

POLARIS® PRO HD 4500 WINCH KIT



P/N 2882239

APPLICATION

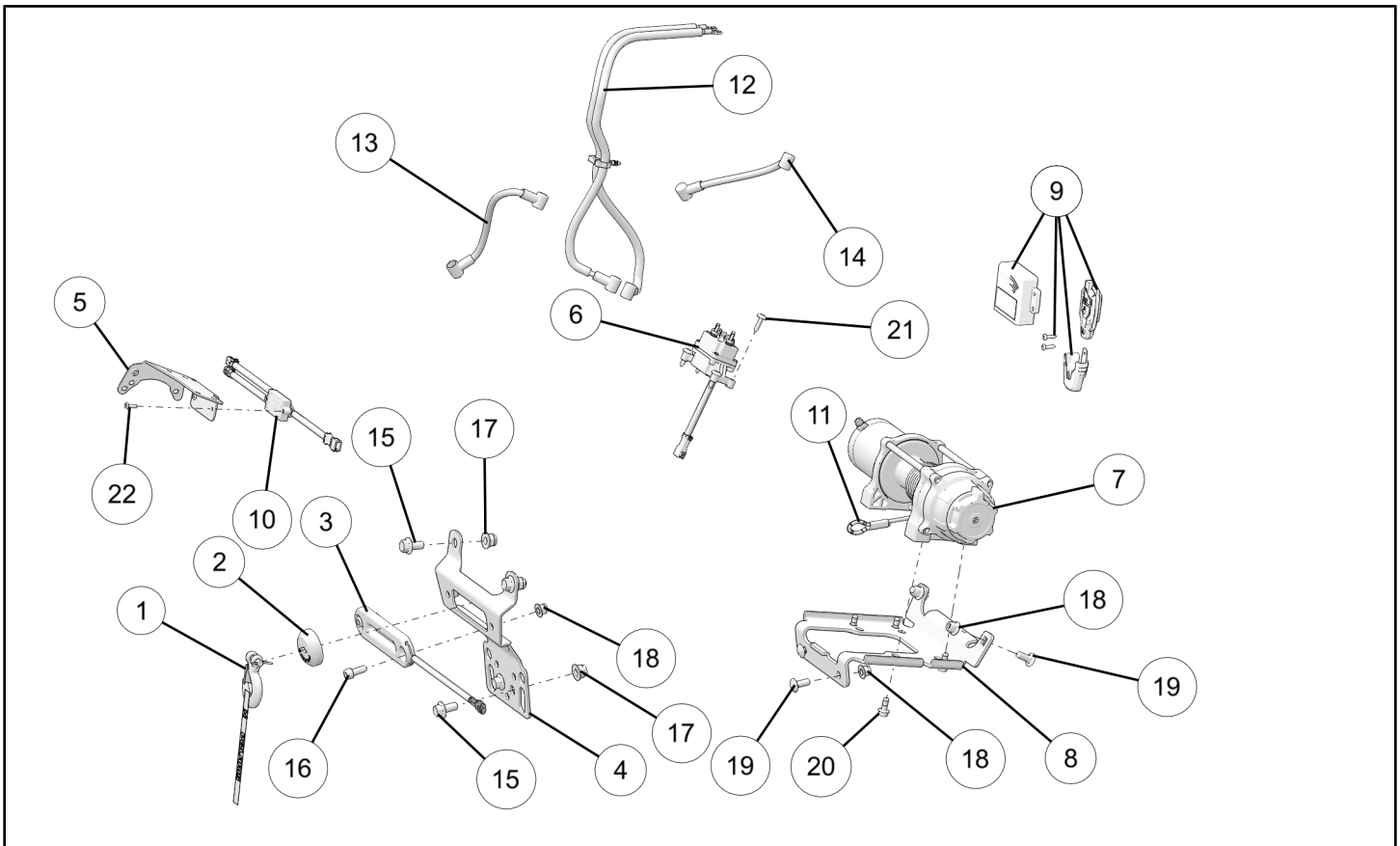
Verify accessory fitment at Polaris.com.

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

This Kit includes:



REF	QTY	PART DESCRIPTION	PART NUMBER
1	1	Hook-Latch, Winch	2411836
2	1	Stop-Magnet	**
3	1	Auto-Stop Fairlead	**
4	1	Fairlead Mount Bracket	5258106
5	1	Contactor Mount Bracket	-
6	1	Contactor Assembly	4015600
7	1	Winch Assembly	2206382
8	1	Winch Mounting Bracket	-

REF	QTY	PART DESCRIPTION	PART NUMBER
9	1	Wireless Remote Kit	2881287
10	1	Control Box, Hawse Fairlead	**
11	1	Winch Rope	2879187
12	1	Power Cables, Contactor to Terminal Block	4015748
13	1	Winch Cable, Blue, 270mm	4013469-270WC
14	1	Winch Cable, Yellow, 270mm	4013468-270WC
15*	4	Screw-HXFL-M12 X 1.75 X 25	-
16*	2	Screw-M10 X 1.5 X 25	-
17*	4	Nut-HXFL-M12 X 1.75	-
18*	6	Nut-M10 X 1.5	-
19*	4	Screw-RHCAR-M10 X 1.5 X 25	-
20*	4	Screw-HXFL-M8 X 1.25 X 20	-
21	4	Screw-TXTH, M6X1.0X25	7519650
22	2	Screw-10X5/8	7518238
	1	Winching Guide	9923644
	1	Instructions	9927472
		Service Handle (includes freespool handle and screw)	2205265

Items marked (*) are included in Hardware Kit PN 2206301 .

Items marked (**) are included in Autostop Kit PN 2881288 .

TOOLS REQUIRED

- Safety Glasses
- Socket Set, Metric
- Socket Set, SAE
- Drill and Drill Bit Set
- Phillips Screwdriver
- Torx® Drivers

IMPORTANT

Your POLARIS® PRO HD 4500 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.

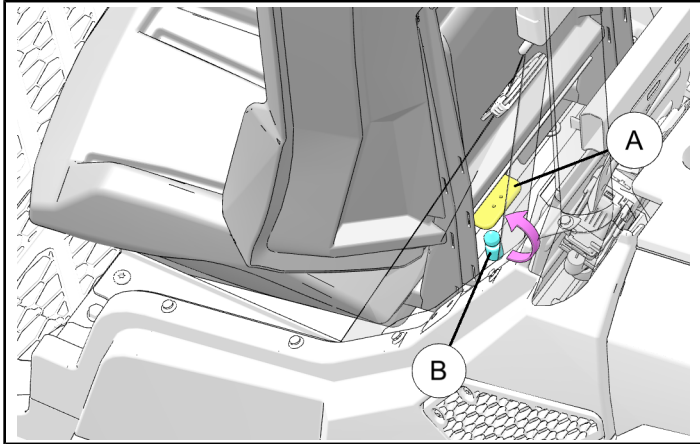
ASSEMBLY TIME

Approximately 45 minutes

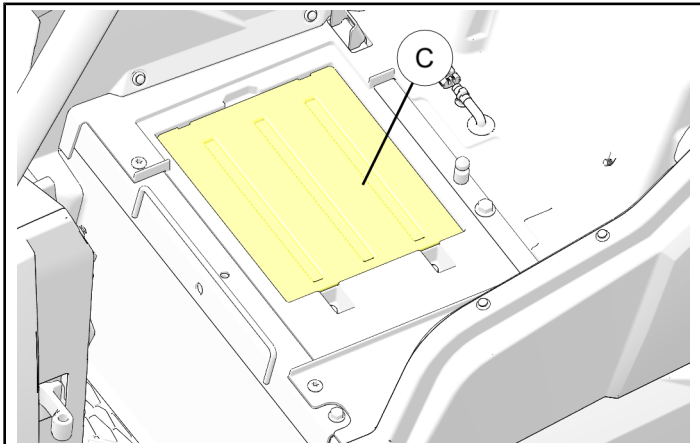
INSTALLATION INSTRUCTIONS

PREPARATION

1. Shift vehicle transmission into "PARK". Turn key to "OFF" position and remove from vehicle.
2. Lift the seat latch (A) upwards to disengage seat from plunger (B) located behind seat bottom and remove the driver seat.



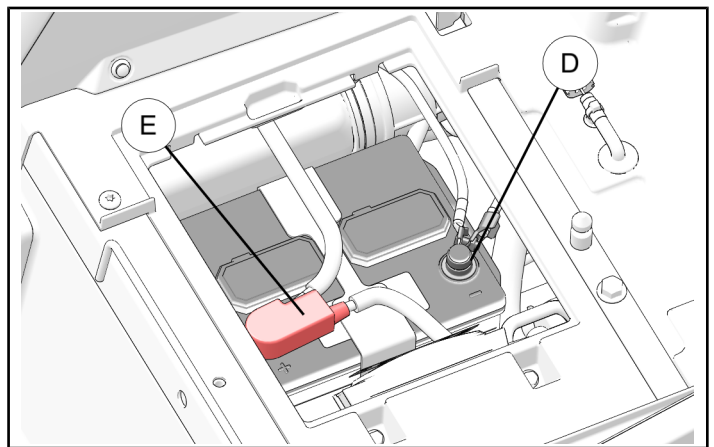
3. Remove battery access panel (C) to access the battery terminals.



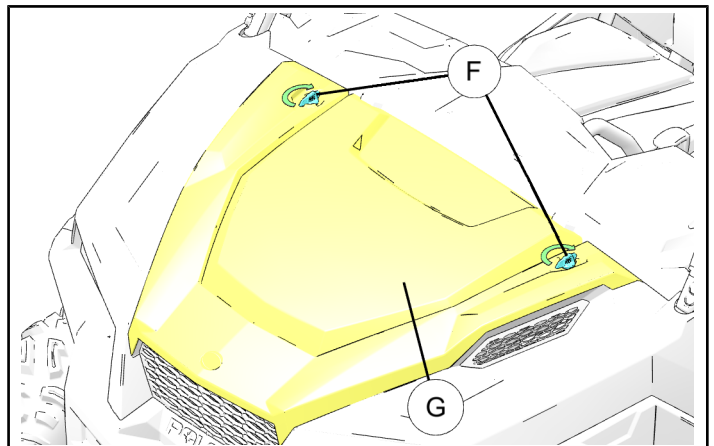
4. Disconnect the black negative cable (D) **FIRST** and then red positive cable (E) from the battery.

⚠ WARNING

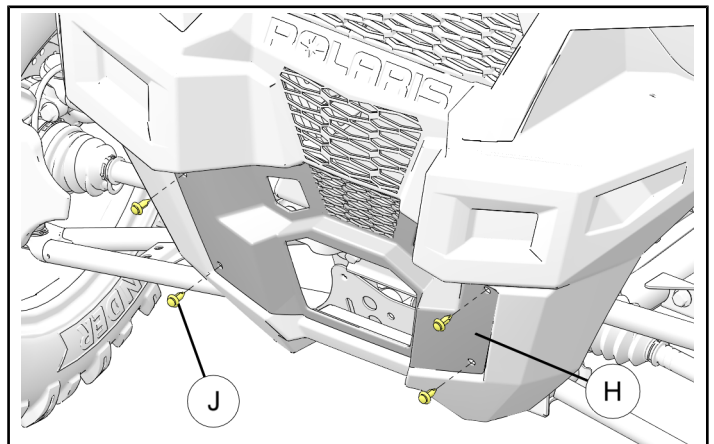
ALWAYS disconnect black negative (-) cable from battery **FIRST**. Failure to do so will result in a high current electrical arc, and may result in battery explosion, if tool touches grounded frame. Death or serious personal injury may occur.



5. Rotate two latches (F) to release the hood (G) from vehicle. Pull the hood forward and up to remove from vehicle.



6. Remove lower front fascia (H) by removing four push rivets (J).

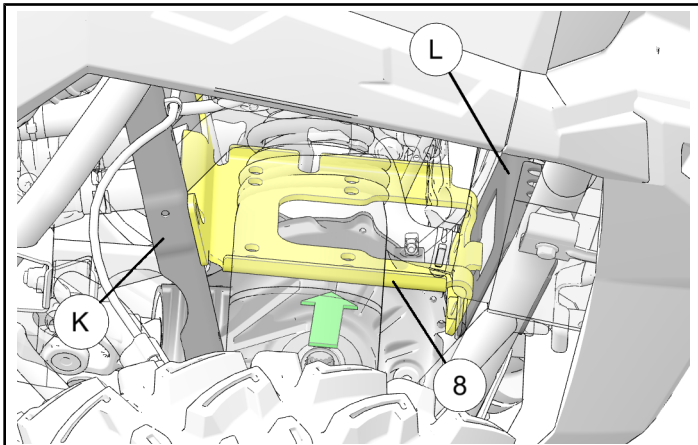


WINCH INSTALLATION

NOTE

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

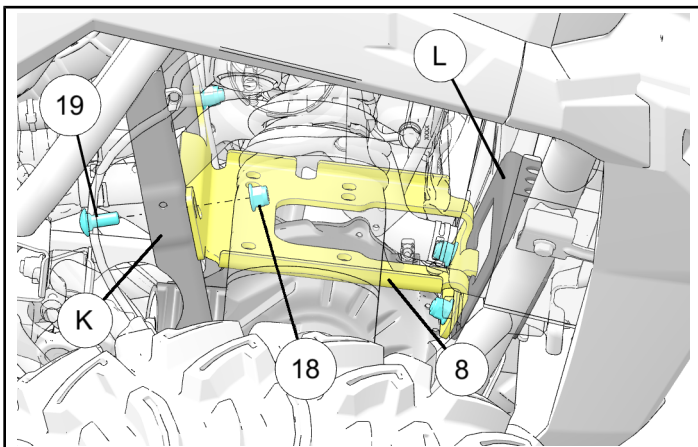
1. Slide winch mounting bracket ⑤ into position from the passenger side as shown. Orient and align winch mounting bracket ⑧ to front suspension bracket ① and steering bracket ② as shown.



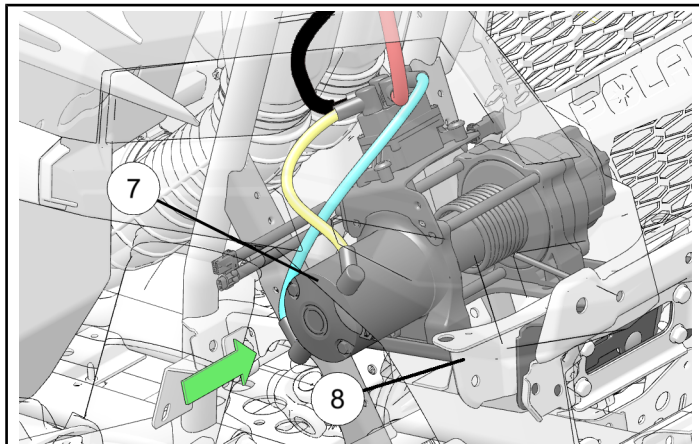
2. Install winch mounting bracket ⑧ onto the front suspension bracket ① and steering bracket ② with four screws ③ and lock nuts ④ as shown. Torque fasteners to below specification.

TORQUE

20 ft. lbs. (21.7 Nm)



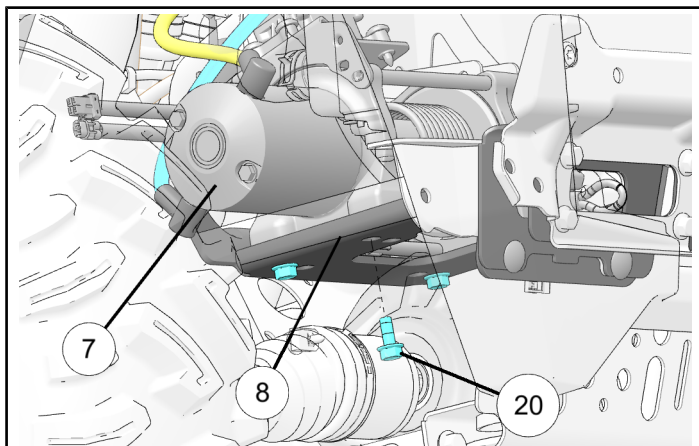
3. Slide and position winch assembly ⑦ onto the winch mounting bracket ⑧ as shown. Ensure mounting holes on winch assembly and mounting brackets are aligned.



4. Install winch ⑦ to winch mounting bracket ⑧ using four screws ⑤. Torque fasteners to below specification.

TORQUE

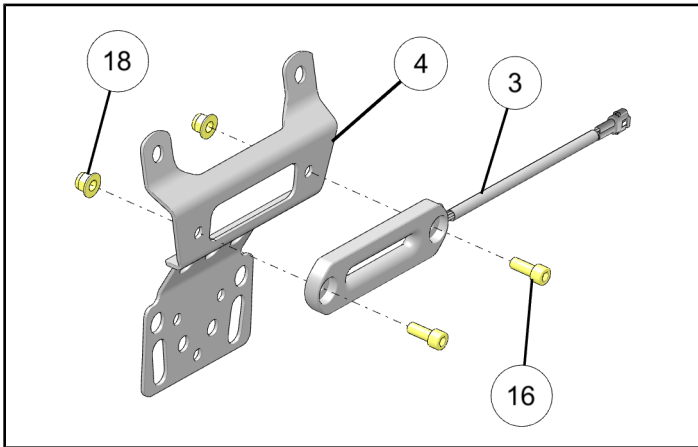
20 ft. lbs. (21.7 Nm)



5. Install Autostop fairlead ③ to fairlead mount bracket ④ using two screws ⑬ and nuts ⑱.

TORQUE

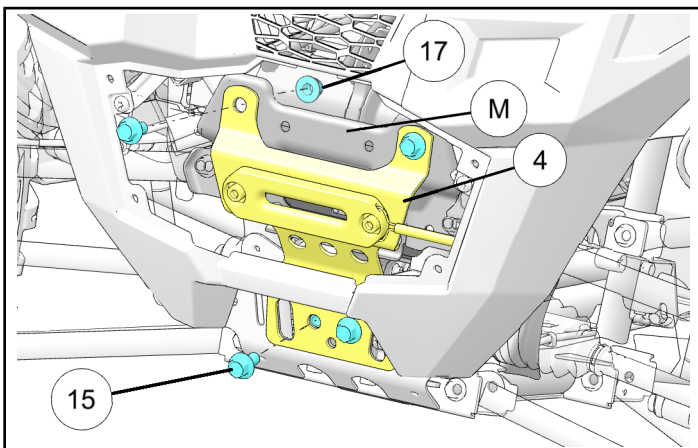
16ft. lbs. (21.7 Nm)



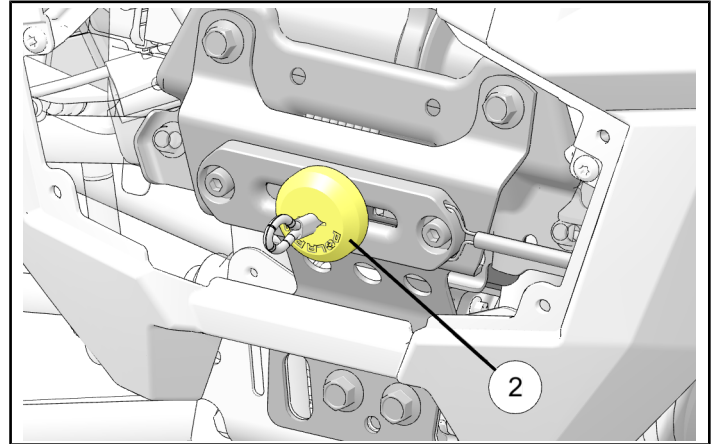
6. Install fairlead mount bracket ④ with autostop fairlead to suspension bracket (M) with four bolts ⑮ and nuts ⑲ as shown.

TORQUE

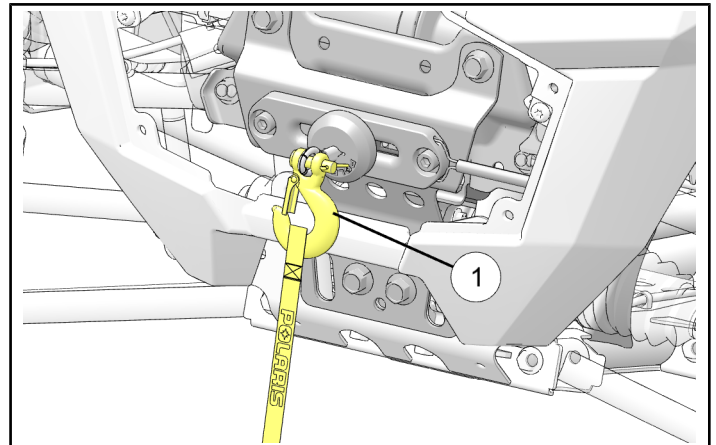
20 ft. lbs. (21.7 Nm)



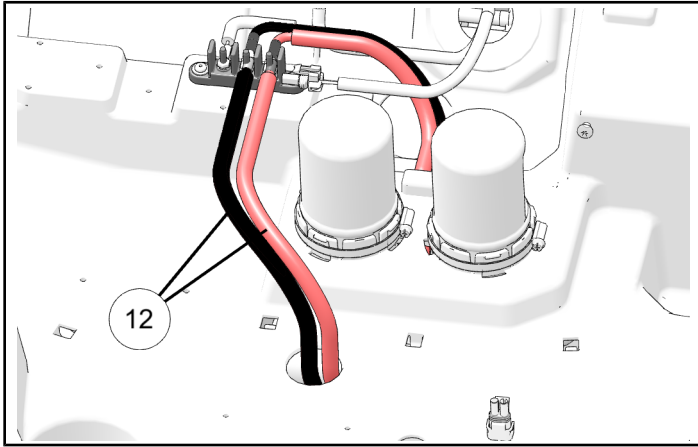
7. Pull rope 6-12" out through fairlead and twist knob again to re-lock spool. Thread rope through rubber stop magnet ②, making sure that the tapered edge with the embossed "Polaris" logo is facing forward as shown. **HINT:** Attach a plastic cable tie to the end of the rope and feed the cable tie through the rubber stop. Use a little wax or other mild lubricant on the rubber stop and pull the rope through the rubber stop using the plastic cable tie.



8. Install hook ① to the rope by inserting clevis pin through hook and rope and securing with a cotter pin.

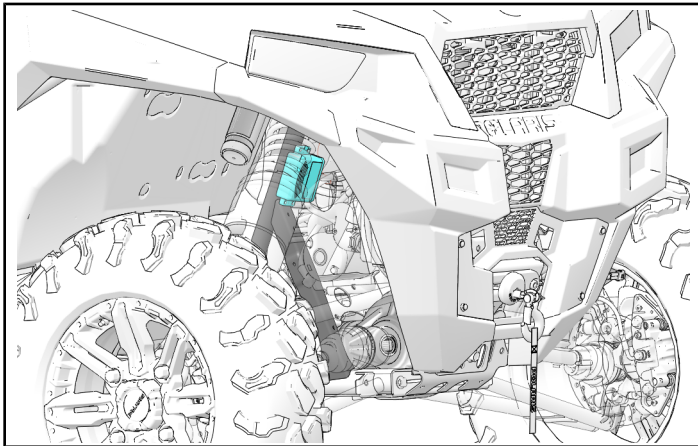


- Route winch power cables ⑫ (red and black) from winch assembly to the bus bar terminals as shown. Install winch power cables ⑫ to bus bar terminals. Match the color of the wires you install to the color of the wires already installed.



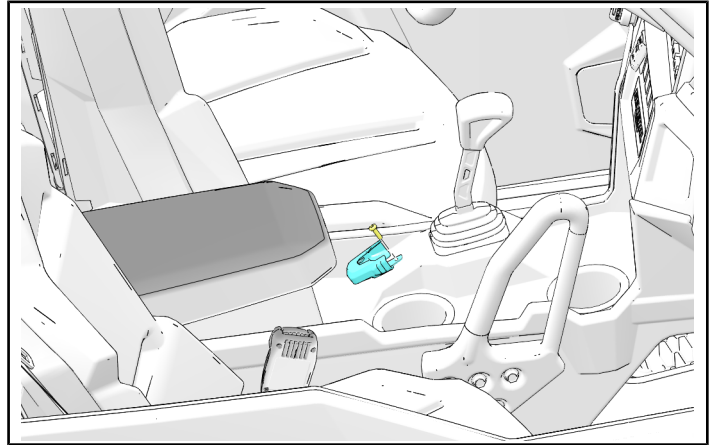
WIRELESS REMOTE RECEIVER INSTALLATION

- Wireless remote receiver should be secured to the chassis in the location shown below with power/control wires facing towards the center of the vehicle using the supplied cable ties. Connect wire harness from remote receiver to wires on Autostop control. Refer to the Electrical Connections Reference Guide for an illustration of proper connections.



WIRELESS REMOTE HOLDER INSTALLATION

- The wireless remote holder can be installed in desired location on vehicle using the screws supplied in the wireless remote kit. See image below for possible mounting location.



FINAL INSPECTION

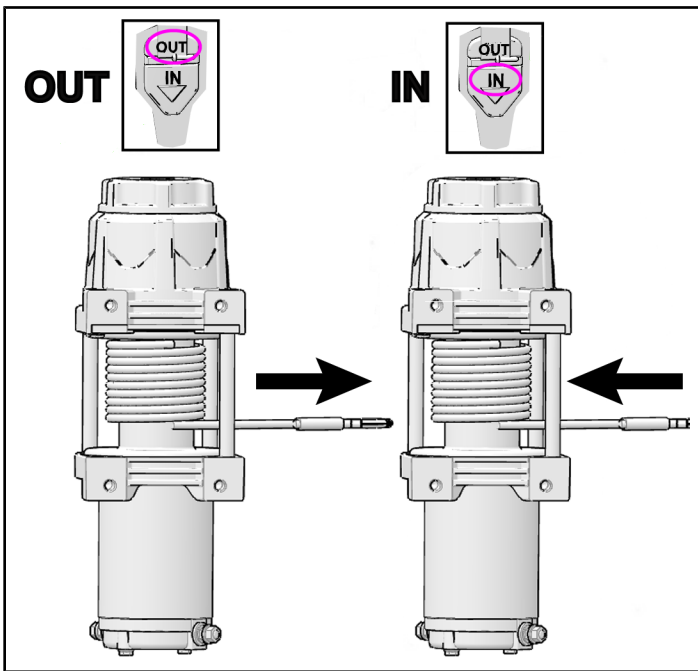
- Confirm that all wiring is correct.
- Confirm that there are no exposed wires or terminals.
- All loose wires need to be secured away from moving parts and heat sources.

REINSTALLATION

- Reinstall lower front fascia ⑧ using push rivets ①.
- Reinstall the hood ⑥ onto the vehicle.
- Reconnect the red positive ⑤ and black negative ④ wires to the battery.
- Reinstall the battery access panel ③.
- Reinstall the seat onto vehicle.

WIRELESS REMOTE OPERATION

- When properly installed, the wireless remote will allow you to operate the winch from off the vehicle, which can be a safe way to operate the winch when done properly.
- To use the wireless remote, hold the small "On/Off" button for three seconds or until the LED light on the remote turns on. If the vehicle is on so that the winch is receiving power, the wireless remote should operate the winch as if you were using the winch switch ① located on the handlebar. If the remote is not operating properly, see the troubleshooting information at the end of the instructions.
- The remote will automatically turn itself off after 30 seconds of inactivity. You will therefore need to turn the remote back on if it has been more than 30 seconds since prior use.
- To manually turn off the remote, hold the small "On/Off" button for 3 seconds or until the LED light turns off.
- See the illustration below for proper wireless remote operation.



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. 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 ③. Stop magnets ② in the puck trigger sensors in the fairlead, which prevent the contactor from pulling in the winch rope any further.

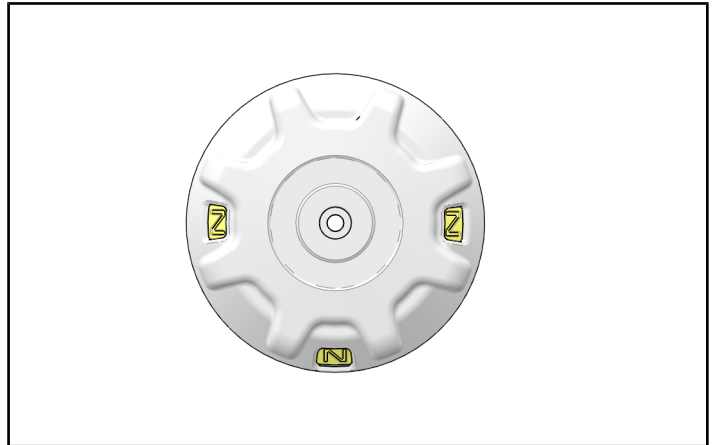
During final inspection, confirm that the Autostop is functioning properly. Troubleshooting steps are given in that section to help diagnose and correct any problems.

GEAR SELECTION

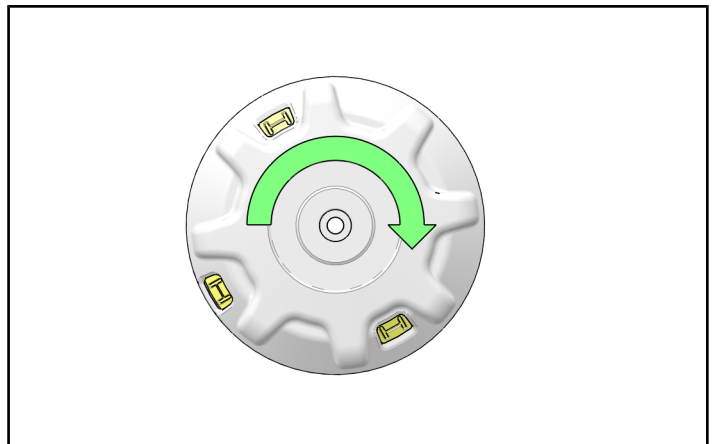
⚠ WARNING

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 three different gear settings. High, Neutral and Low. When in neutral the "N" marking will show thru the cutout window on the shift knob. See photo below.



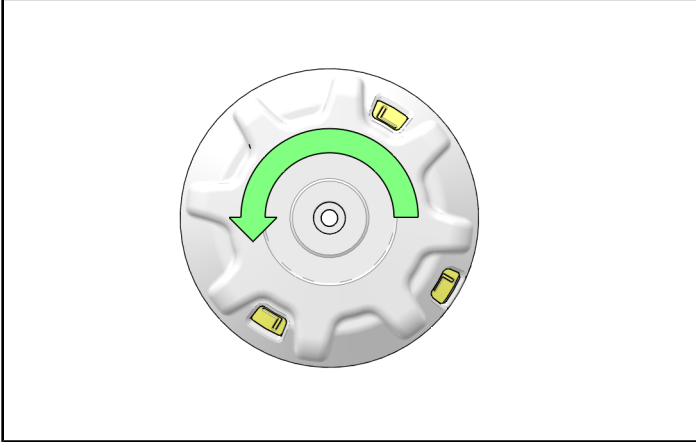
The high gear setting is meant for rapid recovery mode only and should not be used while the rope is under load. To shift into high gear, rotate the gear shifting knob clockwise until the "H" marking shows thru the cutout window on the shift knob. See photo below.



NOTE

High gear is for rapid recovery of the winch rope only. It is not intended for pulling and will reduce the life of the winch if used under load.

To shift into low, rotate the gear shifting knob counter-clockwise until the “L” marking shows thru the cutout window on the shift knob. See photo below.



RAPID RECOVERY WINCH FUNCTION

NOTE

Rapid Recovery is for recovering the winch rope only. It is not intended for pulling and will reduce the life of the winch if used under load.

Your winch is equipped to quickly reel in the winch rope when being used under no-load conditions. Using this feature will significantly reduce the time it takes to rewind your rope after use.

When to use

Use Rapid Recovery to quickly reel the rope in or out to speed up the recovery process. The rope speed is approximately five times the speed of standard operation, so caution should be taken to always reset the winch to “Low” gear after using the Rapid Recovery so the speed of the winch will not take the operator by surprise. Do not pull loads while in Rapid Recovery gear.

How to shift

To operate the Rapid Recovery, make sure the winch is not in operation and the rope is not in tension. Rotate the shift knob fully clockwise to engage “High” gear (Rapid Recovery). Pulling slightly on the winch rope by hand will help the gears align and the shift to be completed. Use Rapid Recovery only to reel in the rope with “No Load”, then rotate the shift knob back to “Low” gear (standard operating mode) by rotating the knob back fully counter-clockwise.

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.

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.



ELECTRICAL CONNECTION REFERENCE GUIDE

Winch with auto fairlead and wireless remote

