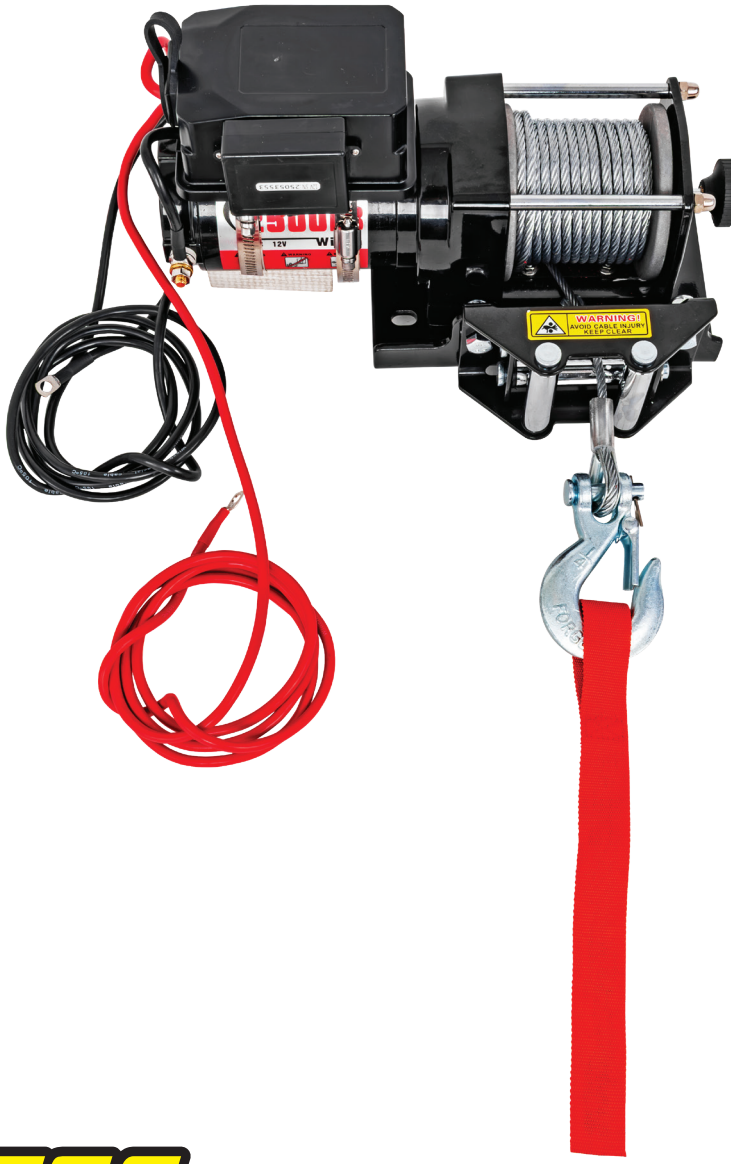
User Guide

2,500 Lb. ATV/UTV Winch

555-80376



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Read Before Use

Thank you for your purchase of the JEGS 555-80376 2,500 lb. Winch.

Before installing and using this winch, read this manual thoroughly. It is important to understand the necessary steps and safety warnings.

This winch's pulling force can pose a safety risk is used improperly. In this manual you will find information on safety, installation, and use.

Verify all components are included before use. If any components are missing or damaged, or if you have any questions contact Tech Support at 1.800.345.4545

Return Information: ***Once any component of this winch has been modified, they will not be accepted for return.***

Winch Accessories

This list of parts are not included, but recommended when using this winch.

- Gloves - To safely handle the cable
- Clevis/D-Shackle - Attachments
- Anchor Strap - Adds versatility
- Blanket - Safety if cable breaks

Parts List

PART #	PART	QTY		PART #	PART	QTY
1	Winch (2500 Lb.)	1		7	Terminal Insulators	4
2	Wired Controller	1		8	Hook Strap	1
3	Wireless Controller	1		9	Control Module	1
4	Roller Fairlead	1		10	Battery Leads	2
5	Clevis Hook	1		11	Clutch Knob	1
6	Handlebar Mount	1		12	Mounting Clamps	2

Safety

- Do not exceed rated capacity.
- Intermittent use only.
- Do not use winch to lift or move a person.
- A minimum of five wraps of cable around the barrel drum are necessary for pulling and holding the rated load.
- Keep yourself and others a safe distance to the side of the cable when under tension.
- The wire rope may break before the motor stalls. For heavy loads at or near the rated capacity, use a pulley block/snatch block to reduce the load on the cable.
- Never step over a cable, or near a cable under load.
- Don't move the vehicle to pull a load on the cable winch. Cable breakage could result.
- Disconnect the remote control and battery leads when not in use.
- Do not exceed max pull line ratings.
- Do not use as a hoist.
- Avoid "Shock Loads." Do not use the control switch intermittently to take up the slack in the wire rope.
- Failure to heed these warnings may result in personal, and/or property damage.
- Never release the free-spool clutch when there is a load on the winch.
- Use hook strap when handling the hook for spooling or un-spooling the wire cable.
- Use gloves to protect your hands when handling the cable. Never let the cable slide through your hands.
- Apply wheel chocks if the vehicle is on an incline.
- The duration of the winch pulls should be kept as short as possible to prevent overheating.
- If the motor becomes hot, stop immediately and let it cool.
- If the motor stalls do not maintain power to the winch.
- When re-spooling the cable keep a slight load on the cable while pushing the remote button to draw the cable onto the spool. Walk toward the winch, do not let it slip through your hands. Do not let your hands get within 1 ft. of the winch. At that point, release the winch and finish spooling by hand using the knob on the side of the drum.
- Keep your vehicle engine running to minimize battery drain.
- Inspect the winch's mount and components before each use.

Assembly & Mounting

- The JEGS 2,500 lb. winch is designed with a bolt pattern that is standard on this class of winch. Many winch mounting kits are available in this bolt pattern for most ATVs and SXSs.
- Mounting plate must be rated to the winch's capacity at a minimum
- Ensure that your winch is mounted on a flat surface so that the motor, drum, and gear housing are properly aligned. Proper alignment of the winch will allow for even distribution of the full rated load.
- Before drilling ensure that there are no hidden components or structural parts that may be damaged.
- This winch is designed to be installed with M8 hardware.

Control Module Mounting Bracket

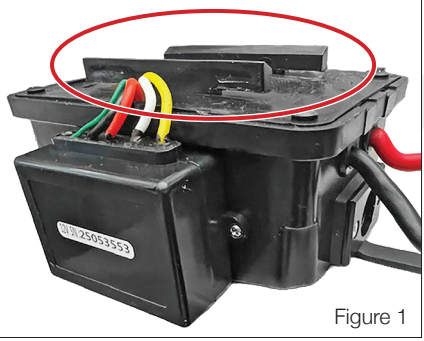

Figure 1

- Attach the #9 Control Module to the winch assembly using the included clamps. Slide each clamp through the slots at the body of the control module's case. Fig.1
- Connect the control module wiring to the winch assembly using the shorter red and black wires.
- The red wire connects to the rear of the winch mount on the terminal with the (+) symbol. The black wire connect to the winch's front post with the (-) negative symbol. Fig.2

Figure 2

- Connect the #10 longer black and red wires to the vehicle's battery. The red wire goes to the (+) positive battery terminal, and the black wire goes to the (-) negative terminal.
- Attach the #5 Clevis Hook to the cable. Pull and turn the #11

Assembly & Mounting

Clutch Knob to the OFF position (free-spooling) Fig.3. Pull out a short length of cable from the drum. Remove the pin from the clevis hook, position the clevis hook's mounting holes in-line with the cable eyelet and reinsert mounting pin. Ensure that the cotter pin ends are bent to ensure that it stays secure. Fig.4

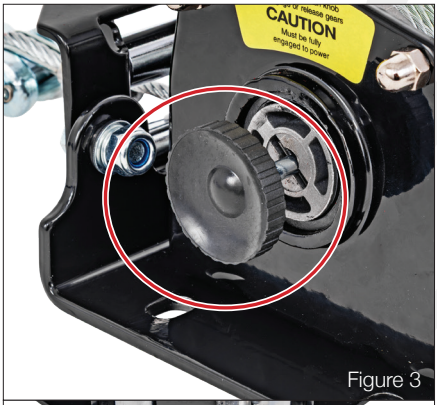

Figure 3

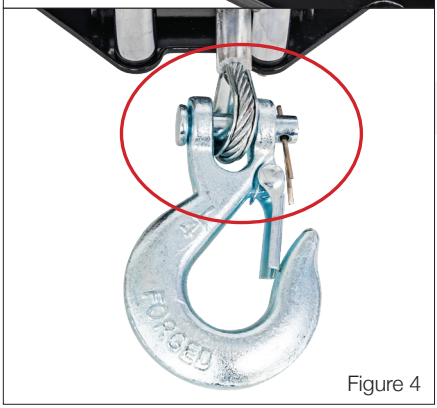

Figure 4

- Always use the #8 Hook Strap when free-spooling the cable. This keeps your fingers away from the rotating drum.
- Check the drum for proper rotation. Pull and turn the clutch knob to the OFF position (Free-spooling). Pull out some cable from the drum, then turn the clutch knob to the IN position to engage the gears.
- Press the "OUT" button on the controller (Fig.5). If the drum is turning and releasing more cable then your connections are accurate. If the drum is turning and pulling the cable inward then reverse the leads on the winch motor. Repeat and check for correct rotation.

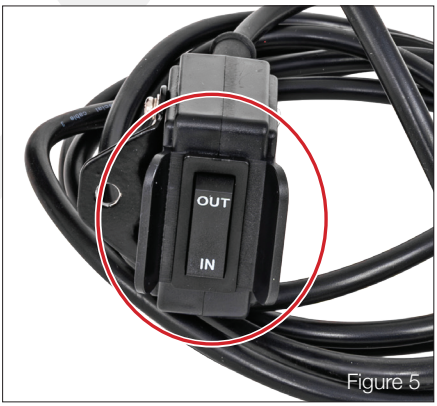

Figure 5

Handlebar Switch Assembly

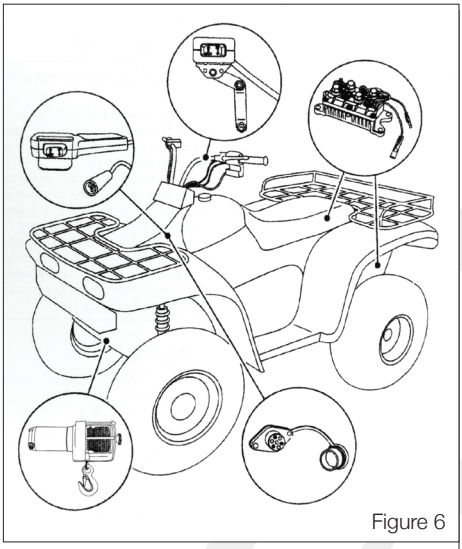

Figure 6

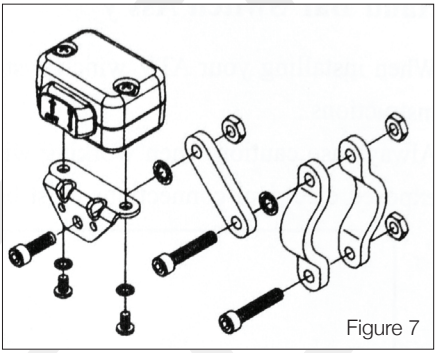

Figure 7

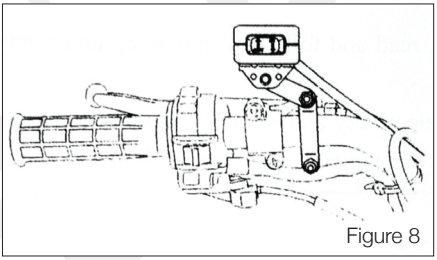

Figure 8

NOTE

Mounting locations will vary depending on the make and model of your ATV. Check your user manual for the manufacturer's suggested location.

- It is recommended that the switch be installed on the left handlebar.
- A piece of electrical tape around the handlebar will help prevent rotation of mount on the handle bar.
- Do not tighten over any hoses or cables.

Operation

- This winch is rated at 2,500 lbs. The capacity is based on when spooling the first rope layer on the drum. Overloads can damage the winch/ motor/or wire rope. For loads over 50%. We recommend the use of the pulley block/snatch block to double the wire rope line. The will aid in two ways
  1. Reduce the number or rope layers on the drum,
  2. Reduce the load on the wire rope by as much as 50%.
- When doubling the line back to the vehicle, attach to the frame or other load bearing part.
- The vehicle engine should be kept running during operation of the winch to minimize battery drain and maximize power and speed of the winch. If the winch is used for a considerable time with the engine off the battery may be drained and too weak to restart the engine.
- We recommend that you set up a few test runs to familiarize yourself with rigging techniques, the sounds your winch makes under various loads, the way the cable spools on the drum, etc.
- Inspect the wire rope and equipment before each use. A frayed or damaged rope shall be replaced immediately.
- Inspect the winch installation and bolts to ensure that all bolts are tight before each operation.
- Never connect the cable back to itself. This will cause cable damage. Always use a snatch block, sling or chain of suitable strength.
- Store the remote control inside your vehicle in a place where it will not be damaged.
- If the winch appears to be damaged in any way, it is found to be worn, or it operates abnormally REMOVE IT FROM SERVICE UNTIL REPAIRED.
- Pull only on areas of the vehicle that are specified by the vehicle manufacturer.
- if you are trying to move your ATV ensure vehicle is in NEUTRAL before operating the winch.
- If the vehicle is not supposed to be moved, engage the emergency brake and chock the wheels.
- DO NOT wrap the cable around the pulling point and hook it onto itself. This can damage the cable.
- DO NOT use a recovery strap. They are designed to stretch.

Remote Control Operation

WIRED OPERATION

1. Connect remote control wiring to the socket located winch's control module.
2. Verify that the winch clutch knob is in the IN position.
3. Press the wired switch button in the IN position to pull the cable inward
4. Press the wired switch button in the OUT position to release the cable.

WIRELESS OPERATION

1. Activate the wireless controller by sliding the side-mounted power switch to the ON position.
2. Press the IN button on the controller to pull the cable inward.
3. Press the OUT button on the controller to release the cable.
4. When finished using the controller slide the side-mounted power switch to the OFF position.

Maintenance

- Periodically check the tightness of the mounting bolts and electrical connections. Tighten as needed.
- Remove all dirt or corrosion and always keep clean.
- Do not attempt to disassemble the gear box. Repairs should be done by the manufacturer or an authorized repair center.
- The gear box has been lubricated using a high-temperature lithium grease and is sealed at the factory. No internal lubrication is required.

Specifications

Rated Line Pull...2500 Lbs Single Line

Motor.....Permanent magnetic DC 12V with 1.1 hp

Gear..... Differential planetary

Gear ratio.....153 : 1

Wire rope.....3/16" × 41'

Drum size.....1.25" × 2.86"

Dimensions.....11.8" L × 4.15" W × 4.15" H

N W.....7 kg

G.W.....10.5kg

Line Speed & Motor Current (1st Layer)

Line Pull	Lbs.	0	1000	2000	2500
	Kgs.	0	454	907	1134
Line Speed	FPM	10	7.1	3.3	2.6
	MPM	3.0	2.15	1.3	0.8
Motor Current	Amps	12	60	90	120

Line Pull & Cable Capacity

Layer of Cable		1	2	3	4	5
Rated Line Pull Per Layer	Lbs.	2500	2000	1800	1590	1380
	Kgs.	1134	907	816	720	620
Cable Capacity Per Layer	Ft.	4.9	11.5	19.3	28.5	32
	M	1.5	3.5	5.9	8.7	10

Troubleshooting

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTIONS
• Motor does not turn on • Motor runs but cable drum does not turn • Motor runs slowly • Motor runs without normal power • Motor overheating • Motor runs in one direction only	• Switch Assembly not connected property • Loose battery cable connection • Malfunctioning solenoid • Defective Switch Assembly • Defective motor • Water ingress has effected the motor	• Insert switch assembly all the way into the connector. • Tighten nuts on all cable connections. • Tap solenoid to loosen contacts. Apply 12 volts to coil terminals directly. A clicking indicates proper activation. • Replace switch assembly. • Check for voltage at armature port with switch pressed. If voltage is present replace motor. • Allow to drain and dry. Run in short bursts without load until completely dry.
• Motor runs, but Cable drum does not turn	• Clutch not engaged	• Move Clutch Knob to the “IN” position. If problem persists, a qualified technician needs to check and repair.
• Motor runs slowly • Motor runs without normal power	• Insufficient current or voltage	• Battery weak, recharge. Run winch with ATV motor running. • Loose or corroded battery cable connections. Clean, tighten, or replace
• Motor overheating	• Winch running time too long	• Allow winch to cool down periodically.
• Motor runs in one direction only	• Defective or stuck solenoid • Defective Switch Assembly	• Tap solenoid to loosen contacts. • Repair or replace solenoid. • Replace Switch Assembly

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Return Information: ***Once the winch has been modified, it will not be accepted for return.***