

TYT 3500 lb

TYT 3500 lb ATV Winch Instruction Manual

Model: 3500 lb | Brand: TYT

1. INTRODUCTION

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

WINCH WIRING DIAGRAM

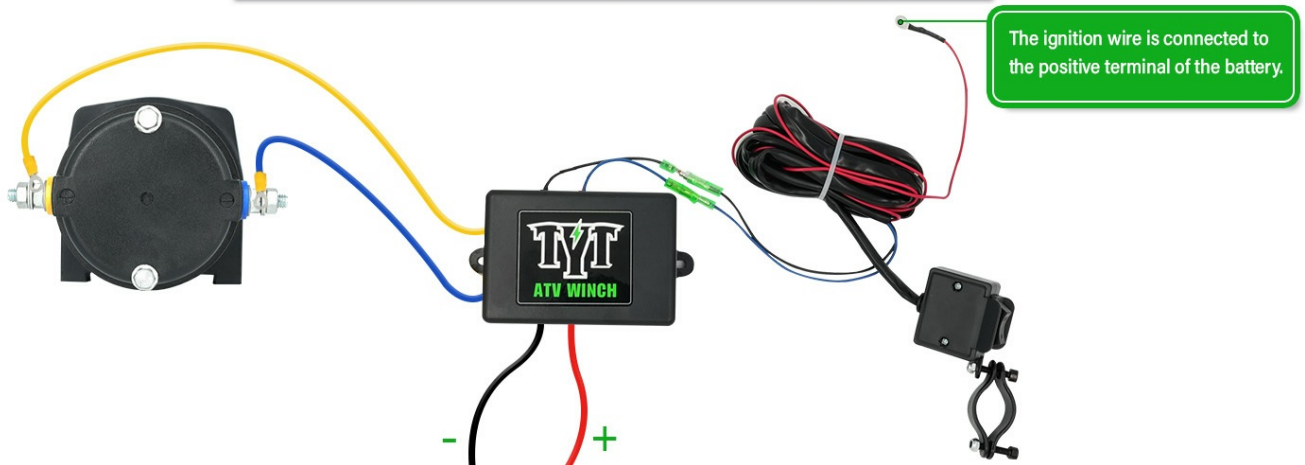


Image 1.1: TYT 3500 lb ATV Winch shown in various applications.

2. SAFETY INFORMATION

Your safety is paramount. Always adhere to the following safety guidelines when installing or operating the winch:

- **Read the Manual:** Understand all instructions and warnings before use.
- **Wear Protective Gear:** Always wear gloves, eye protection, and appropriate clothing.
- **Rated Capacity:** Never exceed the winch's rated pulling capacity of 3500 lbs.
- **Inspect Before Use:** Check the winch, synthetic rope, and all connections for damage or wear before each operation.
- **Keep Hands Clear:** Ensure hands and other body parts are kept clear of the fairlead, hook, and rope during operation.

- **Secure Vehicle:** Always engage the parking brake and block wheels when operating the winch.
- **Electrical Connections:** Ensure all electrical connections are secure and properly insulated to prevent short circuits.
- **Not for Lifting People:** This winch is designed for vehicle recovery and pulling, not for lifting or moving people.

3. PACKAGE CONTENTS

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

- TYT 3500 lb ATV Winch with Synthetic Rope
- Control Box
- Wireless Remote Control
- Wired Controller
- Aluminum Fairlead
- Winch Mounting Plate
- Clevis Hook
- Rubber Stopper
- Installation Bolts and Hardware
- Instruction Manual



Image 3.1: Complete TYT 3500 lb ATV Winch kit components.

4. SPECIFICATIONS

Feature	Detail
Rated Single Line Pull	3500 lbs (1590 kg)
Motor	12V DC, 1.5 HP Pure Copper Permanent Magnet Motor
Gear Train	3-Stage Planetary
Gear Ratio	153:1
Winch Body Size	13" x 4" x 4.5"

Feature	Detail
Fairlead Mounting Pattern	4 7/8" (124mm)
Mounting Plate 2-Hole	3" (76mm) / 3.10" (78mm)
Synthetic Winch Rope	7/32" x 30 FT (5mm x 10m)
Wireless Remote Range	50 feet
Wired Controller Cable Length	10 feet
Item Weight	16.24 pounds
Product Dimensions	10 x 6 x 7 inches

3500 LBS ATV/UTV WINCH



Image 4.2: Powerful permanent magnet motor details.

**7/32" X 30' STRONG
SYNTHETIC ROPE**

- High Strength
- Anti-corrosion
- Wear-resistant



Image 4.3: Stable planetary gear system details.

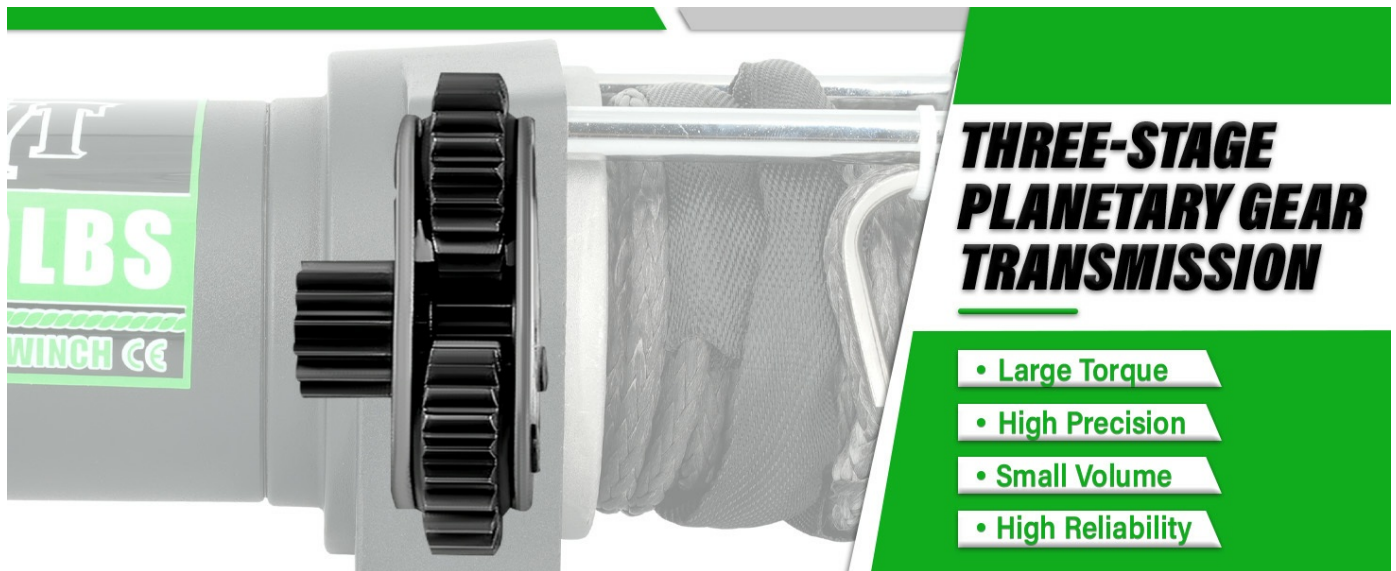


Image 4.4: Synthetic rope details.

5. SETUP AND INSTALLATION

Proper installation is crucial for the winch's performance and safety. Follow these steps carefully:

1. **Mounting the Winch:** The standard body size and installation dimensions (13"x4"x4.5" body, 4 7/8" fairlead pattern, 3"/3.10" mounting plate 2-hole) allow the winch to fit most ATV/UTV mounting brackets. Secure the winch to a sturdy, flat surface on your vehicle using the provided mounting plate and bolts. Ensure the mounting location can support the winch's weight and pulling forces.
2. **Installing the Fairlead:** Attach the aluminum fairlead to the mounting plate using the appropriate hardware. The fairlead guides the synthetic rope and protects it from abrasion.
3. **Electrical Wiring:** Connect the winch to your vehicle's 12V DC battery. Refer to the wiring diagram below for correct connections. Ensure all connections are tight and protected from environmental elements. The ignition wire should be connected to the positive terminal of the battery.



Image 5.1: Winch wiring diagram.

6. OPERATING INSTRUCTIONS

Your TYT winch comes with both a wired and a wireless remote control for efficient operation.

6.1. Engaging and Disengaging the Clutch

- To engage the clutch (for powered winching), rotate the clutch knob to the 'Engaged' position.
- To disengage the clutch (for free spooling the rope manually), rotate the clutch knob to the 'Free Spool' position. This allows you to pull out the rope by hand.

6.2. Using the Remote Controls

The winch includes a 50-foot wireless remote control and a 10-foot wired controller. The winch's receiver responds quickly to commands.

- **Wired Controller:** Connect the wired controller to the control box. Use the 'IN' button to retract the rope and the 'OUT' button to extend the rope.
- **Wireless Remote Control:** For initial setup, pair the wireless remote by holding down the 'IN' and 'OUT' buttons simultaneously near the winch for 10 seconds. The wireless remote will automatically enter protection mode when not used for a long time. To re-match, simply press the 'IN' and 'OUT' keys simultaneously and hold for 10 seconds.

DUAL REMOTE CONTROL



Wired remote
control distance **10 FT**

Tip

The wireless remote control will automatically enter protection mode when it is not used for a long time. To re-match, simply press the **'in'** and **'out'** keys simultaneously and hold for 10 seconds.



Wireless distance **50 FT**

Image 6.1: Wireless remote control pairing instructions.

ACCESSORY COMPONENTS



				
Control Box	Install Bolt	Instructions	Clevis Hook	Mounting Plate

				
Aluminum Fairleader	Brand Strap	Wired Remote	Wireless Remote	Rubber Stopper

Image 6.2: Dual remote control options.

7. MAINTENANCE

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

- **Rope Inspection:** Regularly inspect the synthetic rope for frays, cuts, or other damage. Replace the rope if any damage is found.

- **Keep Rope Clean:** Clean the synthetic rope after use, especially if it has been exposed to mud, sand, or debris. This prevents abrasive particles from damaging the rope or winch drum.
- **Electrical Connections:** Periodically check all electrical connections for corrosion or looseness. Clean and tighten as necessary.
- **Winch Housing:** Keep the winch housing clean and free of debris.
- **Lubrication:** Consult a qualified technician for internal lubrication if required, as improper lubrication can damage internal components.

8. TROUBLESHOOTING

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

- **Winch Not Operating:**
 - Check battery connections for tightness and corrosion.
 - Ensure the vehicle's battery has sufficient charge.
 - Verify the remote control is paired correctly (refer to Section 6.2).
 - Check for any tripped circuit breakers or blown fuses in the wiring.
- **Winch Operating Slowly or Weakly:**
 - The load may exceed the winch's capacity or the current drum layer's capacity.
 - Battery charge may be low.
 - Check for excessive friction in the fairlead or rope path.
- **Rope Not Spooling Evenly:**
 - Guide the rope manually during retraction to ensure even winding, especially under light loads.

If problems persist after attempting these steps, contact customer support for assistance.

9. WARRANTY AND SUPPORT

TYT provides a one-year quality service warranty and lifetime technical support for this ATV winch. Please note that the winch rope is considered a consumable item and is not covered by the after-sales service.

For any questions or assistance, please contact TYT customer service. We are committed to providing a satisfactory reply within 24 hours.

DUAL REMOTE CONTROL



Wired remote
control distance **10 FT**

Tip

The wireless remote control will automatically enter protection mode when it is not used for a long time. To re-match, simply press the "in" and "out" keys simultaneously and hold for 10 seconds.



Wireless distance **50 FT**

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question