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Anbull TX13500

Anbull 12V 13500 LBS Electric Winch Instruction Manual

Model: TX13500 | Brand: Anbull

1. Introduction

This manual provides essential information for the safe and effective operation, installation, and maintenance of your Anbull 12V 13500 LBS Electric Winch. Please read this manual thoroughly before using the winch to ensure proper function and to prevent injury or damage.

The Anbull TX13500 electric winch is designed for heavy-duty recovery and pulling applications, featuring a powerful 12V motor and a durable synthetic rope. Its IP67 waterproof rating ensures reliable performance in various challenging environments.

2. Safety Information

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

- Always wear heavy-duty gloves and eye protection when operating the winch.
- Never exceed the rated capacity of the winch. The 13500 LBS (6136 Kg) rating is for a single line pull.
- Keep hands and clothing clear of the rope, hook, and fairleader during operation.
- Ensure the vehicle's engine is running during winching to maintain battery power.
- Do not operate the winch for extended periods under heavy load. Allow the motor to cool down between pulls.
- Inspect the synthetic rope, hook, and all connections before each use for signs of wear or damage. Replace damaged components immediately.
- Never disconnect the clutch while the winch is under load.
- Use a tree trunk protector or anchor strap when attaching to trees to prevent damage.
- Always ensure the anchor point is secure and capable of withstanding the pulling force.
- Keep bystanders at a safe distance from the winching area.

3. Package Contents

Verify that all items listed below are included in your package:

- Anbull 12V 13500 LBS Electric Winch with Synthetic Rope
- Control Box
- Wired Remote Control (1 unit)
- Wireless Remote Controls (2 units)

- Aluminum Fairleader
- Grab Hook
- Power Cables
- Set of Mounting Screws
- Hook Strap
- Instruction Manual



Image: All components included with the Anbull 13500 LBS Electric Winch, including the winch unit, control box, remotes, fairleader, hook, and mounting hardware.

4. Specifications

Feature	Specification
Model Number	TX13500
Rated Line Pull	13500 LBS (6136 Kg)

Feature	Specification
Motor	12V DC, 6.0 HP / 4.5 kW Series Wound
Gear Train	3-Stage Planetary
Gear Ratio	265:1
Clutch	Sliding Ring Gear
Braking Action	Automatic In-Drum
Rope Type	Synthetic Rope
Rope Dimensions	9.5 mm x 26 m (3/8 inch x 85 ft)
Fairleader	Aluminum Hawse Fairleader
Waterproof Rating	IP67
No-Load Line Speed	6.5 m/min
Full-Load Line Speed	1.15 m/min
Product Dimensions (L x W x H)	35 x 26 x 60 cm (approximate)
Product Weight	27.5 Kg (60.6 lbs)
Remote Control Range	20 m
Remote Control Battery	2 x AAA (included)
Recommended Winch Battery	12V Car Battery or 400-500A Battery

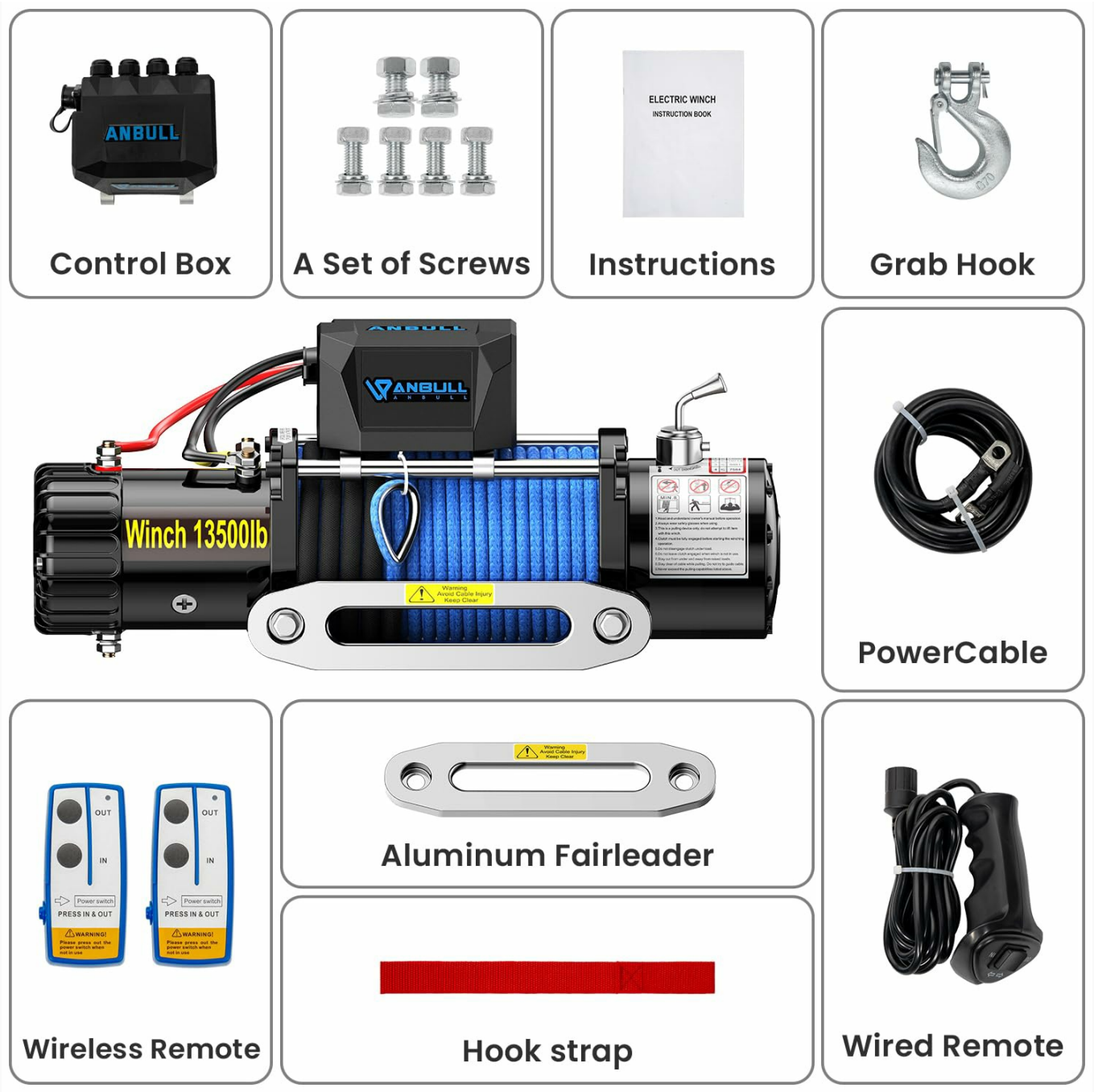


Image: Detailed dimensions of the winch unit and the aluminum fairleader, crucial for mounting.



Image: Illustration highlighting the powerful 6.0 HP pure copper motor and the robust planetary gear system of the winch.

5. Setup and Installation

Proper installation is critical for the safe and efficient operation of your winch. It is recommended to have the winch installed by a qualified professional if you are unsure about any steps.

5.1 Mounting the Winch

1. Select a suitable mounting location on your vehicle, typically a winch bumper or a dedicated winch plate, ensuring it can support the winch's weight and pulling forces.
2. Confirm the mounting plate dimensions match the winch's bolt pattern (refer to dimensional details in Specifications).
3. Secure the winch to the mounting surface using the provided high-strength bolts. Ensure all bolts are tightened to the manufacturer's specifications.
4. Install the aluminum fairleader to guide the synthetic rope smoothly and protect it from abrasion.

5.2 Electrical Connection

The winch requires a 12V power source, typically your vehicle's battery. All connection points are color-coded for ease of assembly.

1. Mount the control box in a secure location, away from heat and moisture.
2. Connect the thick red power cable from the control box to the positive (+) terminal of your vehicle's 12V battery.
3. Connect the thick black power cable from the control box to the negative (-) terminal of your vehicle's 12V battery or a suitable chassis ground point.
4. Connect the motor cables from the winch to the corresponding terminals on the control box. These are typically color-coded (e.g., blue, yellow, black for motor, red for battery).
5. Connect the wired remote control cable to the designated port on the control box.
6. Ensure all connections are tight and insulated to prevent short circuits.

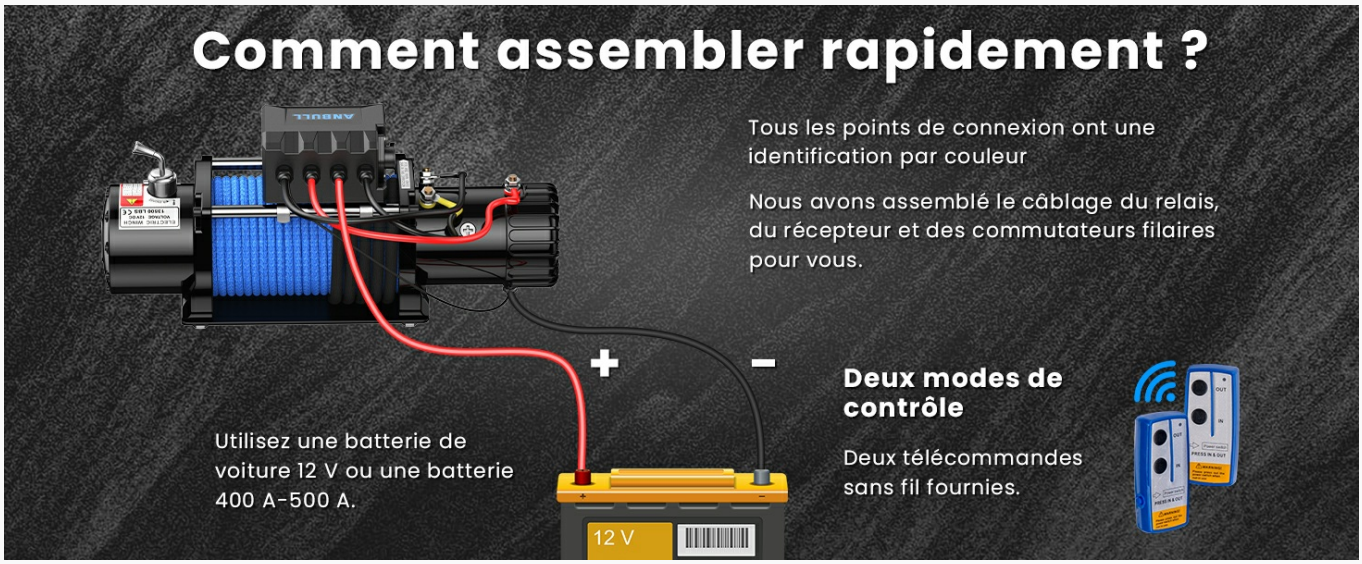


Image: A simplified wiring diagram illustrating how to connect the winch to a 12V battery and the control box, with color-coded connections.

6. Operating Instructions

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

6.1 Preparing for Winching

1. Ensure the vehicle's engine is running to provide adequate power to the winch.

2. Disengage the clutch by rotating the clutch lever to the "FREE SPOOL" position.
3. Pull out the synthetic rope to the desired length, ensuring at least 5 wraps remain on the drum.
4. Attach the grab hook to a secure anchor point using a tree trunk protector or recovery strap. Ensure the anchor point is directly in line with the pull to minimize side loading.
5. Engage the clutch by rotating the clutch lever to the "ENGAGED" position.
6. Place a dampener (e.g., a heavy blanket or jacket) over the middle of the rope to absorb energy in case of rope failure.

6.2 Winching Operation

1. Stand at a safe distance, clear of the rope and vehicle.
2. Using the remote control, press the "IN" button to begin winching. Observe the rope winding onto the drum evenly.
3. If the rope begins to pile up on one side, stop winching and manually guide the rope to spool evenly.
4. Avoid continuous winching for more than one minute under heavy load. Allow the motor to cool for several minutes if it becomes hot.
5. To release tension, press the "OUT" button.
6. Once the recovery is complete, release the tension, disconnect the hook from the anchor point, and carefully rewind the rope onto the drum.

6.3 Winch Line Pull Capacity

The winch's pulling capacity varies depending on the number of rope layers on the drum. The first layer provides the maximum pull force.

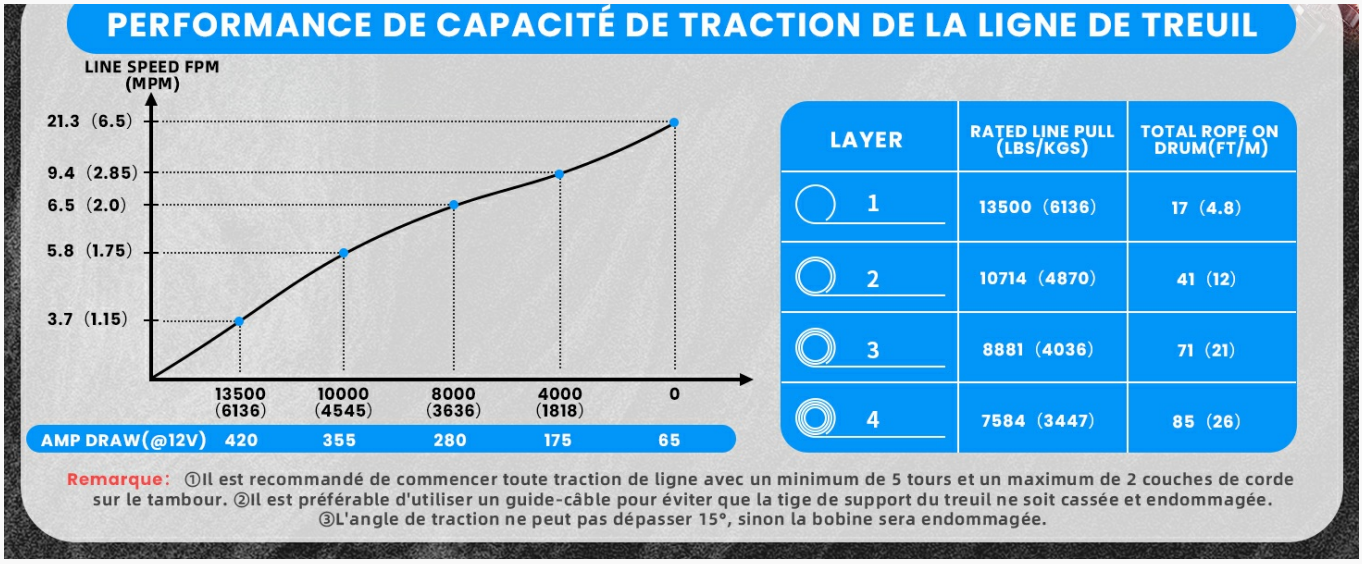


Image: Chart detailing the line speed and pulling capacity (LBS/KGS) for each layer of rope on the winch drum, along with current draw (AMP DRAW) at 12V.

Note: It is recommended to start all line pulls with a minimum of 5 turns and a maximum of 2 layers of rope on the drum. Use a roller fairlead to prevent damage to the winch support rod. The pulling angle should not exceed 15 degrees to prevent drum damage.



Image: The Anbull 13500 LBS Electric Winch installed on the front bumper of an off-road vehicle, ready for use.



Image: The Anbull winch in action, demonstrating its capability to pull a boat onto a trailer, highlighting its versatility and IP67 waterproof design.



Image: Collage showing the Anbull winch being used in diverse environments and for different vehicles, including off-road vehicles and

boat trailers.

7. Maintenance

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

- **Rope Inspection:** Regularly inspect the synthetic rope for fraying, cuts, or other damage. If the rope is damaged, replace it immediately.
- **Rope Care:** Clean the synthetic rope with mild soap and water if it becomes dirty. Avoid harsh chemicals.
- **Electrical Connections:** Periodically check all electrical connections for corrosion or looseness. Clean and tighten as necessary.
- **Lubrication:** The gearbox is factory-lubricated and generally does not require additional lubrication. Refer to a qualified service technician for internal maintenance.
- **Storage:** If the winch is not used for extended periods, ensure it is clean and stored in a dry environment.

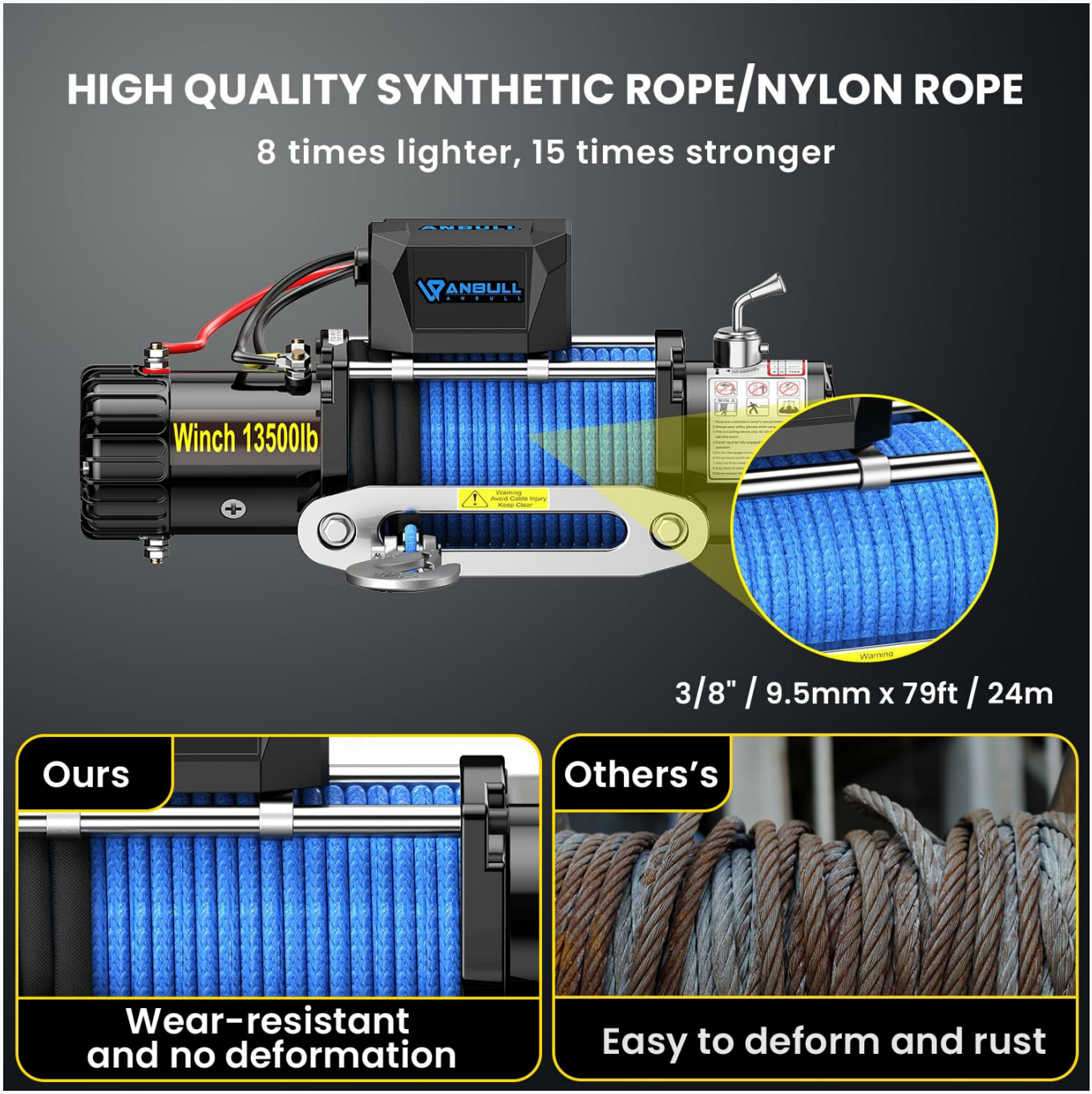


Image: A close-up comparison illustrating the superior condition of the Anbull synthetic rope (left) against a worn and rusty steel cable (right), emphasizing the synthetic rope's durability and resistance to deformation and rust.

8. 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 to the winch; Loose electrical connections; Faulty remote control; Blown fuse/circuit breaker.	Check battery connections; Ensure vehicle engine is running; Check remote control battery (2x AAA); Inspect and replace fuse/breaker if necessary.
Winch operates slowly or with reduced power	Low battery voltage; Overload; Motor overheating.	Ensure battery is fully charged and vehicle engine is running; Reduce load; Allow motor to cool down.
Rope spools unevenly	Incorrect winching technique; Fairleader obstruction.	Manually guide the rope during winching; Ensure fairleader is clear of debris.
Winch makes unusual noises	Damaged gears; Loose components.	Stop operation immediately. Contact customer support or a qualified technician.
Wireless remote not working	Dead batteries; Out of range; Interference.	Replace AAA batteries in the remote; Move closer to the winch; Check for strong radio interference.

9. Warranty and Support

Anbull products are manufactured to high-quality standards. For warranty information, technical support, or replacement parts, please contact Anbull customer service through your purchase platform or the official Anbull website.

Please have your model number (TX13500) and purchase date available when contacting support.

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