

Installation Instructions for 92600

ATV Winch

3000 lb. Rated Pull

SPECIFICATIONS

Rated line pull: 3000 lbs. (1360kgs) single line
Motor: Permanent magnetic DC 12V with 1.2 hp. /0.9kw output
Gear: Differential planetary
Gear ratio: 153 : 1
Wire rope: 3/16" x 41' (4.8mm x 11m)
Drum size: 1.25" x 2.86" (31.75mm 72mm)
Dimensions: L x W x H (300mm 105mm 105mm)
N.W.: 7.5 kg
G.W.: 11 kg

Line speed and motor current (first layer)

Line pull	Lbs.	0	1000	2000	3000
	Kgs	0	454	907	1360
Line speed	FPM	9.5	6.6	3.6	2.3
	MPM	2.8	2.0	1.1	0.7
Motor current	Amps	12	60	90	150

Line pull and cable capacity

Layer of cable	1	2	3	4	5
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Rated line pull per layer	Lbs.	3000	2320	1890	1590	1380
	Kgs	1360	1052	858	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

INTRODUCTION

Congratulations on your purchase of a JEGS winch. Designed and built to strict specifications. With proper use and maintenance your winch should bring you years of satisfying service.

WARNING - Read, study and follow all instructions before operating this device. Failure to heed these instructions may result in personal injury and/or property damage.

Your winch can develop tremendous pulling forces and if used unsafely or improperly could result in property damage, serious injury or death. Ultimately, safe operation of this device rests with you, the operator.

CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. This notation is also used to alert against unsafe practices.

WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



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INCLUDED WITH YOUR WINCH

DESCRIPTION	QUANTITY
1. Winch Assembly with Wire Rope	1
2. Cap Bolt M8 x 30	2
3. Lock Washers	2
4. Flat Washers	2
5. M8 Nuts	2
6. Snatch Block/Pulley	1
7. Clevis Hook w/ Pin	1
8. Power cord/Switch Assembly	1
9. Strap	1

WINCH ACCESSORIES YOU WILL NEED

NOT INCLUDED WITH YOUR WINCH

Gloves – For handling the wire rope and hook strap.

Clevis/D-shackle - For connecting your snatch block and anchor strap.

Anchor Strap/Chain - Tree saver anchor straps are made of high quality nylon with high tensile strength from 5,000 to 10,000 lbs.

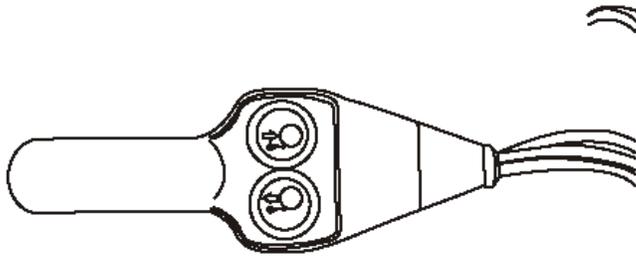
Heavy Blanket - place on the cable to absorb energy should the wire rope break.

WINCH ASSEMBLY AND MOUNTING

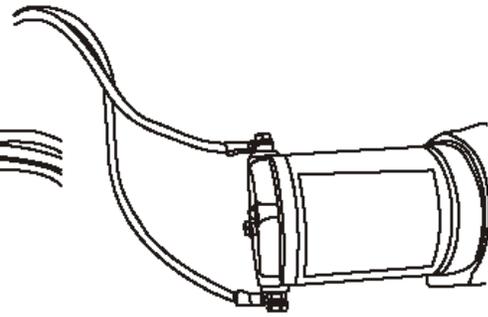
1. Your winch is designed with a bolt pattern that is standard in this class of winch. Many winch mounting kits are available that utilize this bolt pattern for the most popular ATVs and mounting channels. If you cannot find a kit locally, contact JEGS and we will provide you with the name of a dealer near you.
 2. Regardless of the mounting kit you use, ensure that your winch is mounted on a flat surface so that the three major sections (motor, drum and gear housing) are properly aligned. Proper alignment of the winch will allow even distribution of the full rated load.
 3. Utilize the M8 x 30 mounting bolts, washers and nuts included.
 4. Connect the battery (4' 1") and motor (5' 9") leads. Connect the red (positive+) to the in-facing terminal (marked+) on the motor and the black (Negative-) to out-facing terminal (marked-) on the motor. Then connect the red (positive+) lead from the power switch to the positive (+) terminal of the vehicles 12 volt battery. Connect the black (negative -) lead from the power switch to the negative (-) terminal of the battery. (Fig 1 & Fig 2 & Fig 3 & Fig 4)
- CAUTION** - Batteries contain gases which are flammable and explosive. Wear eye protection during installation and remove all jewelry. Do not lean over battery while making connections.
5. Assemble the Clevis Hook to the cable. Pull and turn the clutch knob to the Off position (Free-spooling). Pull out some cable from the drum. Take off the pin from the Clevis Hook, connect the Clevis Hook to the cable and mount the pin back to the Clevis Hook.
 6. Always use the Hand Saver when free-spooling and re-spooling the wire rope. (Fig 5) Using the Hand Saver will keep your hands and fingers away from the rotating drum.
 7. Check for proper drum rotation. Pull and turn the clutch knob to the off position (Free-spooling). Pull out some cable from the drum, and then turn the clutch knob to the In position to engage the gears. Press the cable out button on the power switch. If the drum is turning and releasing more cable then your connections are accurate. If the drum is turning and collecting more cable then reverse the leads on the motor. Repeat and check rotation.



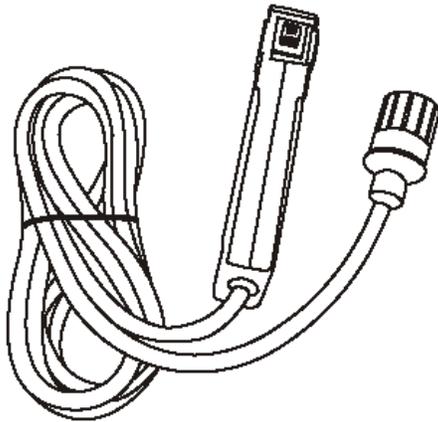
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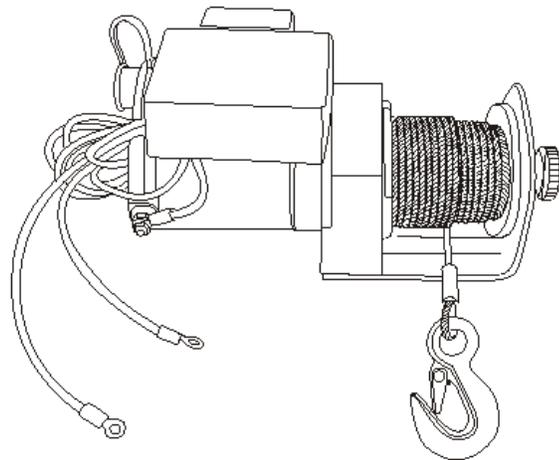
(Fig1)



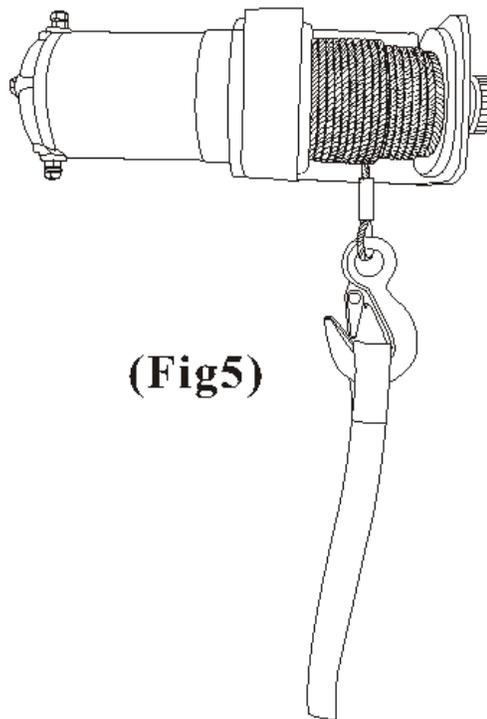
(Fig2)



(Fig3)



(Fig4)



(Fig5)

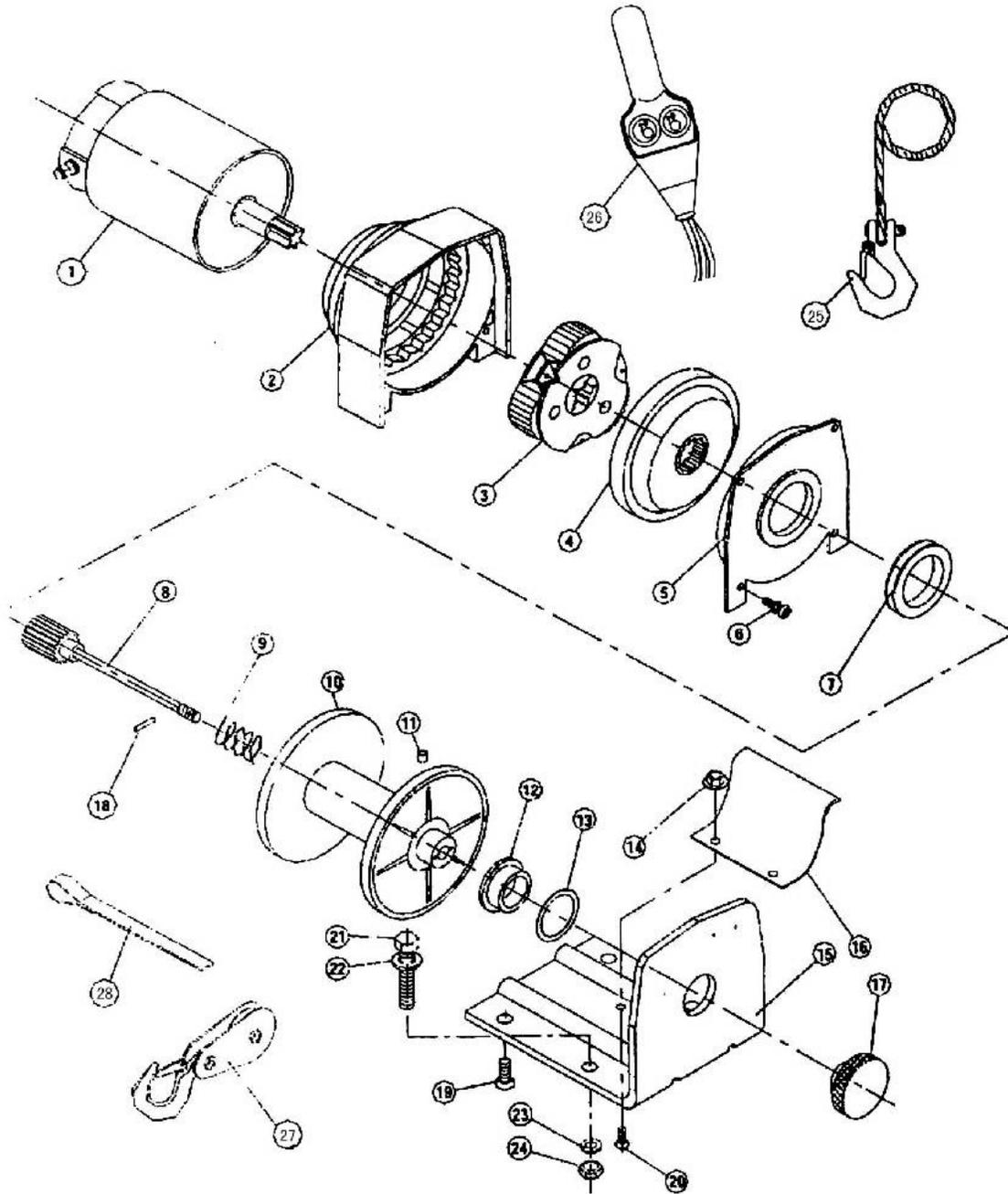
WINCH PARTS LIST

NO.	Part#	Qty.	Description
1	200100	1	Motor
2	200200	1	Stationary Gear Housing Assembly
3	200300	1	Gear Carrier Assembly
4	200001	1	T-Series Rotator Gear
5	200002	1	Drum Support Plata
6	200003	4	Spring Washer 4 & Pan Head Screw M4 12
7	200004	1	Drum Support Bushing
8	200400	1	Clutch Assembly
9	200005	1	Spring
10	200006	1	Drum Assembly
11	200007	1	Screw M5 5
12	200008	1	T-Series Bushing
13	200009	1-2	Thick Flat Washer
14	200010	2	Hex Flange Nut M5
15	200011	1	T-Series Base Plate Assembly
16	200012	1	Tension Plate
17	200500	1	T-Series F/W Knob Assembly
18	200013	1	Elastic Pin 2.5 14
19	200014	2	Cap Screw M6 16
20	200015	2	Screw M5 10
21	200016	2	Screw M8 30
22	200017	2	Flat Washer 8
23	200018	2	Lock Washer 8
24	200019	2	Nut M8
25	200700	1	Cable Assembly
26	200600	1	Switch Assembly
27	200800	1	Pulley Block
28	200900	1	Strap



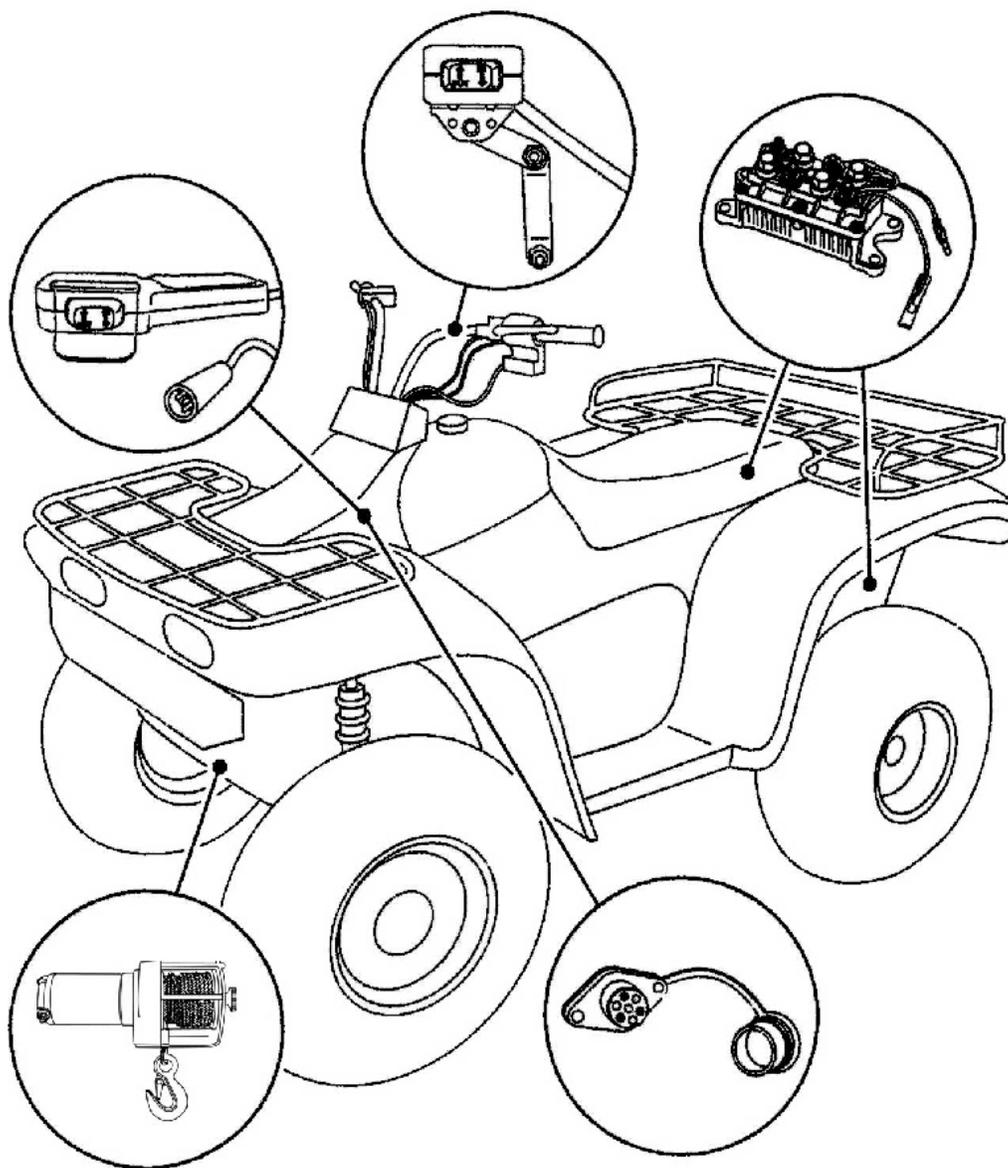
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Winch Assembly Drawing



Hand Bar Switch Assembly

When installing your ATV winch system, read and follow all mounting and safety instructions. Always use caution when working with electricity and remember to verify that no exposed electrical connections exist before energizing your winch circuit. To install the complete kit, you will need to mount the winch, contactor handlebar mounted mini-rocker switch and remote socket (optional on the 2.5ci winch). Mounting locations may vary depending on make and model of the ATV. Read and understand the following instructions to choose the appropriate mounting locations.



SAFETY PRECAUTIONS

WARNING - DO NOT EXCEED RATED CAPACITY.

WARNING - Intermittent use only.

WARNING - Do not use winch to lift or move people.

WARNING - A minimum of five wraps of cable around the drum barrel is necessary for pulling and holding the rated load. The cable clamp is not designed to hold the load without 5 wraps of cable around the barrel.

WARNING - Keep yourself and others a safe distance to the side of the cable when under tension.

WARNING - The wire rope may break before the motor stalls. For heavy loads at or near rated capacity, use a pulley block/snatch block to reduce the load on the wire rope.

WARNING - Never step over a cable, or near a cable under load.

WARNING – Do not move the vehicle to pull a load (towing) on the winch cable. This could result in cable breakage.

WARNING Disconnect the remote control and battery leads when not in use.

WARNING Do not exceed maximum pull rating. Avoid shock loads by using the control switch intermittently to take up the slack in the wire rope. Shock loads can far exceed the rate capacity for the wire rope and drum.

WARNING - Do not exceed maximum line pull ratings. Shown on the tables.

WARNING - When re - spooling the cable, ensure that the cable spools in the under - wind position with the cable entering the drum from the bottom, not the top. To re-spool correctly, and while wearing gloves, keep a slight load on the cable while pushing the remote button to draw in the cable. Walk toward the winch not allowing the cable to slide through your hands. Do not let your hands get within 12" of the winch while re-spooling. Turn off the winch and repeat the procedure until a few feet of cable is left. Disconnect the remote control and finish spooling by hand by rotating the drum by hand with the clutch disengaged. Keep hands clear of the fairlead and drum while the winch is under power. Do not use as a hoist. Do not use for overhead lifting. Failure to heed these warnings may result in personal injury and/or property damage.

CAUTION - Use gloves to protect hands when handling the cable. Never let the cable slide through your hands.

Apply blocks to the wheels of the vehicle when on an incline. No modifications, alterations, or deviation to the winch are authorized by the manufacturer and should not be made. Duration of winching pulls should be kept as short as possible. If the motor becomes uncomfortably hot to the touch, stop winching immediately and let it cool down for a few minutes. Do not pull for more than one minute at or near the rated load.

CAUTION – If the motor stalls do not maintain power to the winch. Electric winches are designed and made of intermittent use and should not be used in constant duty applications.

CAUTION- Never release the free-spool clutch when there is a load on the winch.

CAUTION - Use hand saver hook when handling the hook for spooling or un-spooling the wire rope.

GENERAL TIPS FOR SAFE OPERATION

The ATV3000 is rated at 3,000 lbs. capacity 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. This will aid in two ways, a) reduce the number of rope layers on the drum, as well as, b) 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.

Get to know your winch before you actually need to use it. 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. Use only manufacturer's identical replacement rope with the exact specifications.

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 as shown in the illustrations.

Store the remote control inside your vehicle in a place that it will not be damaged.

Any winch that appears to be damaged in any way, is found to be worn, or operates abnormally SHALL BE REMOVED FROM SERVICE UNTIL REPAIRED. It is recommended that the necessary repairs be made by a manufacturer's authorized repair facility.



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Pull only on areas of the vehicle as specified by the vehicle manufacturer.

Only attachments and/or adapters supplied by the manufacturer shall be used.

RIGGING TECHNIQUES

Self-Recovery

Locate a suitable anchor such as a strong tree trunk or boulder.

Always use a sling as an anchor point.

CAUTION

Do not attach the clevis hook back onto cable as this could cause damage to the cable. As shown in Fig 3.1



Fig. 3.1

Do not winch from an acute angle as the wire rope will pole up on one side of the drum causing damage to wire rope and the winch. Fig 3.2

Short pulls from an angle can be used to straighten the vehicle. Long pulls should be done with the wire rope at a 90° angle to the winch/vehicle.

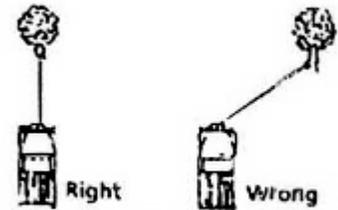


Fig. 3.2

When pulling a heavy load, place a blanket or jacket over the wire rope five or six feet from the hook. In the event of a broken cable it will dampen the snap back. For additional protection open the hood of the vehicle as shown in Fig 3.3

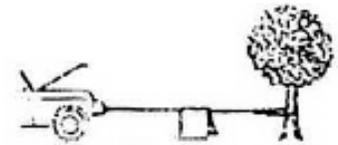


Fig. 3.3

For pulls over 1,000 lbs. we recommend the use of the snatch block/pulley block to double line the wire rope. Fig 3.4 This reduces the load on the winch and the strain on the rope by approximately 50%.

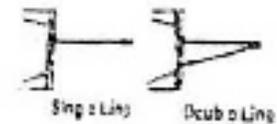


Fig. 3.4

WARNING – Never use your winch for overhead hoisting or for lifting people or moving people.



Fig. 3.5

INCHING TECHNIQUES A-Z

- a.** Take time to assess your situation and plan your pull.
- b.** Put on gloves to protect your hands.
- c.** Disengage the clutch to allow free - spooling and also save battery power.
- d.** Attach the hand saver hook to the clevis hook.
- e.** Pull out the wire rope to your desired anchor point using the hand saver hook.
- f.** Secure the clevis hook to the anchor point sling, chain or snatch block. Do not attach the hook back onto the wire rope.
- g.** Engage the clutch.
- h.** Connect the remote control to the winch.
- i.** Start your engine to ensure power is being replenished to the battery.
- j.** Power in the wire rope guiding the wire under tension to draw up the slack in the wire. Once the wire is under tension stand well clear. Never step over the wire rope.
- k.** Double check your anchors and make sure all connections are secure.
- l.** Inspect the wire rope. Make sure there are at least 5 wraps of wire rope around the winch drum.
- m.** Drape a blanket or jacket over the wire rope approximately 5 to 6 feet from the hook. Open the hood for added protection.
- n.** Clear the area. Make sure all spectators are well back and that no one is directly in front or behind the vehicle or anchor point.
- o.** Begin winching. Be sure that the wire rope is winding evenly and tightly around the drum. The vehicle that is being winched can be slowly driven to add assistance to the winching process. Avoid shock loads; keep the wire rope under tension.
- p.** The vehicle to be winched should be placed in neutral and the emergency brake released. Only release the brake pedal when under full tension. Avoid shock loads to the winch. This can damage the winch, rope and vehicle.
- q.** The winch is meant for intermittent use. Under full load with a single line rig do not power in for more than a minute without letting the motor cool down for a few minutes and then resume the winching operation.
- r.** The winching operation is complete once the vehicle is on stable ground and is able to drive under its own power.
- s.** Secure the vehicle. Be sure to set the brakes and place the vehicle in park.
- t.** Release the tension on the wire rope. The winch is not meant to hold the vehicle for long periods of time.
- u.** Disconnect the wire rope from the anchor.
- v.** Rewind the wire rope. Make sure that any wire already on the drum has spooled tightly and neatly. If not, draw out the wire and re-spool from the point where the rope is tight.
- w.** Keep your hands clear of the winch drum and fairlead as the wire rope is being drawn in.
- x.** Secure the hook and hook strap.
- y.** Disconnect the remote control and store in a clean, dry place.
- z.** Clean and inspect connections and mounting hardware for next winching operation.



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MAINTENANCE

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

REPLACING THE WIRE ROPE

1. If the wire rope has become worn or is beginning to show signs of strands breaking it must be replaced before being used again. To do this, remove the defective rope by free spooling. Remove the M5 x 5mm bolt on the drum and release the rope.
2. Insert the end of new rope and secure the M5 x 5mm bolt tightly.
3. Engage the clutch and re-spool the new rope on the drum keeping tension on the rope as it spools. Ensure that the rope is re-spooling in the under wind position.

WARNING - Only replace the wire rope with the identical replacement part recommended by the manufacturer.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SUGGESTED ACTION
Motor does not turn on	<ul style="list-style-type: none">-Switch Assembly not connected properly-Loose battery cable connections-Solenoid malfunctioning-Defective Switch Assembly-Defective motor-Water has entered motor	<ul style="list-style-type: none">-Insert Switch Assembly all the way into the connector.-Tighten nuts on all cable connections.-Tap solenoid to loosen contacts. Apply 12volts 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	<ul style="list-style-type: none">-Cam Ring (clutch) not engaged	<ul style="list-style-type: none">-Move Cam Ring to the in position. If problem persists, a qualified technician needs to check and repair.
Motor runs slowly or without normal power	<ul style="list-style-type: none">-Insufficient current or voltage	<ul style="list-style-type: none">-Battery weak, recharge. Run winch with vehicle motor running.-Loose or corroded battery cable connections. Clean, tighten, or replace
Motor overheating	<ul style="list-style-type: none">-Winch running time too long	<ul style="list-style-type: none">-Allow winch to cool down periodically.
Motor runs in one direction only	<ul style="list-style-type: none">-Defective or stuck Solenoid-Defective Switch Assembly	<ul style="list-style-type: none">-Tap solenoid to loosen contacts.-Repair or replace solenoid.-Replace Switch Assembly



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