pull capacity of 12000 lbs (5400 kg). Overloading can cause winch failure and injury.
- **Secure Mounting:** Ensure the winch is securely mounted to a structure capable of withstanding the maximum pulling force.
- **Proper Anchoring:** Use a suitable anchor point for recovery operations.
- **Layer the Cable:** Always ensure at least five wraps of cable remain on the winch drum to prevent the cable from detaching.
- **Use a Dampener:** Place a heavy blanket or winch dampener over the cable during recovery to absorb energy in case of cable breakage.
- **Electrical Safety:** Ensure all electrical connections are secure and properly insulated. Avoid contact with water during electrical connection.
- **Children and Bystanders:** Keep children and bystanders away from the winching area.

For a complete list of safety precautions, refer to the detailed safety section in your included user manual.

3. Product Overview and Features

The VEVOR 12000lb Electric Winch is designed for heavy-duty recovery and towing applications, featuring robust construction and reliable performance.

Key Features:

- **12000 lbs Strong Pull:** Delivers substantial pulling force for effective recovery from challenging terrains like mud or sand.
- **High-Power 6HP Motor:** Equipped with a 12V DC, 6HP pure copper motor and a 265:1 3-stage planetary gear system for steady, sustained pulling power without overheating.
- **All-Weather Durability (IP55):** Features a Φ0.36 in x 80 ft (9.1 mm x 24 m) 12-strand steel rope resistant to sunlight, wear, and breakage. The IP55 sealed, powder-coated alloy body provides protection against dust, rain, and harsh conditions.
- **Secure Remote Control Options:** Includes a 98 ft (30 m) wireless remote for safe distance operation and a 9.8 ft (3 m) wired remote as a reliable backup.
- **Wide Compatibility:** Universal mounting pattern suitable for most SUVs, pickup trucks, and Jeeps.



Figure 3.1: The VEVOR 12000lb Electric Winch in action, providing strong pulling force for vehicle recovery.



Figure 3.2: Internal view of the winch motor and gear system, illustrating its high-power design.

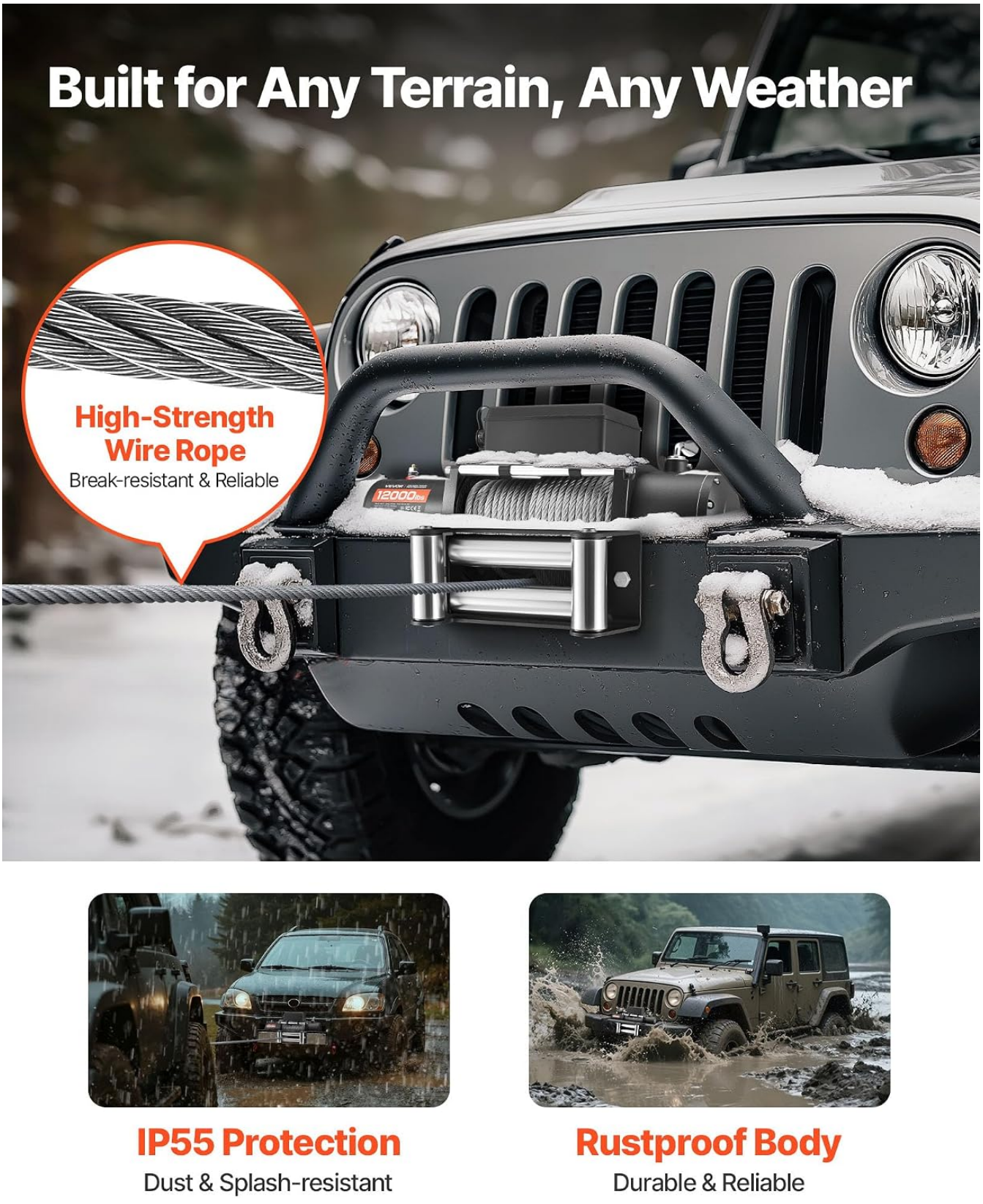

Figure 3.3: The winch operating in challenging weather conditions, demonstrating its all-weather durability.

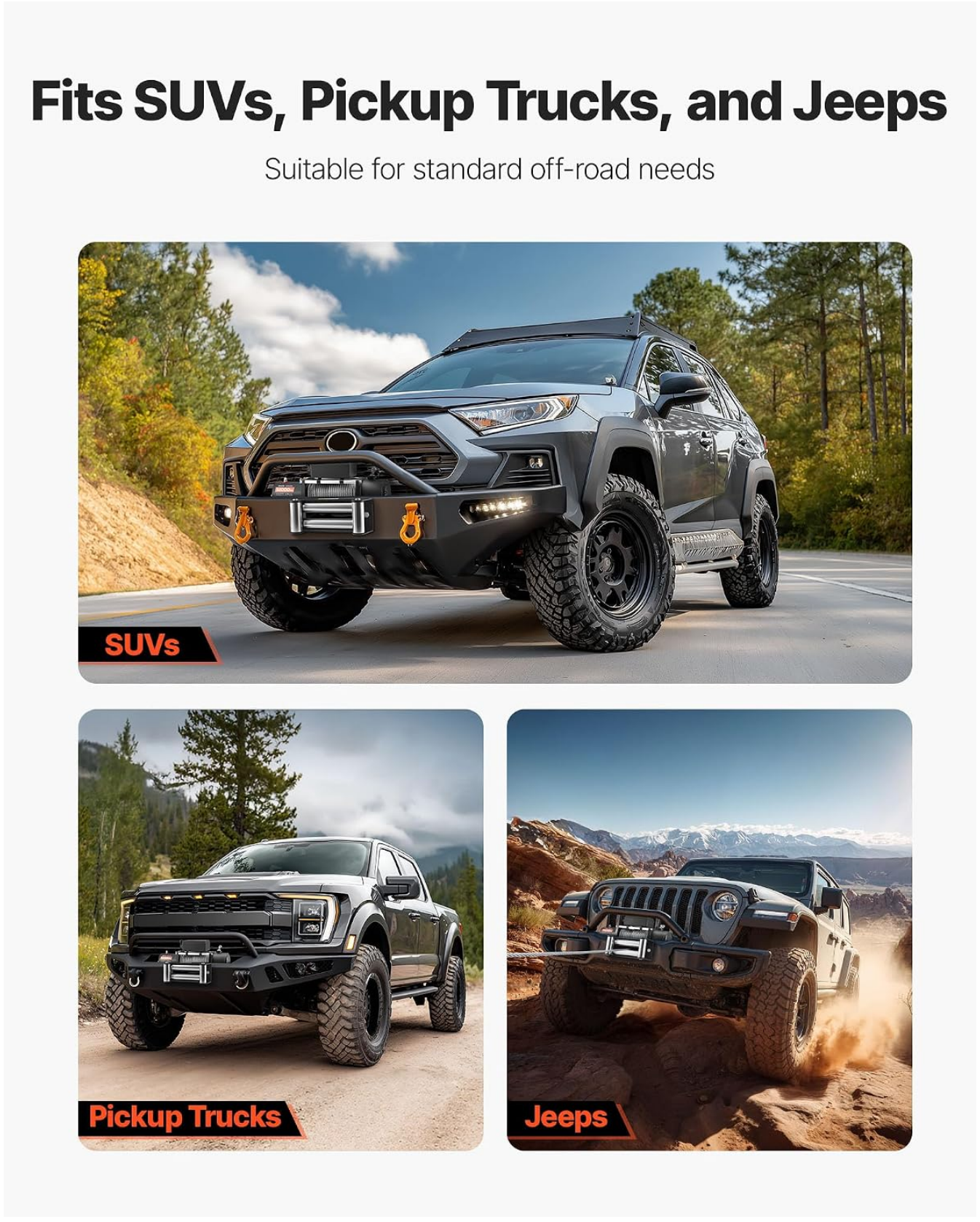

Figure 3.4: Examples of vehicles compatible with the VEVOR electric winch.

4. Components Included

Your VEVOR 12000lb Electric Winch package includes the following items:

- 1 x Electric Winch with Φ0.36 in x 80 ft Steel Rope
- 1 x Control Box (with cable set)

- 1 x Fairlead
- 1 x 3/8 Clevis Hook
- 1 x Negative Power Cable (1.8 m)
- 1 x Pack of Mounting Bolts
- 1 x Red Strap
- 1 x User Manual
- 1 x Wired Remote Control
- 1 x Wireless Remote Control
- 2 x Mounting Hooks



Figure 4.1: Overview of the winch and its included components.

5. Setup and Installation

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

Installation Steps:

1. **Choose Mounting Location:** Select a mounting location on your vehicle (e.g., bumper) that is structurally sound and can support the winch's weight and pulling forces.
2. **Mount the Winch:** Secure the winch using the provided mounting bolts. Ensure all bolts are tightened to the manufacturer's specifications.
3. **Install the Fairlead:** Attach the fairlead to the winch mounting plate. The fairlead guides the wire rope onto the drum evenly and reduces wear.
4. **Connect the Control Box:** Mount the control box in a secure location, typically near the winch or in the engine bay. Connect the color-coded cables from the control box to the winch motor terminals and the vehicle's battery as per the wiring diagram in the full user manual.
5. **Attach the Hook:** Securely attach the clevis hook to the end of the wire rope.
6. **Spool the Wire Rope:** Carefully unspool the wire rope and then re-spool it under a light load (e.g., pulling a small vehicle on flat ground) to ensure tight and even layering on the drum. This prevents damage to the rope and winch.



Figure 5.1: Winch assembly with fairlead and hook, prior to vehicle installation.

6. Operating Instructions

Familiarize yourself with the winch controls and clutch mechanism before operating.

Clutch Operation:

- **Engage Clutch (IN ENGAGE):** To engage the winch drum for powered winding, turn the clutch lever to the "IN ENGAGE" position.
- **Disengage Clutch (OUT DISENGAGED):** To allow the wire rope to free-spool manually, turn the clutch lever to the "OUT DISENGAGED" position. This is useful for quickly pulling out the rope to an anchor point.

Remote Control Usage:

The winch can be operated using either the wired or wireless remote control.

- **Wired Remote Control:** Plug the wired remote into the control box. Use the "IN" button to retract the cable and the "OUT" button to extend the cable.
- **Wireless Remote Control:** Ensure the wireless remote has working batteries. Use the designated buttons for "IN" (retract) and "OUT" (extend) operations. The wireless remote allows for operation from a safe distance (up to 98 ft / 30 m).



Figure 6.1: Operating the winch using both wired and wireless remote controls.

▶ **Watch video online**

Strong wireless remote control makes it easy to use

Video 6.1: Demonstration of the wireless remote control for the VEVOR electric winch, highlighting its ease of use.

7. Maintenance

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

- **Cable Inspection:** Regularly inspect the wire rope for kinks, fraying, broken strands, or corrosion. Replace damaged cables immediately.
- **Hook and Fairlead:** Check the hook for deformation or damage and ensure the safety latch operates correctly. Inspect the fairlead rollers for smooth operation and signs of wear.
- **Electrical Connections:** Verify that all electrical connections are clean, tight, and free from corrosion. Apply dielectric grease to terminals if necessary.
- **Mounting Hardware:** Periodically check all mounting bolts and nuts for tightness. Re-tighten as needed.
- **Cleaning:** Clean the winch exterior after use, especially after exposure to mud, salt water, or harsh chemicals.
- **Lubrication:** Refer to the full user manual for specific lubrication points and recommended lubricants.
- **Storage:** Store the winch in a dry, protected area when not in use.

8. Troubleshooting

This section addresses common issues you might encounter with your winch. For more complex problems, contact VEVOR customer support.

Problem	Possible Cause	Solution
Winch does not operate	No power to the winch; Loose electrical connections; Faulty remote control; Engaged clutch.	Check battery connections and voltage; Ensure all cables are securely connected; Test with wired remote if wireless fails (or vice versa); Ensure clutch is in "IN ENGAGE" position.
Winch operates slowly or with reduced power	Low battery voltage; Overload; Motor overheating; Corroded terminals.	Charge vehicle battery; Reduce load; Allow motor to cool down; Clean and tighten battery terminals.
Wire rope spools unevenly	Improper initial spooling; Winching at extreme angles.	Re-spool the cable under light tension; Try to maintain a straight pull to the anchor point.
Remote control not working	Dead batteries (wireless); Loose connection (wired); Interference (wireless).	Replace batteries in wireless remote; Check wired remote connection; Move away from sources of interference.

9. Specifications

Detailed technical specifications for the VEVOR 12000lb Electric Winch:

Feature	Specification
Item Model Number	12000lb
Rated Line Pull	12000 lbs / 5400 kg
Control Modes	Wireless & Wired Remote Control
Rope Specification	Steel Wire Rope
Rope Diameter	Φ0.36 in / 9.1 mm
Rope Length	80 ft / 24 m

Feature	Specification
Motor Specification	12V DC, 6 HP Pure Copper Motor
Gear Ratio	265:1
Main Materials	Aluminum Alloy, Steel, Plastic
IP Rating	IP55
Net Weight	72.8 lbs / 33 kg
Item Dimensions (with Control Box)	21 x 6.3 x 9.65 in / 534 x 160 x 245 mm

10. Warranty and Support

VEVOR products are built to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official VEVOR website. Please have your model number and purchase date available when contacting support.

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