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FIERYRED ROPEWINCH-S4500-VOR-1

FIERYRED ATV/UTV Winch 4500 lb Electric Winch Instruction Manual

Model: ROPEWINCH-S4500-VOR-1

Brand: FIERYRED

1. INTRODUCTION AND SAFETY INFORMATION

This manual provides essential information for the safe and effective operation, installation, and maintenance of your FIERYRED 4500 lb ATV/UTV Electric Winch. Please read this manual thoroughly before use to ensure proper function and to prevent injury or damage.

Safety Precautions:

- Always wear appropriate personal protective equipment (PPE) including gloves and eye protection when operating the winch.
- Never exceed the rated pulling capacity of the winch.
- Ensure the winch is securely mounted to a structurally sound part of the vehicle.
- Keep hands and clothing clear of the winch rope, fairlead, and hook during operation.
- Do not operate the winch if the rope is frayed, kinked, or damaged.
- Always use a tree saver strap or similar anchor point to protect trees and other objects.
- Disconnect power to the winch when not in use or during maintenance.
- Avoid prolonged continuous operation to prevent motor overheating. Allow the winch to cool down between pulls.

2. PACKAGE CONTENTS

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

- Winch unit (4500 lb capacity with synthetic rope)
- Control Box
- Wired Controller
- Wireless Controller
- Mounting Plate
- Hawse Aluminium Fairlead

- Hook
- Hook Strap
- Screw Set (for installation)

PACKAGE CONTENTS



WIRELESS REMOTE



MOUNTING PLATE



SIGNAL RECEIVER



HOOK



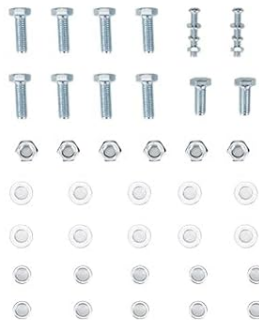
HAWSE FAIRLEAD



HOOK STRAP



WIRED REMOTE



SCREW PARTS



CONNECTION CABLE

Image: Overview of the FIERYRED 4500 lb winch and its included components, such as the wireless remote, mounting plate, signal receiver, hook, wired remote, screw parts, hawse fairlead, and hook strap.

3. PRODUCT FEATURES

The FIERYRED 4500 lb Electric Winch is designed for robust performance and durability:

- **Powerful Motor:** Equipped with a 1.9 HP permanent magnet DC motor, providing reliable pulling muscle.



Image: Internal view of the powerful 1.9 HP permanent magnet motor, highlighting its robust construction and IP67 waterproof rating.

- **Synthetic Rope:** Features a 3/16 inch by 50 feet synthetic rope made of 12 strands braided tough nylon, offering a breaking strength of 23,809 pounds. It is safer, more flexible, lighter, and easier to operate than traditional steel cables.



Image: Close-up view of the 4500 lb synthetic rope, emphasizing its braided nylon construction and resistance to rust and corrosion.

- **Planetary Gear System:** Utilizes a 3-stage planetary gear system with a 153:1 gear reduction ratio for efficient and reliable operation.

1.9 HP PERMANENT MAGNET MOTOR

Suitable for most automotive engines with a 1.33KW/1.9HP output, providing sufficient power for the winch



Greater Torqu



Enhanced Heat Dissipation

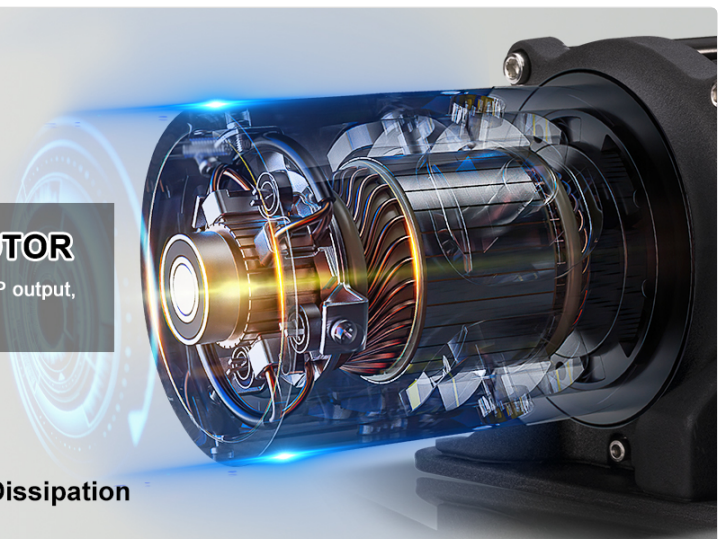


Image: Diagram illustrating the internal 3-stage planetary gear system, designed for powerful and smooth operation.

- **Waterproof Design:** IP67 rated for all sensitive components, including motors and solenoids, ensuring protection against water intrusion, mud, and snow.

STRONG SYNTHETIC ROPE

FieryRed synthetic rope

Made of 12 strands braided tough nylon.
More durable, stronger, and not easily broken



Rope Size: 0.21"X49.21'



Image: The winch being sprayed with water, demonstrating its IP67 waterproof performance and sealed components.

- **Wireless Control System:** Includes a wireless remote control with an 80-foot range, providing convenient operation from a safe distance.

4500LBS SYNTHETIC ROPE

1. Made of 12 strands braided ultra tough nylon.
2. Rust & Corrosion-resistant.
3. IP67-rated waterproof winch.

Rope Diameter Length

0.21"X49.21'



Image: Two wireless remote controls for the winch, showing the 'IN', 'OUT', and power switch functions. A caution note advises holding IN and OUT buttons simultaneously to ensure the remote is ready for use.

- **Clutch Knob:** Allows for easy engagement and freespooling of the winch rope.

WIRELESS REMOTE CONTROL



OUT FUNCTION
Releases the rope



IN FUNCTION
Contraction the rope



SWITCH FUNCTION
Turn on and off the remote control



Caution:

To ensure that the wireless remote can be used normally, please hold down the in and out buttons simultaneously until the red indicator light in the middle lights up.

Image: Close-up of the winch's clutch knob, indicating "Freespool" and "Engaged" positions for rope management.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your winch. It is recommended that installation be performed by a qualified professional if you are unsure about any steps.

Mounting the Winch:

- Identify a suitable mounting location on your ATV/UTV, typically the front bumper or a dedicated winch bracket. Ensure the mounting surface is strong enough to withstand the maximum pulling force of the winch.
- Use the provided mounting plate and screw set to secure the winch firmly. All bolts must be tightened to the manufacturer's specifications.
- Install the hawse aluminium fairlead to guide the synthetic rope smoothly and prevent damage.

Wiring Instructions:

The winch kit includes all necessary wiring components. Follow the wiring diagram provided in the physical user manual for precise connections. Key connections include:

- Connect the main power cables from the winch motor to the control box.
- Connect the control box to your vehicle's 12V battery, ensuring correct polarity (red to positive, black to negative).
- Connect the wired controller and wireless receiver to the control box as per the diagram.



Image: The complete FIERYRED 4500 lb winch system, including the winch, control box, wired remote, wireless remote, hawse fairlead, hook, and various connection cables, illustrating the components involved in setup.

5. OPERATING INSTRUCTIONS

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

Basic Operation:

1. **Prepare for Pull:**

- Ensure the vehicle is stable and secured.
- Disengage the clutch knob (Freespool position) to manually pull out the synthetic rope to the anchor point.
- Attach the hook securely to a suitable anchor point (e.g., tree saver strap around a tree, recovery point on another vehicle).
- Ensure the rope is not twisted or kinked.
- Engage the clutch knob (Engaged position) before beginning the pull.

2. Winching:

- Use either the wired or wireless remote control.
- Press the "IN" button to retract the rope and pull the load.
- Press the "OUT" button to release the rope.
- Operate in short bursts to prevent overheating. Monitor the motor for excessive heat.
- Keep spectators at a safe distance.

3. After Winching:

- Once the pull is complete, release the remote button.
- Carefully disconnect the hook from the anchor point.
- Rewind the rope neatly onto the drum under light tension to prevent tangles and damage.
- Secure the hook and strap.
- Disconnect power to the winch if it has a quick-disconnect feature.

Your browser does not support the video tag.

Video: This video demonstrates the operation of a FIERYRED winch, including its features like the 5500lb capacity, 2.2HP permanent magnet motor, 3-stage planetary gear system, exchangeable covers, durability, included accessories, 1-meter submersible rating, and wired/wireless control. It provides a visual guide to the winch's capabilities and ease of use.

6. MAINTENANCE

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

- **Rope Inspection:** Regularly inspect the synthetic rope for signs of wear, fraying, cuts, or kinks. Replace the rope immediately if any damage is found.
- **Cleaning:** After use, especially in muddy or wet conditions, clean the winch and rope with fresh water. Allow the rope to dry completely before rewinding it onto the drum.
- **Electrical Connections:** Periodically check all electrical connections for corrosion or looseness. Clean and tighten as necessary.
- **Mounting Hardware:** Ensure all mounting bolts remain tight and secure.
- **Lubrication:** The internal gears are pre-lubricated and generally do not require user maintenance. Refer to a qualified service center for internal servicing.

7. TROUBLESHOOTING

If you encounter issues with your winch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Winch does not operate.	No power to the winch; loose electrical connections; faulty remote control; motor overheating.	Check battery connections and voltage; ensure all wiring is secure; test remote control (wired/wireless); allow motor to cool down.
Winch operates slowly or with reduced power.	Low battery voltage; excessive load; motor overheating; worn motor brushes.	Charge vehicle battery; reduce load; allow motor to cool; consult service center for brush replacement.
Rope is tangled or damaged.	Improper winding; contact with sharp objects.	Rewind rope neatly under tension; replace damaged rope immediately.
Clutch does not engage/disengage.	Debris in clutch mechanism; damaged clutch.	Clean around clutch knob; if problem persists, consult service center.

If the problem persists after attempting these solutions, please contact FIERYRED customer support.

8. PRODUCT SPECIFICATIONS

Specification	Detail
Model Number	ROPEWINCH-S4500-VOR-1
Rated Line Pull	4500 lbs (2041 kg)
Motor	1.9 HP Permanent Magnet DC 12V
Gear Reduction Ratio	153:1
Gear Train	3-Stage Planetary
Rope Type	Synthetic Rope (12 strands braided nylon)
Rope Dimensions	0.21 inches x 49.21 feet (5.3 mm x 15 m)
Waterproof Rating	IP67
Item Weight	24.7 pounds (11.2 kg)
Product Dimensions	16 x 11 x 7 inches (40.6 x 27.9 x 17.8 cm)
Included Components	Winch, Control Box, Wired Controller, Wireless Controller, Mounting Plate, Hawse, Hook, Hook Strap, Screw Set

PRODUCT DIMENSIONS



Image: Detailed diagram showing the dimensions of the FIERYRED 4500 lb winch, hawse fairlead, and mounting plate, including length, width, and height measurements.






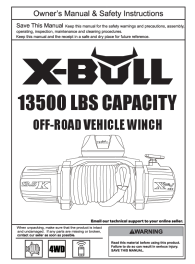
9. WARRANTY AND SUPPORT

Your FIERYRED ATV/UTV Winch comes with a 1-year warranty from the date of purchase.

For warranty claims, technical assistance, or any questions regarding your product, please contact FIERYRED customer support. Our professional after-sales team is available to answer your questions.

FIERYRED is based in the United States and is committed to providing high-quality 4x4 equipment and support.

Related Documents - ROPEWINCH-S4500-VOR-1

	<p>Fieryred Electric Winch User Manual: WIN14500R-ROPE & WIN17500B-ROPE</p> <p>Comprehensive user manual for Fieryred electric winches, covering models WIN14500R-ROPE and WIN17500B-ROPE. Includes safety guidelines, operation instructions, troubleshooting, specifications, and warranty information for off-road vehicle recovery.</p>
	<p>Fieryred WIN5500 Series Electric Winch User Manual</p> <p>Comprehensive user manual for the Fieryred WIN5500 series electric winches, detailing safety precautions, installation guidelines, product specifications, performance data, troubleshooting steps, and warranty information for 4x4 off-road vehicles.</p>
	<p>Fieryred Kinetic Recovery Rope Instruction Manual (TOW1-ROPE/TOW2-ROPE)</p> <p>Comprehensive instruction manual for Fieryred Kinetic Recovery Ropes (TOW1-ROPE and TOW2-ROPE), covering company information, specifications, safety guidelines, setup, recovery procedures, care, maintenance, and warranty details.</p>
	<p>Fieryred 4x4 Recovery Kit: Soft Shackle & Winch Ring Instruction Manual</p> <p>Comprehensive instruction manual for the Fieryred 4x4 Recovery Kit, detailing the soft shackle and winch ring. Includes safety warnings, care and maintenance guidelines, specifications, operation instructions, and warranty information.</p>
	<p>Fieryred Electric High Pressure Washer User Manual HGPC006A/HGPC012A</p> <p>Comprehensive user manual for Fieryred Electric High Pressure Washer models HGPC006A and HGPC012A. This guide provides essential safety warnings, operating instructions, setup procedures, connection details, technical specifications, troubleshooting tips, maintenance advice, and warranty information.</p>
	<p>X-BULL 13500 lbs Off-Road Vehicle Winch Owner's Manual & Safety Instructions</p> <p>Comprehensive owner's manual and safety instructions for the X-BULL 13500 lbs capacity off-road vehicle winch. Covers specifications, installation, operation, maintenance, and troubleshooting for safe vehicle recovery.</p>

