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AC-DK A-ATV Winch

AC-DK 2500 lb ATV/UTV Winch Synthetic Rope Kits User Manual

Model: A-ATV Winch | Brand: AC-DK

1. Safety Information

Please read and understand all safety warnings and instructions before installing or operating this winch. Failure to follow these instructions may result in serious injury or property damage.

- **Always wear appropriate personal protective equipment (PPE)**, including gloves and eye protection, when operating the winch.
- **Do not exceed the rated line pull capacity** of 2500 lbs. Overloading can cause winch failure and serious injury.
- **Keep hands and body clear of the fairlead, hook, and rope** during operation. The rope can snap under tension.
- **Ensure the vehicle is securely braked** and wheels are chocked before winching.
- **Never operate the winch with frayed, kinked, or damaged rope.** Inspect the rope before each use.
- **Avoid prolonged winching at maximum load** to prevent motor overheating. Allow the motor to cool down between pulls.
- **Disconnect the winch from the power source** when not in use or during maintenance.
- **Do not use the winch for lifting people or as a hoist.** It is designed for pulling applications only.

2. Product Overview

The AC-DK 2500 lb ATV/UTV Winch is a robust and reliable tool designed for off-road recovery, towing, and general utility pulling. It features a powerful motor, durable synthetic rope, and convenient remote control options.

2.1 Key Features

- **2500 lb Rated Line Pull:** Suitable for ATV/UTV and light vehicle recovery.
- **Synthetic Dyneema Rope:** Strong, lightweight, water-resistant, and safer than steel cable. Rope diameter length: 3/16" x 34ft.
- **12V DC Motor:** 0.9kw/1.2hp output permanent magnet motor for stable and sufficient power.
- **Advanced Planetary Gear System:** Gear speed ratio of 153:1 for efficient and fast operation.

- **Wireless and Wired Remote Control:** Provides flexible control options for various situations.
- **New-Advanced Control Box:** Improved internal wiring, anti-loosening, anti-self-starting, and automatic power-off function.
- **Standard Installation Size:** Designed for simplified installation with common mounting patterns.

2.2 Package Contents

The AC-DK 2500 lb Winch kit includes all necessary components for installation and operation:



Image: Overview of the AC-DK 2500 lb Winch package contents, including the winch unit, aluminum fairleader, brand strap, mounting plate, wired remote, wireless remote, installation bolts, control box, clevis hook, and instruction manual.

- AC-DK 2500 lb Winch Unit with Synthetic Rope
- Aluminum Fairleader
- Brand Strap
- Mounting Plate
- Wired Remote Control

- Wireless Remote Control
- Installation Bolts
- Control Box
- Clevis Hook
- Instruction Manual

3. Specifications

Detailed technical specifications for the AC-DK 2500 lb ATV/UTV Winch:

Specification	Value
Manufacturer	AC-DK
Item Weight	16.17 pounds
Product Dimensions	13.4 x 11.6 x 6.7 inches
Item Model Number	A-ATV Winch
Color	Orange
Material	2500 lb Synthetic Rope
Motor	0.9kw / 1.2hp Permanent Magnet DC 12V
Gear Ratio	153:1
Rope Diameter Length	3/16" x 34ft
No-Load Line Speed	25 ft/min
Full-Load Line Speed	9 ft/min
Fairlead Mounting Pattern	4 1/4" (108mm)
Mounting Plate 2-Hole	3.10" (78mm) / 3" (76mm)



Image: Detailed dimensions of the AC-DK 2500 lb winch, including overall size, fairleader, and mounting plate measurements, crucial for proper installation.

4. Setup and Installation

Proper installation is crucial for the safe and effective operation of your AC-DK winch. Ensure your mounting surface is strong enough to support the winch and its maximum rated pull.

4.1 Mounting the Winch

- Select a mounting location that is structurally sound and can handle the full load of the winch.
- Ensure the mounting holes on your vehicle or bracket match the winch's standard dimensions: Fairlead Mounting Pattern: 4 1/4" (108mm); Mounting Plate 2-Hole: 3.10" (78mm) / 3" (76mm).

- Secure the winch using the provided installation bolts. Use appropriate washers and nuts, ensuring all fasteners are tightened to the manufacturer's specifications.
- Mount the fairlead in alignment with the winch drum to ensure smooth rope payout and retrieval.

4.2 Electrical Wiring

The winch requires a 12V DC power source, typically a vehicle battery. Ensure all connections are clean, secure, and properly insulated.

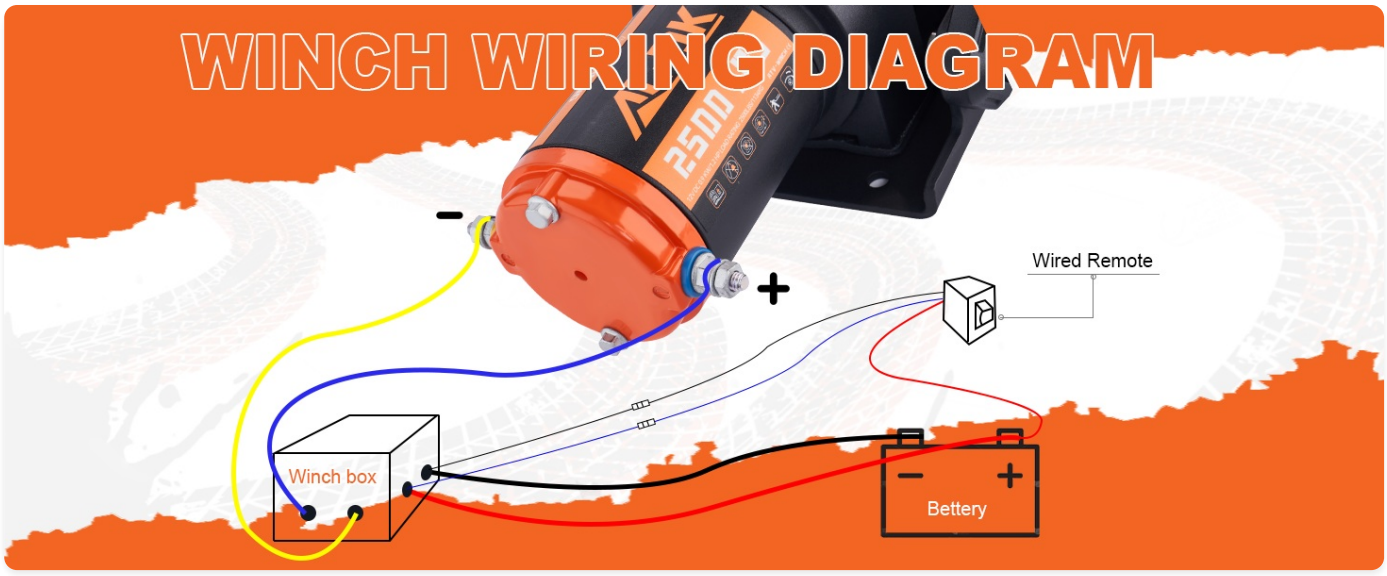


Image: A clear diagram illustrating the electrical wiring connections for the AC-DK winch, showing connections between the winch motor, control box, battery, and wired remote control.

- Connect the winch motor's positive (+) and negative (-) terminals to the corresponding terminals on the control box.
- Connect the control box to the vehicle's 12V battery. The red cable connects to the positive (+) terminal, and the black cable connects to the negative (-) terminal.
- Ensure the minimum cold starting current for this winch is 10A.
- Connect the wired remote control to the designated port on the control box.
- Double-check all connections for tightness and proper polarity before applying power.

5. Operating Instructions

Follow these steps for safe and effective operation of your AC-DK winch.

5.1 Basic Winch Operation

- **Connect Power:** Ensure the winch is properly wired and connected to the 12V power source.
- **Disengage Clutch:** Rotate the clutch handle to the disengaged position (usually counter-clockwise) to allow the rope to free-spool.
- **Pull Out Rope:** Manually pull out the desired length of synthetic rope, ensuring there are at least 5 wraps remaining on the drum for safety.
- **Secure Hook:** Attach the clevis hook securely to a suitable anchor point (e.g., tree saver strap, recovery point).
- **Engage Clutch:** Rotate the clutch handle to the engaged position (usually clockwise) to lock the drum.
- **Operate Remote:** Use either the wired or wireless remote control to spool the rope in or out.

- **Monitor Operation:** Observe the winching process, ensuring the rope spools evenly and there are no obstructions.

5.2 Wireless Remote Pairing

For initial setup or re-pairing, follow these steps:

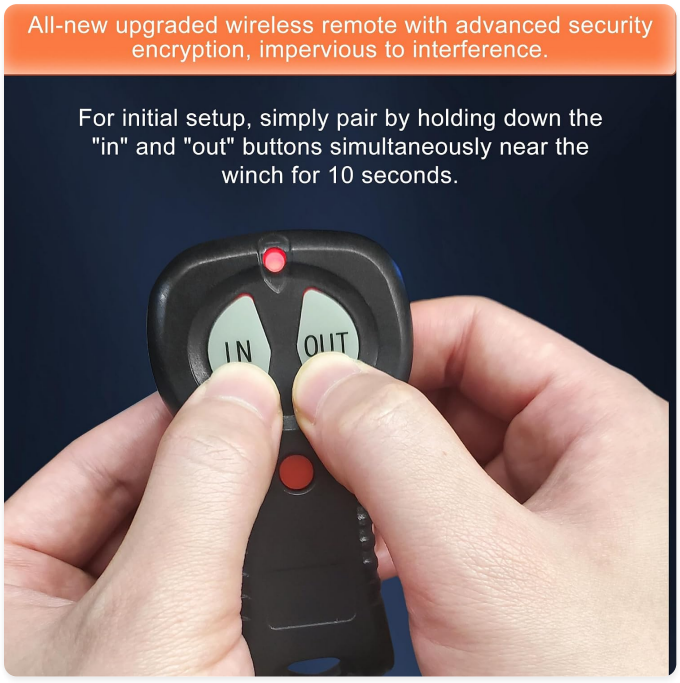


Image: A close-up view of the AC-DK wireless remote control, demonstrating how to pair it by simultaneously pressing the "IN" and "OUT" buttons near the winch for 10 seconds.

- Ensure the winch is powered on.
- Hold down the "IN" and "OUT" buttons simultaneously on the wireless remote control.
- Keep the remote near the winch during this process.
- Hold the buttons for approximately 10 seconds until the remote is paired with the winch.

5.3 Performance Data

The following table provides typical performance data for the 2500 lb winch:



Image: A table showing the line pull, line speed, and current draw of the AC-DK 2500 lb winch at different load levels, illustrating its

operational efficiency.

Line Pull (lbs)	Line Speed (ft/min)	Current (amps)
0	25	24
500	18	50
1500	15	118
2500	9	210

6. Maintenance

Regular maintenance ensures the longevity and reliable performance of your winch.

- **Rope Inspection:** Regularly inspect the synthetic rope for signs of fraying, cuts, or damage. Replace the rope if any damage is found.
- **Electrical Connections:** Check all electrical connections for corrosion, looseness, or damage. Clean terminals as needed and ensure they are tight.
- **Fairlead:** Keep the fairlead clean and free of debris to prevent damage to the rope.
- **Motor and Gearbox:** Keep the motor and gearbox housing clean. Do not attempt to disassemble the motor or gearbox, as this may void the warranty.
- **Storage:** When not in use, store the winch in a dry, protected area to prevent exposure to harsh elements.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Winch does not operate	No power to winch; Loose electrical connections; Faulty remote control; Overload protection activated.	Check battery voltage and connections; Ensure all cables are securely fastened; Test with wired remote if wireless fails; Allow winch to cool down if overheated.
Winch operates slowly or with reduced power	Low battery voltage; Undersized wiring; Overheating; Excessive load.	Charge or replace battery; Ensure wiring gauge is sufficient; Reduce load; Allow winch to cool.
Wireless remote not working	Remote not paired; Dead remote battery; Interference.	Re-pair the remote (refer to Section 5.2); Replace remote battery; Move away from sources of electrical interference.

Problem	Possible Cause	Solution
Rope is tangled or unevenly spooled	Improper winching technique; Lack of tension during spooling.	Carefully unspool and re-spool the rope under light tension; Ensure rope is guided evenly across the drum.

If you are unable to resolve the issue using these steps, please contact AC-DK customer support for assistance.

8. Warranty and Support

AC-DK is committed to providing high-quality products and excellent customer service.

8.1 Warranty Information

All AC-DK winches come with **one year of quality service** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

8.2 Technical Support

AC-DK provides **lifetime technical support** for all its products. If you have any questions regarding installation, operation, maintenance, or troubleshooting, our technical support team is available to assist you.

8.3 How to Contact Support

For customer assistance or to report a product problem, please contact the seller directly through your purchase platform. When contacting support, please be prepared to provide:

- Your order number or proof of purchase.
- A detailed description of the issue.
- Clear pictures or videos demonstrating the problem, if applicable.

Our team pledges to resolve any issues within 12 hours.

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