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> [HUSAR WINCH](#) /

> Husar Winch 12V Electric Winch 3000 lbs (1360 kg) with Steel Cable User Manual

HUSAR WINCH BST 'S'

Husar Winch 12V Electric Winch 3000 lbs (1360 kg) with Steel Cable User Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, installation, and maintenance of your Husar Winch 12V Electric Winch, Model BST 'S'. Please read this manual thoroughly before using the winch to ensure proper function and to prevent injury or damage.

The Husar Winch is designed for heavy-duty pulling and recovery tasks, ideal for ATV, UTV, and similar applications. It features a robust 12V motor, a 12-meter steel cable, an automatic brake, and a planetary gear system for reliable performance.



Figure 1: Husar Winch 12V Electric Winch and its components.

2. SAFETY INFORMATION

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

- Always wear appropriate personal protective equipment, including gloves and eye protection, when operating the winch.
- Never exceed the rated capacity of the winch (3000 lbs / 1360 kg).
- Ensure the winch is securely mounted to a stable surface capable of withstanding the pulling force.
- Keep hands and clothing clear of the cable, hook, and fairlead during operation.
- Do not operate the winch if the cable is frayed, kinked, or damaged.
- Always keep a safe distance from the cable under tension. A dampener (e.g., heavy blanket or jacket) should be placed over the cable during winching to absorb energy in case of breakage.
- Never use the winch to lift people or objects over people.
- Disconnect power to the winch when not in use or during maintenance.

- Ensure the vehicle engine is running during winching to maintain battery charge.
- Avoid prolonged continuous winching. Allow the motor to cool down between heavy pulls.

3. PACKAGE CONTENTS

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

- Husar Winch Unit (3000 lbs / 1360 kg) with Steel Cable
- Wired Remote Control
- Wireless Remote Control
- Control Box / Contactor
- Power Cables
- Roller Fairlead
- Mounting Plate
- Hook
- Mounting Hardware (bolts, washers, nuts)



Figure 2: Included components of the Husar Winch kit.

4. SPECIFICATIONS

Feature	Detail
Model Number	BST 'S'
Rated Line Pull	3000 lbs (1360 kg)
Motor	12V DC, 1.5 HP / 1.0 kW

Feature	Detail
Gear Ratio	138:1
Gear Train	Planetary
Brake Type	Automatic
Steel Cable Dimensions	12 meters x 4.8 mm
Fairlead	4-Roll Roller Fairlead
Control	Wired and Wireless Remote Control (Wireless range up to 40 meters)
Product Dimensions	33.4 x 11.4 x 12 cm
Weight	10 kg



Figure 3: Key technical specifications.

DIMENSIONS

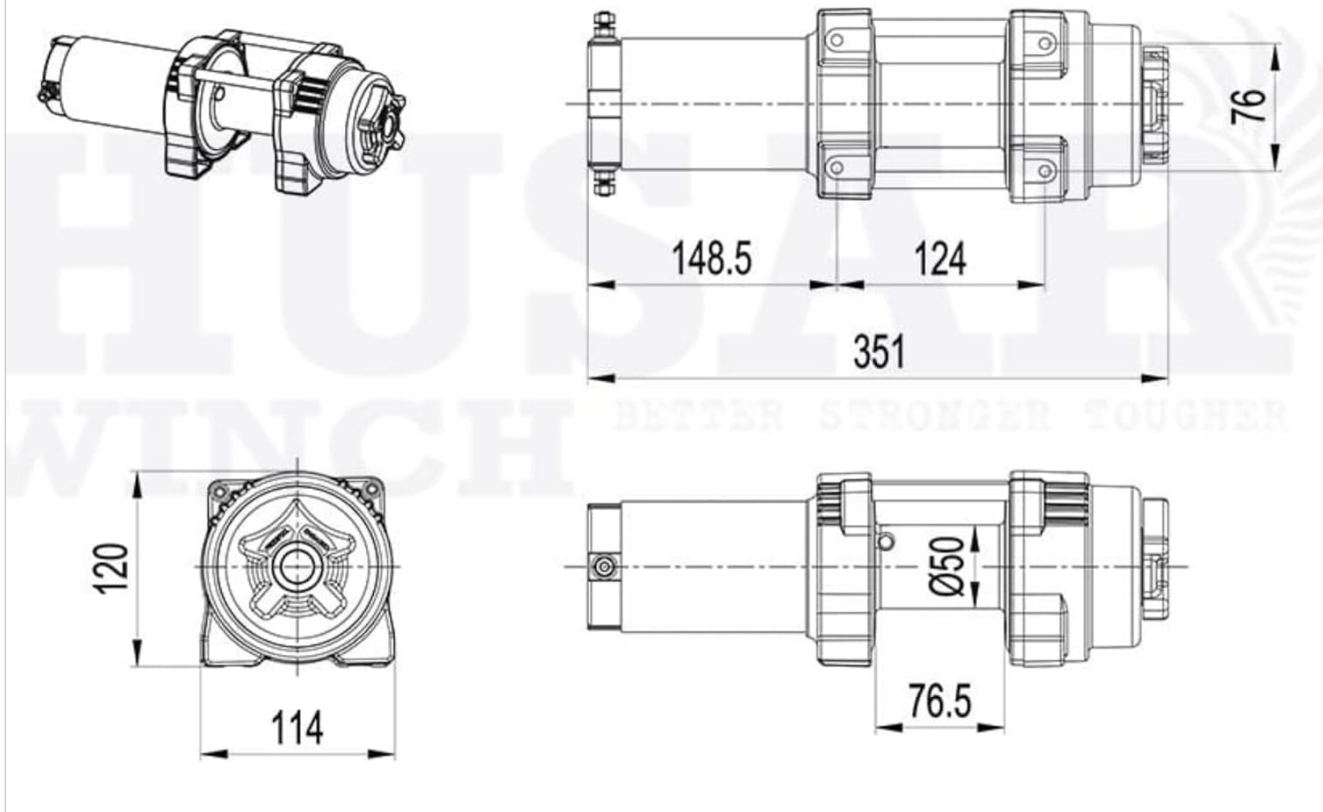


Figure 4: Winch dimensions.

5. SETUP AND INSTALLATION

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

5.1 Mounting the Winch

1. **Choose a Suitable Location:** Select a mounting location on your ATV/UTV or other vehicle that is strong enough to support the winch's maximum pulling force. The mounting surface must be flat and rigid.
2. **Install Mounting Plate:** Secure the provided mounting plate to your vehicle using appropriate hardware. Ensure it is level and firmly attached.
3. **Attach Winch:** Position the winch onto the mounting plate, aligning the mounting holes. Secure the winch using the provided bolts, washers, and nuts. Tighten all fasteners securely.
4. **Install Roller Fairlead:** Mount the roller fairlead to the front of the mounting plate, ensuring the cable can feed smoothly through it without obstruction.

5.2 Electrical Connection

CAUTION: Incorrect wiring can cause damage to the winch or vehicle electrical system. Disconnect the vehicle's battery before making electrical connections.

1. **Mount Control Box:** Find a dry, secure location for the control box (contactor) that is close enough to the winch and battery for the cables to reach.
2. **Connect Motor Cables:** Connect the short, thick cables from the control box to the corresponding terminals on the winch motor (usually marked with colors or symbols).
3. **Connect Battery Cables:** Connect the long, thick power cables from the control box to the vehicle's 12V battery. Connect the red cable to the positive (+) terminal and the black cable to the negative (-) terminal. Ensure connections are tight and corrosion-free.
4. **Connect Remote Control Wires:** Plug in the wired remote control cable to the designated port on the control box. For wireless control, ensure the wireless receiver is properly connected to the control box as per the wiring diagram (refer to specific diagram if provided with product).
5. **Reconnect Battery:** Once all connections are secure, reconnect the vehicle's battery.

6. OPERATING INSTRUCTIONS

Before operating, ensure the winch is properly installed and all safety precautions are understood.

6.1 Pre-Operation Checks

- Inspect the steel cable for any damage, kinks, or fraying.
- Ensure the hook is securely attached and the safety latch functions correctly.
- Check all electrical connections for tightness.
- Ensure the vehicle's engine is running to provide adequate power.

6.2 Winching Procedure

1. **Unspool Cable:** Disengage the clutch (if applicable) and pull out the required length of cable. Always leave at least five wraps of cable on the drum to prevent the cable from detaching.
2. **Secure Anchor Point:** Attach the hook to a secure anchor point (e.g., tree saver strap around a tree, another vehicle's recovery point). Ensure the anchor point is strong enough to withstand the pulling force.
3. **Engage Clutch:** Re-engage the clutch.
4. **Apply Cable Dampener:** Place a heavy blanket or jacket over the middle of the cable to absorb energy in case of cable failure.
5. **Operate Winch:** Use either the wired or wireless remote control to operate the winch.
 - **Wired Remote:** Connect the remote to the control box. Press the 'IN' button to retract the cable and 'OUT' button to extend it.
 - **Wireless Remote:** Ensure the wireless receiver is powered. Press the 'IN' button to retract and 'OUT' button to extend. The wireless range is up to 40 meters in open air.
6. **Monitor Operation:** Keep a safe distance and continuously monitor the winching operation. Ensure the cable spools evenly onto the drum.
7. **Stop Winching:** Once the task is complete, release the remote button.
8. **Retract Cable:** Carefully retract the cable, ensuring it spools neatly and tightly onto the drum. Do not allow the cable to pile up on one side.

9. **Secure Hook:** Secure the hook to its designated storage point on the winch or vehicle.

WIRELESS CONTROL



Figure 5: Wireless remote control for convenient operation.

7. MAINTENANCE

Regular maintenance will extend the life and ensure the safe operation of your winch.

- **Cable Inspection:** Regularly inspect the steel cable for signs of wear, fraying, kinks, or corrosion. Replace damaged cables immediately.
- **Cleanliness:** Keep the winch and cable clean from dirt, mud, and debris. Rinse with fresh water after use, especially in corrosive environments.
- **Lubrication:** Periodically lubricate moving parts, such as the gear train and cable, according to manufacturer recommendations (if specific lubricants are mentioned).
- **Electrical Connections:** Check all electrical connections for corrosion and tightness. Clean terminals as needed.
- **Mounting Hardware:** Periodically check all mounting bolts and fasteners for tightness.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your winch.

Problem	Possible Cause	Solution
Winch does not operate	No power to winch; Loose electrical connections; Faulty remote control; Overload protection activated.	Check battery connections and charge; Tighten all wiring; Test with other remote; Allow motor to cool down.
Winch operates slowly or with reduced power	Low battery voltage; Overload; Corroded electrical connections.	Ensure vehicle engine is running; Reduce load; Clean and tighten connections.
Cable spools unevenly	Improper cable guidance during retraction; Damaged fairlead.	Guide cable manually (wearing gloves) during retraction; Inspect and replace fairlead if damaged.
Motor gets hot	Prolonged heavy use; Overload.	Allow motor to cool down; Reduce load or use snatch block to decrease strain.

9. WARRANTY AND SUPPORT

For specific warranty details, please refer to the documentation provided at the time of purchase or contact the seller directly. Husar Winch aims to provide reliable and innovative products.

If you encounter issues not covered in this troubleshooting guide or require further assistance, please contact your retailer or the Husar Winch customer support team. When contacting support, please have your product model number (BST 'S') and purchase information readily available.

