AC-DK 2000lb

AC-DK 12V 2000-lb. ATV/UTV Electric Winch Instruction Manual

Model: 2000lb

Introduction

This manual provides essential information for the safe and effective operation, installation, and maintenance of your AC-DK 12V 2000-lb. ATV/UTV Electric Winch. Please read these instructions thoroughly before using the product to ensure proper function and to prevent injury or damage.

Safety Information

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

- Always wear appropriate personal protective equipment, including gloves and eye protection, when operating the winch.
- Never exceed the rated line pull capacity of the winch.
- Ensure the winch is securely mounted to a structurally sound surface before operation.
- Keep hands and clothing clear of the winch rope, hook, and fairlead during operation.
- Do not operate the winch if the rope is frayed, kinked, or damaged.
- Always maintain at least five wraps of rope on the winch drum.
- Disconnect power to the winch when not in use or during maintenance.
- Avoid operating the winch at extreme angles that could cause the rope to pile up on one side of the drum.
- Use a tree saver strap or similar anchor point to protect trees and other objects when winching.
- Never use the winch to lift people or animals.

Package Contents

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



Image: Contents of the AC-DK 2000 lb ATV/UTV Electric Winch package.

- AC-DK 2000 lb Electric Winch
- Aluminum Fairlead
- Brand Strap
- Mounting Plate
- Wired Remote Control
- Installation Bolts
- Instructions Manual
- Clevis Hook

Specifications

Feature	Detail
Model Number	2000lb
Rated Line Pull	2000 lbs (907 kg)
Motor	12V DC, 0.82kw / 1.1hp Permanent Magnet
Gear System	Advanced Combined Planetary Gear
Gear Ratio	153:1
Rope Type	Dyneema Synthetic Rope
Rope Dimensions	3/16" x 50' (4.76mm x 15.24m)
No-Load Line Speed	10.5 ft/min (3.2 m/min)
Full-Load Line Speed	2.9 ft/min (0.88 m/min)
Minimum Cold Starting Current	10A
Fairlead Mounting Pattern	4 1/4" (108mm)
Mounting Plate 2-Hole	3.10" (78mm) / 3" (76mm)
Product Dimensions (L x W x H)	11.65 x 3.94 x 4.17 inches (29.6 x 10 x 10.6 cm)
Item Weight	13.2 pounds (6 kg)



Image: Product dimensions and component measurements.

Installation and Setup

Mounting the Winch

The AC-DK 2000 lb winch is designed with standard mounting dimensions for compatibility with various ATV/UTV setups. Ensure your winch bracket is compatible with the following:

- **Fairlead Mounting Pattern:** 4 1/4" (108mm)
- **Mounting Plate 2-Hole:** 3.10" (78mm) / 3" (76mm)

Use the provided installation bolts to secure the winch to your vehicle's mounting plate. Ensure all connections are tight and secure.

Wiring Diagram

Proper electrical connection is crucial for safe and effective winch operation. Follow the diagram below for correct wiring:

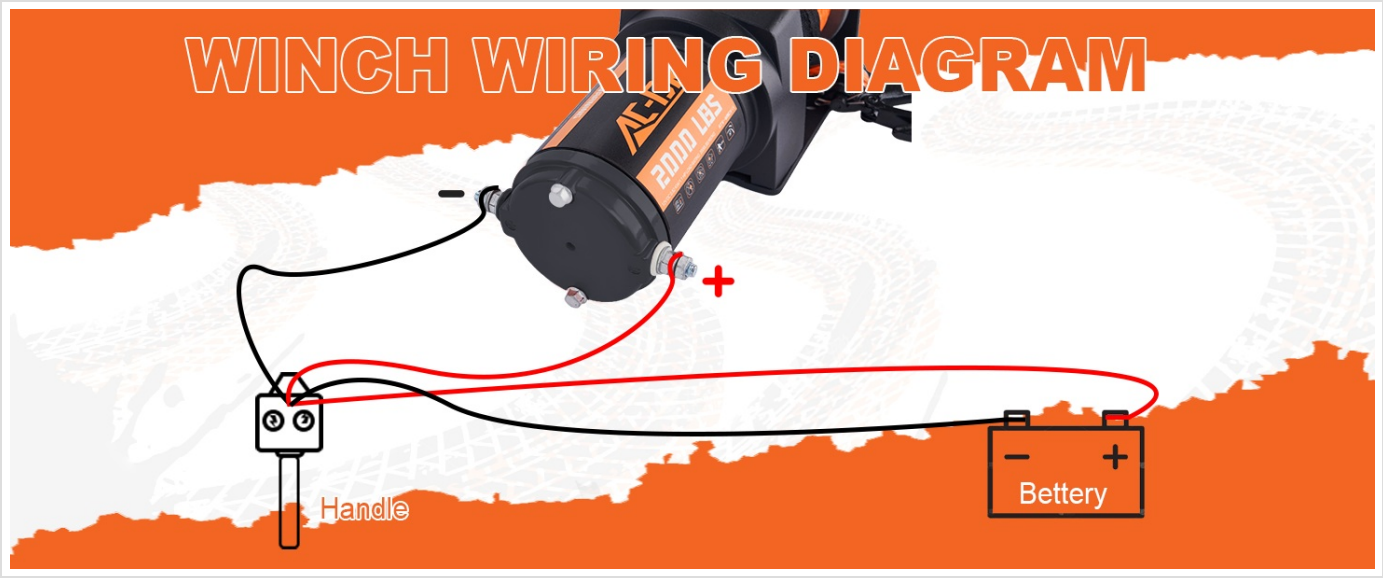


Image: Winch wiring diagram.

- Connect the red power cord from the wired remote to the red terminal of the winch.
- Connect the black power cord from the wired remote to the black terminal of the winch.
- Connect the remaining red terminal from the remote to the positive (+) terminal of your 12V power supply (battery).
- Connect the remaining black terminal from the remote to the negative (-) terminal of your 12V power supply (battery).
- Ensure all connections are clean, tight, and insulated to prevent short circuits.

Operation

Basic Winch Operation

Once the winch is correctly installed and wired, operation is straightforward using the wired remote control.

- **To Start:** Connect the power supply.
- **Clutch Engagement:** Rotate the clutch at a clockwise position to engage the gear system for winching.
- **Winching In/Out:** Use the wired remote control handle to either income (reel in) or release (reel out) the synthetic rope.
- **Clutch Disengagement:** If the rope becomes stuck, the new clutch design allows for easier disengagement to free the rope.

Planetary Gear System and Performance

The winch features an advanced combined planetary gear system with a 153:1 gear ratio, providing efficient and stable pulling power. The 0.82kw/1.1hp permanent magnet DC 12V motor ensures sufficient power output.



Image: Planetary gear system and performance table.

Performance Data:

Line Pull (lbs)	Line Speed (ft/min)	Current (amps)
0	10.5	8
500	9.2	30
1000	7.2	60
1500	5.2	90
2000	2.9	120

The synthetic rope is 3/16" x 50' and is designed to be strong, light, and water-resistant, reducing the risk of snapback compared to steel cables.



Image: Dyneema synthetic rope features.

Maintenance

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

- **Rope Inspection:** Regularly inspect the synthetic rope for any signs of wear, fraying, cuts, or damage. Replace the rope if any damage is found.
- **Electrical Connections:** Check all electrical connections periodically to ensure they are clean, tight, and free from corrosion.
- **Winch Housing:** Keep the winch housing clean and free of dirt, mud, and debris.
- **Lubrication:** Consult a qualified technician for internal lubrication requirements. Do not attempt to disassemble the winch unless you are trained to do so.
- **Storage:** When not in use, store the winch in a dry environment to prevent corrosion.

Troubleshooting

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

- **Winch Not Operating:**
  - Check all electrical connections for tightness and corrosion.
  - Ensure the battery is fully charged and providing adequate voltage (12V).
  - Verify that the remote control is properly connected and functioning.
  - Check for any tripped circuit breakers or blown fuses in the wiring system.
- **Slow Winch Speed:**
  - This may indicate a low battery charge or an overloaded condition. Reduce the load or recharge the battery.
  - Inspect the rope for any binding or obstructions.
- **Rope Damage:**
  - If the synthetic rope shows signs of damage, replace it immediately to ensure safe operation.

For persistent issues or complex problems, please contact AC-DK customer support for assistance.

Warranty and Support

AC-DK provides comprehensive support for its products:

- **Quality Service:** All AC-DK winches come with a one-year quality service warranty.
- **Technical Support:** Lifetime technical support is provided for all products.
- **Contacting Support:** If you require customer assistance or encounter any product problems, please click "Contact Seller" in your order form. Provide clear product pictures and videos to help expedite the resolution process. Our team aims to resolve issues within 12 hours.

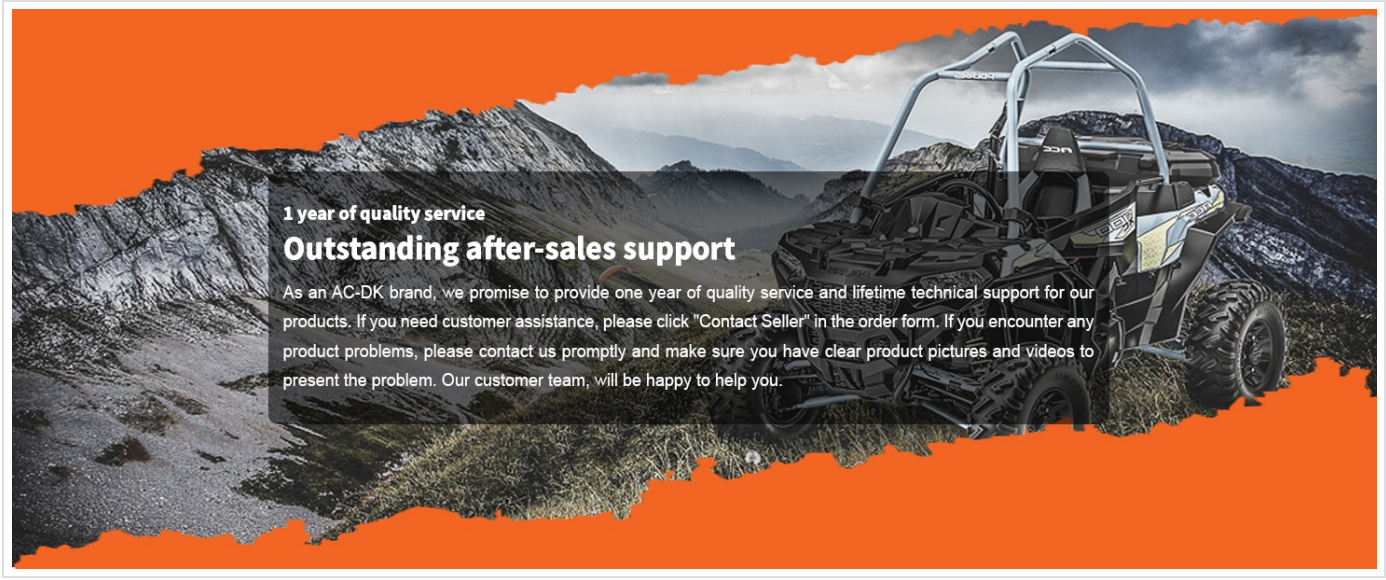


Image: AC-DK after-sales support information.

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Name

Anonymous

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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