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TYT TOF2000-GR

TYT 2000 lb ATV/UTV Winch User Manual

MODEL: TOF2000-GR

1. Important Safety Information

Read and understand all safety warnings and instructions before installing, operating, or maintaining this winch. Failure to follow these instructions may result in electric shock, fire, serious injury, or property damage.

- **Always wear appropriate safety gear**, including gloves and eye protection, when operating the winch.
- **Never exceed the rated capacity** of the winch. Overloading can cause damage to the winch and lead to serious injury.
- **Keep hands and clothing clear** of the winch rope, fairlead, and hook during operation.
- **Ensure the vehicle's engine is running** during winching operations to maintain battery charge.
- **Inspect the winch, rope, and all accessories** before each use for any signs of damage or wear. Do not use if damaged.
- **Avoid sharp bends** in the winch rope. Use a snatch block to change the direction of pull if necessary.
- **Do not use the winch for lifting people or loads over people.** This winch is designed for pulling, not lifting.
- **Disconnect the winch from the power source** when not in use or during maintenance.

2. Package Contents

Carefully unpack all items and check against the list below. If any parts are missing or damaged, contact customer service.

- TYT 2000 lb Winch with Synthetic Rope
- Mounting Plate
- Wired Remote Control Handle
- Aluminum Fairlead
- Clevis Hook
- Stainless Steel Fitting Bolts
- User Manual



Figure 2.1: All components included in the TYT 2000 lb Winch kit. This image displays the winch unit, mounting plate, aluminum fairlead, wired remote, clevis hook, installation bolts, operation manual, and a brand strap.

3. Product Overview

The TYT 2000 lb ATV/UTV Winch is designed for reliable pulling power in various applications. It features a durable motor, a robust gear system, and synthetic rope for safe and efficient operation.

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Video 3.1: An overview of the TYT DC 12V 2000 lb Winch with Synthetic Winch Rope, showcasing its design and key features.

Key Features:

- **Powerful Motor:** DC 12V 1.5 HP permanent magnet pure copper motor for stable traction.
- **Efficient Gear Train:** 3-stage planetary gear train with a 136:1 ratio for faster traction speed and anti-slipping.
- **Durable Synthetic Rope:** High-strength synthetic rope, 0.19 inches in diameter and 49.21 feet long.
- **Waterproof Design:** Sealed construction for reliable use in harsh and humid environments.

- **Automatic Brake:** Integrated automatic brake system for secure load holding.



Figure 3.1: Left: Close-up view of the pure copper motor housing. Right: Detail of the synthetic rope wound on the winch drum.

4. Setup and Installation

4.1 Mounting the Winch

1. Determine a suitable mounting location on your ATV/UTV that can support the winch's weight and pulling forces.
2. Use the provided mounting plate as a template to mark drilling locations. Ensure the mounting surface is flat and strong.
3. Drill holes as marked and secure the mounting plate using appropriate hardware (not always included, check vehicle requirements).
4. Attach the winch to the mounting plate using the provided stainless steel fitting bolts. Ensure all bolts are tightened securely.
5. Install the aluminum fairlead to the mounting plate, ensuring the rope can pass through freely without obstruction.
6. Attach the clevis hook to the end of the synthetic rope.

4.2 Electrical Wiring

WARNING: Disconnect the vehicle's battery before performing any electrical connections to prevent short circuits and electrical shock.

1. Identify the positive (+) and negative (-) terminals on your vehicle's 12V battery.
2. Connect the **red (positive) power cable** from the winch to the positive (+) terminal of the battery.
3. Connect the **black (negative) power cable** from the winch to the negative (-) terminal of the battery.
4. Ensure all connections are clean, tight, and free from corrosion. Use dielectric grease if available to protect terminals.
5. Connect the wired remote control to the designated port on the winch.

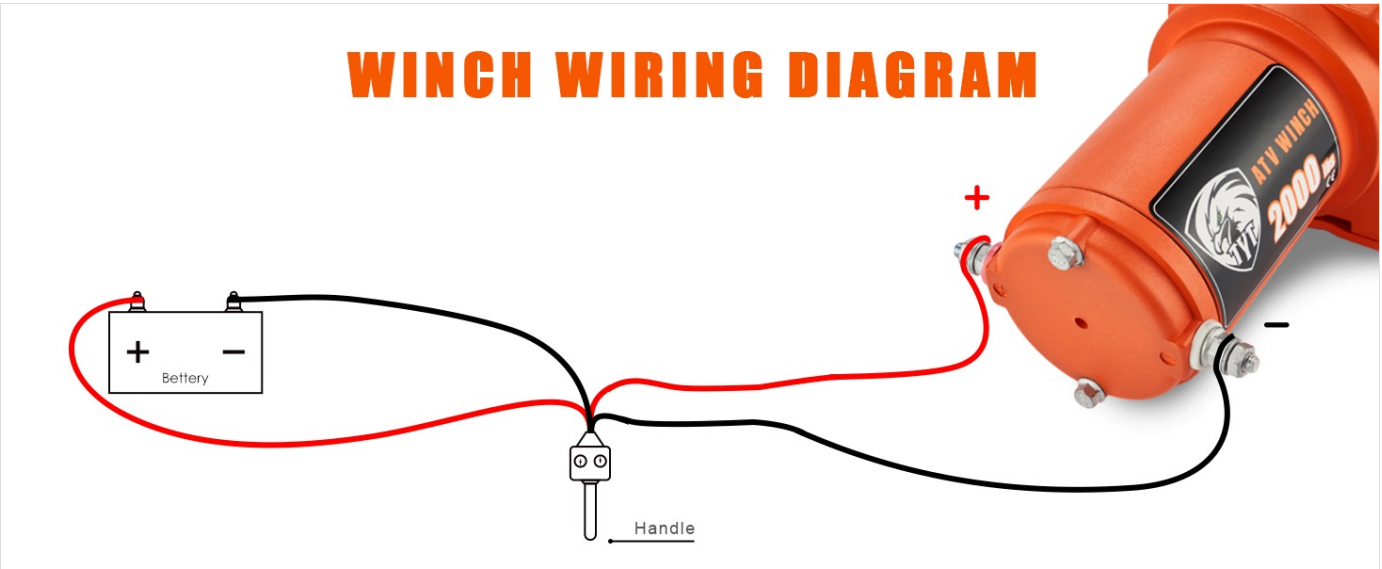


Figure 4.1: Wiring diagram for the TYT winch. The red cable connects to the positive battery terminal and the positive winch terminal. The black cable connects to the negative battery terminal and the negative winch terminal. The remote control connects between the battery and the winch.



Figure 4.2: Visual guide for connecting the winch. The longer cables (67 inches/170 cm) connect to the battery, with red to positive and black to negative. The shorter cables (43 inches/110 cm) connect to the motor on the winch, also red to positive and black to negative.

5. Operation

5.1 Engaging and Disengaging the Clutch

The clutch allows the winch drum to free-spool, enabling you to manually pull out the rope without using motor power.

- **To Disengage (Free-Spool):** Pull out the clutch knob and turn it to the

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