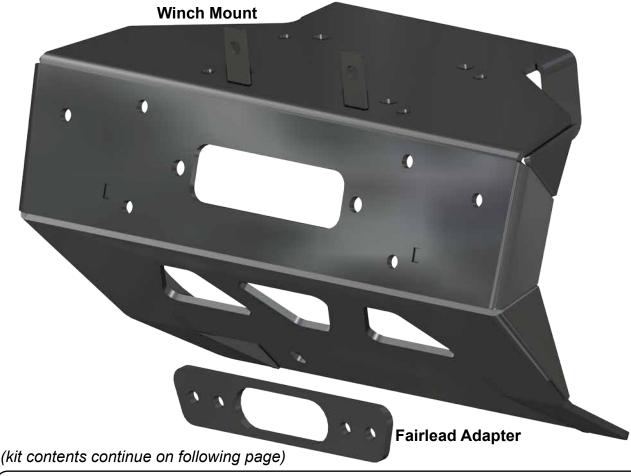


INSTALLATION INSTRUCTIONS

Winch Mount: for Can-Am Maverick Trail



Liability Statement

SuperATV's® products are designed to best fit user's ATV/UTV under stock conditions. Adding, modifying, or fabricating any factory or aftermarket parts will void any warranty provided by SuperATV® and is not recommended. SuperATV's® products could interfere with other aftermarket accessories. If user has aftermarket products on machine, contact SuperATV® to verify that they will work together.

Although SuperATV® has thousands of satisfied customers, user should be aware that installing lift kits, long travel, or suspension kits, tires, etc. will change the ride of machine and may increase maintenance and part wear. Operating any off-road machine while, or after, consuming alcohol and/or drugs increases risk of bodily harm or death. No warranty or representation is made as to this product's ability to protect user from severe injury or death. SuperATV® urges operators and occupants to wear a helmet and

By purchasing and installing SuperATV® products, user agrees that should damages occur, SuperATV® will not be held responsible for loss of time, use, labor fees, replacement parts, or freight charges. SuperATV®, nor any 3rd party, will not be held responsible for any direct, incidental, special, or consequential damages that result from any product purchased from SuperATV®. The total liability of seller to user for all damages, losses, and causes of action, if any, shall not exceed the total purchase price paid for the product that gave rise to the claim.

SuperATV® will warranty only parts provided by SuperATV®. Any damage or problems with OEM housings, bearings, seals, or other manufacturers' products will not be covered by SuperATV®. SuperATV® parts and products are not warrantied if item was not installed properly, misused, or modified.

Installing, adding, modifying, or fabricating any factory or aftermarket product to your ATV/UTV may violate certain local, state, and federal laws. Be advised that laws vary depending on town, city, county, state, etc. Use of certain products on public streets, roads, or highways may be in violation law. The Buyer is solely and exclusively legally and personally responsible for any violation of the law by the installation or use of the product. You must abide by all local, state, and federal laws, including but not limited to vehicle safety, traffic laws, and ordinances. It is your responsibility to know the laws and how they apply to you.

The Buyer is responsible to fully understand the capability and limitations of his/her vehicle according to manufacturer specifications, warnings and instructions and agrees to hold SuperATV® harmless from any damage resulting from failure to adhere to such specifications, warnings and/ or instructions. The Buyer is also responsible to obey all applicable federal, state, and local laws and ordinances when operating his/her vehicle while using this product, and the Buyer agrees to hold SuperATV® harmless from any violation thereof.

Need help with your installation?



sales@superatv.com



www.superatv.com



1-855-743-3427



8:00am - 9:00pm EST M-Th 8:00am - 7:00pm EST Friday

9:00am - 2:00pm EST Saturday

Read instructions and view illustrations before beginning.

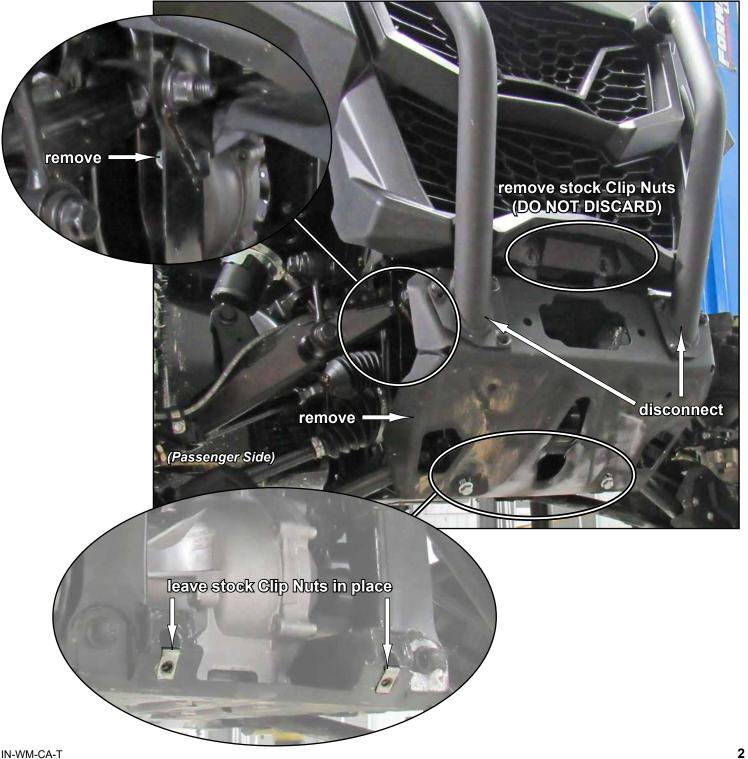


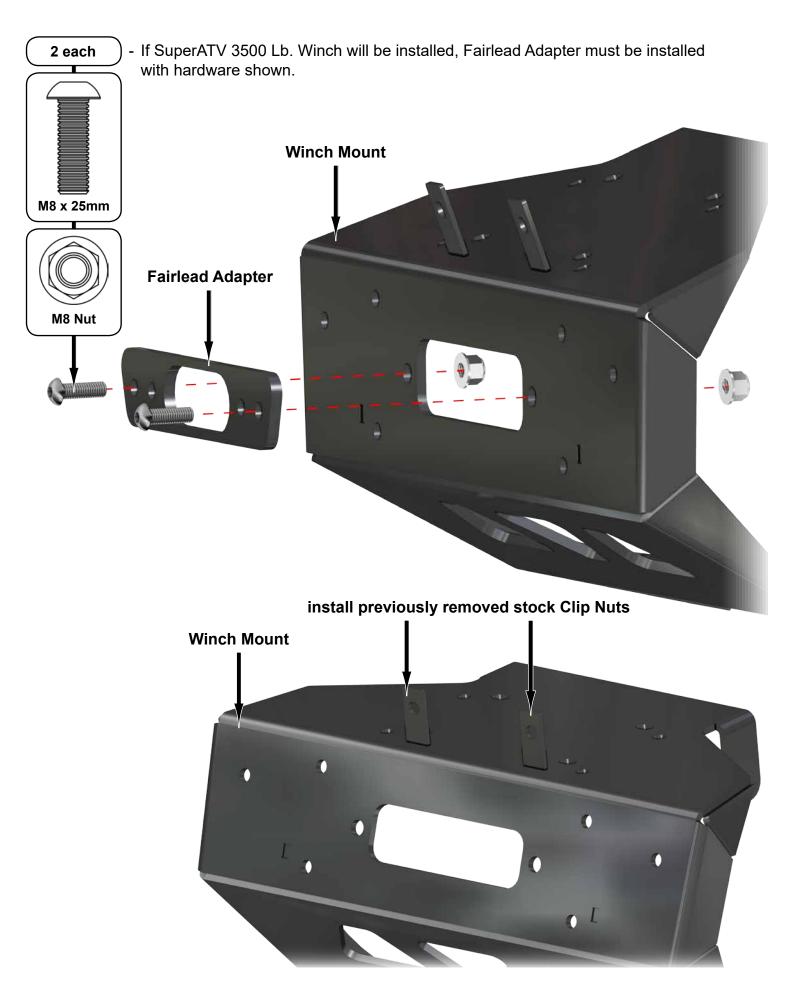




M8-1.25 x 30mm Lg. FHCS

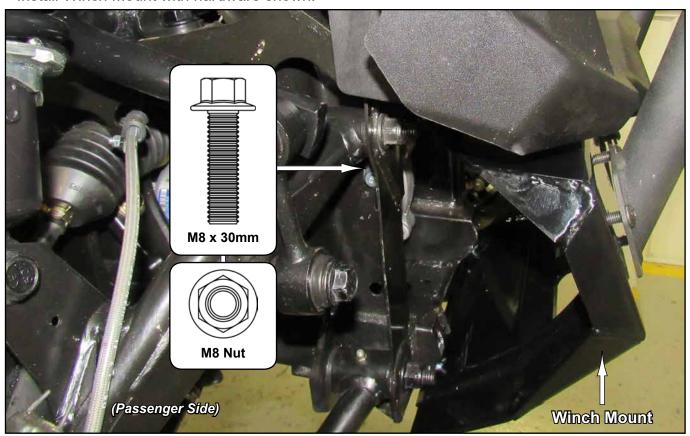
disregard any remaining hardware



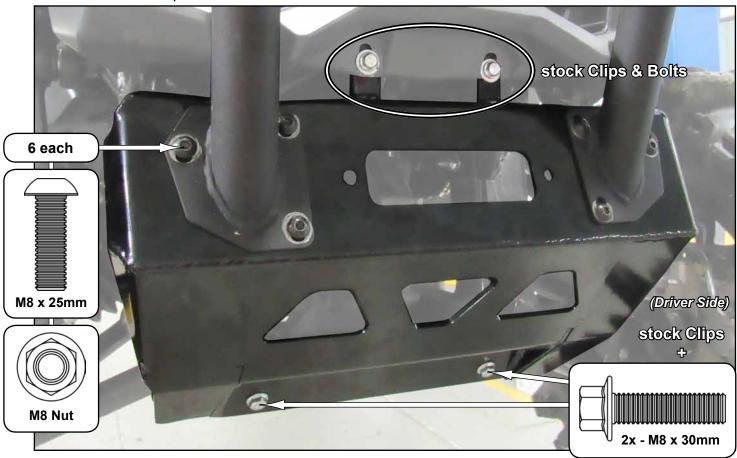


Winch is not shown for clarity only.

- Install Winch Mount with hardware shown.



- Secure stock components to Winch Mount with hardware shown.



- Install Fairlead, included with Winch, to Winch Mount; hardware included with Winch.



OPERATING MANUAL 5000 lbs. Winch







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RECOMMENDED WINCH ACCESSORIES (not included):

Gloves: Protect hands when handling Synthetic Rope.

Anchor Strap/Chain: 5,000 lbs. - 10,000 lbs. high tensile strength strap. **Blanket:** Place on Synthetic Rope to absorb energy in event of a failure.

INTRODUCTION:

Congratulations on your purchase of a high quality winch designed and built to strict specifications. Proper use and maintenance will ensure years of reliable, satisfying service.



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

A winch can develop tremendous pulling forces. If winch is used improperly, or in an unsafe manner, personal injury, death, and/or property damage can occur. Throughout this operating manual CAUTION, WARNING, and DANGER symbols are present. Pay particular attention to notes preceded by these symbols as they are written for your safety. User is responsible for safe operation of this device.



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



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

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GETTING TO KNOW YOUR WINCH:

A winch is a powerful piece of machinery. For safe and confident operation, it is important to understand basic winch operations and specifications. See below for details on winch components and usage. Practice using winch before an actual situation occurs.

Winch has been engineered with several patented technologies.

Motor: Motor is powered by a 12 volt battery. Motor provides power to Mechanic Gear Mechanism which turns Winch Drum and winds Synthetic Rope.

Winch Drum: Cylinder on which Synthetic Rope is stored. Winch Drum feeds or winds Synthetic Rope depending on Winch switch direction.

Synthetic Rope: Ø6/25" x 49.2' long Synthetic Rope designed specifically for a load capacity of 5000lbs. and is looped at end to accept clevis hook pin. Synthetic Rope feeds onto Winch Drum through Fairlead when in "under wind" position.

Fairlead: When operating Winch at an angle, Fairlead guides Synthetic Rope onto Winch Drum and minimizes damage/abrasion from winch mount or bumper.

Mechanic Gear System: Converts Motor power into extreme pulling forces.

Braking System: Braking action is automatically applied to Winch Drum when Motor is stopped and there is load on Synthetic Rope. A separate mechanical brake applies braking action.

Control System: Winch can be controlled by using Power Cord/Switch Assembly or through Remote Control.

Free Spooling Clutch: Allows user to manually disengage ("CLUTCH OUT") Winch Drum from Mechanic Gear System; free spool. Engaging clutch ("CLUTCH IN") locks Winch into Mechanic Gear System.

Solenoid: Power from vehicle battery flows through a weather-sealed switch before being directed to Motor.

Rocker Switch: Power switch leads have a dual switch for powering in or powering out Winch Drum. Rocker switch allows user to stand clear of Synthetic Rope when Winch is under load.

Wireless Remote Control: Allows user to operate Winch from 50' away.

Mounting Plate: Plate that can mount to most flat surfaces such as trailers, step bumpers, truck beds, etc. Fairlead mounting holes included.

Pulley/Snatch Block (not included): Doubles pulling power of Winch or changes pulling direction without damaging Synthetic Rope. When pulling over 70% of rated line pull, it is recommended to use double line and snatch block.

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WINCH ASSEMBLY AND MOUNTING:

Winch is designed with a standard bolt pattern for its class. Different mounting kits are available that utilize this pattern.

If installing supplied Mounting Plate, install to a flat surface so Motor, Winch Drum, and Gear Housing are properly aligned. Proper alignment allows for even distribution of full rated loads.

Universal mounting plate shown. Machine specific mounting plates are available at www.SuperATV.com

- 1. Install supplied Fairlead to supplied Mounting Plate with (2) each M8 x 20mm Lg. HHCS, M8 Flat Washers, M8 Lock Washers, and M8 Nuts.
- 2. Install Winch to Mounting Plate:
- Set Free Spooling Clutch to "CLUTCH OUT" and pull out a few inches of Synthetic Rope.
- Feed Synthetic Rope through opening in front of Mounting Plate and through Fairlead.

Use hardware shown when installing Mounting Plate to Winch.



3. Make electrical and component connections. Illustrations on following page.

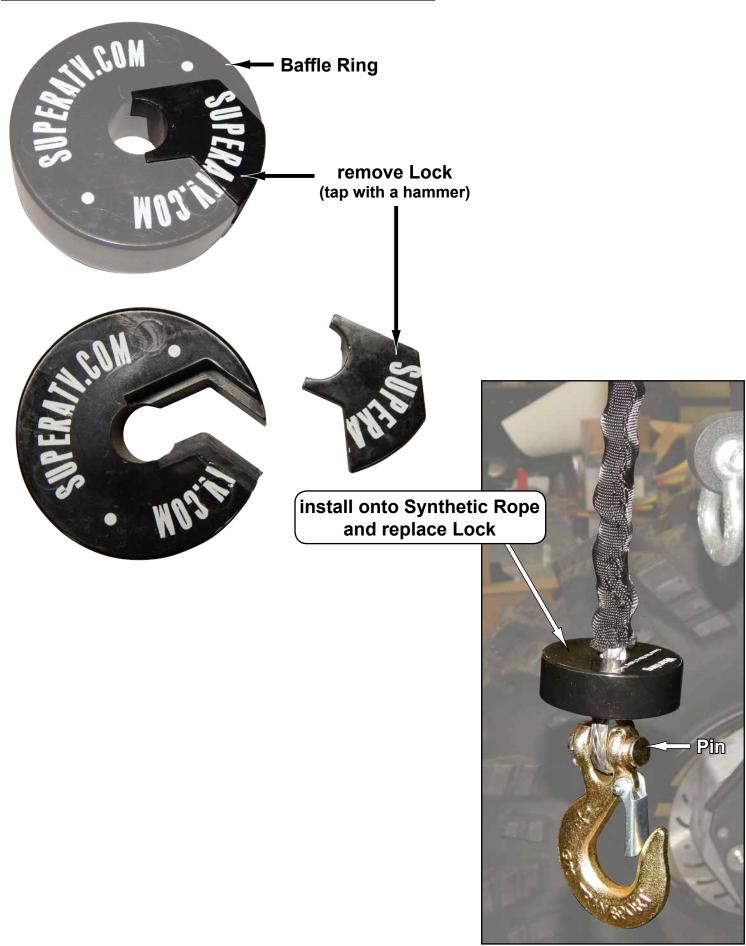


! CAUTION - Remove all jewelry and wear eye protection when making battery connections. Batteries contain flammable and explosive gases. Avoid leaning over battery.

- 4. Assemble Clevis Hook to Synthetic Rope: See following page.
- Remove Pin from Clevis Hook and connect Clevis Hook to Synthetic Rope.
- Reinstall Pin to Clevis Hook.
- 5. Install Hand Strap to Clevis Hook. See following page.
- 6. Install Baffle Ring to Synthetic Rope. See following page.
- 6. Check Winch Drum for proper rotation:
- Set Free Spooling Clutch to "CLUTCH OUT" and pull out some Synthetic Rope.
- Set Free Spooling Clutch to "CLUTCH IN" and press "OUT" button on Rocker switch. If properly installed, Winch Drum should be turning and releasing Synthetic Rope. If Winch Drum is turning and *collecting* more Synthetic Rope, reverse leads on Motor. Repeat and check rotation.

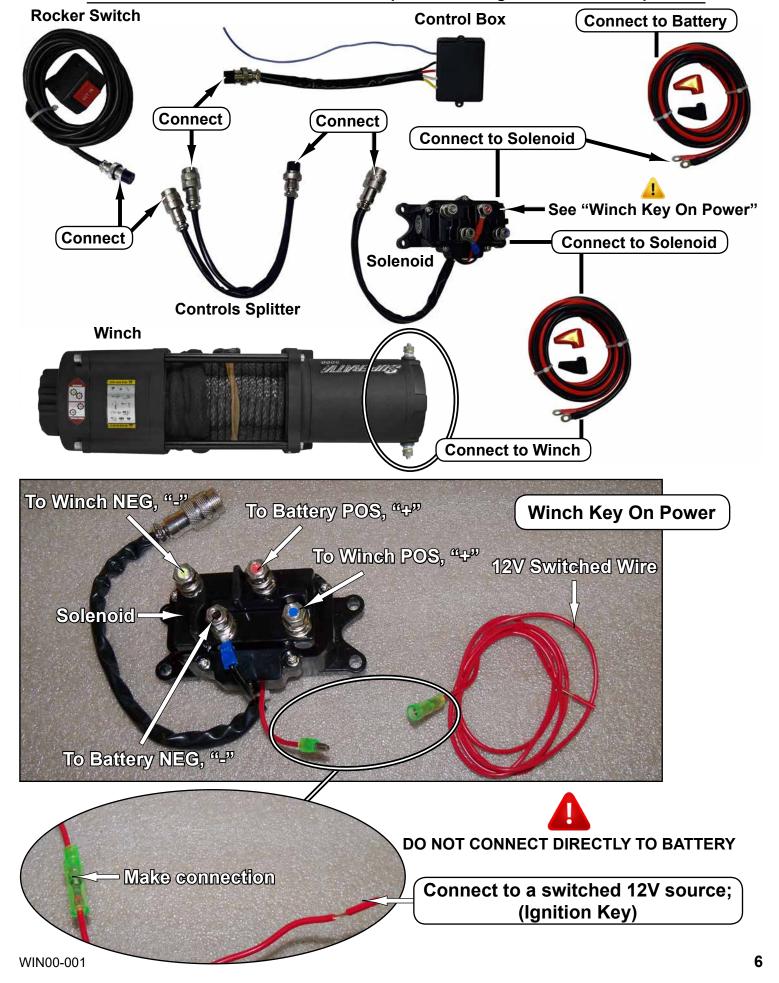
WIN00-001 4

WINCH ASSEMBLY AND MOUNTING (continued):



WIN00-001 5

WINCH WIRING: ensure no wires are pinched during installation and operation



SAFETY PRECAUTIONS:

Failure to heed these warnings and cautions may result in personal injury and/or property damage.



WARNING - Do not exceed rated capacity shown in following table.

Layer	Rated Line Pull lbs (kgs)	Total Rope On Drum ft (m)
1	5000 (2268)	12.2 (3.7)
2	3841 (1742)	26.2 (8.0)
3	3310 (1501)	41.9 (12.8)
4	2907 (1319)	49.2 (15.)

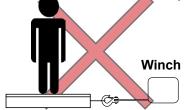


NARNING - Do not use Winch to lift vertically or as a hoist.





NARNING - Do not use Winch to pull or move people in any way.





WARNING - Never cut, weld, or modify any part of Winch or Synthetic Rope.



WARNING - A minimum of (5) wraps of Synthetic Rope around Winch Drum is necessary for pulling and holding rated load.



WARNING - Keep yourself and others a safe distance and to a side when Synthetic Rope is under tension.



WARNING - Synthetic Rope may break before Motor stalls. For heavy loads at or near rated capacity, use a pulley block/snatch block to reduce load on Synthetic Rope.



WARNING - When under load, never step over or go near Synthetic Rope.



WARNING - Don't move vehicle to pull a load (towing) on Synthetic Rope. This can result in Synthetic Rope breakage.

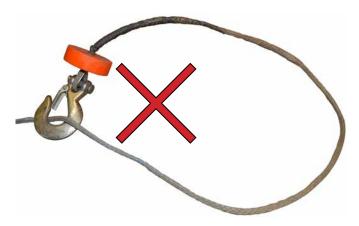


MARNING - Avoid "shock loads" by using control switch intermittently to take up slack in Synthetic Rope. "Shock loads" can exceed rated capacity for Synthetic Rope and Winch Drum.

SAFETY PRECAUTIONS (continued):



WARNING - Never connect Synthetic Rope back onto itself.



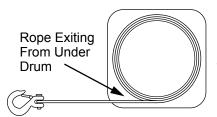


CAUTION - Use Hand Strap when handling Clevis Hook. Use gloves to protect hands when handling Synthetic Rope. Never let Synthetic Rope slide through bare hands.





WARNING - When re-spooling, ensure that Synthetic Rope spools in "under wind" position with Synthetic Rope entering Winch Drum from bottom, not top. To spool correctly, keep a slight load on Synthetic Rope while pushing remote button to draw in Synthetic Rope. Walk toward Winch while not allowing Synthetic Rope to slide through hands. Do not let hands get within 12" of Winch while re-spooling. Turn off Winch and repeat procedure until only a few feet of Synthetic Rope remain. Disconnect Remote Control and finish spooling by hand; rotate Winch Drum by hand with Clutch disengaged. Keep hands clear of Fairlead and Winch Drum while Winch is under power.



Side cutaway view of Winch

SAFETY PRECAUTIONS (continued):



WARNING - Apply blocks to wheels of vehicle when on an incline.



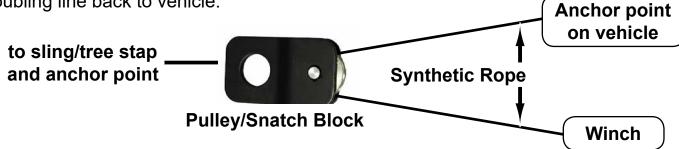
CAUTION - If Motor stalls, stop winching immediately. Electric winches are designed for intermittent use. Do not use in constant duty applications. Keep duration of winching pulls as short as possible: Do not use for more than (1) minute when at or near rated load. If Motor becomes hot to touch, stop winching immediately. Allow Motor to cool before resuming.



L CAUTION - Never disengage Free Spooling Clutch when a load is on Winch.

GENERAL TIPS FOR SAFE OPERATION:

Winch is rated at 5,000 lbs capacity when spooling first Synthetic Rope layer onto Winch Drum. Overloading can damage components. For loads over 70% of rated line pull, it is recommend to use a pulley block/snatch block to double rope line. When doubling line, number of layers on Winch Drum is reduced and load on Synthetic Rope is reduced by as much as 50%. Attach to frame or other load bearing component when doubling line back to vehicle.



- To minimize battery drain and maximize power and speed of Winch, keep vehicle engine running during winching. Battery may be drained if winch is used for a considerable amount of time with engine off.
- Know all features before actual use. Become familiar with rigging techniques, sounds made under various loads, way Synthetic Rope spools onto Winch Drum, etc. by performing several test runs.
- Inspect all components, hardware, and electrical connections before each use. If Synthetic Rope is frayed or damaged, replace immediately. Use only manufacturers replacement rope. Replace or remove any component that appears to be damaged, worn, or operating abnormally.
- Never connect Synthetic Rope back onto itself. Always use a snatch block, sling, or chain of suitable strength.
- Pull only on parts of vehicle as specified by vehicle manufacturer.
- Use only attachments and/or adapters supplied by manufacturer.
- Test run Winch in (2) directions before winching. WIN00-001

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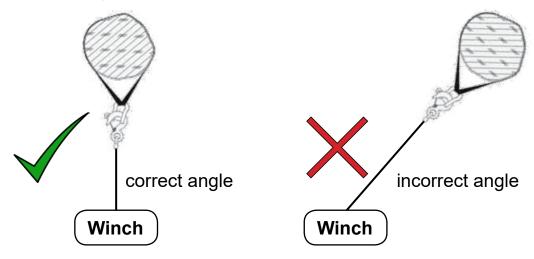
RIGGING TECHNIQUES:

Locate a suitable anchor such as a strong tree trunk or boulder. Always use a sling/tree strap as an anchor point.

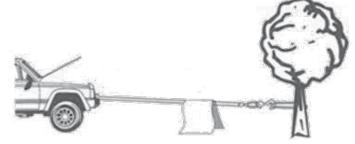
Do not winch from an acute angle. Synthetic Rope will pile up on one side of Winch Drum causing damage to Synthetic Rope and Winch.

sling/tree strap

Short pulls from an angle can be used to straighten vehicle. Long pulls must be done with Synthetic Rope at a 90° angle to winch/vehicle.



To absorb energy in event of Synthetic Rope failure, place a blanket or jacket over Synthetic Rope approximately 5ft - 6ft from Clevis Hook before pulling a heavy load. Open vehicle hood for more protection.



WIN00-001 **10**

OPERATING WINCH:

- 1. Take time to assess situation and thoroughly plan pull.
- 2. Set Free Spooling Clutch to "CLUTCH OUT" position.
- 3. Pull Synthetic Rope and attach to vehicle to be winched. Wear gloves and use Hand Strap.



! CAUTION - Always leave minimum of (5) turns of Synthetic Rope on Winch Drum. Review "Safety Warnings" section of manual before continuing.

- 4. Secure Clevis Hook to anchor point: Sling, chain or snatch block. Do not attach Clevis Hook back onto Synthetic Rope.
- 5. Set Free Spooling Clutch to "CLUTCH IN" position.
- 6. Start vehicle engine so that battery is being charged while winching.
- 7. Slowly winch in Synthetic Rope just enough to take up slack.
- 8. Inspect Synthetic Rope. Make sure there are minimum 5 wraps of Synthetic Rope around Winch Drum.
- 9. To absorb energy in event of Synthetic Rope failure, place a blanket or jacket over Synthetic Rope approximately 5ft - 6ft from Clevis Hook. Open vehicle hood for more protection.
- 10. Clear area. Make sure all spectators are away and that no one is directly in front, behind vehicle, or anchor point.
- 11. Vehicle to be winched should be placed in neutral and emergency brake released. Only release brake pedal when Synthetic Rope is under full tension.
- 12. While standing aside and clear of tow path, use Rocker Switch or Wireless Remote Control to control winching. If required, wait until Motor stops before reversing direction.
- Be sure Synthetic Rope is winding evenly and tightly around Winch Drum.
- Vehicle being winched can be slowly driven to add assistance to winching.
- Avoid shock loads; keep Synthetic Rope under tension. This can damage components and vehicles.
- 13. Winch is meant for intermittent use. Under full load with a single line rig do not power "in" for more than (1) minute without letting Motor cool down for a few minutes before resuming winching.
- 14. Once vehicle is on stable ground, set brakes and place vehicle in park. Winching operation is complete.
- 15. Set Free Spooling Clutch to "CLUTCH OUT" to release tension on Synthetic Rope. Winch is not meant to hold loads for long periods of time.
- 16. Disconnect Synthetic Rope from vehicle or anchor.
- 18. Set Free Spooling Clutch to "CLUTCH IN" position and rewind Synthetic Rope. **Keep** hands clear of Winch Drum and components. Any material already on Winch Drum should be spooled tightly and neatly. Draw out and re-spool if necessary.

19. Secure Hook Strap and Clevis Hook.

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TROUBLE SHOOTING:

1KOODEL 01100111KO			
SYMPTOM	POSSIBLE CAUSE	SUGGESTED ACTION	
	Rocker Switch not connected properly.	Insert Rocker Switch completely into Controls Splitter.	
	Loose battery cable connections.	Tighten nuts on all cable connections.	
Motor does not	Defective Rocker switch.	Replace.	
turn on	Defective Motor.	Check for voltage at armature port with Rocker switch pressed. If voltage is present, replace Motor.	
	Water has entered Motor.	Allow water to drain and Winch to dry Without a load	
	Solenoid sticking.	Tap on Solenoid with handle end of screwdriver.	
Motor runs but Winch Drum does not turn.	Free Spooling Clutch not engaged.	Set Free Spooling Clutch to "CLUTCH IN" position. If problem persist, contact SuperATV.	
Motor runs slowly or without normal	Insufficient current or	Battery is weak and may need charging. Always operate Winch with vehicle running.	
power.	voltage.	Corroded and/or loose battery cables should be cleaned and tightened	
Motor overheating.	Winch run time too long.	Periodically allow Winch to cool while operating.	
Motor runs in one	Defective Rocker Switch / Remote Control.	Repair or replace Rocker Switch /Remote Control.	
direction only.	Loose battery cable connections.	Corroded and/or loose battery or Motor cable connections should be cleaned and tightened.	

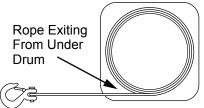
SYNTHETIC ROPE REPLACEMENT:

If Synthetic Rope has become worn or is beginning to show signs of breaking, replace immediately.



WARNING - Only replace with identical part number from manufacturer.

- 1. Set Free Spooling Clutch to "CLUTCH OUT" position.
- 2. Extend installed rope to its full length. Note how it is connected to Winch Drum.
- 3. Remove and install replacement to Winch Drum in same fashion.
- 4. Ensure that newly installed Synthetic Rope wraps in same direction as replacement. Synthetic Rope should leave Winch Drum from bottom.



Side cutaway view of Winch

- 5. Set Free Spooling Clutch to "CLUTCH IN" position and retract Synthetic Rope onto Winch Drum for (5) wraps; **DO NOT ALLOW KINKING**.
- Continue winding onto Winch Drum under a load of at least 10% rated line pull.

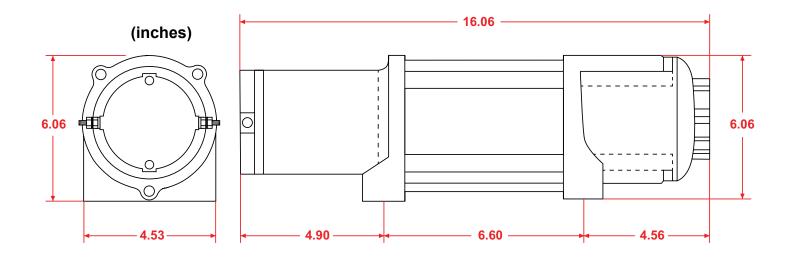
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MAINTENANCE:

- Check tightness of all mounting hardware and electrical connections periodically.
- Keep Winch clean. Remove all dirt and corrosion as required.
- Do not disassemble Mechanic Gear System. High temperature lithium grease has been applied at the factory. No user maintenance is required.

SPECIFICATIONS:

Rated Line Pull	5000 lbs (2268 kgs)
Motor: Permanent Magnet	12V: Input: 2.4kW / 3.2hp; Output: 1.3kW / 1.7hp
Gear Reduction Ratio	166:1
Synthetic Rope (Diameter x Length)	Ø6/25" x 49.2' (Ø6mm x 15.0m)
Net Weight	34.2 lbs (15.5 kgs)



PULL, SPEED, AMPERES, VOLTS (FIRST LAYER):

Line Pull	Line Cheed ft/min (m/min)	Current
lbs (kgs)	Line Speed ft/min (m/min)	12V DC
0	12.8 (3.9)	25
1000 (454)	9.8 (3.0)	75
2000 (907)	8.5 (2.6)	100
3000 (1361)	6.9 (2.1)	150
5000 (2268)	5.9 (1.8)	185

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OPERATING MANUAL

EWP3500A Winch







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Free Spooling Clutch: Allows user to manually disengage ("CLUTCH OUT") Winch Drum from Mechanic Gear System; free spool. Engaging clutch ("CLUTCH IN") locks Winch into Mechanic Gear System.

Solenoid: Power from vehicle battery flows through a weather-sealed switch before being directed to Motor.

Rocker Switch: Power switch leads have a dual switch for powering in or powering out Winch Drum. Rocker Switch allows user to stand clear of Synthetic Rope when Winch is under load.

Wireless Remote Control: Allows user to operate Winch from 50' away.

Mounting Plate: Plate that can mount to most flat surfaces such as trailers, step bumpers, truck beds, etc. Fairlead mounting holes included.

Pulley/Snatch Block (not included): Doubles pulling power of Winch or changes pulling direction without damaging Synthetic Rope. When pulling over 70% of rated line pull, it is recommended to use double line and snatch block.

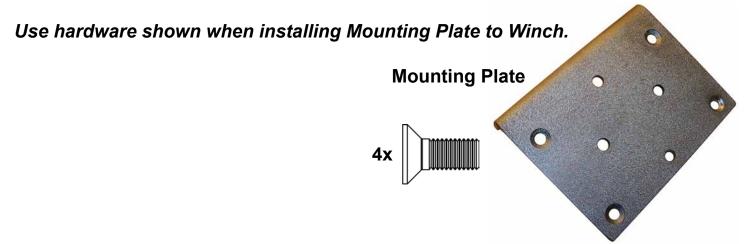
WINCH ASSEMBLY AND MOUNTING:

Winch is designed with a standard bolt pattern for its class. Different mounting kits are available that utilize this pattern.

If installing supplied Mounting Plate, install to a flat surface so Motor, Winch Drum, and Gear Housing are properly aligned. Proper alignment allows for even distribution of full rated loads.

Universal mounting plate shown. Machine specific mounting plates are available at www.SuperATV.com

- 1. Install supplied Fairlead to supplied Mounting Plate with (2) each M8 x 20mm Lg. HHCS, M8 Flat Washers, M8 Lock Washers, and M8 Nuts.
- 2. Install Winch to Mounting Plate:
- Set Free Spooling Clutch to "CLUTCH OUT" and pull out a few inches of Synthetic Rope.
- Feed Synthetic Rope through opening in front of Mounting Plate and through Fairlead.

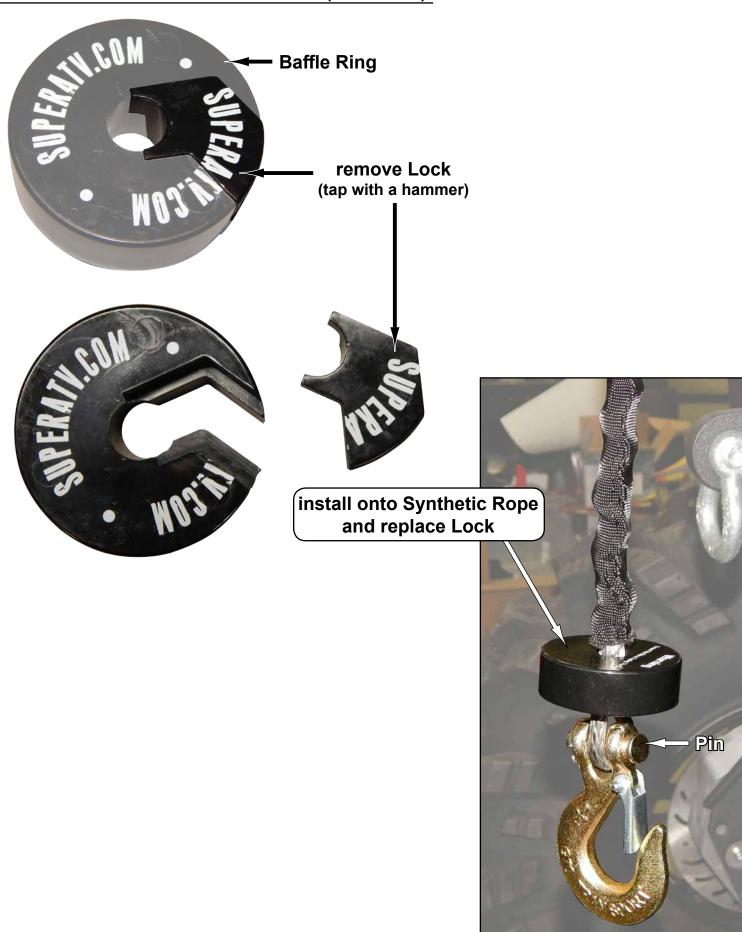


3. Make electrical and component connections. Illustrations on following page.

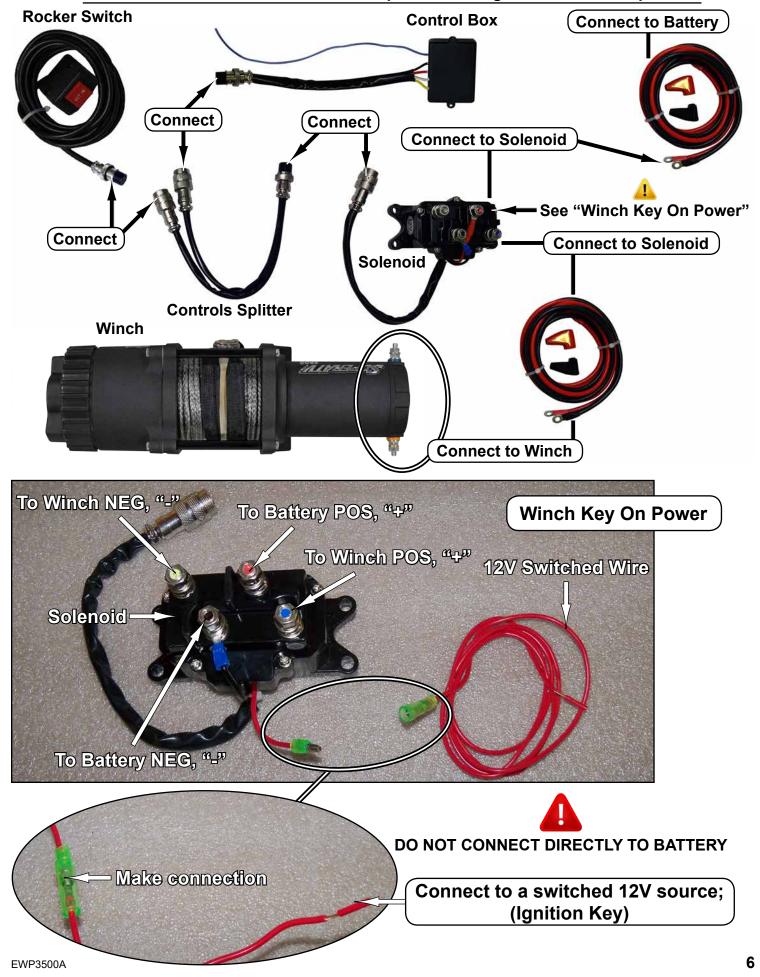


- **I** CAUTION Remove all jewelry and wear eye protection when making battery connections. Batteries contain flammable and explosive gases. Avoid leaning over battery.
- 4. Assemble Clevis Hook to Synthetic Rope: See following page.
- Remove Pin from Clevis Hook and connect Clevis Hook to Synthetic Rope.
- Reinstall Pin to Clevis Hook.
- 5. Install Hand Strap to Clevis Hook. See following page.
- 6. Install Baffle Ring to Synthetic Rope. See following page.
- 6. Check Winch Drum for proper rotation:
- Set Free Spooling Clutch to "CLUTCH OUT" and pull out some Synthetic Rope.
- Set Free Spooling Clutch to "CLUTCH IN" and press "OUT" button on Rocker Switch. If properly installed, Winch Drum should be turning and releasing Synthetic Rope. If Winch Drum is turning and *collecting* more Synthetic Rope, reverse leads on Motor. Repeat and check rotation.

WINCH ASSEMBLY AND MOUNTING (continued):



WINCH WIRING: ensure no wires are pinched during installation and operation



SAFETY PRECAUTIONS:

Failure to heed these warnings and cautions may result in personal injury and/or property damage.



WARNING - Do not exceed rated capacity shown in following table.

Layer	Rated Line Pull lbs (kgs)	Total Rope On Drum ft (m)
1	3500 (1588)	5.9 (1.8)
2	2789 (1265)	13.5 (4.1)
3	2319 (1052)	22.0 (6.7)
4	1984 (900)	31.2 (9.5)
5	1733 (786)	42.0 (12.8)

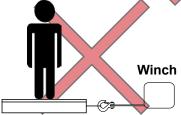


NARNING - Do not use Winch to lift vertically or as a hoist.





MARNING - Do not use Winch to pull or move people in any way.





WARNING - Never cut, weld, or modify any part of Winch or Synthetic Rope.



WARNING - A minimum of (5) wraps of Synthetic Rope around Winch Drum is necessary for pulling and holding rated load.



WARNING - Keep yourself and others a safe distance and to a side when Synthetic Rope is under tension.



WARNING - Synthetic Rope may break before Motor stalls. For heavy loads at or near rated capacity, use a pulley block/snatch block to reduce load on Synthetic Rope.



WARNING - When under load, never step over or go near Synthetic Rope.



WARNING - Don't move vehicle to pull a load (towing) on Synthetic Rope. This can result in Synthetic Rope breakage.

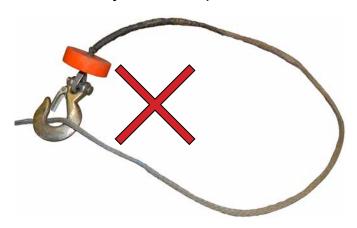


MARNING - Avoid "shock loads" by using control switch intermittently to take up slack in Synthetic Rope. "Shock loads" can exceed rated capacity for Synthetic Rope and Winch Drum.

SAFETY PRECAUTIONS (continued):



WARNING - Never connect Synthetic Rope back onto itself.

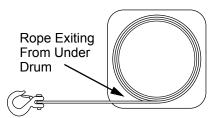


CAUTION - Use Hand Strap when handling Clevis Hook. Use gloves to protect hands when handling Synthetic Rope. Never let Synthetic Rope slide through bare hands.





WARNING - When re-spooling, ensure that Synthetic Rope spools in "under wind" position with Synthetic Rope entering Winch Drum from bottom, not top. To spool correctly, keep a slight load on Synthetic Rope while pushing remote button to draw in Synthetic Rope. Walk toward Winch while not allowing Synthetic Rope to slide through hands. Do not let hands get within 12" of Winch while re-spooling. Turn off Winch and repeat procedure until only a few feet of Synthetic Rope remain. Disconnect Remote Control and finish spooling by hand; rotate Winch Drum by hand with Clutch disengaged. Keep hands clear of Fairlead and Winch Drum while Winch is under power.



Side cutaway view of Winch

SAFETY PRECAUTIONS (continued):



WARNING - Apply blocks to wheels of vehicle when on an incline.



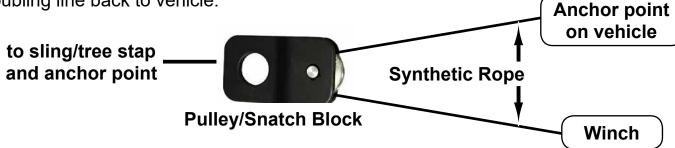
CAUTION - If Motor stalls, stop winching immediately. Electric winches are designed for intermittent use. Do not use in constant duty applications. Keep duration of winching pulls as short as possible: Do not use for more than (1) minute when at or near rated load. If Motor becomes hot to touch, stop winching immediately. Allow Motor to cool before resuming.



CAUTION - Never disengage Free Spooling Clutch when a load is on Winch.

GENERAL TIPS FOR SAFE OPERATION:

Winch is rated at 3,500 lbs capacity when spooling first Synthetic Rope layer onto Winch Drum. Overloading can damage components. For loads over 70% of rated line pull, it is recommend to use a pulley block/snatch block to double rope line. When doubling line, number of layers on Winch Drum is reduced and load on Synthetic Rope is reduced by as much as 50%. Attach to frame or other load bearing component when doubling line back to vehicle.



- To minimize battery drain and maximize power and speed of Winch, keep vehicle engine running during winching. Battery may be drained if winch is used for a considerable amount of time with engine off.
- Know all features before actual use. Become familiar with rigging techniques, sounds made under various loads, way Synthetic Rope spools onto Winch Drum, etc. by performing several test runs.
- Inspect all components, hardware, and electrical connections before each use. If Synthetic Rope is frayed or damaged, replace immediately. Use only manufacturers replacement rope. Replace or remove any component that appears to be damaged, worn, or operating abnormally.
- Never connect Synthetic Rope back onto itself. Always use a snatch block, sling, or chain of suitable strength.
- Pull only on parts of vehicle as specified by vehicle manufacturer.
- Use only attachments and/or adapters supplied by manufacturer.
- Test run Winch in (2) directions before winching.

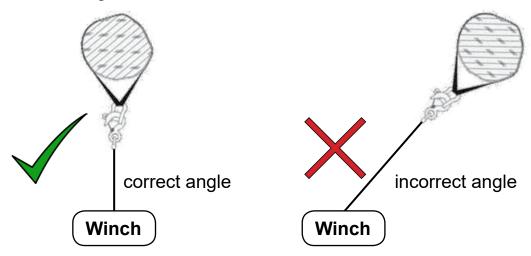
RIGGING TECHNIQUES:

Locate a suitable anchor such as a strong tree trunk or boulder. Always use a sling/tree strap as an anchor point.

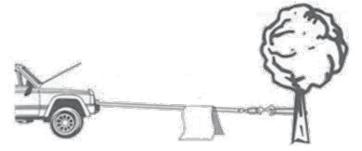
Sling/tree strap

Do not winch from an acute angle. Synthetic Rope will pile up on one side of Winch Drum causing damage to Synthetic Rope and Winch.

Short pulls from an angle can be used to straighten vehicle. Long pulls must be done with Synthetic Rope at a 90° angle to winch/vehicle.



To absorb energy in event of Synthetic Rope failure, place a blanket or jacket over Synthetic Rope approximately 5ft - 6ft from Clevis Hook before pulling a heavy load. Open vehicle hood for more protection.



OPERATING WINCH:

- 1. Take time to assess situation and thoroughly plan pull.
- 2. Set Free Spooling Clutch to "CLUTCH OUT" position.
- 3. Pull Synthetic Rope and attach to vehicle to be winched. Wear gloves and use Hand Strap.



LAUTION - Always leave minimum of (5) turns of Synthetic Rope on Winch Drum. Review "Safety Warnings" section of manual before continuing.

- 4. Secure Clevis Hook to anchor point: Sling, chain or snatch block. Do not attach Clevis Hook back onto Synthetic Rope.
- 5. Set Free Spooling Clutch to "CLUTCH IN" position.
- 6. Start vehicle engine so that battery is being charged while winching.
- 7. Slowly winch in Synthetic Rope just enough to take up slack.
- 8. Inspect Synthetic Rope. Make sure there are minimum 5 wraps of Synthetic Rope around Winch Drum.
- 9. To absorb energy in event of Synthetic Rope failure, place a blanket or jacket over Synthetic Rope approximately 5ft - 6ft from Clevis Hook. Open vehicle hood for more protection.
- 10. Clear area. Make sure all spectators are away and that no one is directly in front, behind vehicle, or anchor point.
- 11. Vehicle to be winched should be placed in neutral and emergency brake released. Only release brake pedal when Synthetic Rope is under full tension.
- 12. While standing aside and clear of tow path, use Rocker Switch or Wireless Remote Control to control winching. If required, wait until Motor stops before reversing direction.
- Be sure Synthetic Rope is winding evenly and tightly around Winch Drum.
- Vehicle being winched can be slowly driven to add assistance to winching.
- Avoid shock loads; keep Synthetic Rope under tension. This can damage components and vehicles.
- 13. Winch is meant for intermittent use. Under full load with a single line rig do not power "in" for more than (1) minute without letting Motor cool down for a few minutes before resuming winching.
- 14. Once vehicle is on stable ground, set brakes and place vehicle in park. Winching operation is complete.
- 15. Set Free Spooling Clutch to "CLUTCH OUT" to release tension on Synthetic Rope. Winch is not meant to hold loads for long periods of time.
- 16. Disconnect Synthetic Rope from vehicle or anchor.
- 18. Set Free Spooling Clutch to "CLUTCH IN" position and rewind Synthetic Rope. Keep hands clear of Winch Drum and components. Any material already on Winch Drum should be spooled tightly and neatly. Draw out and re-spool if necessary.
- 19. Secure Hook Strap and Clevis Hook.

TROUBLE SHOOTING:

SYMPTOM	POSSIBLE CAUSE	SUGGESTED ACTION	
	Rocker Switch not connected properly.	Insert Rocker Switch completely into Controls Splitter.	
	Loose battery cable connections.	Tighten nuts on all cable connections.	
Motor does not	Defective Rocker Switch.	Replace.	
turn on	Defective Motor.	Check for voltage at armature port with Rocker Switch pressed. If voltage is present, replace Motor.	
	Water has entered Motor.	Allow water to drain and Winch to dry Without a load	
	Solenoid sticking.	Tap on Solenoid with handle end of screwdriver.	
Motor runs but Winch Drum does not turn.	Free Spooling Clutch not engaged.	Set Free Spooling Clutch to "CLUTCH IN" position. If problem persist, contact SuperATV.	
Motor runs slowly or without normal	Insufficient current or	Battery is weak and may need charging. Always operate Winch with vehicle running.	
power.	voltage.	Corroded and/or loose battery cables should be cleaned and tightened	
Motor overheating.	Winch run time too long.	Periodically allow Winch to cool while operating.	
Motor runs in one	Defective Rocker Switch/ Remote Control.	Repair or replace Rocker Switch/Remote Control.	
direction only.	Loose battery cable connections.	Corroded and/or loose battery or Motor cable connections should be cleaned and tightened.	

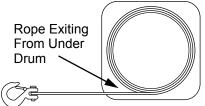
SYNTHETIC ROPE REPLACEMENT:

If Synthetic Rope has become worn or is beginning to show signs of breaking, replace immediately.



WARNING - Only replace with identical part number from manufacturer.

- 1. Set Free Spooling Clutch to "CLUTCH OUT" position.
- 2. Extend installed rope to its full length. Note how it is connected to Winch Drum.
- 3. Remove and install replacement to Winch Drum in same fashion.
- 4. Ensure that newly installed Synthetic Rope wraps in same direction as replacement. Synthetic Rope should leave Winch Drum from bottom.



Side cutaway view of Winch

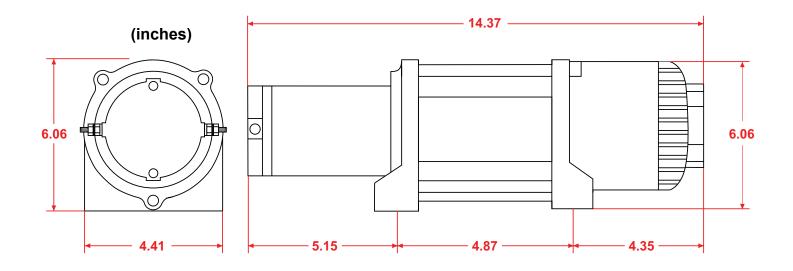
- 5. Set Free Spooling Clutch to "CLUTCH IN" position and retract Synthetic Rope onto Winch Drum for (5) wraps; **DO NOT ALLOW KINKING**.
- Continue winding onto Winch Drum under a load of at least 10% rated line pull.

MAINTENANCE:

- Check tightness of all mounting hardware and electrical connections periodically.
- Keep Winch clean. Remove all dirt and corrosion as required.
- Do not disassemble Mechanic Gear System. High temperature lithium grease has been applied at the factory. No user maintenance is required.

SPECIFICATIONS:

Rated Line Pull	3500 lbs (1588 kgs)
Motor: Permanent Magnet	12V: Input: 2.4kW / 3.2hp; Output: 1.0kW / 1.3hp
Gear Reduction Ratio	170:1
Synthetic Rope (Diameter x Length)	Ø3/16" x 50' (Ø4.8mm x 15.2m)
Net Weight	21.8 lbs (9.9 kgs)



PULL, SPEED, AMPERES, VOLTS (FIRST LAYER):

Line Pull	Line Speed ft/min (m/min)	Current
lbs (kgs)	Line Speed ft/min (m/min)	12V DC
0	10.5 (3.2)	20
1000 (454)	8.9 (2.7)	75
2000 (907)	7.5 (2.3)	130
3500 (1588)	4.6 (1.4)	200



OPERATING MANUAL EWX4500A Winch







Liability Statement

SuperATV's® products are designed to best fit user's ATV/UTV under stock conditions. Adding, modifying, or fabricating any factory or aftermarket parts will void any warranty provided by SuperATV® and is not recommended. SuperATV's® products could interfere with other aftermarket accessories. If user has aftermarket products on machine, contact SuperATV® to verify that they will work together.

Although SuperATV® has thousands of satisfied customers, user should be aware that installing lift kits, long travel, or suspension kits, tires, etc. will change the ride of machine and may increase maintenance and part wear. Operating any off-road machine while, or after, consuming alcohol and/or drugs increases risk of bodily harm or death. No warranty or representation is made as to this product's ability to protect user from severe injury or death. SuperATV® urges operators and occupants to wear a helmet and appropriate riding gear at all times.

By purchasing and installing SuperATV® products, user agrees that should damages occur, SuperATV® will not be held responsible for loss of time, use, labor fees, replacement parts, or freight charges. SuperATV®, nor any 3rd party, will not be held responsible for any direct, incidental, special, or consequential damages that result from any product purchased from SuperATV®. The total liability of seller to user for all damages, losses, and causes of action, if any, shall not exceed the total purchase price paid for the product that gave rise to the claim.

SuperATV® will warranty only parts provided by SuperATV®. Any damage or problems with OEM housings, bearings, seals, or other manufacturers' products will not be covered by SuperATV®. SuperATV® parts and products are not warrantied if item was not installed properly, misused, or modified.

Installing, adding, modifying, or fabricating any factory or aftermarket product to your ATV/UTV may violate certain local, state, and federal laws. Be advised that laws vary depending on town, city, county, state, etc. Use of certain products on public streets, roads, or highways may be in violation law. The Buyer is solely and exclusively legally and personally responsible for any violation of the law by the installation or use of the product. You must abide by all local, state, and federal laws, including but not limited to vehicle safety, traffic laws, and ordinances. It is your responsibility to know the laws and how they apply to you.

The Buyer is responsible to fully understand the capability and limitations of his/her vehicle according to manufacturer specifications, warnings and instructions and agrees to hold SuperATV® harmless from any damage resulting from failure to adhere to such specifications, warnings and/ or instructions. The Buyer is also responsible to obey all applicable federal, state, and local laws and ordinances when operating his/her vehicle while using this product, and the Buyer agrees to hold SuperATV® harmless from any violation thereof.

RECOMMENDED WINCH ACCESSORIES (not included):

Gloves: Protect hands when handling Synthetic Rope.

Anchor Strap/Chain: 5,0000 lbs. - 10,000 lbs. high tensile strength strap.

Blanket: Place on Synthetic Rope to absorb energy in event of a failure.

INTRODUCTION:

Congratulations on your purchase of a high quality winch designed and built to strict specifications. Proper use and maintenance will ensure years of reliable, satisfying service.



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

A winch can develop tremendous pulling forces. If winch is used improperly, or in an unsafe manner, personal injury, death, and/or property damage can occur. Throughout this operating manual CAUTION, WARNING, and DANGER symbols are present. Pay particular attention to notes preceded by these symbols as they are written for your safety. User is responsible for safe operation of this device.



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



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

GETTING TO KNOW YOUR WINCH:

A winch is a powerful piece of machinery. For safe and confident operation, it is important to understand basic winch operations and specifications. See below for details on winch components and usage. Practice using winch before an actual situation occurs.

Winch has been engineered with several patented technologies.

Motor: Motor is powered by a 12 volt battery. Motor provides power to Mechanic Gear Mechanism which turns Winch Drum and winds Synthetic Rope.

Winch Drum: Cylinder on which Synthetic Rope is stored. Winch Drum feeds or winds Synthetic Rope depending on Winch switch direction.

Synthetic Rope: Ø1/4" x 47.6' long Synthetic Rope designed specifically for a load capacity of 4500lbs. and is looped at end to accept clevis hook pin. Synthetic Rope feeds onto Winch Drum through Fairlead when in "under wind" position.

Fairlead: When operating Winch at an angle, Fairlead guides Synthetic Rope onto Winch Drum and minimizes damage/abrasion from winch mount or bumper.

Mechanic Gear System: Converts Motor power into extreme pulling forces.

Braking System: Braking action is automatically applied to Winch Drum when Motor is stopped and there is load on Synthetic Rope. A separate mechanical brake applies braking action.

Control System: Winch can be controlled by using Power Cord/Switch Assembly or through Remote Control.

Free Spooling Clutch: Allows user to manually disengage ("CLUTCH OUT") Winch Drum from Mechanic Gear System; free spool. Engaging clutch ("CLUTCH IN") locks Winch into Mechanic Gear System.

Solenoid: Power from vehicle battery flows through a weather-sealed switch before being directed to Motor.

Rocker Switch: Power switch leads have a dual switch for powering in or powering out Winch Drum. Rocker switch allows user to stand clear of Synthetic Rope when Winch is under load.

Wireless Remote Control: Allows user to operate Winch from 50' away.

Mounting Plate: Plate that can mount to most flat surfaces such as trailers, step bumpers, truck beds, etc. Fairlead mounting holes included.

Pulley/Snatch Block (not included): Doubles pulling power of Winch or changes pulling direction without damaging Synthetic Rope. When pulling over 70% of rated line pull, it is recommended to use double line and snatch block.

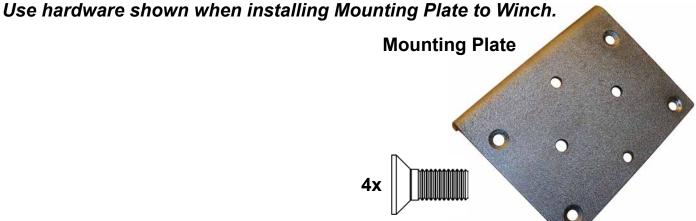
WINCH ASSEMBLY AND MOUNTING:

Winch is designed with a standard bolt pattern for its class. Different mounting kits are available that utilize this pattern.

If installing supplied Mounting Plate, install to a flat surface so Motor, Winch Drum, and Gear Housing are properly aligned. Proper alignment allows for even distribution of full rated loads.

Universal mounting plate shown. Machine specific mounting plates are available at www.SuperATV.com

- 1. Install supplied Fairlead to supplied Mounting Plate with (2) each M8 x 20mm Lg. HHCS, M8 Flat Washers, M8 Lock Washers, and M8 Nuts.
- 2. Install Winch to Mounting Plate:
- Set Free Spooling Clutch to "CLUTCH OUT" and pull out a few inches of Synthetic Rope.
- Feed Synthetic Rope through opening in front of Mounting Plate and through Fairlead.



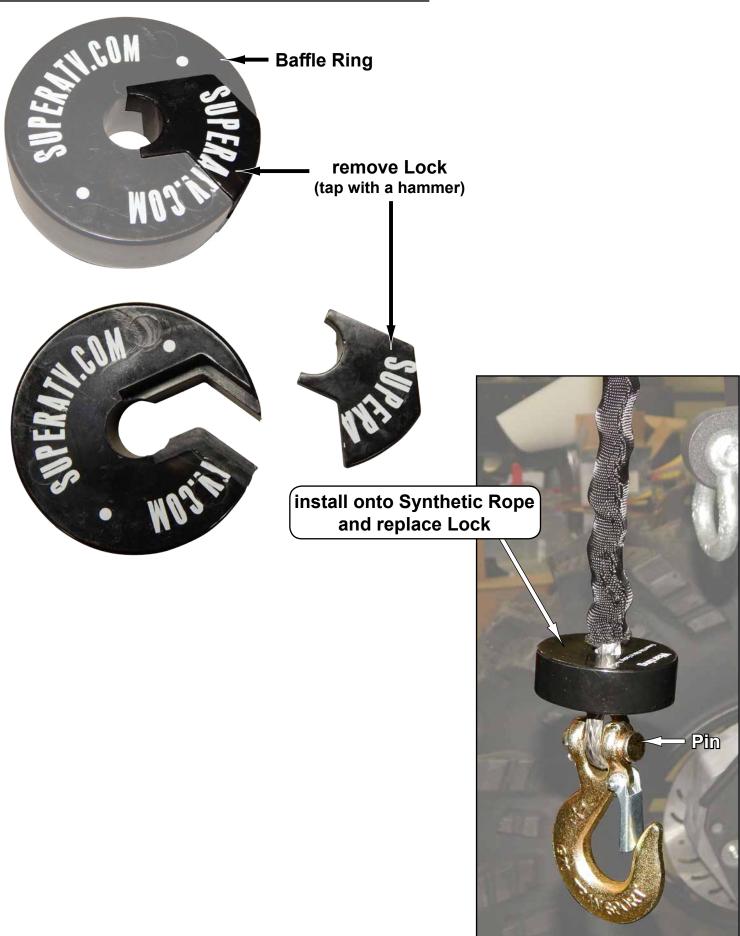
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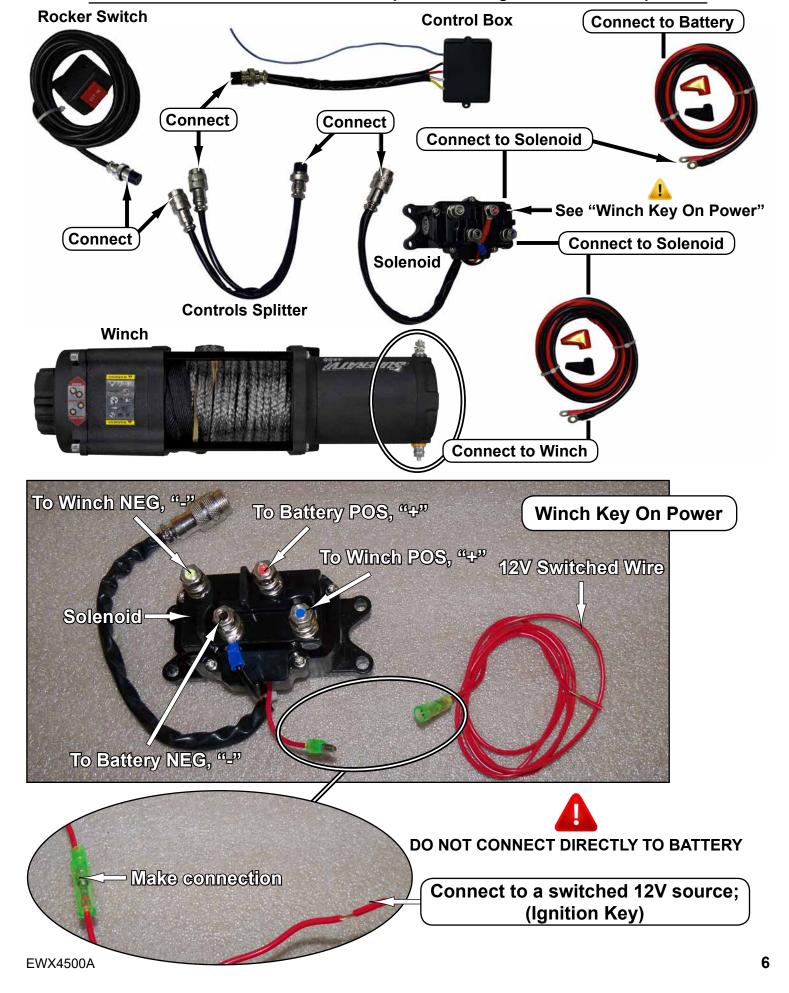
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WINCH ASSEMBLY AND MOUNTING (continued):



WINCH WIRING: ensure no wires are pinched during installation and operation



SAFETY PRECAUTIONS:

Failure to heed these warnings and cautions may result in personal injury and/or property damage.



WARNING - Do not exceed rated capacity shown in following table.

Layer	Rated Line Pull lbs (kgs)	Total Rope On Drum ft (m)
1	4500 (2041)	7.6 (2.3)
2	3642 (1652)	17.0 (5.2)
3	3060 (1388)	27.0 (8.3)
4	2638 (1196)	38.6 (11.8)
5	2254 (1023)	47.6 (14.5)



NARNING - Do not use Winch to lift vertically or as a hoist.





NARNING - Do not use Winch to pull or move people in any way.





NARNING - Never cut, weld, or modify any part of Winch or Synthetic Rope.



NARNING - A minimum of (5) wraps of Synthetic Rope around Winch Drum is necessary for pulling and holding rated load.



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NARNING - When under load, never step over or go near Synthetic Rope.



NARNING - Don't move vehicle to pull a load (towing) on Synthetic Rope. This can result in Synthetic Rope breakage.

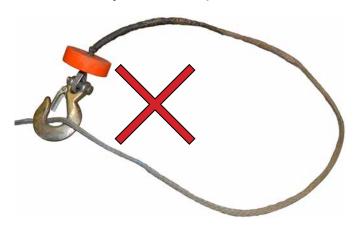


NARNING - Avoid "shock loads" by using control switch intermittently to take up slack in Synthetic Rope. "Shock loads" can exceed rated capacity for Synthetic Rope and Winch Drum.

SAFETY PRECAUTIONS (continued):



WARNING - Never connect Synthetic Rope back onto itself.

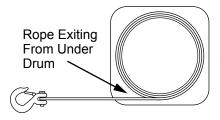


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Side cutaway view of Winch

SAFETY PRECAUTIONS (continued):



WARNING - Apply blocks to wheels of vehicle when on an incline.



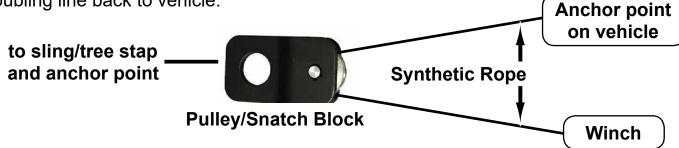
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9

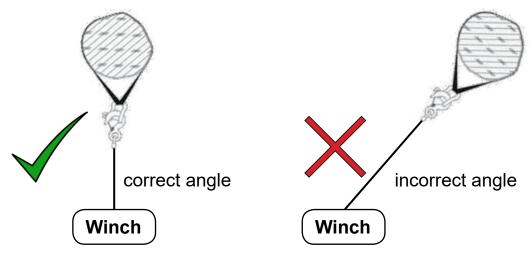
RIGGING TECHNIQUES:

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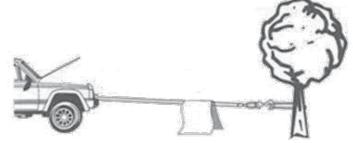
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Do not winch from an acute angle. Synthetic Rope will pile up on one side of Winch Drum causing damage to Synthetic Rope and Winch.

Short pulls from an angle can be used to straighten vehicle. Long pulls must be done with Synthetic Rope at a 90° angle to winch/vehicle.



To absorb energy in event of Synthetic Rope failure, place a blanket or jacket over Synthetic Rope approximately 5ft - 6ft from Clevis Hook before pulling a heavy load. Open vehicle hood for more protection.



OPERATING WINCH:

- 1. Take time to assess situation and thoroughly plan pull.
- 2. Set Free Spooling Clutch to "CLUTCH OUT" position.
- 3. Pull Synthetic Rope and attach to vehicle to be winched. Wear gloves and use Hand Strap.



LAUTION - Always leave minimum of (5) turns of Synthetic Rope on Winch Drum. Review "Safety Warnings" section of manual before continuing.

- 4. Secure Clevis Hook to anchor point: Sling, chain or snatch block. Do not attach Clevis Hook back onto Synthetic Rope.
- 5. Set Free Spooling Clutch to "CLUTCH IN" position.
- 6. Start vehicle engine so that battery is being charged while winching.
- 7. Slowly winch in Synthetic Rope just enough to take up slack.
- 8. Inspect Synthetic Rope. Make sure there are minimum 5 wraps of Synthetic Rope around Winch Drum.
- 9. To absorb energy in event of Synthetic Rope failure, place a blanket or jacket over Synthetic Rope approximately 5ft - 6ft from Clevis Hook. Open vehicle hood for more protection.
- 10. Clear area. Make sure all spectators are away and that no one is directly in front, behind vehicle, or anchor point.
- 11. Vehicle to be winched should be placed in neutral and emergency brake released. Only release brake pedal when Synthetic Rope is under full tension.
- 12. While standing aside and clear of tow path, use Rocker Switch or Wireless Remote Control to control winching. If required, wait until Motor stops before reversing direction.
- Be sure Synthetic Rope is winding evenly and tightly around Winch Drum.
- Vehicle being winched can be slowly driven to add assistance to winching.
- Avoid shock loads; keep Synthetic Rope under tension. This can damage components and vehicles.
- 13. Winch is meant for intermittent use. Under full load with a single line rig do not power "in" for more than (1) minute without letting Motor cool down for a few minutes before resuming winching.
- 14. Once vehicle is on stable ground, set brakes and place vehicle in park. Winching operation is complete.
- 15. Set Free Spooling Clutch to "CLUTCH OUT" to release tension on Synthetic Rope. Winch is not meant to hold loads for long periods of time.
- 16. Disconnect Synthetic Rope from vehicle or anchor.
- 18. Set Free Spooling Clutch to "CLUTCH IN" position and rewind Synthetic Rope. **Keep** hands clear of Winch Drum and components. Any material already on Winch Drum should be spooled tightly and neatly. Draw out and re-spool if necessary.

19. Secure Hook Strap and Clevis Hook.

TROUBLE SHOOTING:

OVARDION DOCUME ON LOS			
SYMPTOM	POSSIBLE CAUSE	SUGGESTED ACTION	
	Rocker Switch not connected properly.	Insert Rocker Switch completely into Controls Splitter.	
	Loose battery cable connections.	Tighten nuts on all cable connections.	
Motor does not	Defective Rocker Switch.	Replace.	
turn on	Defective Motor.	Check for voltage at armature port with Rocker Switch pressed. If voltage is present, replace Motor.	
	Water has entered Motor.	Allow water to drain and Winch to dry. Without a load, operate Winch in short cycles until completely dry.	
	Solenoid sticking.	Tap on Solenoid with handle end of screwdriver.	
Motor runs but Winch Drum does not turn.	Free Spooling Clutch not engaged.	Set Free Spooling Clutch to "CLUTCH IN" position. If problem persist, contact SuperATV.	
Motor runs slowly	Insufficient current or	Battery is weak and may need charging. Always operate Winch with vehicle running.	
or without normal power.	voltage.	Corroded and/or loose battery cables should be cleaned and tightened	
Motor overheating.	Winch run time too long.	Periodically allow Winch to cool while operating.	
Motor runs in one	Defective Rocker Switch/ Remote Control.	Repair or replace Rocker Switch/Remote Control.	
direction only.	Loose battery cable connections.	Corroded and/or loose battery or Motor cable connections should be cleaned and tightened.	

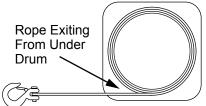
SYNTHETIC ROPE REPLACEMENT:

If Synthetic Rope has become worn or is beginning to show signs of breaking, replace immediately.



INVARNING - Only replace with identical part number from manufacturer.

- 1. Set Free Spooling Clutch to "CLUTCH OUT" position.
- 2. Extend installed rope to its full length. Note how it is connected to Winch Drum.
- 3. Remove and install replacement to Winch Drum in same fashion.
- 4. Ensure that newly installed Synthetic Rope wraps in same direction as replacement. Synthetic Rope should leave Winch Drum from bottom.



Side cutaway view of Winch

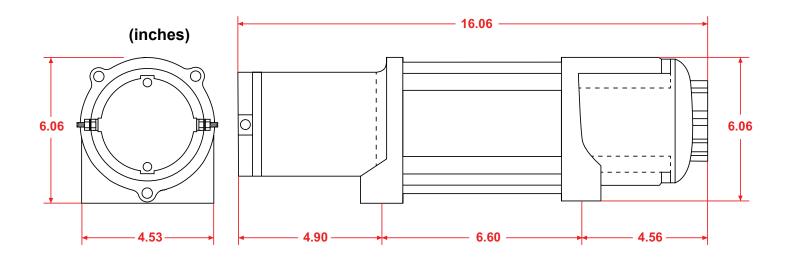
- 5. Set Free Spooling Clutch to "CLUTCH IN" position and retract Synthetic Rope onto Winch Drum for (5) wraps; **DO NOT ALLOW KINKING**.
- Continue winding onto Winch Drum under a load of at least 10% rated line pull.

MAINTENANCE:

- Check tightness of all mounting hardware and electrical connections periodically.
- Keep Winch clean. Remove all dirt and corrosion as required.
- Do not disassemble Mechanic Gear System. High temperature lithium grease has been applied at the factory. No user maintenance is required.

SPECIFICATIONS:

Rated Line Pull	4500 lbs (2041 kgs)
Motor: Permanent Magnet	12V: Input: 2.4kW / 3.2hp; Output: 1.0kW / 1.7hp
Gear Reduction Ratio	172:1
Synthetic Rope (Diameter x Length)	Ø1/4" x 47.6' (Ø6.4mm x 14.5m)
Net Weight	28.9 lbs (13.1 kgs)



PULL, SPEED, AMPERES, VOLTS (FIRST LAYER):

Line Pull	Line Speed filmin (m/min)	Current
lbs (kgs)	Line Speed ft/min (m/min)	12V DC
0	11.6 (3.6)	20
1500 (680)	9.2 (2.8)	70
2500 (1134)	7.8 (2.4)	100
3500 (1588)	6.6 (2.0)	140
4500 (2041)	4.9 (1.5)	200