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› [Ultra-Tow XTP 12 Volt DC-Powered Electric ATV/UTV Winch, 4500-Lb. Capacity, Steel Wire Rope, Model LD2S-4500 User Manual](#)

## Ultra-Tow LD2S-4500

# Ultra-Tow XTP 12 Volt DC-Powered Electric ATV/UTV Winch User Manual

Model: LD2S-4500

## 1. SAFETY INFORMATION

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

- **Always wear appropriate personal protective equipment**, 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.
- **Ensure the winch is securely mounted** to a structure capable of withstanding the pulling force.
- **Keep hands and clothing clear** of the wire rope, hook, and fairlead during operation.
- **Inspect the wire rope** for kinks, fraying, or damage before each use. Replace damaged rope immediately.
- **Maintain a safe distance** from the winch and the load during operation. Never stand in line with the wire rope.
- **Do not operate the winch if under the influence** of drugs, alcohol, or medication.
- **Disconnect power** to the winch when not in use or during maintenance.
- **Avoid continuous operation** to prevent motor overheating. Allow the winch to cool down between heavy pulls.

## 2. PRODUCT OVERVIEW

The Ultra-Tow XTP 12 Volt DC-Powered Electric Winch is designed for ATV/UTV applications, offering a robust 4,500-lb. line pull capacity. It features a durable steel wire rope and is engineered for reliable performance in various conditions.



*Image: Ultra-Tow XTP 4500-lb Winch with hook and remote control connection.*

### **Key Features:**

- Energy efficient 1.5 HP, 12V permanent magnetic motor delivers a powerful 4,500-lb. line pull rating.
- Well-balanced planetary gear design with a 166:1 gear ratio for exceptional strength and speed.
- Dependable mechanical braking system plus automatic load holding for added safety.
- IP68 weatherproof rating ensures all-weather performance.
- 40ft. of 0.217in. dia. aircraft-grade galvanized steel wire winch rope for durability and dependable performance.

### **3. COMPONENTS INCLUDED**

The Ultra-Tow XTP Winch package includes the following items:



*Image: All components included with the Ultra-Tow XTP 4500-lb Winch, including the winch unit, hook, roller fairlead, wiring, and control box.*

- Winch Unit
- Hook
- Roller Fairlead
- Control Box / Solenoid
- Wiring Harness (various cables)
- Remote Control (wired)
- Mounting Hardware

## 4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your winch. If you are unsure about any step, consult a qualified professional.

### 4.1 Mounting the Winch

1. Select a mounting location on your ATV/UTV that is structurally sound and can support the full pulling force of the winch.
2. Ensure the mounting surface is flat and provides adequate clearance for the winch, fairlead, and wire rope.
3. Position the roller fairlead to align with the winch drum and ensure the wire rope can spool evenly.
4. Secure the winch and fairlead using the provided high-grade bolts, washers, and nuts. Tighten all fasteners to the manufacturer's specifications.

## 4.2 Electrical Connections

This winch operates on a 12 Volt DC power supply. Ensure your vehicle's battery is in good condition and fully charged.

1. **Disconnect the negative (-) terminal of your vehicle's battery** before making any electrical connections to prevent accidental short circuits.
2. Mount the control box/solenoid in a dry, protected location, away from heat and moving parts.
3. Connect the heavy gauge power cables from the winch motor to the control box as indicated in the wiring diagram (refer to the diagram provided with your product).
4. Connect the main power cables from the control box to your vehicle's 12V battery: the red cable to the positive (+) terminal and the black cable to the negative (-) terminal. Ensure all connections are clean and tight.
5. Connect the remote control wiring to the control box.
6. Reconnect the negative (-) terminal of your vehicle's battery.

The IP68 weatherproof rating ensures the winch can operate effectively in harsh conditions, but proper electrical connections are vital for safety and performance.

## 5. OPERATING INSTRUCTIONS

Familiarize yourself with the winch controls and operation before attempting to pull a load.



*Image: Ultra-Tow XTP 4500-lb Winch installed on an ATV/UTV, demonstrating the wire rope extending through the fairlead.*

## 5.1 Pre-Operation Checks

- Ensure the vehicle is securely braked and stable.
- Check the wire rope for any damage or kinks.
- Verify all electrical connections are secure.
- Identify a suitable anchor point for the winch hook.

## 5.2 Winching Procedure

1. **Free-Spooling:** Disengage the clutch to allow the wire rope to be pulled out manually. Pull out enough rope to reach your anchor point.
2. **Secure the Hook:** Attach the hook securely to a strong anchor point. Use a tree saver strap or shackle if necessary. Ensure the safety latch on the hook is closed.
3. **Engage the Clutch:** Re-engage the clutch mechanism.
4. **Begin Winching:** Using the remote control, press the