

JTLB JTLBoenh182tvd

JTLB Electric Winch Kit 3000lbs - User Manual

Model: JTLBoenh182tvd

1. SAFETY INFORMATION

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

- **Work Environment:** Do not use mechanical or power tools in wet locations. Avoid operating in rain. Do not use power tools in the presence of flammable gases and liquids.
- **Children:** Keep away from children. Do not allow children to operate machines, tools, or cables.
- **Personal Safety:** Dress correctly. Do not wear loose clothing or jewelry that can get caught on moving parts. It is recommended to wear protective, non-conductive clothing and non-slip shoes during operation. Secure long hair.
- **Impairment:** Do not operate tools while under the influence of alcohol or drugs.
- **Hand Placement:** Keep your body and hands away from the fairlead during operation.
- **Winching Direction:** Do not lift objects vertically. The winch is designed for horizontal pulling only.
- **Wire Rope Winding:** Ensure the wire rope winding on the winch drum is not less than 5 turns. The wire rope end fasteners are not designed to bear the full load.

2. PRODUCT OVERVIEW

The JTLB Electric Winch Kit is a robust 24V system designed for ATV and UTV accessories, featuring a 3000lbs pulling capacity. It includes a remote control for convenient operation and is built with durable components for reliable performance.



Image 2.1: Overview of the JTLB Electric Winch Kit, showing the motor, drum with steel cable, and hook.

Key Features:

- **Copper Core Terminal:** Equipped with copper core terminals for superior conductivity, reduced heat generation, and enhanced corrosion resistance compared to iron terminals.
- **Strong Wire Rope:** Features a multi-strand wound solid steel wire rope, engineered for high strength and wear resistance.
- **Separation and Reunion Mechanism:** Allows for manual release of the rope by opening the separation and reunion shell, located on the right side of the machine.
- **Alloy Steel Hook:** The hook is made from alloy steel, treated with high-temperature quenching for increased tensile strength and durability. Its buckle design prevents accidental disengagement.
- **Easy Control and Installation:** Comes with a remote control for convenient operation and includes all necessary screws, nuts, and washers for straightforward installation.



Copper core terminal, not easy to corrode compared with iron terminal
Good conductivity, low resistance and heat generation
Multi strand wound solid wire rope
Strong enough, more wear resistant



Image 2.2: Detailed view highlighting the copper core terminal and multi-strand wire rope construction.

3. PACKAGE CONTENTS

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

- 1 x Electric Winch
- 1 x Controller (Remote)
- 2 x Screw
- 2 x Nut
- 2 x Washer



Image 3.1: All components of the winch kit, including the winch unit, remote control, and mounting hardware.

4. SETUP AND INSTALLATION

Proper installation is crucial for safe and effective operation. If you are unsure about any steps, consult a qualified professional.

4.1 Mounting the Winch

1. Select a sturdy mounting location on your ATV or UTV that can support the winch's weight and pulling forces.
2. Ensure the mounting surface is flat and provides adequate clearance for the winch and wire rope.
3. Use the provided screws, nuts, and washers to securely fasten the winch to the mounting surface. Tighten all fasteners firmly.

4.2 Electrical Connection

1. Ensure the vehicle's power is off before making any electrical connections.
2. Connect the winch's positive (+) cable to the positive terminal of a 24V power source (e.g., vehicle battery).
3. Connect the winch's negative (-) cable to the negative terminal of the power source or a suitable ground point on the vehicle chassis.
4. Ensure all connections are tight and free from corrosion.

5. OPERATING INSTRUCTIONS

Familiarize yourself with the remote control and winch functions before operating under load.

5.1 Using the Remote Control





Image 5.1: The wired remote control for operating the winch.

- Connect the remote control to the winch's control port.
- Press the 'IN' button to retract the wire rope and pull the load.
- Press the 'OUT' button to extend the wire rope and release the load.
- Always maintain a safe distance from the winch and wire rope during operation.

5.2 Manual Rope Release (Separation and Reunion)

To manually unspool the wire rope quickly without using power:

1. Locate the separation and reunion shell on the right side of the winch.
2. Open or disengage this mechanism according to the markings on the winch. This will put the winch in a free-spooling mode.
3. Manually pull the wire rope to the desired length.
4. Once the rope is extended, re-engage the separation and reunion mechanism to lock the drum before applying any load.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your winch.

- **Inspection:** Before each use, inspect the wire rope for frays, kinks, or damage. Check the hook for deformation or cracks. Ensure all electrical connections are secure and free from corrosion.
- **Cleaning:** Keep the winch clean and free from dirt, mud, and debris. Use a damp cloth to wipe down the exterior.
- **Lubrication:** Periodically check and lubricate moving parts as recommended by general winch maintenance practices.
- **Storage:** Store the winch in a dry, protected area when not in use.

7. TROUBLESHOOTING

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

- **Winch Not Operating:** Check all electrical connections, including battery terminals and remote control connection. Ensure the vehicle's power source is adequate (24V).
- **Slow Operation:** This may indicate a low battery charge or an overloaded condition. Reduce the load or ensure the battery is fully charged.
- **Wire Rope Jamming:** Ensure the wire rope is spooling evenly on the drum. If it's uneven, manually guide it while retracting (wearing heavy-duty gloves).
- **Remote Control Not Responding:** Check the remote's cable for damage and ensure it is securely plugged into the winch.

For persistent issues, contact customer support.

8. SPECIFICATIONS

Detailed technical specifications for the JTLB Electric Winch Kit:

Specification	Value
Brand	JTLB
Model Number	JTLBoenh182tvd
Rated Pull	3000lbs (1361kg)
Motor	1.1kw / 1.4hp
Gear Ratio	150 to 1
Transmission Mode	Planetary gear transmission
Wire Rope Diameter	Approx. 4.8mm / 0.19in
Wire Rope Length	Approx. 6 meters / 19.69ft
Roll Size (Diameter x Length)	Approx. 31.5 x 72mm / 1.24 x 2.8in
Braking Device	Automatic brake
Dimension (L x W x H)	Approx. 299 x 100 x 105mm / 11.8 x 4 x 4.1in
Item Weight	13.75 pounds
Package Dimensions	13.78 x 9.45 x 5.91 inches
Batteries Required	No

Pulling Force, Speed, and Current

Pulling Force lbs(kg)	Speed ft/min(m/min)	Current(A)
0	10.8 (3.3)	14

Pulling Force lbs(kg)	Speed ft/min(m/min)	Current(A)
1000 (454)	8.2 (2.5)	60
2000 (907)	3.6 (1.1)	100
3000 (1360)	2.6 (0.8)	130

Layer Pulling Force and Rope Capacity

Layer	Rated Pulling Force lbs(kgs)	Wire Rope Length on Drum ft(m)
1	3000 (1361)	4.6 (14)
2	2320 (1052)	11.5 (3.5)
3	1890 (858)	17.1 (5.2)
4	1590 (720)	24.6 (7.5)
5	1380 (620)	34.4 (10.5)



Pulling force, speed, current		
Pulling force lbs(kg)	Speed ft/min(m/min)	Current(A)
0	10.8 (3.3)	14
1000(454)	8.2(2.5)	60
2000(907)	3.6(1.1)	100
3000(1360)	2.6(0.8)	130

Layer pulling force and layer rope capacity		
Layer	Rated pulling force lbs(kgs)	Wire rope length on drum ft(m)
1	3000(1361)	4.6(14)
2	2320(1052)	11.5(3.5)
3	1890(858)	17.1(5.2)
4	1590(720)	24.6(7.5)
5	1380(620)	34.4(10.5)

Image 8.1: Visual representation of the winch specifications, including performance tables.

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For support, please refer to your purchase documentation.

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

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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