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AC-DK A-ATV Winch

AC-DK 3500 lb ATV/UTV Winch Synthetic Rope Kit

Model: A-ATV Winch

1. Safety Information

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

- Always wear appropriate safety gear, including gloves and eye protection, when operating the winch.
- Never exceed the rated capacity of the winch (3500 lbs).
- Ensure the winch is securely mounted to a structurally sound part of the vehicle.
- Keep hands and clothing clear of the 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 the winch from the power source when not in use or during maintenance.
- Avoid prolonged continuous operation to prevent overheating. Allow the winch to cool down between heavy pulls.

2. Package Contents

Verify that all items listed below are included in your package. If any parts are missing or damaged, contact AC-DK customer support.



This image displays the complete contents of the AC-DK 3500 lb ATV/UTV Winch Synthetic Rope Kit, including the winch unit, wired remote, installation bolts, instructions, clevis hook, aluminum fairleader, brand strap, and mounting plate.

- AC-DK 3500 lb Winch Unit with Synthetic Rope
- Wired Remote Control
- Wireless Remote Controls (2 units)
- Control Box
- Mounting Plate
- Aluminum Fairleader
- Clevis Hook
- Installation Bolt Kit
- Brand Strap
- Instruction Manual

3. Product Specifications

The following table outlines the key specifications for the AC-DK 3500 lb ATV/UTV Winch.

Feature	Specification
Model Number	A-ATV Winch
Rated Line Pull	3500 lbs (1588 kg)
Motor	12V DC, 1.1 kW / 1.5 HP
Gear Ratio	153:1 (3-Stage Planetary Gear)
Rope Type	Synthetic Rope
Rope Dimensions	7/32" x 30' (5.5 mm x 9.1 m)
No Load Line Speed	10.5 ft/min (3.2 m/min)
Full Load Line Speed	2.9 ft/min (0.9 m/min)
Winch Dimensions	13.4 x 11.6 x 6.7 inches (approximate)
Item Weight	16.74 pounds (7.59 kg)
Color	Black & Orange



This image provides detailed dimensions for the winch unit, fairleader, and clevis hook, assisting with installation planning.



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

This table illustrates the winch's performance characteristics, including line pull capacity, corresponding line speed, and current draw at various loads.

4. Installation

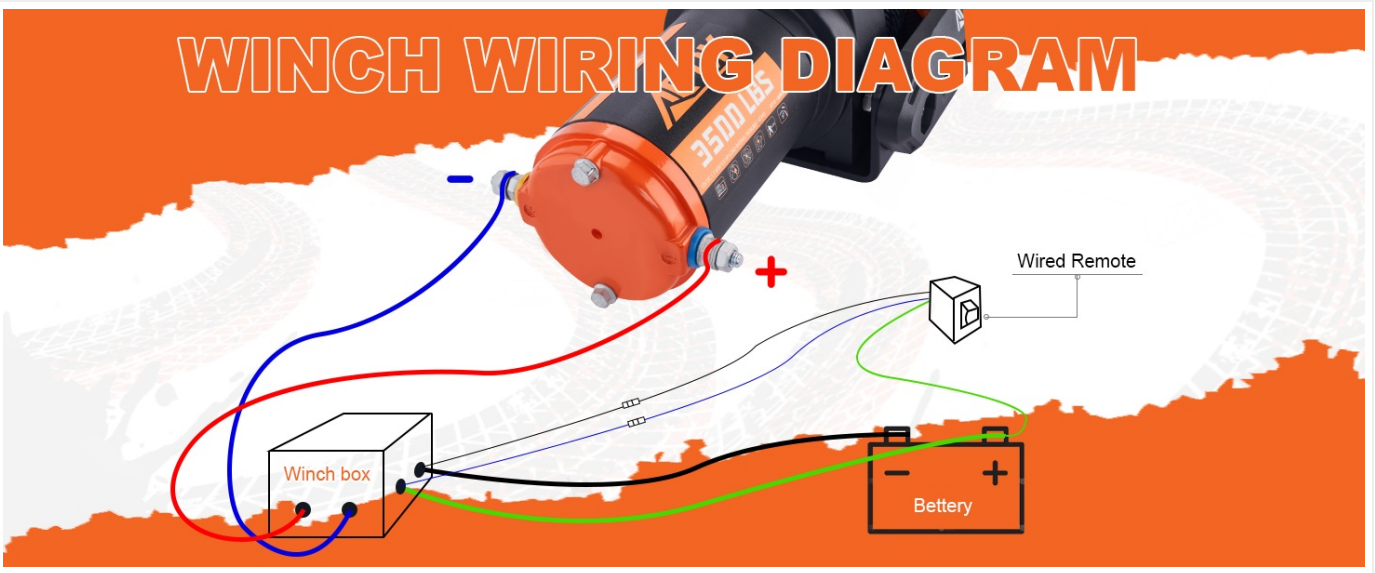
4.1 Mounting the Winch

The winch should be mounted on a flat, rigid surface capable of supporting the winch's maximum pulling force. Use the provided mounting plate and hardware.

1. Identify a suitable mounting location on your ATV, UTV, or trailer.
2. Position the mounting plate and mark the drilling points.
3. Drill holes as required for the mounting bolts.
4. Secure the winch to the mounting plate using the provided bolts, washers, and nuts. Ensure all fasteners are tightened securely.
5. Attach the aluminum fairleader to the mounting plate, ensuring the rope can pass through freely.

4.2 Wiring Connections

Proper wiring is critical for safe and effective operation. Refer to the wiring diagram below and ensure all connections are secure and insulated.



This diagram shows the correct electrical connections between the winch, the control box, the battery, and the wired remote control.

1. Connect the winch motor cables to the control box terminals as indicated in the diagram (typically color-coded).
2. Connect the control box power cables (red for positive, black for negative) to the vehicle's 12V battery terminals. Ensure a fuse or circuit breaker is installed on the positive line as close to the battery as possible.
3. Connect the wired remote control cable to the designated port on the control box.
4. Ensure all connections are tight and protected from moisture and corrosion.

4.3 Control Box Placement

Mount the control box in a location that is protected from direct impact and excessive moisture, yet accessible for wiring and remote connection.



The control box provides power distribution and control for the winch motor, managing the direction and speed of rope movement.

5. Operation

5.1 Clutch Engagement and Disengagement

The winch features a free-spooling clutch to allow manual unwinding of the synthetic rope.

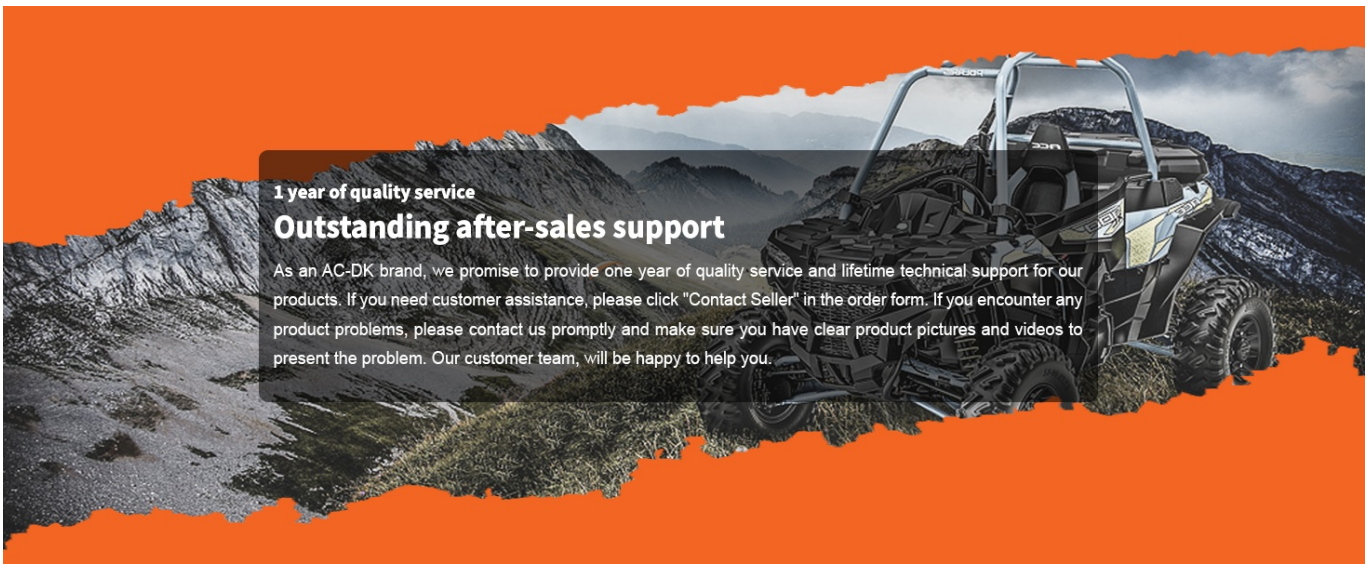


This image highlights the clutch mechanism, designed for easy rotation and quick release of the rope.

- To **disengage** the clutch (free spool), rotate the clutch handle counter-clockwise. This allows you to pull out the rope manually.
- To **engage** the clutch (for winching), rotate the clutch handle clockwise until it locks into position. The winch is now ready for powered operation.

5.2 Using the Remote Controls

The winch can be operated using either the wired remote control or the wireless remote controls.



This image displays both the wired and wireless remote controls, offering flexible operation options for the winch.

- **Wired Remote:** Connect the wired remote to the control box. Press the 'IN' button to retract the rope and the 'OUT' button to extend the rope.
- **Wireless Remote:** Ensure the wireless receiver is connected and powered. Press the corresponding buttons on the wireless remote to control rope movement. The wireless range is approximately 80 feet.

5.3 General Winching Procedures

1. **Assess the Situation:** Determine the load, anchor point, and path of the pull.
2. **Prepare the Winch:** Ensure the clutch is engaged.

3. **Connect to Anchor:** Extend the rope to a secure anchor point. Use a tree saver strap if anchoring to a tree. Secure the clevis hook to the anchor point.
4. **Clear the Area:** Ensure all bystanders are at a safe distance.
5. **Begin Winching:** Use the remote control to slowly retract the rope. Monitor the rope and winch for any signs of strain or malfunction.
6. **Stop and Re-evaluate:** If the winch struggles or the vehicle does not move, stop and re-evaluate the setup.
7. **Release Tension:** Once the pull is complete, release tension on the rope before disconnecting from the anchor.
8. **Rewind Rope:** Carefully rewind the rope onto the drum under light tension to ensure even layering.

6. Maintenance

6.1 Synthetic Rope Care

The synthetic rope is designed for strength and durability, but proper care extends its lifespan.



This image shows the high-intensity Dyneema synthetic rope, highlighting its strong and water-resistant properties compared to traditional

steel cable.

- **Inspect Regularly:** Before each use, inspect the entire length of the rope for cuts, abrasions, fraying, or other damage.
- **Clean:** If the rope becomes dirty, clean it with mild soap and water, then rinse thoroughly and allow it to air dry completely before rewinding.
- **Avoid Chemicals:** Do not expose the rope to harsh chemicals, acids, or solvents.
- **Even Winding:** Always rewind the rope evenly and under light tension to prevent damage and tangling.

6.2 General Winch Care

- **Check Connections:** Periodically inspect all electrical connections for corrosion or looseness. Clean and tighten as necessary.
- **Lubrication:** Consult a qualified technician for internal lubrication if needed. Do not attempt to disassemble the winch motor or gearbox unless you are trained to do so.
- **Storage:** When not in use, store the winch in a dry, protected environment.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Winch does not operate	No power to winch; Loose electrical connections; Faulty remote control; Engaged clutch (for powered operation)	Check battery connections and charge; Inspect all wiring for tightness and corrosion; Test with both wired and wireless remotes; Ensure clutch is fully engaged.
Winch operates slowly or with reduced power	Low battery voltage; Overload; Overheating	Charge battery; Reduce load; Allow winch to cool down.
Remote control not working	Dead batteries (wireless remote); Loose connection (wired remote); Remote receiver issue	Replace batteries in wireless remote; Check wired remote connection to control box; Ensure remote receiver is properly connected and powered.
Rope does not spool evenly	Insufficient tension during rewinding; Damaged fairleader	Rewind rope under light tension; Inspect fairleader for damage and replace if necessary.

8. Warranty and Support

AC-DK provides a **1-year quality service warranty** and **lifetime technical support** for all its products.

If you require customer assistance or encounter any product problems, please contact AC-DK customer service. To facilitate a quick resolution, be prepared to provide clear product pictures and videos to demonstrate the issue.

You can typically find contact information for customer service through your purchase platform or the official AC-DK website.

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