

X-BULL USAM-XBEW006S

X-BULL 4500LBS Steel Cable Electric Winch Instruction Manual

Model: USAM-XBEW006S

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your X-BULL 4500LBS Steel Cable Electric Winch. Please read all instructions carefully before using the product. Proper understanding and adherence to these guidelines will ensure optimal performance and longevity of your winch.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always wear appropriate personal protective equipment, including gloves and eye protection, when operating the winch.
- Never exceed the rated capacity of the winch.
- Ensure the vehicle is securely braked and chocked before winching operations.
- Keep hands and clothing clear of the wire rope, hook, and fairlead during operation.
- Inspect the winch, wire rope, and all accessories for damage before each use. Do not use if damaged.
- Avoid prolonged continuous winching. Observe the duty cycle to prevent motor overheating.
- Never disconnect the clutch under load.
- Do not use the winch for lifting people or loads over people.
- Ensure the battery connections are secure and free from corrosion.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking.

- Winch Unit
- Roller Fairlead
- Control Box
- Wireless Remote Control
- Wired Handle Control
- Steel Cable
- Heavy Duty Hook
- Mounting Plate
- Solenoid Cables
- Protective Caps / Bolts and Hardware

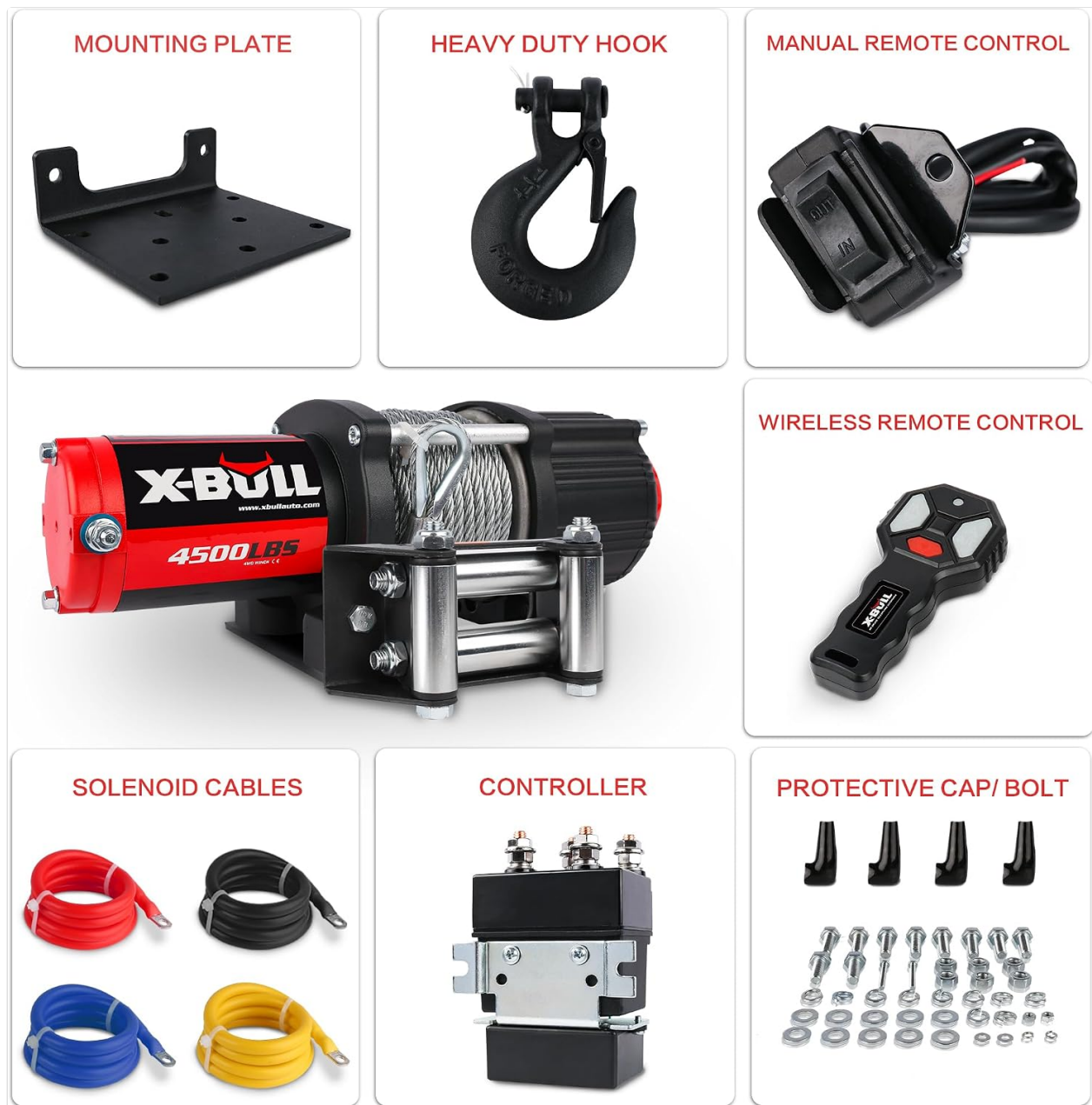


Figure 3.1: Included Components

4. SPECIFICATIONS

Feature	Specification
Brand	X-BULL
Model	4500LBS Steel Cable Electric Winch (USAM-XBEW006S)
Pulling Capacity	4500 lbs (2041.2 kg)
Motor	1.5 HP Permanent Magnet DC 12V
Wire Rope Length	15.2 meters (approximately 50 feet)
Item Weight	25.6 pounds
Package Dimensions	16.5 x 11.5 x 7 inches

LIGHT

SOLID WHEN ON; FLASHES WHEN WORKING.

OUT

PRESS TO RELEASE / RELEASE TO STOP.

IN

PRESS TO WIND / RELEASE TO STOP.

POWER

TRANSMITTER ON/OFF SWITCH.

BATTERY: LR03 (AAA) 1.5V.

Figure 4.1: Winch Dimensions



Figure 4.2: Mounting Plate Dimensions



Figure 4.3: Roller Fairlead Dimensions



Figure 4.4: Hook Dimensions

5. SETUP AND INSTALLATION

The X-BULL 4500LBS Electric Winch is designed for straightforward installation on most ATVs and UTVs. Follow these steps for proper setup:

1. **Mounting the Winch:** Secure the winch unit to a suitable mounting surface on your vehicle using the provided mounting plate and hardware. Ensure the mounting location is strong enough to withstand the winch's maximum pulling force.
2. **Connecting the Control Box:** Connect the control box to the winch motor using the color-coded terminals. Ensure all connections are tight and secure.
3. **Battery Connections:** Connect the control box to your vehicle's 12V DC battery. The motor features a permanent magnet design with a gradual current increase to prevent impact and extend motor life. Ensure positive (+) and negative (-) terminals are correctly identified and connected.
4. **Installing the Roller Fairlead:** Attach the roller fairlead to the winch mounting system. The fairlead guides the wire rope and reduces friction during winching operations.
5. **Attaching the Hook:** Securely attach the heavy-duty hook to the end of the steel cable.



Figure 5.1: Winch Motor Terminals and Clutch Knob



Figure 5.2: Winch Components Overview

6. OPERATING INSTRUCTIONS

Your X-BULL winch can be operated using either the wired handle control or the wireless remote control.

6.1 Clutch Operation

- **Freespool:** To manually pull out the wire rope, rotate the clutch knob to the 'Freespool' position. This disengages the gearbox, allowing the drum to rotate freely.
- **Engaged:** To begin winching, rotate the clutch knob to the 'Engaged' position. This connects the gearbox to the drum, allowing the motor to wind or unwind the rope.

6.2 Wireless Remote Control

The wireless remote provides convenient operation from a distance. It requires a LR03 (AAA) 1.5V battery.



Figure 6.1: Wireless Remote Control Functions

- **POWER:** Use the transmitter ON/OFF switch to activate or deactivate the remote.
- **IN:** Press and hold the 'IN' button to wind the wire rope onto the drum. Release to stop.
- **OUT:** Press and hold the 'OUT' button to release the wire rope from the drum. Release to stop.
- **LIGHT:** The light indicator will be solid when the remote is ON and flash when the winch is working.

6.3 Duty Cycle

To prevent damage and ensure longevity, observe the winch's duty cycle. The duty cycle defines the amount of time a winch can operate at its maximum capacity within a 15-minute period without overheating.



Figure 6.2: Winch Duty Cycle Example

For example, a winch with a 5% duty cycle at maximum load requires 15 seconds of rest after every 45 seconds of continuous operation. Failure to observe duty cycle limitations can over-stress the winch, leading to premature failure.

7. MAINTENANCE

Regular maintenance ensures the reliable operation and extends the life of your X-BULL winch.

- **Inspection:** Before each use, inspect the wire rope for frays, kinks, or damage. Check all electrical connections for corrosion or looseness. Examine the hook, fairlead, and mounting hardware for wear or damage.
- **Cleaning:** After use, especially in muddy or wet conditions, clean the winch and wire rope. Remove any debris or dirt.
- **Lubrication:** Periodically lubricate moving parts as recommended by the manufacturer (refer to specific product documentation if available).
- **Battery:** Ensure your vehicle's battery is in good condition and fully charged, as winches draw significant power.
- **Storage:** When not in use, store the winch in a dry environment to prevent corrosion.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Winch does not operate	No power to the winch; Loose electrical connections; Faulty remote control battery; Overload protection activated.	Check battery connections and vehicle battery charge; Tighten all electrical connections; Replace remote control battery; Allow winch to cool down if overloaded.
Winch operates slowly or with reduced power	Low battery voltage; Overheating; Excessive load.	Charge vehicle battery; Allow winch to cool; Reduce load or use a snatch block to increase pulling power.
Wire rope is tangled or damaged	Improper spooling; Contact with sharp objects.	Carefully unspool and respool the rope under light tension; Replace damaged wire rope immediately.

9. WARRANTY AND SUPPORT

X-BULL provides efficient, timely, and friendly customer service. The product includes a warranty for return or replacement parts within one year from the date of purchase. For warranty claims or technical support, please contact X-BULL customer service through your retailer or the official X-BULL website.

Additionally, the product is eligible for a refund or replacement within 30 days of purchase, subject to the retailer's return policy.