

ACE WINCH KIT



P/N 2882105;2882106

APPLICATION

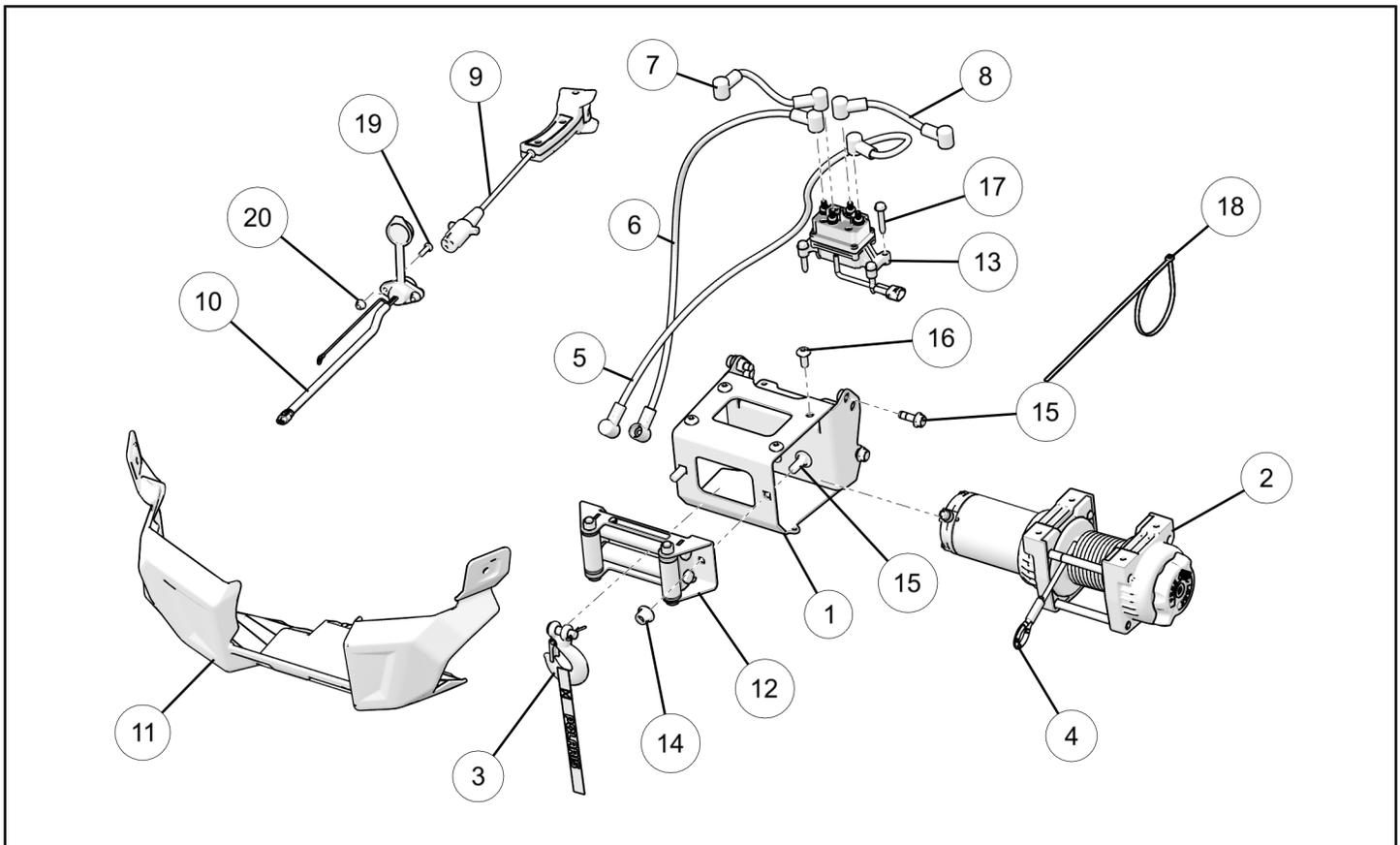
Verify accessory fitment at Polaris.com.

BEFORE YOU BEGIN

Read these instructions and check to be sure all parts and tools are accounted for. Please retain these installation instructions for future reference and parts ordering information.

KIT CONTENTS

Kit (PN 2882105) includes:

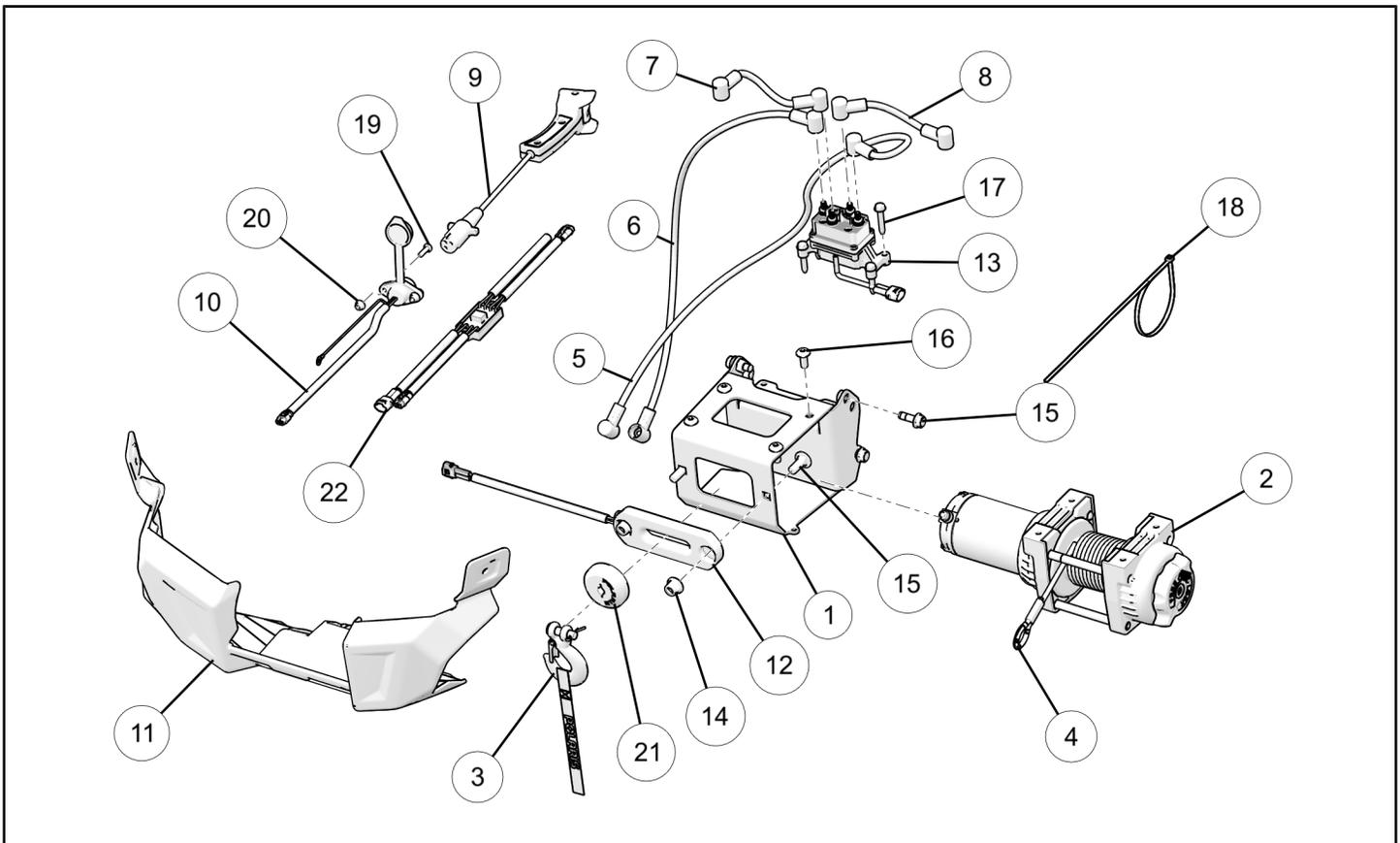


REF	QTY	PART DESCRIPTION	PART NUMBER
1	1	Winch Mount Bracket	1022610
2	1	Winch, POL2500, BT	2206563
3	1	Latch Hook	2411836
4	1	Winch Cable, Steel 3/16"	2413444
5	1	Winch Cable, Yellow 6 GA	4013468-750
6	1	Winch Cable, Blue 6 GA	4013469-665
7	1	Winch Power Cable, Black 6 GA	4013470-250
8	1	Winch, Power Cable, Red 6 GA	4013471-250

REF	QTY	PART DESCRIPTION	PART NUMBER
9	1	Remote Switch, Winch	4013466
10	1	Remote Winch Socket, Long	4014228
11	1	Winch Cover	5450852
12	1	Roller Fairlead	2411848
13	1	Contactora, Winch	4015095
14*	2	Nut - M10 X 1.5	-
15*	2	Screw - HXFL - M8 X 1.25 X 25	-
16*	4	Screw Torx® Head - M8 X 1.25 X 20	-
17*	4	Screw - 1/4-20 X 1.50 - HX/TAP-R, MAG	-
18*	5	Cable Ties	-
19*	2	Screw - M5 X 0.8 X 20	-
20*	2	Nut - M5 X 0.8	-
21*		Screw - RHCAR - M10 X 1.5 X 25	-
	1	Winch Guide	9923644
	1	Instructions	9928210
		Service Handle (includes freespool handle and screw)	2205265

Items marked (*) are included in Hardware Kit (PN 2205484).

Kit (PN 2882106) includes:



REF	QTY	PART DESCRIPTION	PART NUMBER
1	1	Winch Mount Bracket	1022610
2	1	Winch, POL2500, BT	2206563
3	1	Latch Hook	2411836
4	1	Winch Rope	2413444
5	1	Winch Cable, Yellow 6 GA	4013468-750
6	1	Winch Cable, Blue 6 GA	4013469-665
7	1	Winch Power Cable, Black 6 GA	4013470-250
8	1	Winch, Power Cable, Red 6 GA	4013471-250
9	1	Remote Switch, Winch	4013466
10	1	Remote Winch Socket, Long	4014228
11	1	Winch Cover	5450852
12	1	Autostop Fairlead	5140385
13	1	Contactora, Winch	4015095
14*	2	Nut - M10 X 1.5	-
15*	2	Screw - HXFL - M8 X 1.25 X 25	-
16*	4	Screw Torx® Head - M8 X 1.25 X 20	-
17*	4	Screw - 1/4-20 X 1.50 - HX/TAP-R, MAG	-
18*	5	Cable Ties	-
19*	2	Screw - M5 X 0.8 X 20	-
20*	2	Nut - M5 X 0.8	-
21*	2	Screw - RHCAR - M10 X 1.5 X 25	-
22	1	Stop Magnet, Bumper	5411587
23	1	Control Box, Fairlead	2413444
	1	Winch Guide	9923644
	1	Instructions	9928210
		Service Handle (includes freespool handle and screw)	2205265

Items marked (*) are included in Hardware Kit (PN 2205484).

TOOLS REQUIRED

- Safety Glasses
- Drill
- Drill Bit: 1/4"
- Hole Saw: 1"
- Socket Set, SAE
- Socket Set, Metric
- Screwdriver, Phillips
- Socket Set, Torx® Bit
- Pliers, Side Cutting

IMPORTANT

Your ACE WINCH KIT is exclusively designed for your vehicle. Please read the installation instructions thoroughly before beginning. Installation is easier if the vehicle is clean and free of debris. For your safety, and to ensure a satisfactory installation, perform all installation steps correctly in the sequence shown.

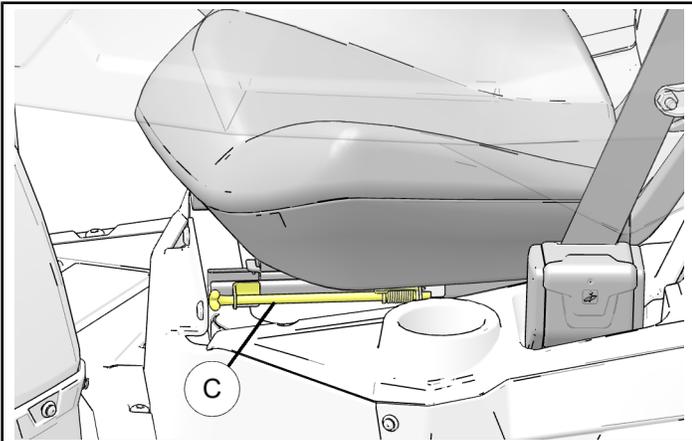
ASSEMBLY TIME

Approximately 1 hr.

INSTALLATION INSTRUCTIONS

PREPARATION

1. Shift vehicle transmission into "PARK". Turn key to "OFF" position and remove from vehicle.
2. Remove the seat by pushing and holding the seat adjuster lever **C** down. Slide the seat forward until removed from track guides to gain access to the battery.

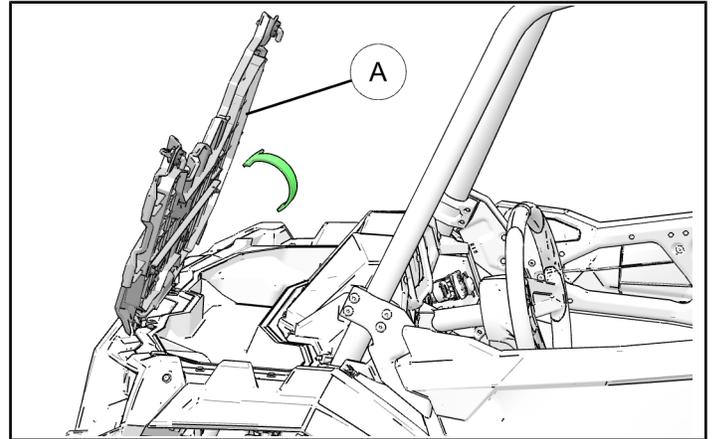
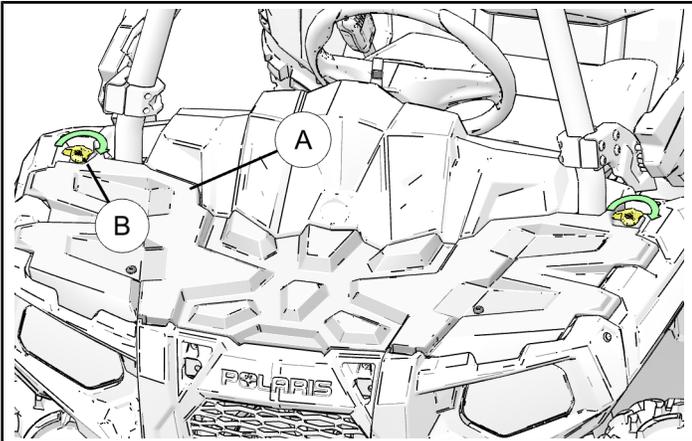


3. Disconnect black negative (-) cable from battery **FIRST**, then disconnect red positive (+) cable from battery.

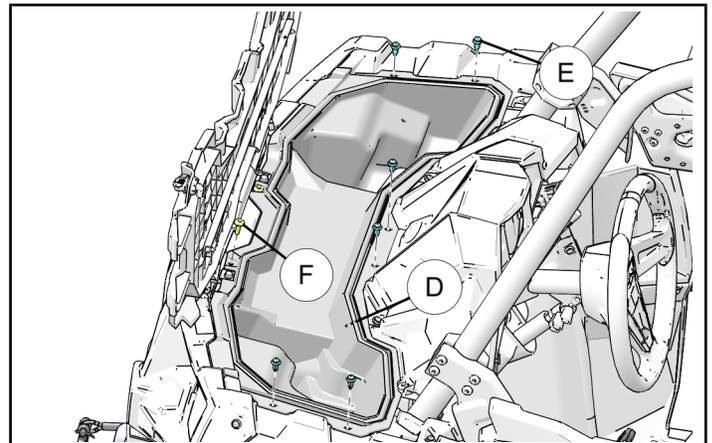
⚠ WARNING

ALWAYS disconnect black negative (-) cable from battery **FIRST**. Failure to do so will result in a high current electrical arc, and may result in battery explosion, if tool touches grounded frame. Death or serious personal injury may occur.

4. Rotate two latches **B** and open the front storage bin cover **A**.



5. Remove the front storage bin **D** by removing two screws **F** and six push pin rivets **E**.

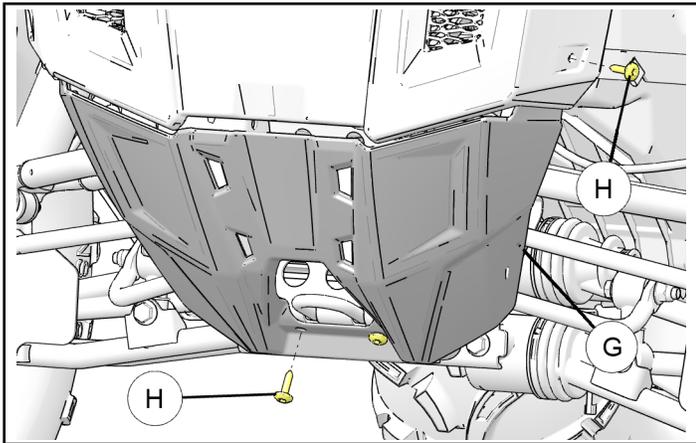


NOTE

Your vehicle's factory tool kit contains a plier specifically designed for the removal of push pin rivets. See photo below.



- Remove winch cover ⑥ from the vehicle by removing four screws ⑧. Retain screws for reinstalling the existing cover (900 XC models) or installing the new winch cover supplied in the kit (all other models).

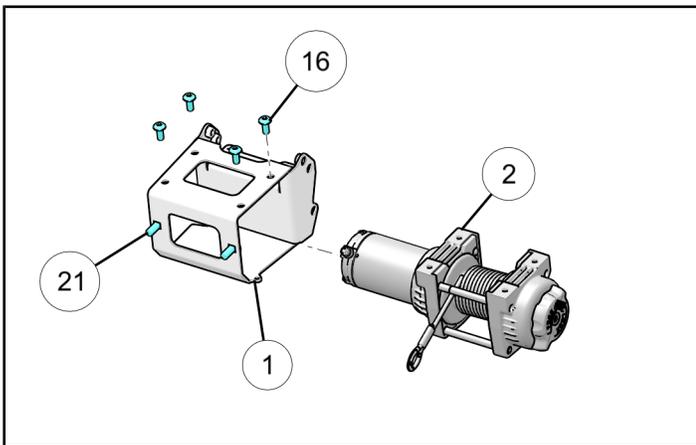


WINCH ASSEMBLY

- Place fairlead mounting carriage bolts ⑳ into winch bracket as shown. Assemble winch ② into mounting bracket ① as shown below using supplied screws ⑰ and torque to specification.

TORQUE

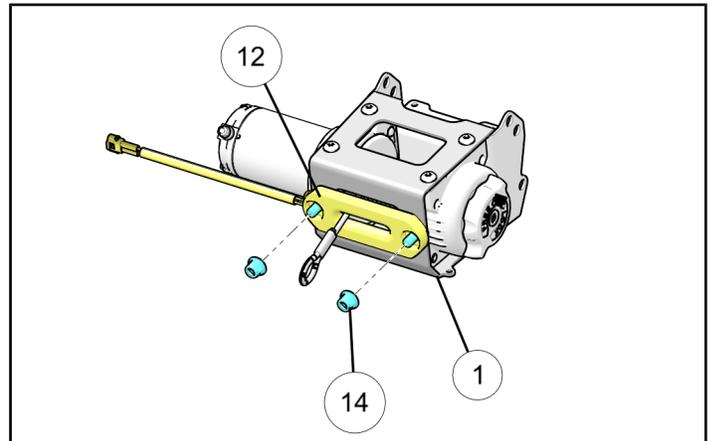
20 ft. lbs (27.1 Nm)



- Install the Fairlead ⑫ your kit came with (Autostop Fairlead shown) onto the winch bracket ① using supplied locking nuts ⑭ and torque to specification.

TORQUE

20 ft. lbs (27.1 Nm)



WINCH INSTALLATION

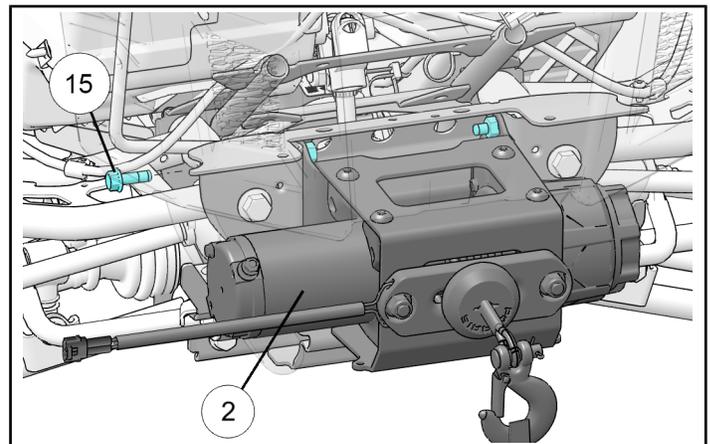
NOTE

See the Electrical Connections Reference Guide portion of the instruction manual for detailed photos of each part and their respective connections.

- Install winch mounting bracket with pre-assembled winch ② to the chassis frame using four screws ⑲ as shown. Torque screws to specification.

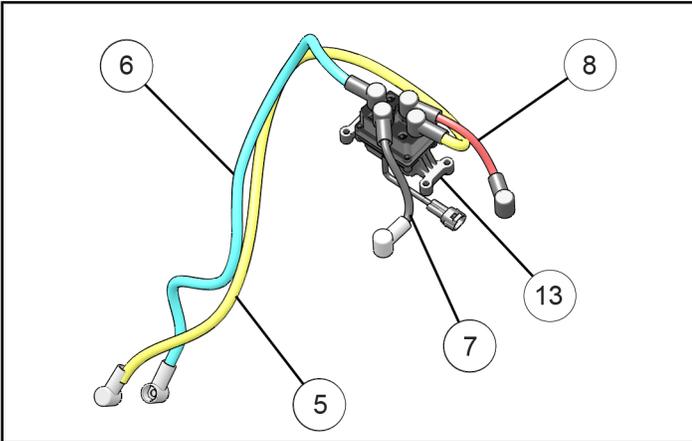
TORQUE

20 ft. lbs (27.1 Nm)

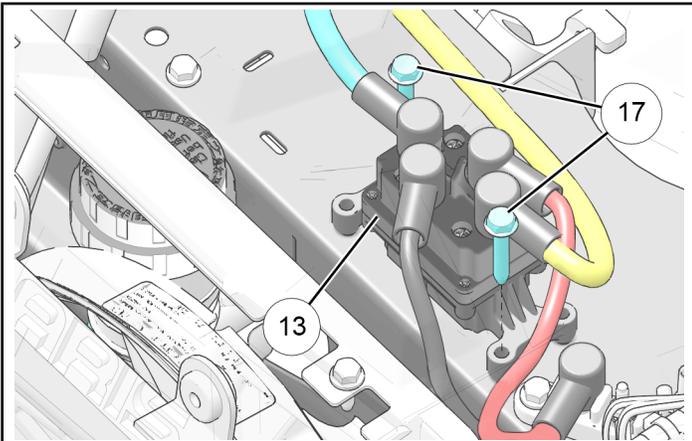


CONTACTOR INSTALLATION

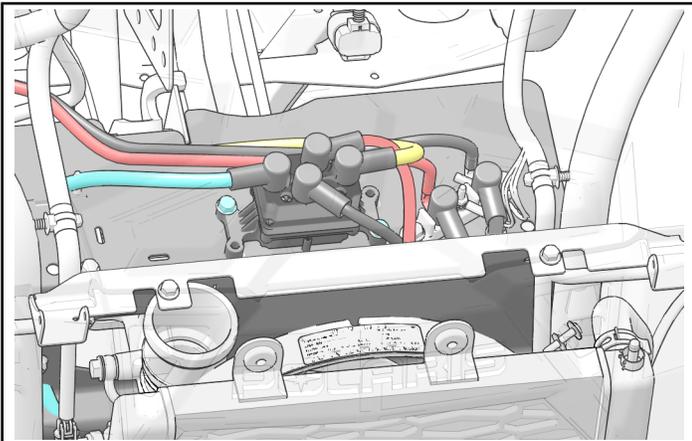
1. Connect red cable ⑧ and black cable ⑦ to the corresponding colored posts on contactor. Similarly, connect yellow cable ⑤ and blue cable ⑥ to the colored posts on contactor as shown.



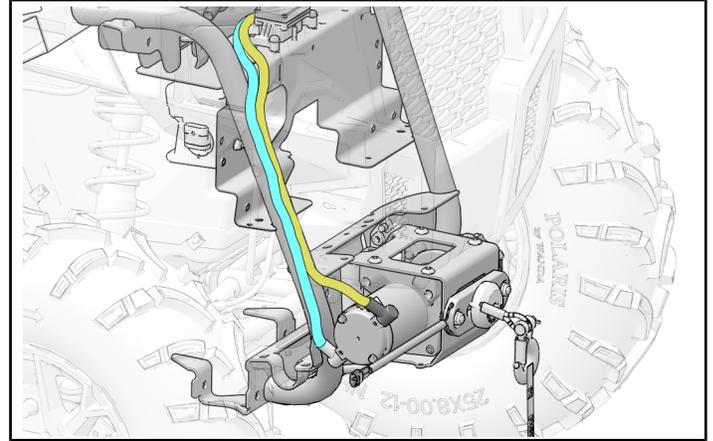
2. Place the contactor ⑬ along with cables installed on the bracket as shown. Contactor mounting bracket holes are not threaded. You will need to thread the holes by running the self tapping screws ⑰ in from the top as shown.



3. Connect short red and black cables to the vehicle bus bar on same posts as the battery red and black cables are connected.

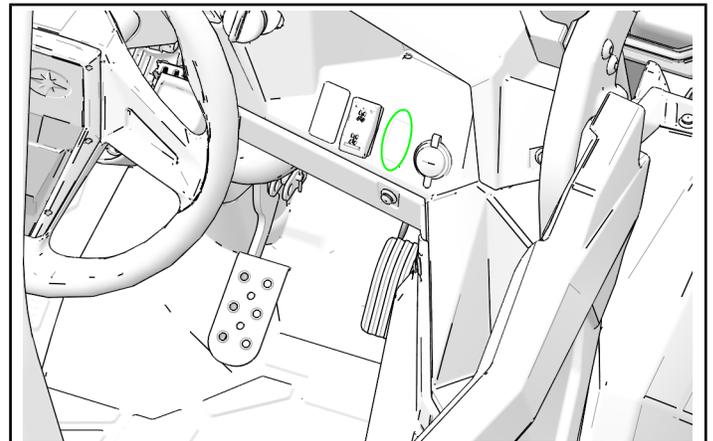


4. Route the yellow and blue cables on right side of the vehicle down to the winch as shown. Hook the cables to the corresponding colored posts on winch. Slide the black rubber boots on yellow and blue cables.

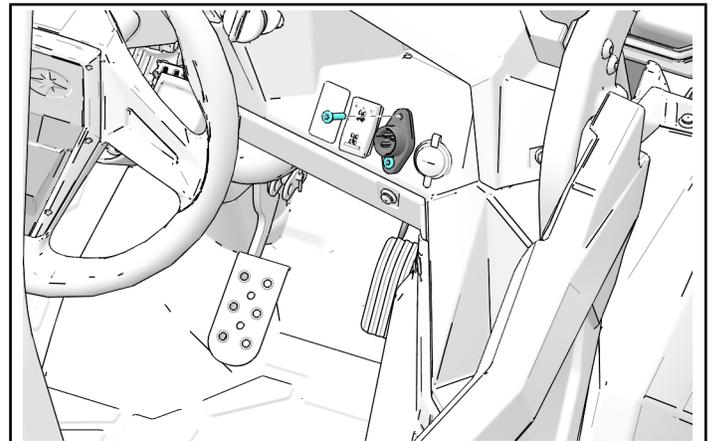


REMOTE SOCKET INSTALLATION

1. Cut out the template on the last page of your instruction manual.
2. Place the template in the location shown below. Mark and drill the mounting holes.



3. After drilling mounting holes insert the remote socket into the holes and fasten with the supplied screws.



4. Route the main remote socket wire to the winch contactor and connect as shown in the Electrical connections Reference guide. Route the red power wire to the vehicle bus bar and connect to the positive terminal.
5. Secure wires using supplied cable ties.

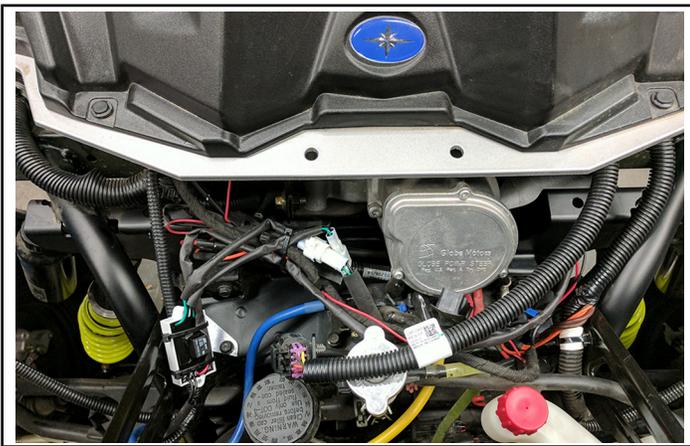
CONTROL BOX INSTALLATION

(Kit PN 2882106 ONLY)

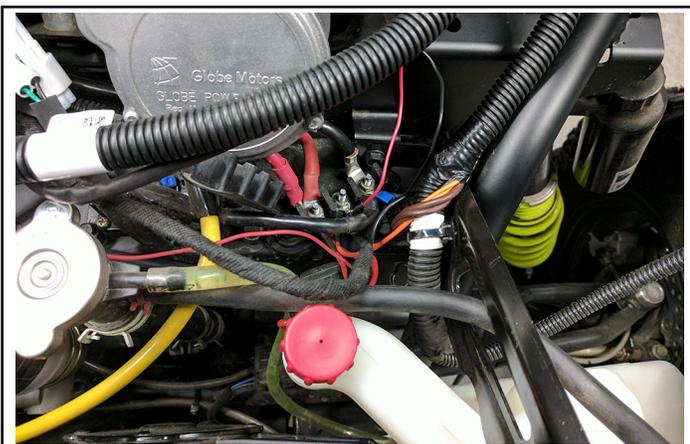
NOTE

This section is only for models with the Autostop feature. For all other models ignore this section.

1. Position control box ② on the right side of the vehicle behind the radiator and fasten with supplied cable ties as shown. Connect white electrical connectors for the control box as seen in the top photo of the Electrical Connections Reference Guide section of your instructions.



2. Route power wires from control box to bus bar and connect red (or orange depending on the date your accessory kit was built) power wire from control box to orange, keyed power terminal on the vehicles bus bar. Route black wires from control box ② to black (ground) terminal area on bus bar.



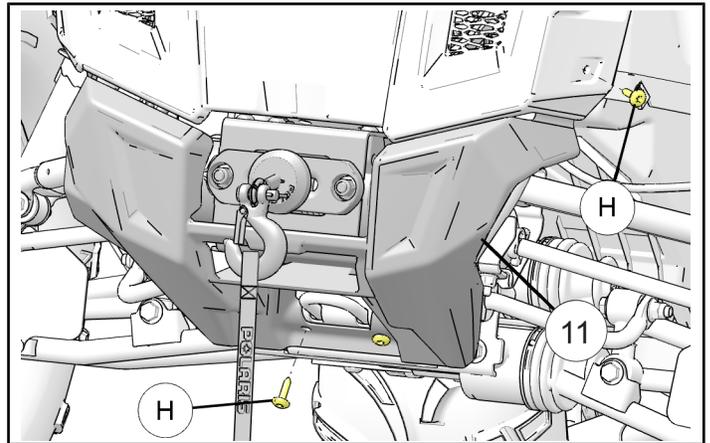
3. Secure all remaining wires to the to the vehicle at this time using supplied cable ties.

FINAL INSPECTION

1. Confirm that all wiring is correct.
2. Confirm that there are no exposed wires or terminals.
3. All loose wires need to be secured away from moving parts and heat sources.

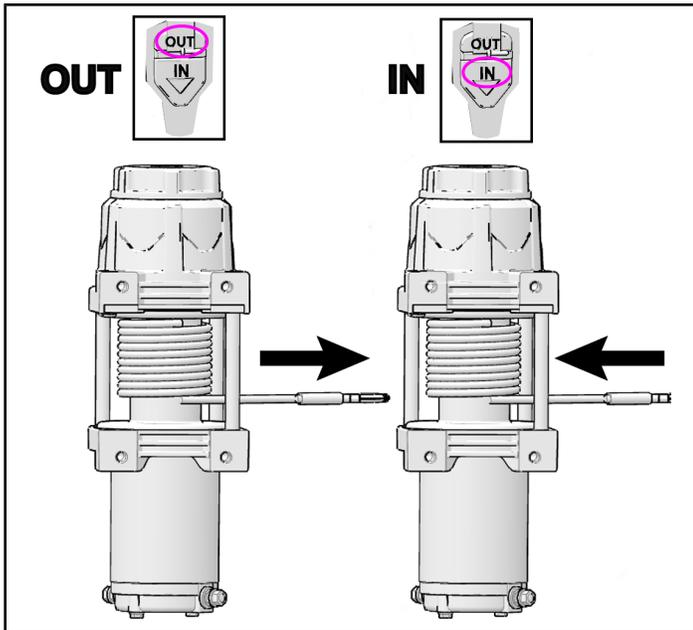
REINSTALLATION

1. Reinstall the winch cover ⑪ that was previously removed (900 XC models) or install the new winch cover that was supplied with your kit onto the vehicle using four screws ⑧ as shown.



2. Reinstall the front storage bin ① using retained screws ② and plastic darts ③.
3. Close the front storage bin cover ④.
4. Reinstall the battery red (positive) and black (negative) cables using original hardware.
5. Reinstall the driver seat onto the vehicle.
6. With the vehicle key in the ON position, check winch for proper operation.

- For Kit PN 2882106, test the function of Autostop feature. Using the remote winch switch reel in the winch rope and confirm that the winch will turn off automatically when the black rubber puck reaches the aluminum fairlead. The winch should not allow the rope to be reeled in once the black rubber puck has come within a close proximity (typically 1" or less) or made contact to the fairlead. If the Autostop is not functioning properly, see troubleshooting information at the end of the instructions.



AUTOSTOP OPERATION

The Autostop system is meant to help prevent damage to the winch system from over-tightening of the rope, but is not meant to prevent all foreseeable winch damage. The winch system is very powerful and care should be exercised whenever it is in operation. The winch operator is always responsible for using the winch properly and the Autostop system should only be used as a secondary preventive measure to help prevent damage to the winch from over-tightening the rope.

The Autostop system works when the black rubber puck nears the aluminum fairlead. Stop magnets in the puck trigger sensors in the fairlead which prevent the winch from pulling in the rope any further.

During final inspection, confirm that the Autostop is functioning properly. Troubleshooting steps are given in that section to help diagnose and correct any problems.

GEAR SELECTION

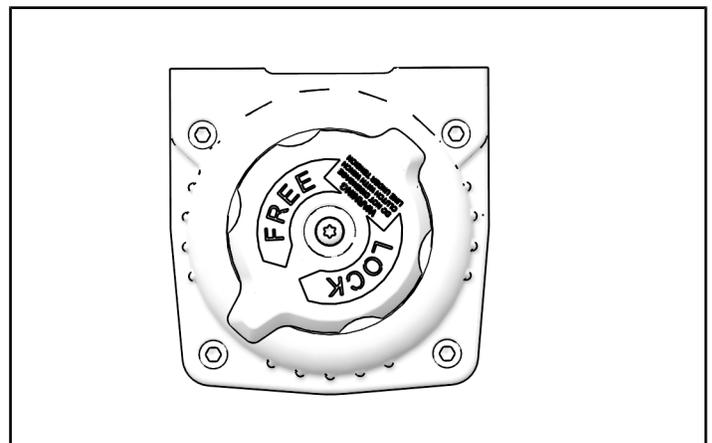
⚠ WARNING

Attempting to shift the winch while the rope is under tension is dangerous and can result in injuries or death. Make sure the winch rope is not in tension before shifting the winch between gears.

Your winch is equipped with two different gear settings. It will either be in the "LOCK" position or the "FREE" position.

The free position is designed to allow you to "free-spool" the winch when you want to pull the rope or cable out faster than what it would allow while in the lock position.

To shift between the free position and the lock position simply turn the shifting knob located on the side of the winch either clockwise or counter-clockwise depending on the desired mode.



TROUBLESHOOTING

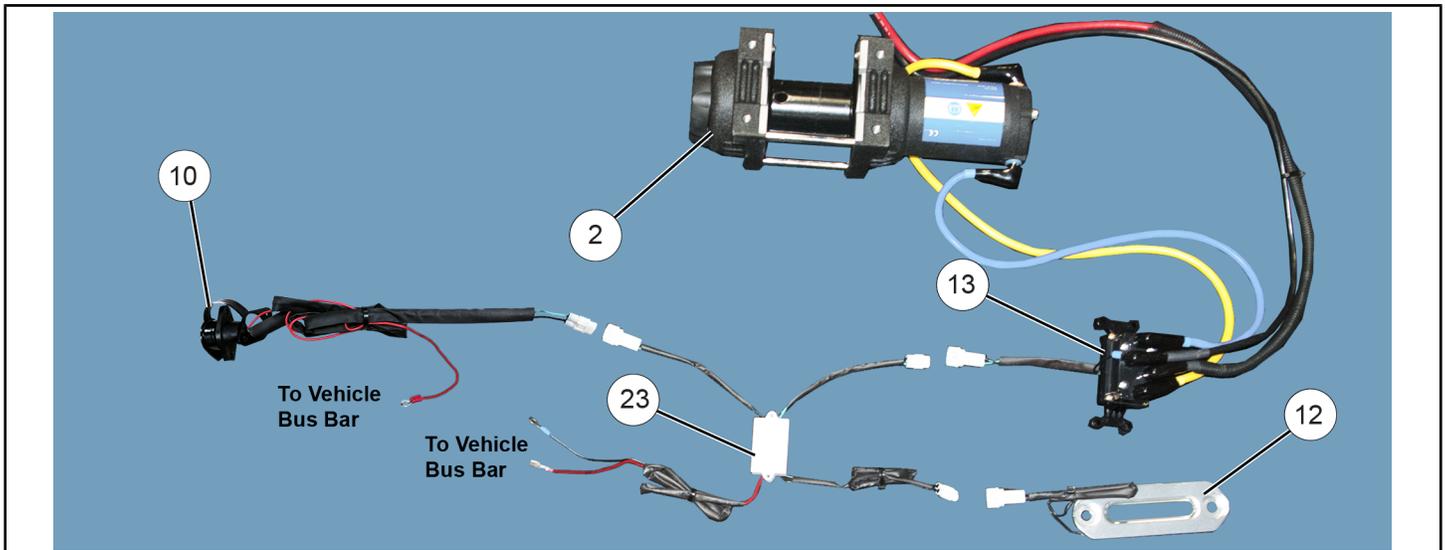
If your winch/Autostop is not functioning properly, below is a short guide that can help you diagnose and correct the problem.

SYMPTOM	POSSIBLE CAUSES	RECOMMENDED SOLUTION
Dead Vehicle Battery	Check that all power wires are connected to the correct terminals per your instruction manual and not drawing any current while the vehicle sits for longer periods of time.	Rewire to ensure wiring is connected properly per instructions.
Winch will not operate	Contactors not receiving power	Turn vehicle key on.
	Wireless remote not powered on	Turn wireless remote on.
	Connections between components not in proper order	Check connections. Connect wired handlebar switch connection from vehicle main wire harness directly to contactor to make sure a direct connection will operate the winch. If connections are not in the order shown on the pictures in the last page, the whole system may not function or only certain parts of it will function.
Winch operates in one direction only	Keyed power circuit (orange wires) not properly powered	Check fusebox for 10A accessory circuit. Check voltage in certain places, especially orange wires coming out of the main harness by the steering post.
	Autostop fairlead not connected properly	Check connections. If winch operates only outward, check that the black rubber puck is not touching the aluminum fairlead. If winch operates inward even when puck is touching fairlead, check connections of the Autostop control box. If winch operates inward but not outward when rubber puck is touching fairlead, check color of wires at connectors to make sure they match on both sides of the connection (in case two wires have been switched in the connector).
Winch makes noise but rope does not move	Contactors powered, but not winch	If you can hear a clicking sound when you press the winch control but the winch does not make any sounds, check the connections between the winch and the contactor. If the winch makes noise but does not move, check that the winch is in gear. If the winch is in gear and the winch does not move, have a dealer inspect the winch.

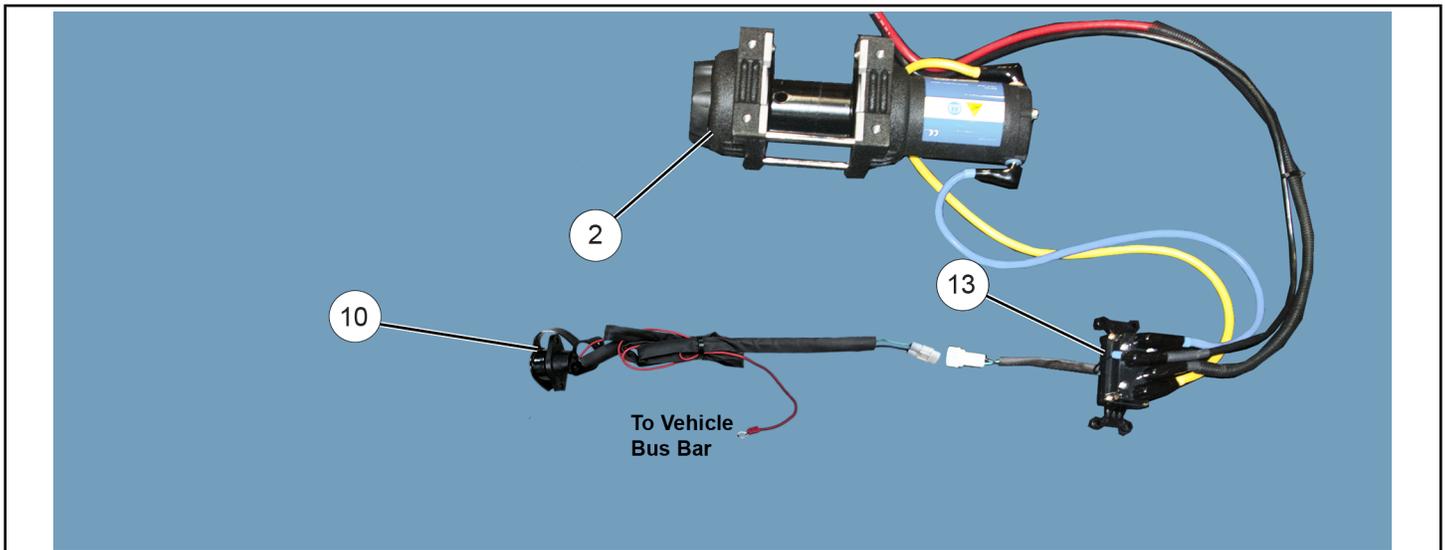
SYMPTOM	POSSIBLE CAUSES	RECOMMENDED SOLUTION
Winch makes noise but rope does not move	Winch not in proper gear	Rotate gear knob fully into L or H, then recheck.
Winch operates too slowly	Winch in wrong gear	Rotate gear knob into proper gear, then recheck.
	Winch improperly loaded	The winch, by design, operates slowly in Low gear. In High (Rapid Recovery), the winch operates quickly but can be slowed if there is a load on the rope or if the rope is bound up inside the spool area. Check that the winch is clear and the rope is not bound up and that there is no load pulling on the rope.
Winch will not change gears	Rope is still under load	The gears are purposely hard to shift when a load is on the rope to prevent accidental operation, which could lead to winch failure or personal injury. Make sure the rope has no load in tension, then check that the rope is not bunched up and bound inside the spool area. Operate the winch for a short period, then attempt to shift again.

ELECTRICAL CONNECTIONS REFERENCE GUIDE

Winch with auto fairlead and remote socket switch.



Winch with roller fairlead and remote socket switch.



FEEDBACK FORM

A feedback form has been created for the installer to provide any comments, questions or concerns about the installation instructions. The form is viewable on mobile devices by scanning the QR code or by clicking [HERE](#) if viewing on a PC.

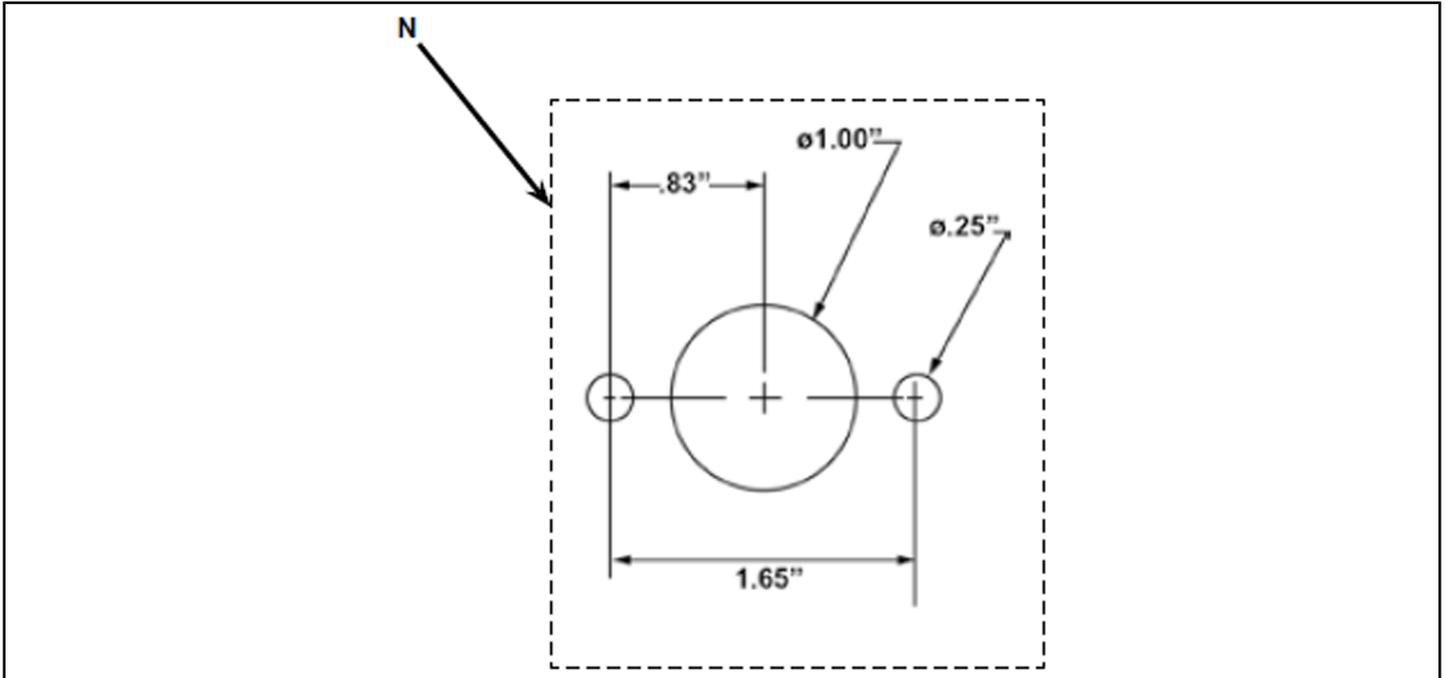
FEEDBACK FORM



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TEMPLATE

Cut Along Dotted Line(N)



Measure the template after printing to make sure the template has printed correctly.