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## TYT 3000 lb

# TYT 3000 lb ATV Winch User Manual

Model: 3000 lb

## 1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your TYT 3000 lb ATV Winch. Please read all instructions carefully before use to ensure proper function and to prevent injury or damage.

The TYT 3000 lb ATV Winch is designed for recovery and utility applications on ATVs, UTVs, and other small vehicles. It features a 12V DC electric motor, synthetic rope, and both wireless and wired remote control options.



Image: TYT 3000 lb ATV Winch with its wireless remote control and hook.

## 2. SAFETY INFORMATION

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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 warnings before using the winch.
- **Wear Protective Gear:** Always wear heavy-duty gloves and eye protection.
- **Inspect Before Use:** Check the winch, rope, hook, and mounting hardware for damage before each operation. Do not use if any components are damaged.
- **Maintain Safe Distance:** Keep hands, hair, clothing, and jewelry clear of the rope, hook, and fairlead during operation. Stand clear of the winch and rope during winching.
- **Do Not Overload:** Never exceed the rated pulling capacity of the winch (3000 lb).
- **Secure Vehicle:** Ensure the vehicle is securely braked and chocked before winching.
- **Avoid Shock Loads:** Do not use the winch to lift or move people. Avoid sudden jerking motions.
- **Battery Connection:** Ensure proper battery connections and avoid short circuits.
- **Heat Dissipation:** Allow the winch motor to cool down between heavy pulls to prevent overheating.
- **Synthetic Rope Care:** Protect synthetic rope from sharp edges, heat, and abrasion.

## 3. WHAT'S INCLUDED

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Your TYT 3000 lb ATV Winch package includes the following components:

- TYT 3000 lb Winch Unit with Synthetic Rope
- Control Box
- Wireless Remote Control
- Wired Remote Control
- Aluminum Fairlead
- Mounting Plate
- Clevis Hook
- Installation Bolts
- Brand Strap
- Instruction Manual (this document)



Image: A visual representation of all components included in the TYT 3000 lb ATV Winch kit.

## 4. SETUP AND INSTALLATION

### 4.1 Mounting the Winch

The TYT 3000 lb ATV Winch is designed for easy installation on most ATV/UTV mounting brackets due to its standard body size and installation dimensions. Ensure the mounting surface is strong enough to support the winch's maximum pulling force.

- **Winch Body Size:** 11.5" x 4" x 4.2"
- **Fairlead Mounting Pattern:** 4 1/2" (124mm)
- **Mounting Plate 2-Hole:** 3" (76mm) / 3.10" (78mm)

Use the provided mounting plate and bolts to securely attach the winch to your vehicle. Ensure all bolts are tightened to the manufacturer's specifications.

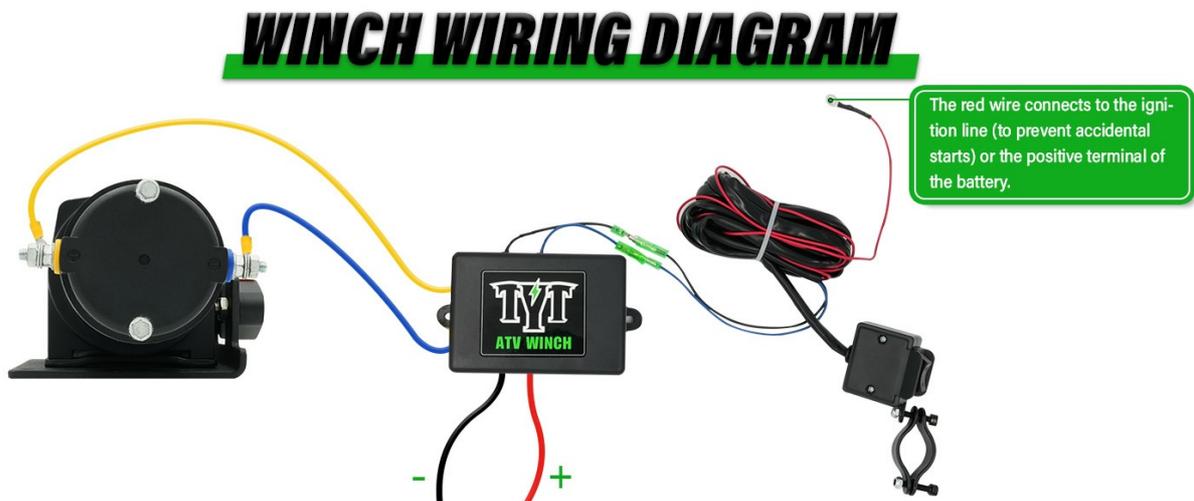


Image: Detailed dimensional drawing of the winch unit, mounting plate, and aluminum fairlead.

### 4.2 Electrical Wiring

Connect the winch to a 12V DC power source. The wiring diagram below illustrates the correct connections for the winch, control box, and remote controls.

- Connect the red wire from the control box to the positive terminal of the battery.
- Connect the black wire from the control box to the negative terminal of the battery.
- The red wire for the ignition line (or positive battery terminal) prevents accidental starts.
- Ensure all connections are secure and insulated to prevent short circuits.

**ATV/UTV  
WINCH**

**TYT**



*Image: Electrical wiring diagram for the TYT 3000 lb ATV Winch system.*

## 5. OPERATING INSTRUCTIONS

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### 5.1 Engaging and Freespooling the Clutch

The winch features a durable clutch knob for engaging and freespooling the synthetic rope.

1. **Engage:** Push the clutch knob in and rotate it to the 'Engage' position to connect the motor to the drum.
2. **Freespool:** Pull the clutch knob out and rotate it to the 'Freespool' position. This allows the rope to be manually pulled out from the drum without motor power, which is useful for quickly extending the rope to an anchor point.

# MORE COMFORTABLE AND DURABLE CLUTCH KNDB



**Engage**



**Pull out and rotate**



**Freespool**

*Image: Visual guide for operating the winch clutch knob (Engage, Pull out and rotate, Freespool).*

## 5.2 Using the Remote Controls

The winch includes both a 50-foot wireless remote control and a 10-foot wired controller for efficient operation.

- **Wired Remote:** Connect the wired remote to the control box. Use the 'IN' button to retract the rope and the 'OUT' button to extend the rope.
- **Wireless Remote:** For initial setup, pair the wireless remote by holding down the 'IN' and 'OUT' buttons simultaneously near the winch for 10 seconds. The receiver responds quickly, allowing operation within a 50-foot radius. The wireless remote typically has an 'ON/OFF' switch or button to activate it, which also serves as a safety feature.

## 6. MAINTENANCE

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

- **Rope Inspection:** Regularly inspect the synthetic rope for frays, cuts, or excessive wear. Replace the rope if any damage is found.
- **Cleanliness:** Keep the winch and rope clean from dirt, mud, and debris. Rinse with fresh water after use in harsh conditions.

- **Electrical Connections:** Check all electrical connections periodically for corrosion or looseness. Clean and tighten as necessary.
- **Lubrication:** Consult a qualified technician for internal lubrication if needed. The gearbox is typically sealed and does not require user maintenance.
- **Storage:** Store the winch in a dry environment when not in use.

## 7. 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, loose connections, faulty remote, motor issue	Check battery connections, ensure battery is charged, test wired remote, re-pair wireless remote, check circuit breaker/fuse.
Wireless remote not working	Unpaired, dead batteries, interference	Re-pair the remote (hold IN/OUT for 10 seconds), replace remote batteries, ensure no obstructions.
Winch pulls slowly or weakly	Low battery voltage, overloaded, motor overheating	Charge battery, reduce load, allow motor to cool.
Rope does not freespool	Clutch not disengaged	Ensure clutch knob is fully pulled out and rotated to the 'Freespool' position.

If problems persist after attempting these solutions, contact customer support.

## 8. SPECIFICATIONS

Key technical specifications for the TYT 3000 lb ATV Winch:

- **Manufacturer:** TYT
- **Model Number:** 3000 lb
- **Rated Line Pull:** 3000 lb (single line)
- **Motor:** 1 HP Pure Copper Permanent Magnet Motor, 12V DC
- **Gear System:** Three-stage Planetary Gear
- **Gear Ratio:** 138:1
- **Rope Type:** Synthetic Winch Rope
- **Rope Dimensions:** 1/5" x 32 FT (5mm x 10m)
- **Fairlead:** Aluminum
- **Control:** 50-foot Wireless Remote, 10-foot Wired Switch
- **Winch Dimensions:** Approximately 11.5" x 4" x 4.2" (L x W x H)
- **Item Weight:** 7 pounds

# POWERFUL PERMANENT MAGNET MOTOR

- **1.0HP** Series Motor

- **0.7KW** High Power

- **12V** Steady Voltage



Image: Illustration of the winch's 1 HP permanent magnet motor.

# **STABLE PLANETARY GEAR SYSTEM**



**138:1**

Gear Ratio

**6.9 feet /min**

Fully Loaded

**24.5 feet /min**

Empty Efficiency

*Image: Detail of the three-stage planetary gear system.*

# ***SUPER STRONG POLYMER POLYETHYLENE SYNTHETIC ROPE***

Stronger, Lighter and Safer than Steel Cable



*Image: The synthetic winch rope, highlighting its strength and dimensions.*

## **9. WARRANTY AND SUPPORT**

TYT provides comprehensive support for its products.

- **Warranty:** All TYT winches come with a one-year quality service warranty.
- **Technical Support:** Lifetime technical support is provided for your product.
- **Contact:** If you encounter any problems during use, please contact the seller directly through your purchase platform. TYT aims to respond within 24 hours and resolve any issues.

# PRODUCT SIZE

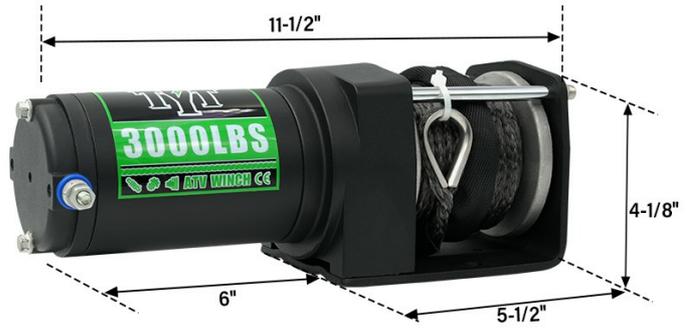
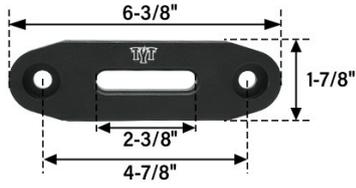
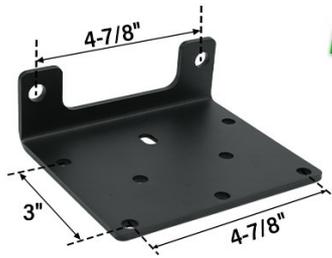


Image: Information regarding TYT's after-sales service and support.