2753 Michigan Road · Madison, Indiana 47250
855-743-3427

INSTALLATION INSTRUCTIONS

Game Loader Rack: GLR-CA-DEF-001



Rack Weldment Assembly



Strap



Side Tube Weldments (2pcs)



Winch Kit



Tube Joint Covers (4pcs)



Channel Tube Clamps (2pcs)



Mount Brackets (2pcs)



Bracket Spacers (2pcs)



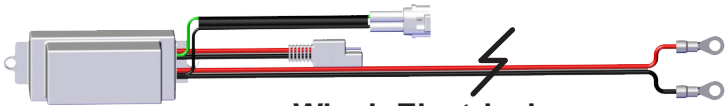
Winch Hook



Winch Fairlead



Wired Winch Remote



Winch Electrical Box



MP280 Connector



Winch Electrical Connector



M8x20 Hex Bolt (6pcs)



M8x25 Hex Bolt (4pcs)



M8 Split Washer (10pcs)



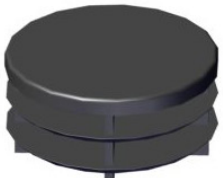
M12x25 Hex Flanged (4pcs)



M12 Flat Washer (4pcs)



M12 Split Washer (4pcs)



Round End Plug (6pcs)

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1.The first thing you need to do is insert the two (2) **Round End Plugs** into the **Side Tube Weldments** at the bottom ends as shown in **Fig.1**.



Fig.1

2.The next thing is you need to do is remove two (2) plates on the back by removing the bolts as shown in Fig.2a-c.

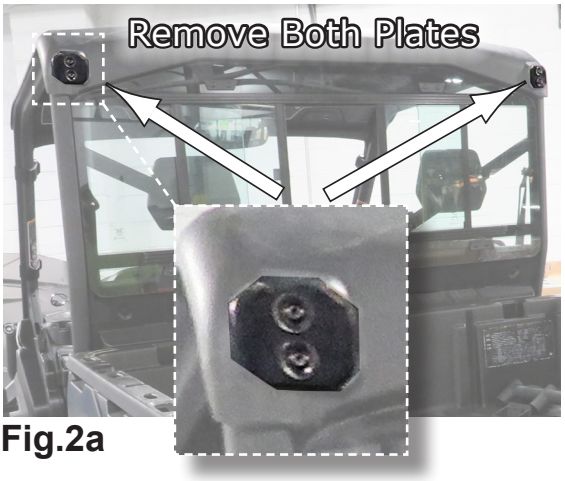

Fig.2a



Fig.2b



Fig.2c

NOTE: Next, if you have a **Poly Roof** already installed on your machine, you will need to use the **Bracket Spacers** which will go behind the **Mount Brackets** to extend the Rack out and away from the Poly Roof, giving it a little clearance. If you don't have a Poly Roof, then the spacers are not needed. See **Fig.2d-e** Below.

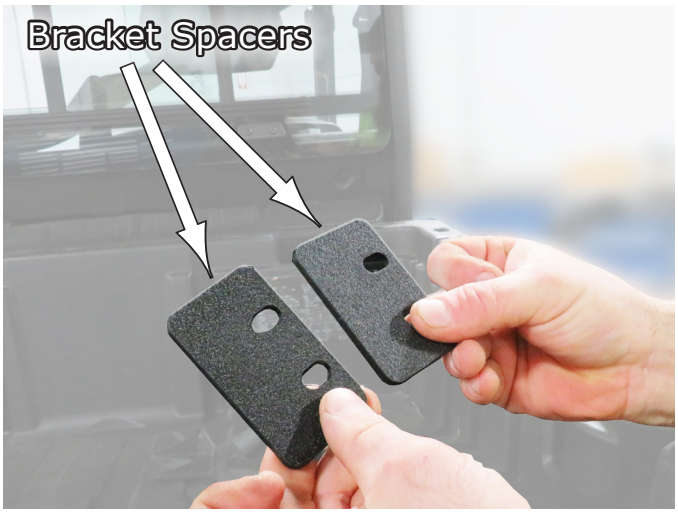

Fig.2d

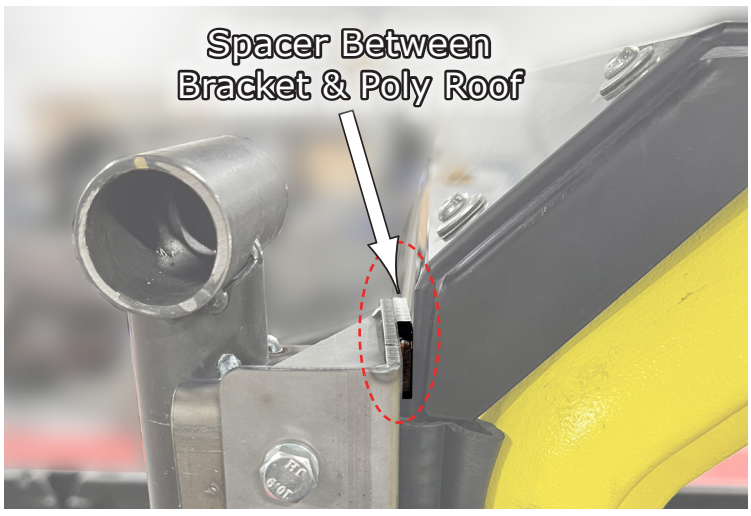

Fig.2e

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3.Now you can install the **Mount Brackets**. Even though we do not have a Poly Roof installed on this machine, we will be using the **Bracket Spacers** that will go behind the **Mounting Brackets** to show the assemby process in case you need to install them. Install the **Mounting Brackets** using the **M8x25 Hex Bolts** and **M8 Split Washers** provided in your kit. Notice that the "slotted" holes should be on the bottom as shown in **Fig.3a-b** (passenger's side shown). **Fig.3c** shows how these components install together, and **Fig.3d** shows the **Mounting Bracket** and **Spacers** installed complete. Leave a little loose for adjustment later. Repeat the same for the opposite side.

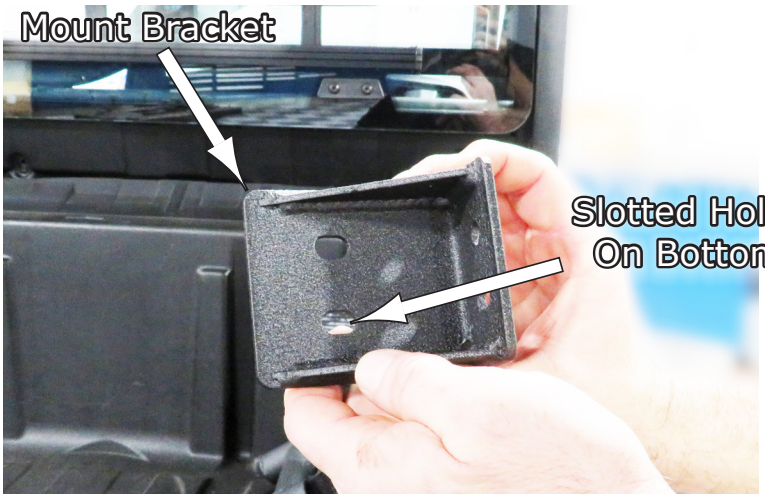

Fig.3a

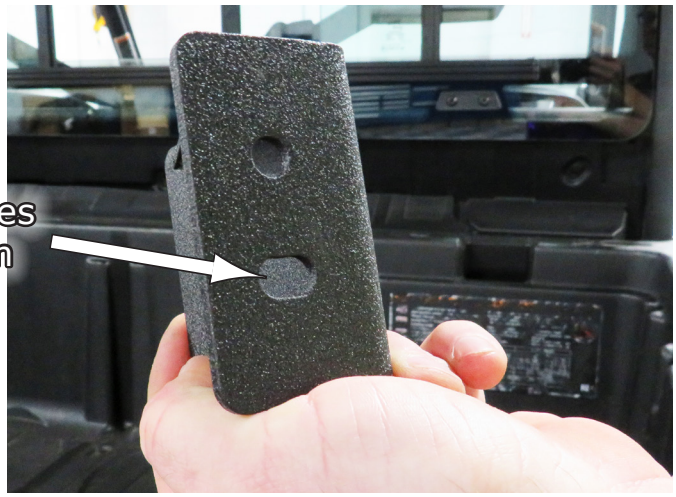

Fig.3b

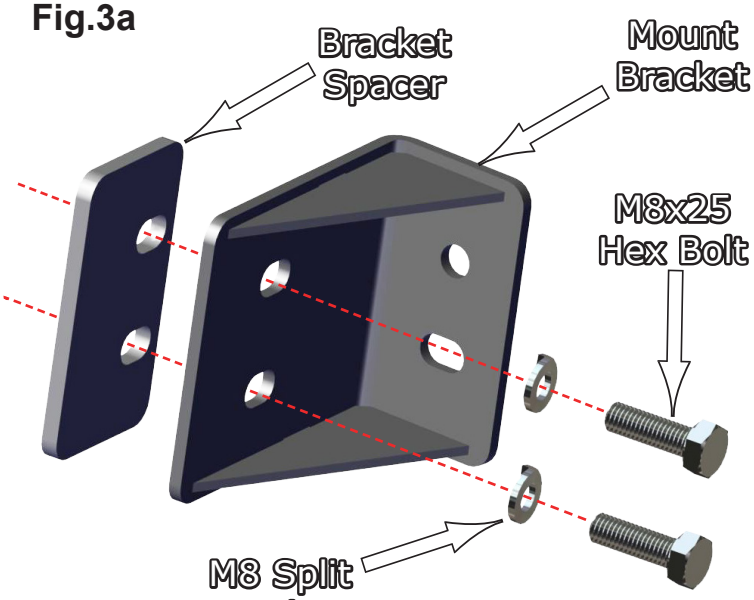

Fig.3c

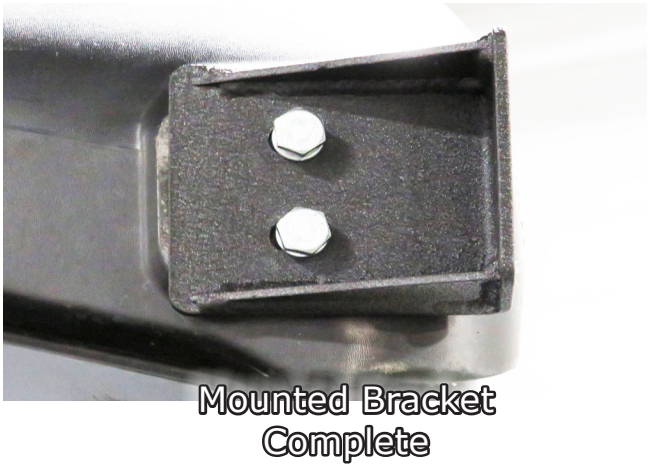

Fig.3d

4.After the **Mounting Brackets** are installed, you can now install the **Channel Tube Clamps**. You will install these using the bolts that came with the clamps in them. Be sure to install them so the threaded hole is facing away from the vehicle on the outside. **Fig.4** shows the Passenger's side installed. Repeat for opposite side.

NOTE: Be sure to leave the clamp a little loose so you can adjust it to align with the holes in the **Side Tube Weldments** in the next steps.



Fig.4

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5.Now you are ready to install the **Side Tube Weldments**. You will install them using the **M8x20 Hex Bolts** and **M8 Split Washers** at the top **Mount Brackets** as shown in **Fig.5a & c**. **Fig.5b** shows how the components install into the **Mount Bracket**.



Fig.5a

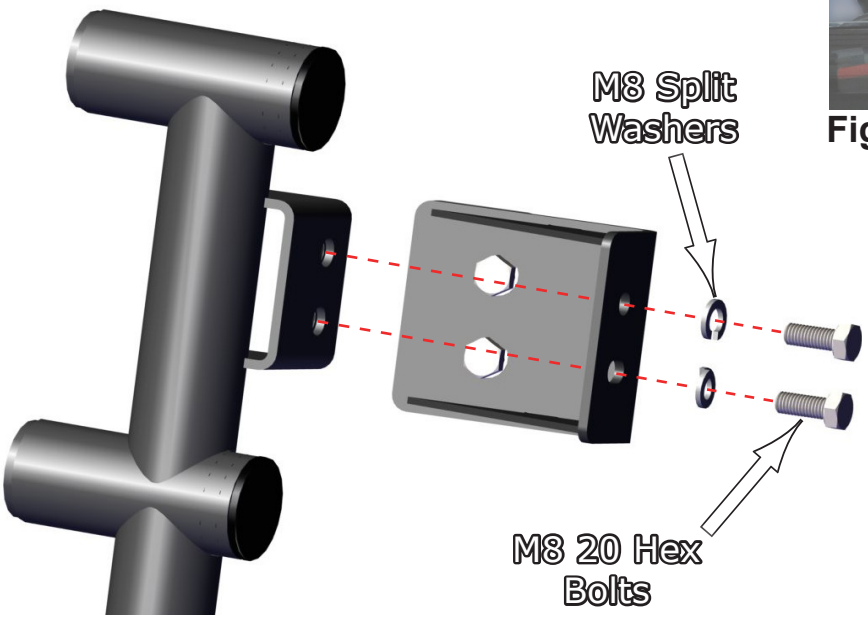

Fig.5b



Fig.5c

6.Next, you can install the **Side Tube** to the **Channel Tube Clamp** you installed previously. You will install it using the **M8x20 Hex Bolt** and **M8 Split Washer** as shown in **Fig.6a-b**. Be sure to align the Clamp to the hole on the Side Tube, hold the clamp there and move the Side Tube up out of the way so you can tighten down the Clamp bolts. Then install the Side Tube to the Clamp and tighten down. Repeat for opposite side.

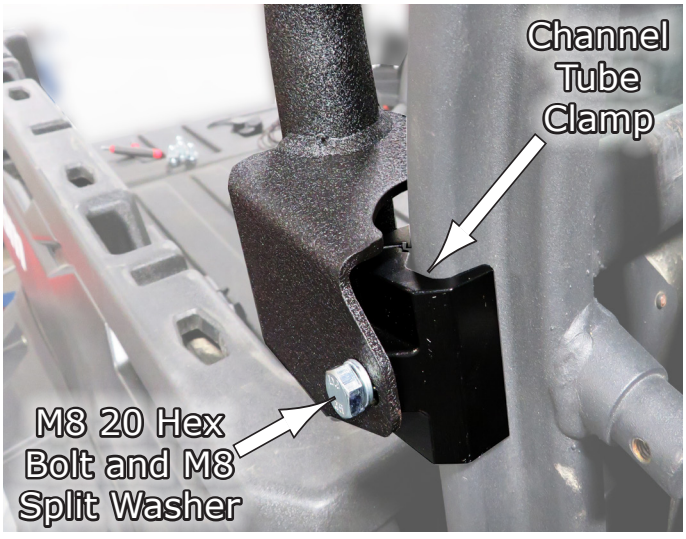

Fig.6a

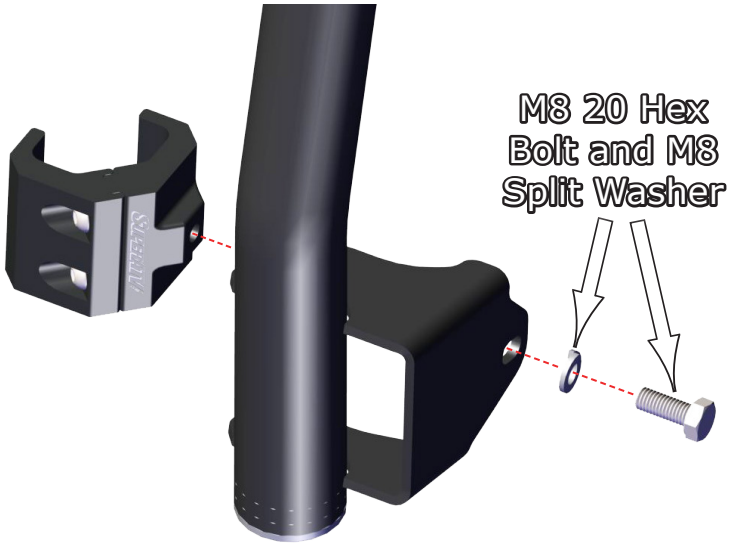

Fig.6b

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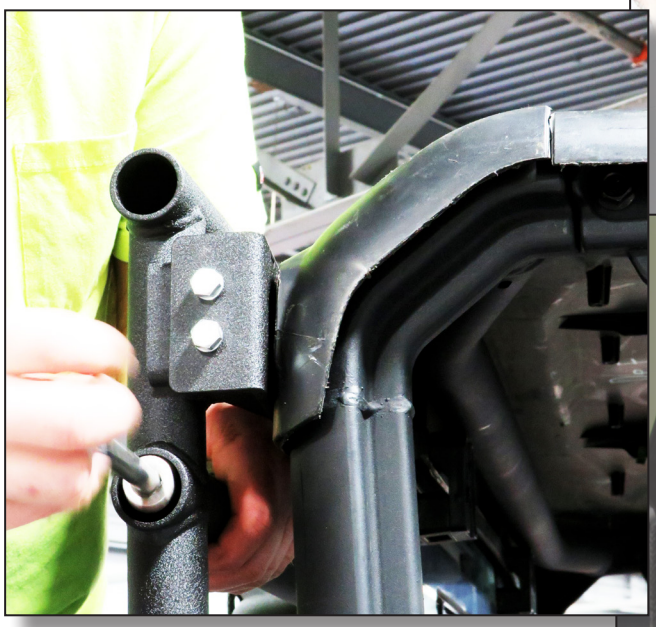
7.After both side tube Weldments have been attached, now you can mount the main **Rack Assembly** to the **Side Tube Weldments**. You will do this by using the **Tube Joint Covers**, **M12 x 25 Hex Bolts** and **M12 Flat Washers** and tighten secure. Then install the End Plugs into each end as shown below in **Fig.7**. Repeat for opposite side.





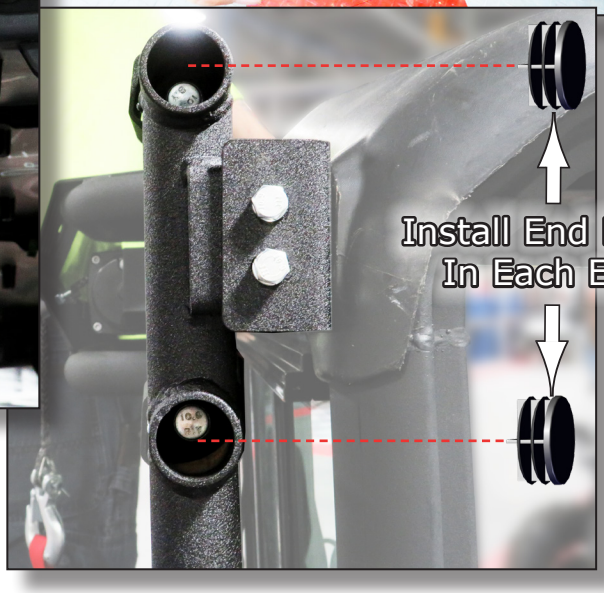


Fig.7

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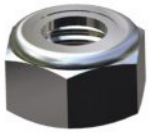
NOTE: After both ends of the main Rack Assembly have been threaded in, now go back and tighten down the Mount Bracket bolts you left a little loose in the previous steps for adjustment, and tighten down all other bolts secure.

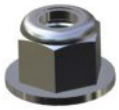
Winch, Hardware & Electrical Hook-up Section



M10 Nylock Nut (2pcs)



M10x30 Hex Socket Screw (2pcs)



M6 Nylock Nut (6pcs)



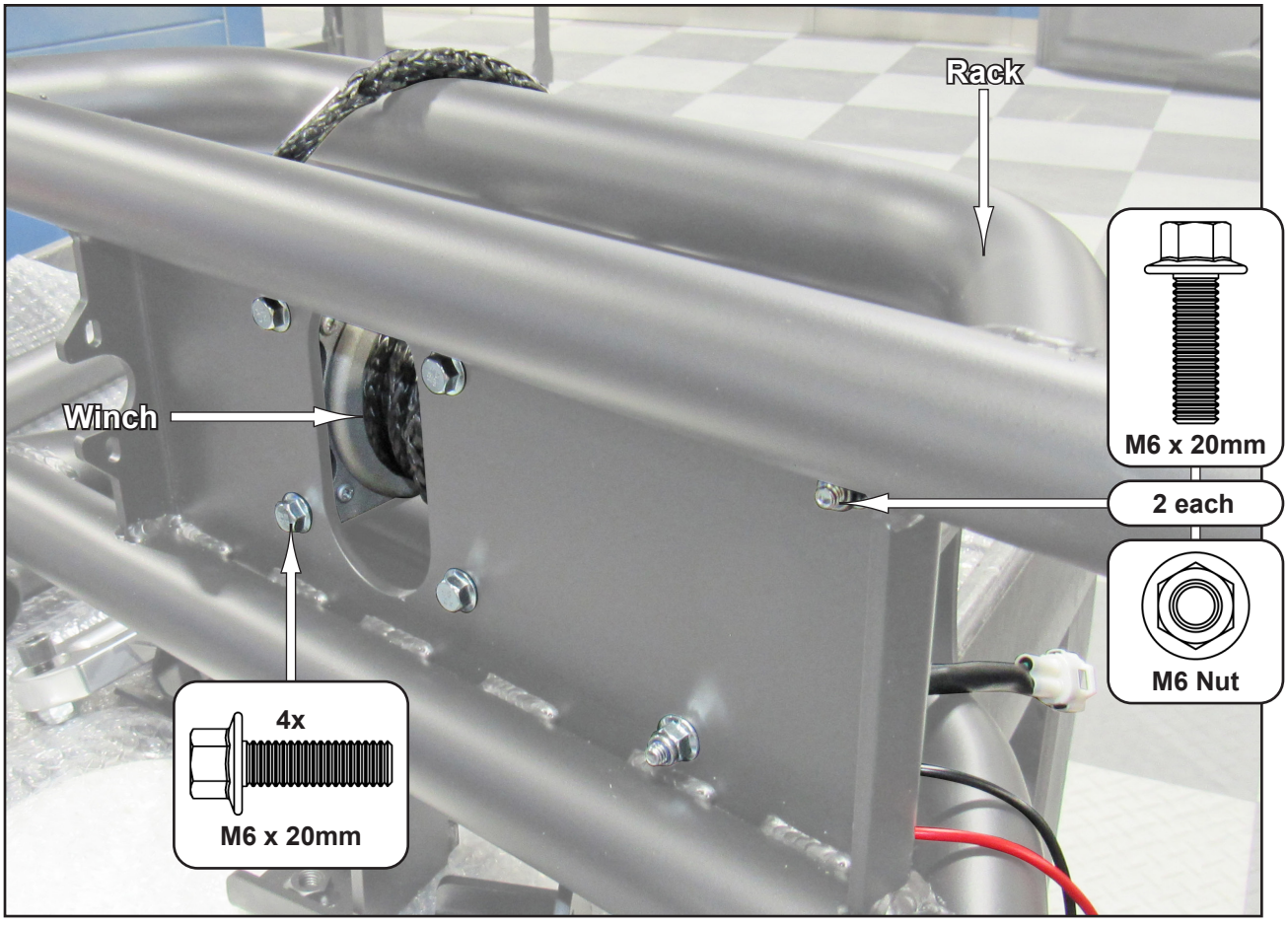
M6x20 Hex Flanged Screw (6pcs)



M5 Nylock Nut (2pcs)



M5x20 Hex Flanged Screw (2pcs)



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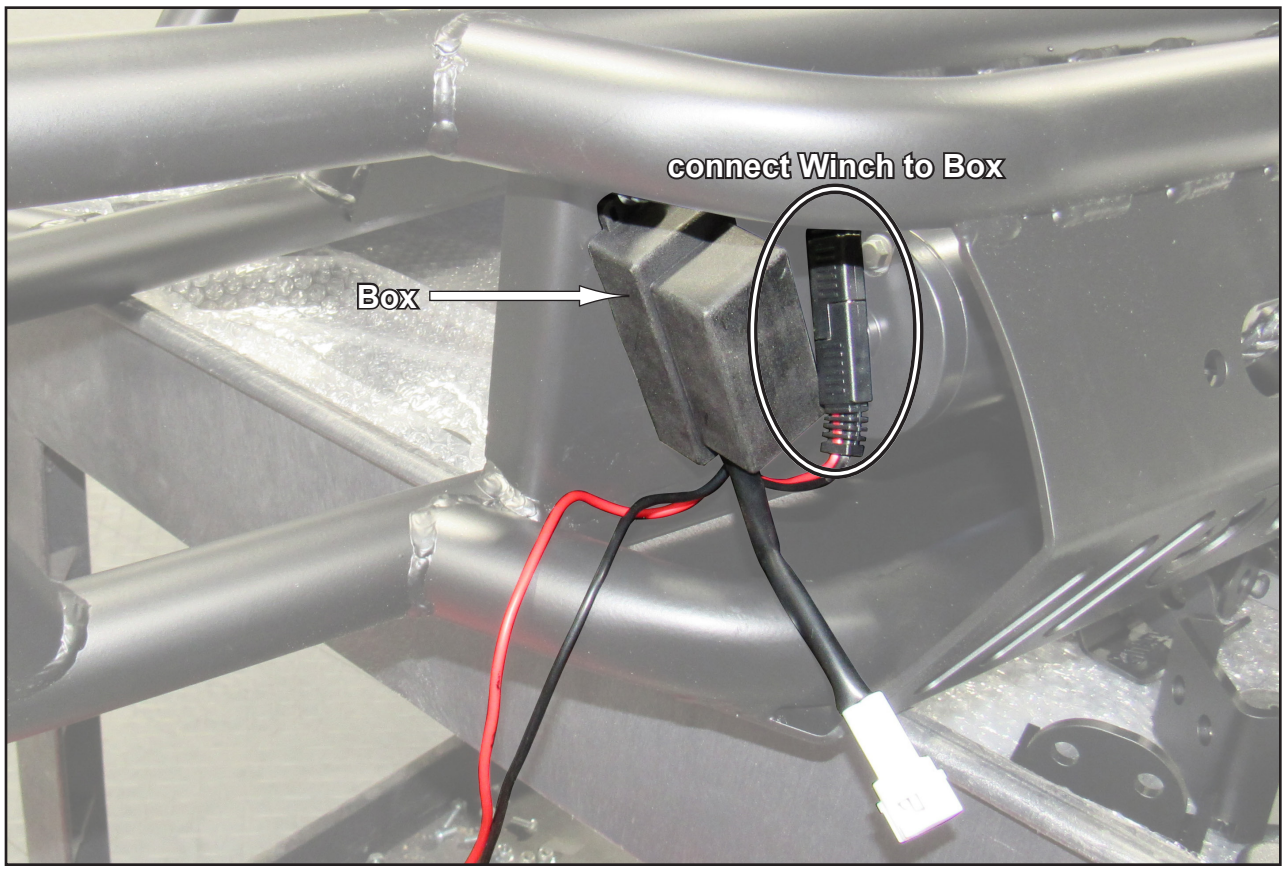
- Install Winch and Box to Rack with hardware shown; tighten.



- Install Fairlead, Hook, and Hand Strap with hardware shown; tighten.



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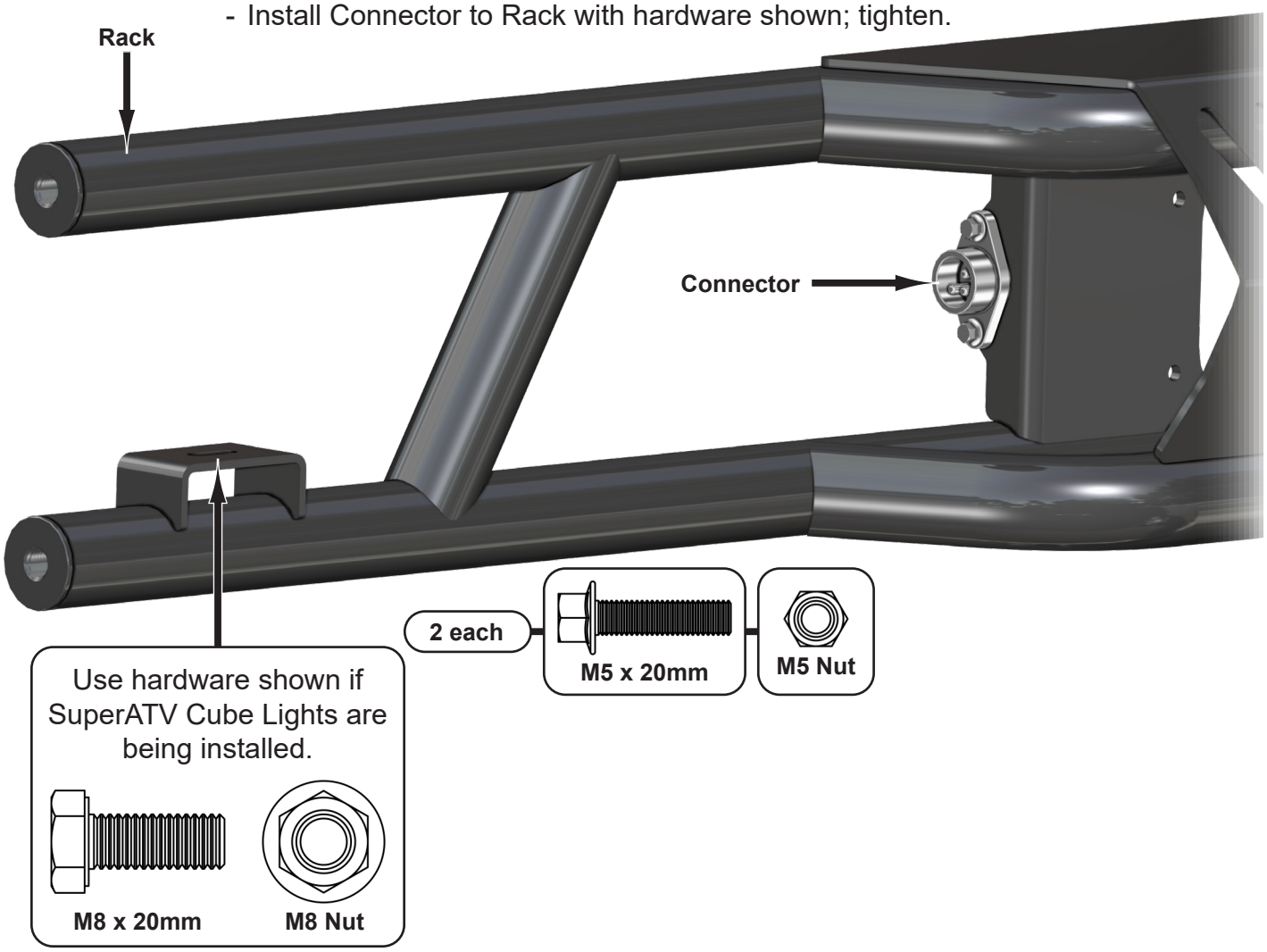
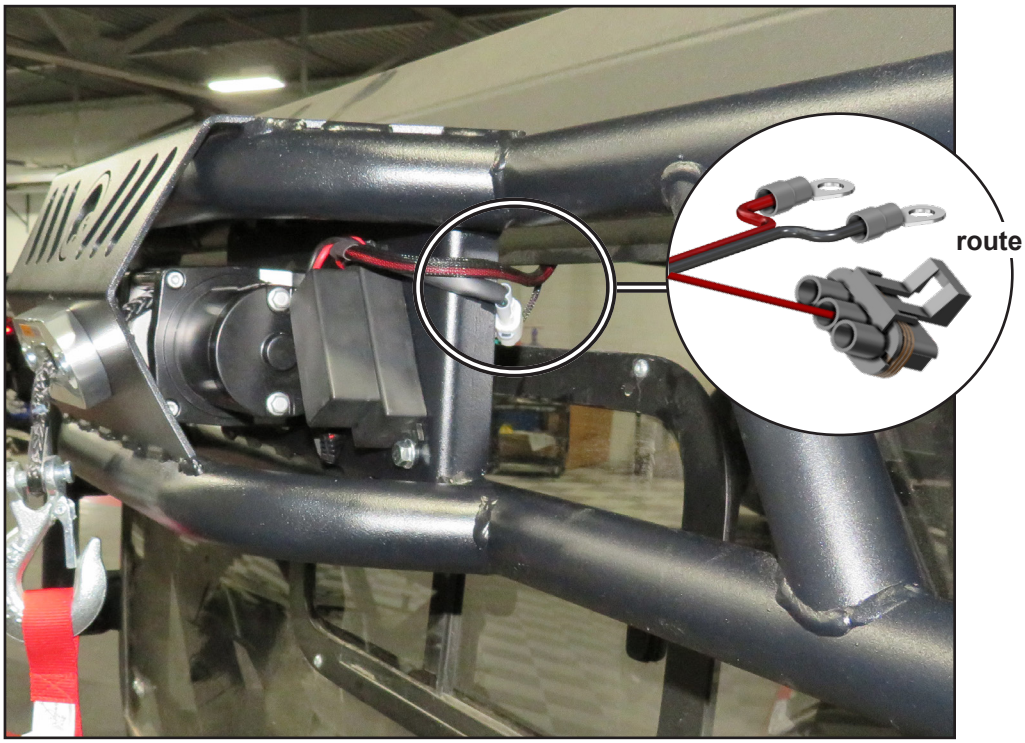
- Install Connector to Rack with hardware shown; tighten.





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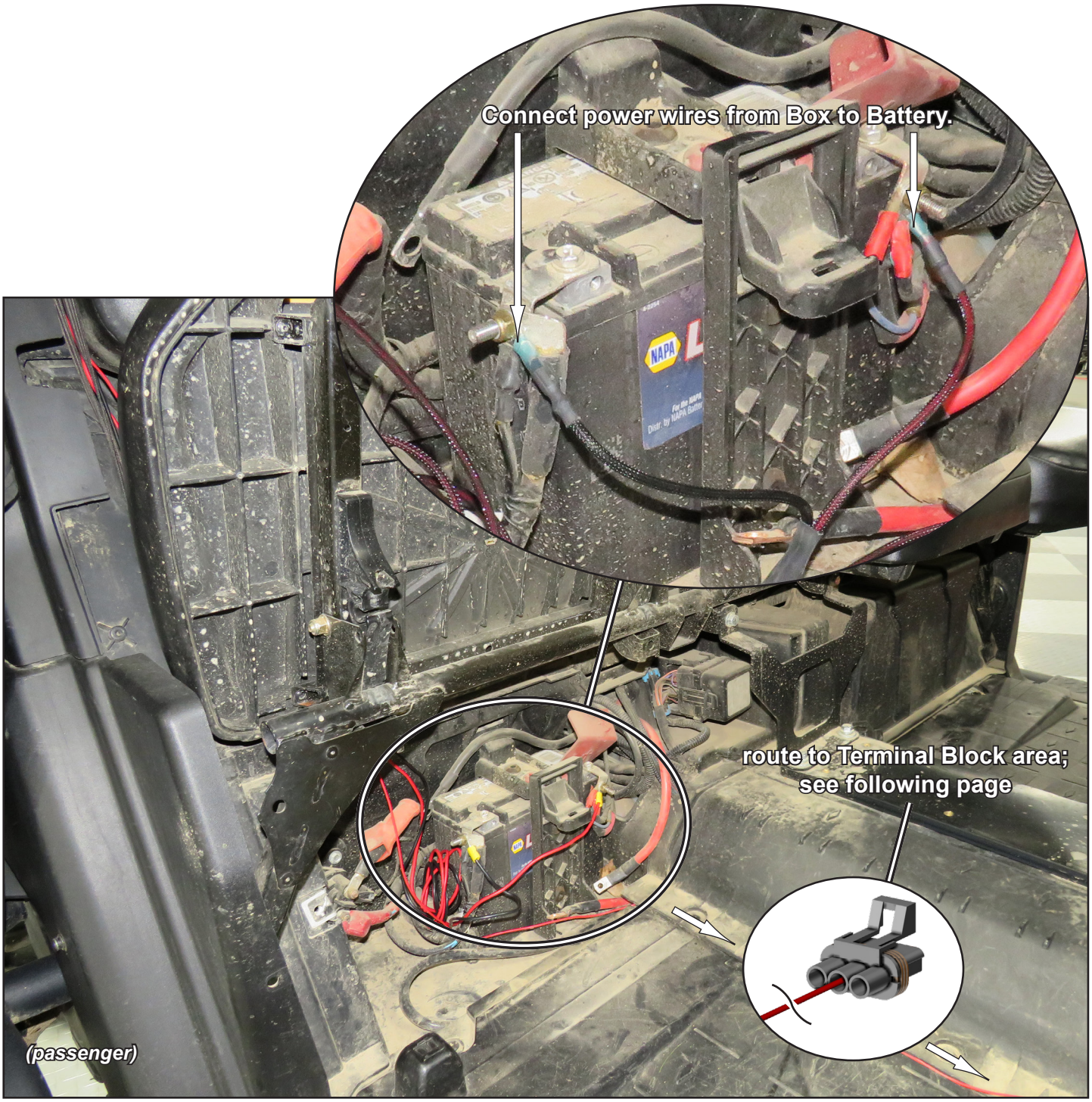

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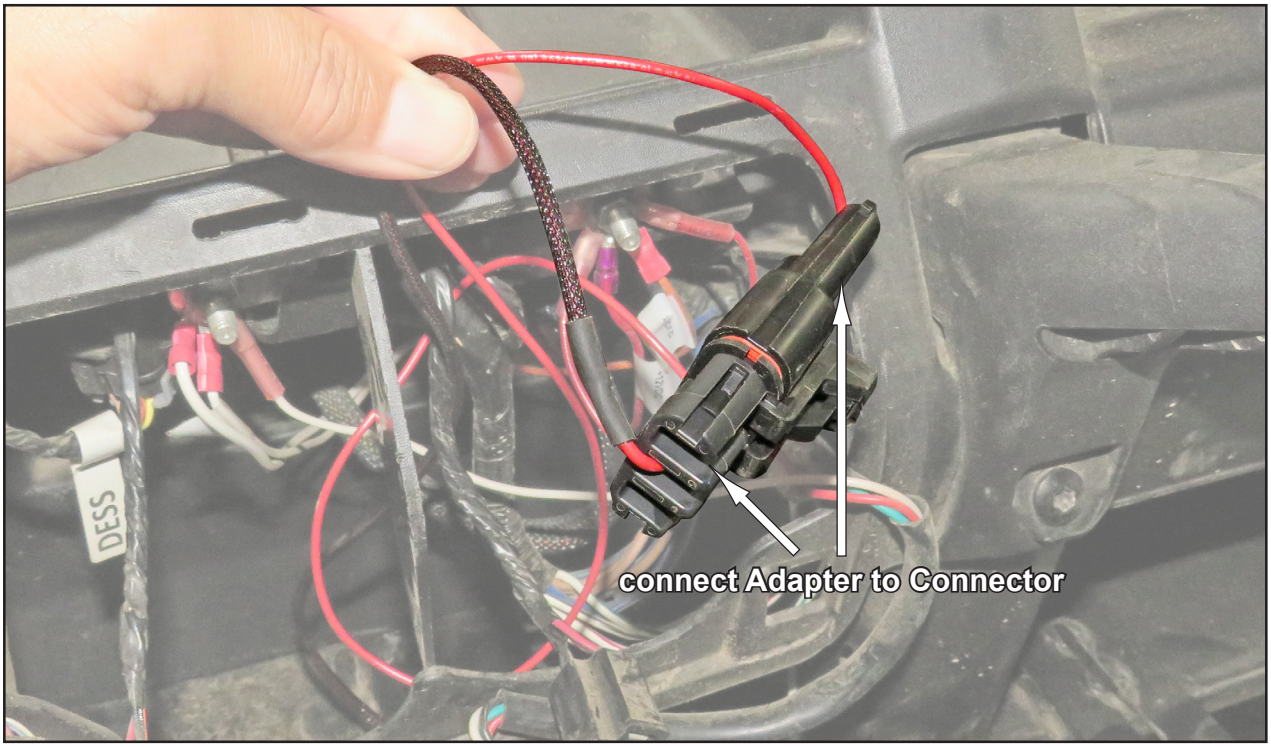

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GETTING TO KNOW YOUR WINCH:

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 Mechanical 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: Designed specifically for Winches load capacity 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.

Mechanical 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 Corded Remote.

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

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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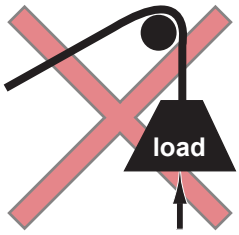
SAFETY PRECAUTIONS:

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

⚠WARNING - Do not exceed rated capacity.

⚠WARNING • Do not use Winch to lift vertically or as a hoist.



⚠WARNING • Keep the vehicle in park when operating winch.

⚠WARNING • Never operate winch on an incline.

⚠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.

⚠WARNING • 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.

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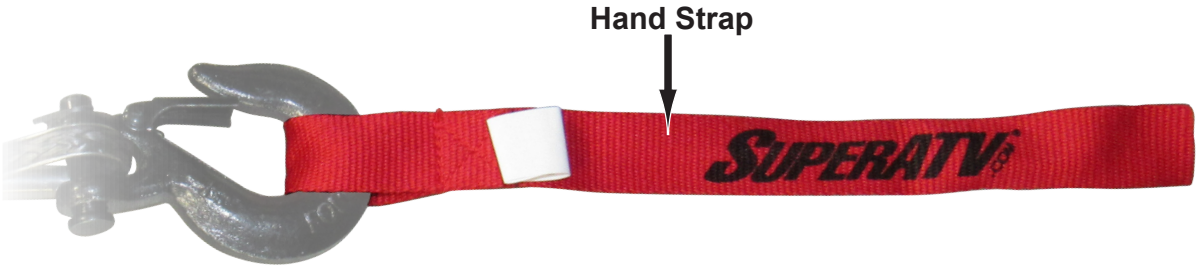
SAFETY PRECAUTIONS (continued):

⚠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 Corded 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

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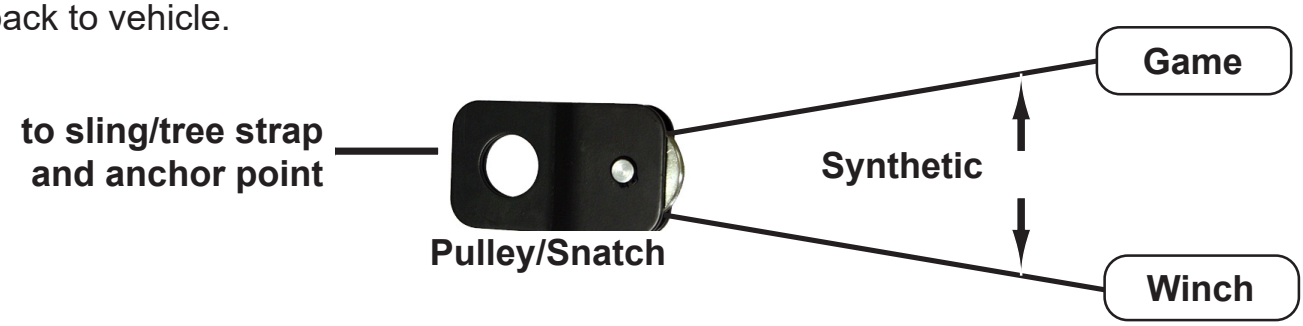
GENERAL TIPS FOR SAFE OPERATION:

- Winch is at rated 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.
- Use only attachments and/or adapters supplied by manufacturer.
- Test run Winch in (2) directions before winching.

⚠ 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.

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

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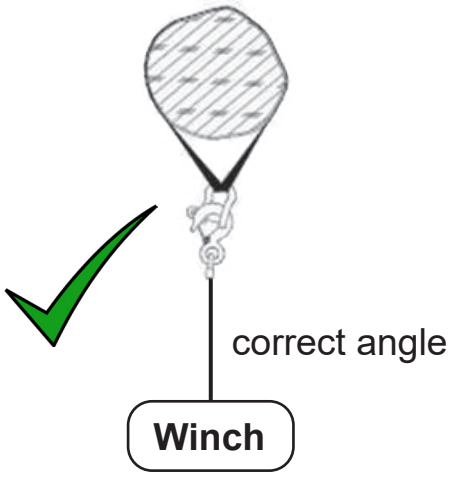
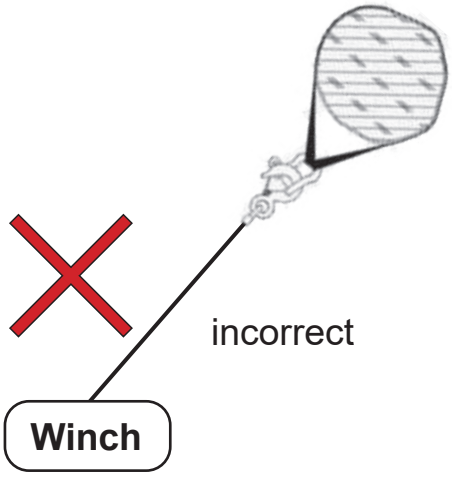
Do not winch from an acute angle. Synthetic Rope will pile up on one side of Winch Drum causing damage to Synthetic Rope and Winch.

Short pulls from an angle can be used to straighten game. 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.



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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 Game 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 “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.
10. Clear area. Make sure all spectators are away and that no one is directly in front, behind vehicle, or anchor point.
11. While standing aside and clear of tow path, use Corded Remote to control winching. If required, wait until Motor stops before reversing direction.

- Be sure Synthetic Rope is winding evenly and tightly around Winch Drum.
- Avoid shock loads; keep Synthetic Rope under tension. This can damage components and vehicles.

12. 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.
13. Once Game is loaded onto machine, winching operation is complete.
14. Set Free Spooling Clutch to “OUT” to release tension on Synthetic Rope. Winch is not meant to hold loads for long periods of time.
15. Disconnect Synthetic Rope from anchor.
16. Set Free Spooling Clutch to “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.
17. Secure Hook Strap and Clevis Hook.

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SYNTHETIC ROPE MAINTENANCE:

- **Minimize abrasion:** Use movable Abrasion Sleeve whenever contact with rocks or other objects occurs. Slide Abrasion Sleeve up and down Synthetic Rope as required. Abrasion will reduce Synthetic Rope Life.
- **Keep clean:** Allowing dirt and debris to enter Synthetic Rope will lead to abrasion.
- **Avoid sharp bends:** A sharp bend will decrease Synthetic Ropes strength substantially under load and may cause damage or failure.

⚠WARNING *If Synthetic Rope has become worn or is beginning to show signs of breaking, replace immediately.* ***Replace with identical part number****. Refer to SuperATV Synthetic Rope instruction when installing.*

MAINTENANCE:

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

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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.

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If you have any problems/questions on this kit, contact us by email at Superatv.com.

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

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