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HFT BADLAND ZXR 5000

Badland Winch ZXR 5000 Lb. UTV/Powersport 12V Winch User Manual

Model: ZXR 5000

INTRODUCTION

This manual provides essential instructions for the safe operation, installation, and maintenance of your Badland Winch ZXR 5000 Lb. UTV/Powersport 12V Winch. Please read this manual thoroughly before installation or operation to ensure proper use and to prevent injury or damage.

Safety Information

Always prioritize safety when operating the winch. Failure to follow safety guidelines can result in serious injury or property damage. Keep hands and clothing clear of the wire rope, hook, and fairlead during operation. Never exceed the winch's rated capacity. Ensure the vehicle is securely braked and chocked before winching. Wear appropriate personal protective equipment, including gloves and eye protection.

PRODUCT OVERVIEW

The Badland ZXR 5000 Lb. Winch is designed for UTV and Powersport applications, offering reliable pulling power for recovery and utility tasks. It features a permanent magnet motor, a three-stage planetary gear system, and aircraft-grade wire rope.



Figure 1: Badland ZXR 5000 Lb. Winch showing the motor, drum, wire rope, and electrical connections on a wooden surface.

Key Components:

- **Winch Motor:** Provides the power to pull the load.
- **Winch Drum:** Stores the wire rope.
- **Wire Rope:** Aircraft-grade steel cable for pulling.
- **Fairlead:** Guides the wire rope onto the drum evenly.
- **Clutch Lever:** Engages or disengages the drum for free spooling.
- **Hook:** Attaches to the load.
- **Remote Control:** Allows for safe operation from a distance.
- **Dash Mounted Switch:** Provides an alternative control method.

SPECIFICATIONS

Feature	Detail
Pulling Capacity	5000 Lb.
Motor Type	Permanent Magnet
Gear System	Three-stage Planetary
Rope Type	Aircraft Grade Wire Rope
Rope Diameter	1/2 inch (Shackle)
Water Resistance Rating	IP 67 (Temporary water submersion)
Brake Type	Automatic Load-Holding
Control	Dash Mounted Switch, 12 ft Handheld Remote Control
Fairlead	Roller Fairlead with Nylon Bushing

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.

Mounting the Winch

The winch must be securely mounted to a strong, flat surface capable of withstanding the maximum rated pull. Use appropriate grade 8 hardware (not included) and ensure all bolts are tightened to the manufacturer's specifications. The mounting location should allow for clear access to the clutch lever and fairlead.



Figure 2: Example of the Badland ZXR 5000 Lb. Winch securely installed on the front bumper area of a UTV.

Electrical Wiring

1. Disconnect the vehicle's battery before beginning any electrical work.
2. Connect the winch motor leads to the solenoid/contacter according to the wiring diagram provided with your winch (refer to specific diagram for color coding).
3. Connect the solenoid/contacter to the vehicle's 12V battery using heavy-gauge cables. Ensure proper polarity: positive to positive, negative to negative.
4. Install the dash-mounted switch and connect it to the solenoid/contacter.
5. Route all cables carefully, avoiding sharp edges, moving parts, and heat sources. Secure cables with

zip ties or clamps.

6. Reconnect the vehicle's battery.

Warning: Incorrect wiring can cause damage to the winch, vehicle, or lead to fire. If you are not experienced with automotive electrical systems, seek professional assistance.

OPERATING INSTRUCTIONS

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

Pre-Operation Checklist

- Ensure the vehicle is stable and the parking brake is engaged.
- Inspect the wire rope for kinks, fraying, or damage. Do not use a damaged rope.
- Check all connections and mounting hardware for tightness.
- Clear the winching area of bystanders and obstacles.

Free Spooling the Wire Rope

To quickly unspool the wire rope, disengage the clutch lever. This allows the drum to rotate freely. Pull the desired length of rope and attach the hook to a secure anchor point. Once the rope is positioned, re-engage the clutch lever firmly before beginning to winch.



Figure 3: Detail view of the winch, highlighting the clutch lever (often labeled "Free Spool" or "Engage") and control markings.

Winching a Load

1. Ensure the clutch is fully engaged.

2. Stand clear of the wire rope and the path of the load.
3. Use the remote control or dash switch to slowly reel in the wire rope.
4. Maintain a slight tension on the rope to ensure it spools evenly.
5. If the motor strains or the winch slows significantly, stop winching. This may indicate an overload.
6. Once the load is moved, release the control button. The automatic load-holding brake will secure the load.
7. Carefully disconnect the hook from the anchor point.
8. Rewind the wire rope neatly onto the drum, keeping slight tension.

Caution: Never use the winch to lift people or as a hoist. Avoid side pulls that can damage the wire rope and winch components.

MAINTENANCE

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

- **After Each Use:** Clean the wire rope and winch housing. Inspect the rope for damage.
- **Periodically:** Check all electrical connections for corrosion and tightness. Inspect mounting hardware.
- **Wire Rope Care:** If the wire rope becomes frayed or damaged, it must be replaced immediately. Do not attempt to repair damaged wire rope.
- **Lubrication:** The internal gears are factory lubricated and generally do not require user maintenance. Consult a service professional if internal lubrication is suspected to be needed.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Winch does not operate	No power to winch; loose electrical connections; faulty remote/switch; motor overload.	Check battery connections and charge; inspect all wiring; test remote/switch; allow motor to cool.
Winch operates slowly or with reduced power	Low battery voltage; undersized wiring; motor overheating; excessive load.	Charge battery; ensure correct gauge wiring; reduce load; allow motor to cool.
Wire rope spools unevenly	Lack of tension during rewinding; damaged fairlead.	Rewind rope under slight tension; inspect and replace fairlead if damaged.
Clutch will not engage/disengage	Debris in clutch mechanism; damaged clutch.	Clean clutch area; if problem persists, seek professional service.

WARRANTY AND SUPPORT

For warranty information or technical support regarding your Badland Winch ZXR 5000 Lb. UTV/Powersport 12V Winch, please refer to the documentation provided at the time of purchase or contact HFT BADLAND customer service directly. Specific warranty terms and conditions may vary.

Manufacturer: HFT BADLAND

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