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> TYT 3500 lb ATV Winch Instruction Manual

TYT 3500 lb

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Model: 3500 lb

1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of your TYT 3500 lb ATV Winch. Please read this manual thoroughly before using the winch to ensure proper function and to prevent injury or damage.

2. SAFETY INFORMATION

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

- Do not exceed the rated pulling capacity of 3500 lbs.
- Wear appropriate safety gear, including gloves and eye protection.
- Ensure the winch is securely mounted to a structurally sound part of your vehicle.
- Keep hands and clothing clear of the winch rope, hook, and fairlead during operation.
- Never operate the winch with frayed, kinked, or damaged rope. Inspect the rope before each use.
- Do not use the winch for lifting people or for overhead lifting applications.
- Always use a tree saver strap or similar anchor point protector to prevent damage to trees or other anchor objects.
- Disconnect the winch from the power source when not in use or during maintenance.
- Maintain a safe distance from the winch and load during operation.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking. If any items are missing or damaged, contact customer service.

POWERFUL PERMANENT MAGNET MOTOR

• **1.5HP** Series Motor

• **1.0KW** High Power

• **12V** Steady Voltage



Image: Overview of the TYT 3500 lb ATV Winch and its included accessories.

ACCESSORY COMPONENTS



Control Box



Install Bolt



Instructions



Clevis Hook



Mounting Plate



Aluminum Fairleader



Brand Strap



Wired Remote



Wireless Remote



Rubber Stopper

Image: Detailed view of all accessory components included with the winch.

- TYT 3500 lb ATV Winch

- Control Box
- Wireless Remote Control
- Wired Remote Control (10-foot)
- Aluminum Fairlead
- Clevis Hook
- Mounting Plate
- Rubber Stopper
- Installation Bolts and Hardware
- Instruction Manual

4. SPECIFICATIONS

Feature	Specification
Model Number	3500 lb
Rated Single Line Pull	3500 lbs (1590 kg)
Motor	12V DC, 1.5 HP Permanent Magnet
Gearing	3-Stage Planetary
Gear Ratio	153:1
Winch Rope	7/32" x 30 ft (5mm x 10m) Synthetic Rope
Fairlead	Aluminum Hawse Fairlead
Winch Body Size	13" x 4" x 4.5"
Mounting Plate 2-Hole Spacing	3" (76mm) / 3.10" (78mm)
Fairlead Mounting Pattern	4 7/8" (124mm)
Item Weight	16.61 pounds
Product Dimensions	10 x 6 x 7 inches

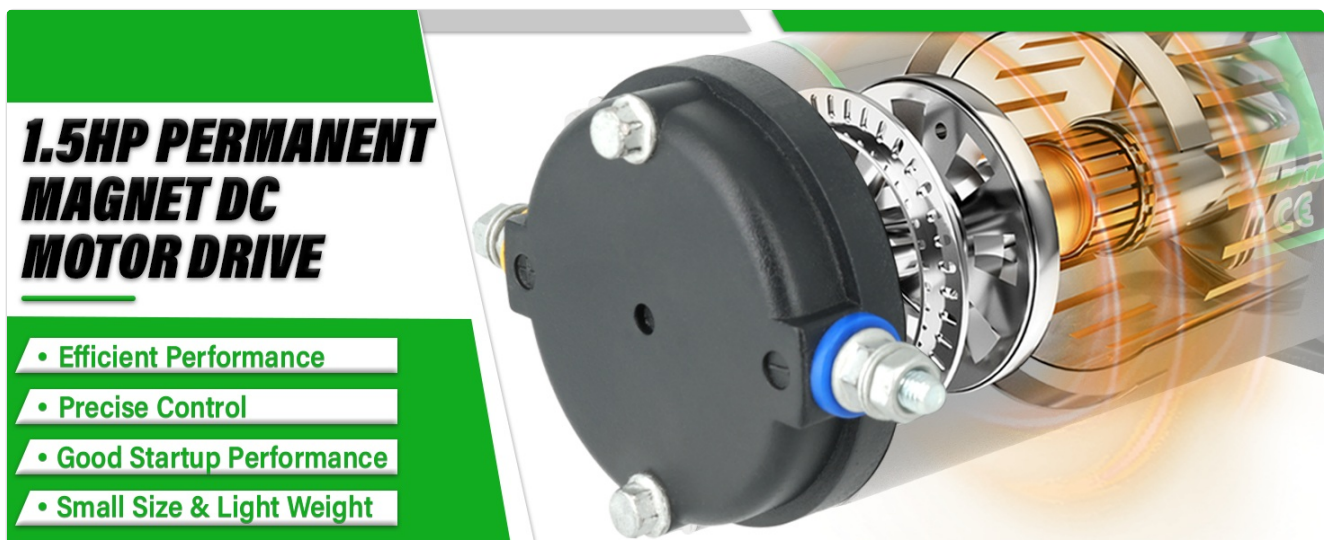


Image: Details of the 1.5HP Permanent Magnet DC Motor Drive.

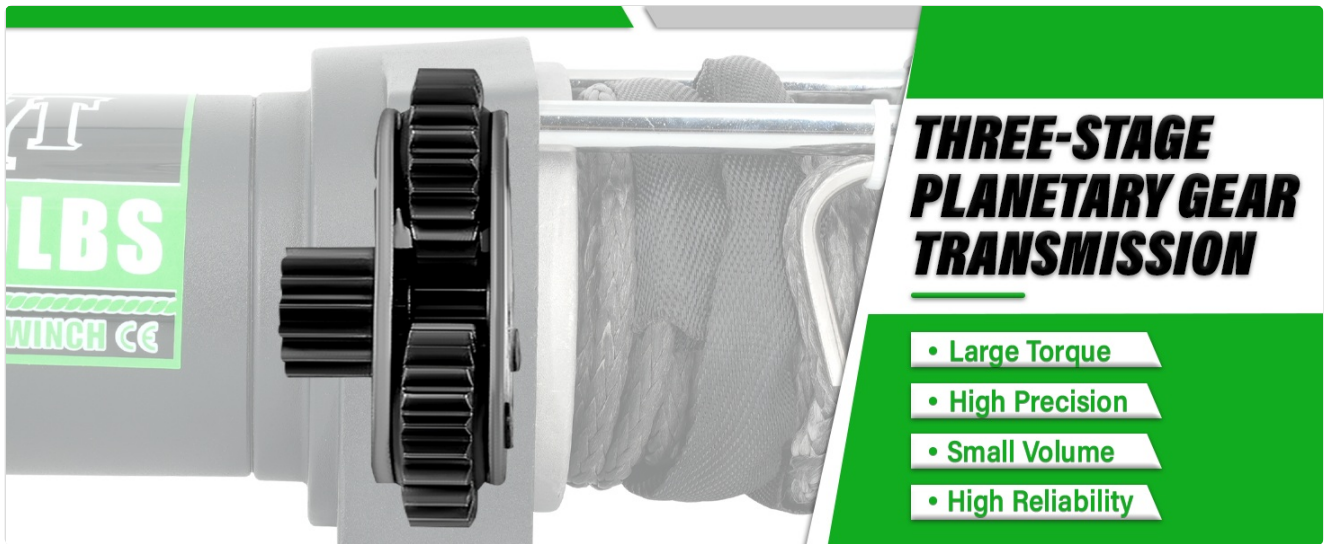


Image: Details of the Three-Stage Planetary Gear Transmission.



Image: Details of the 7/32" x 30' Strong Synthetic Rope.

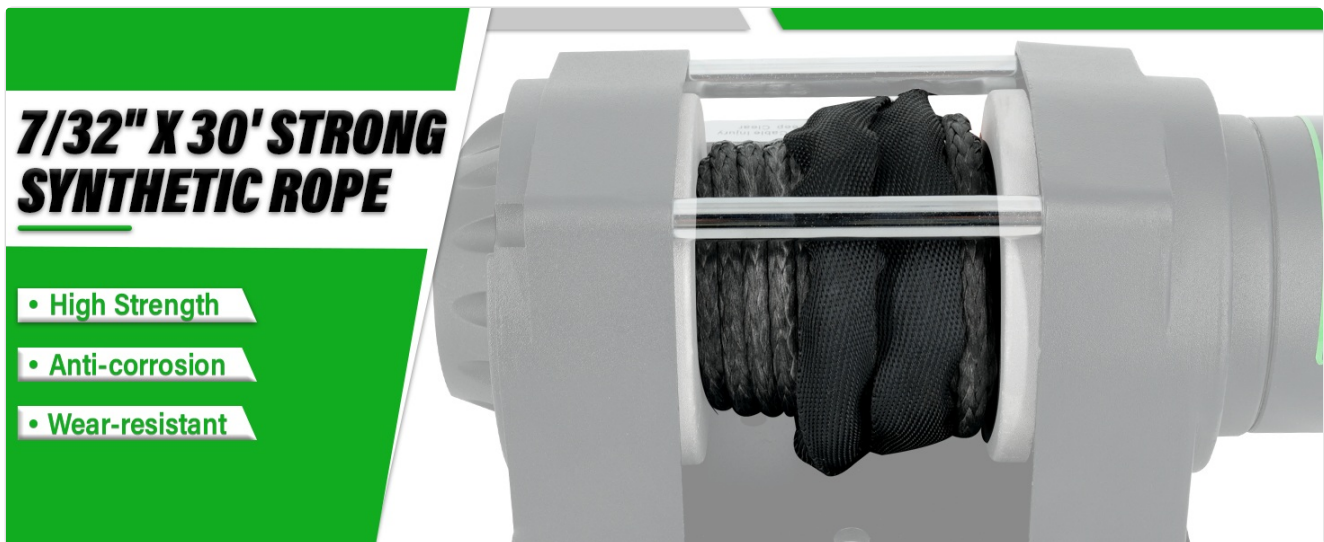


Image: Dimensional details of the winch and its components.

5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your winch. Refer to the included mounting plate and hardware for secure attachment.

5.1 Mounting the Winch

- The winch body size is 13" x 4" x 4.5".
- The mounting plate has two holes with a spacing of 3" (76mm) or 3.10" (78mm).
- The fairlead mounting pattern is 4 7/8" (124mm).
- Ensure your vehicle's winch bracket is compatible with these dimensions.
- Secure the winch to your vehicle's bracket using the provided mounting plate and hardware.

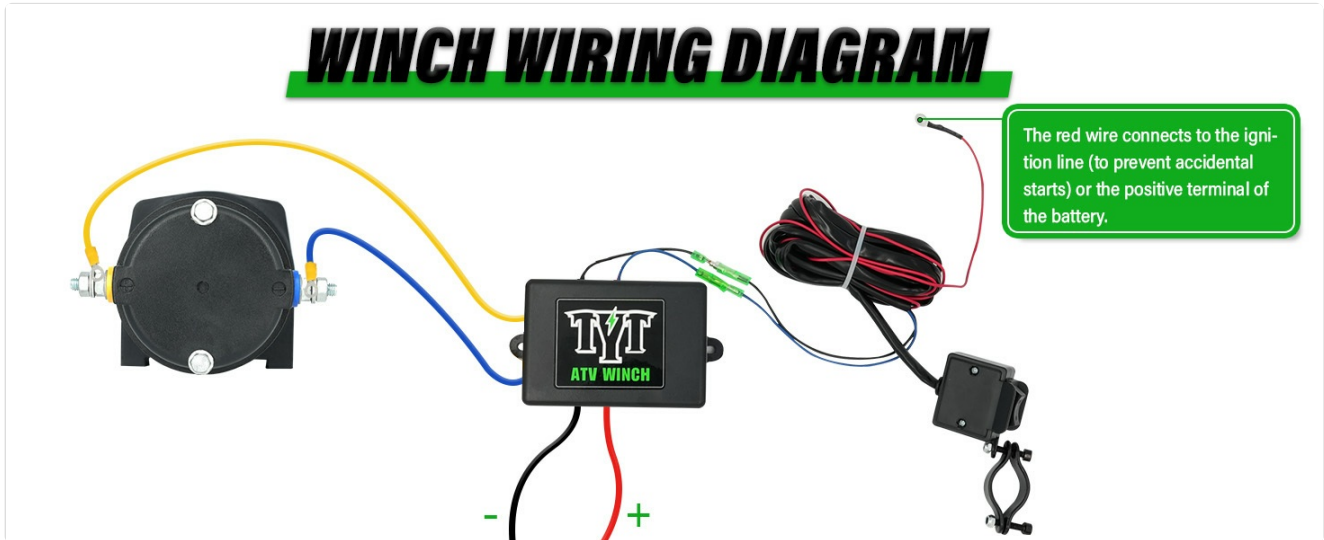


Image: Important note regarding mounting plate and fairlead dimensions for installation.

5.2 Wiring Diagram

Follow the wiring diagram carefully for electrical connection. Incorrect wiring can damage the winch or your vehicle's electrical system.



Image: Winch Wiring Diagram. Note: The red wire connects to the ignition line (to prevent accidental starts) or the positive terminal of the battery.

5.3 Remote Control Pairing

For initial setup of the wireless remote control:

1. Ensure the winch is powered on.
2. Hold down the "in" and "out" buttons on the wireless remote simultaneously.

3. Keep the remote near the winch for approximately 10 seconds until pairing is complete.

6. OPERATING INSTRUCTIONS

The TYT 3500 lb ATV Winch offers efficient and controlled pulling power for various applications.

6.1 General Operation

- Ensure the vehicle's engine is running during winching operations to maintain battery charge.
- Always unspool enough rope to reach your anchor point without overstretching.
- Attach the clevis hook securely to a suitable anchor point, using a tree saver strap if necessary.
- Use the wired or wireless remote control to operate the winch. The wireless remote has a 50-foot range, and the wired controller has a 10-foot cable.
- Press the "IN" button to retract the rope and pull the load.
- Press the "OUT" button to extend the rope.
- Operate the winch in short bursts, allowing the motor to cool between pulls, especially under heavy loads.
- Always re-spool the rope neatly under tension to prevent tangles and damage.

6.2 Free Spooling

To quickly unspool the rope manually, locate the clutch lever on the winch. Disengage the clutch to allow the drum to free spool. Remember to re-engage the clutch before any powered winching operation.

7. MAINTENANCE

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

- **Rope Inspection:** Regularly inspect the synthetic winch rope for any signs of wear, fraying, cuts, or damage. Replace the rope if any damage is found. The winch rope is a consumable item and not covered by warranty.
- **Electrical Connections:** Check all electrical connections for corrosion, tightness, and damage. Clean terminals as needed.
- **Mounting Hardware:** Periodically check all mounting bolts and hardware for tightness. Re-tighten as necessary.
- **Cleaning:** Keep the winch clean from dirt, mud, and debris. Use a damp cloth to wipe down the exterior. Avoid high-pressure washing directly on electrical components.
- **Lubrication:** The gearbox is factory-lubricated and generally does not require user maintenance. Refer to a qualified service technician for internal lubrication if needed.
- **Storage:** When not in use, store the winch in a dry environment. If the winch is exposed to the elements, ensure the control box and electrical connections are protected.

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 winch; Loose electrical connections; Faulty remote control; Disengaged clutch.	Check battery connections and voltage; Ensure all wiring is secure; Test with both wired and wireless remotes; Engage the clutch.

Problem	Possible Cause	Solution
Winch operates slowly or with reduced power	Low battery voltage; Overload; Corroded electrical connections.	Charge vehicle battery; Reduce load; Clean battery terminals and winch connections.
Motor runs but rope does not move	Clutch is disengaged; Damaged gearbox.	Engage the clutch; If clutch is engaged, contact customer support for gearbox inspection.
Wireless remote not responding	Remote not paired; Low remote battery; Interference.	Re-pair the remote (refer to Section 5.3); Replace remote battery; Move closer to the winch.

9. WARRANTY AND SUPPORT

TYT provides a one-year quality service warranty for this ATV winch. Additionally, lifetime technical support is offered to assist you with any product-related inquiries.

Please note that the winch rope is considered a consumable item and is not covered under the warranty.

If you have any questions, require technical assistance, or need to make a warranty claim, please contact TYT customer service. We aim to provide a satisfactory reply within 24 hours.