

RANGER XP 900 4500 WINCH KIT



P/N 2881667

APPLICATION

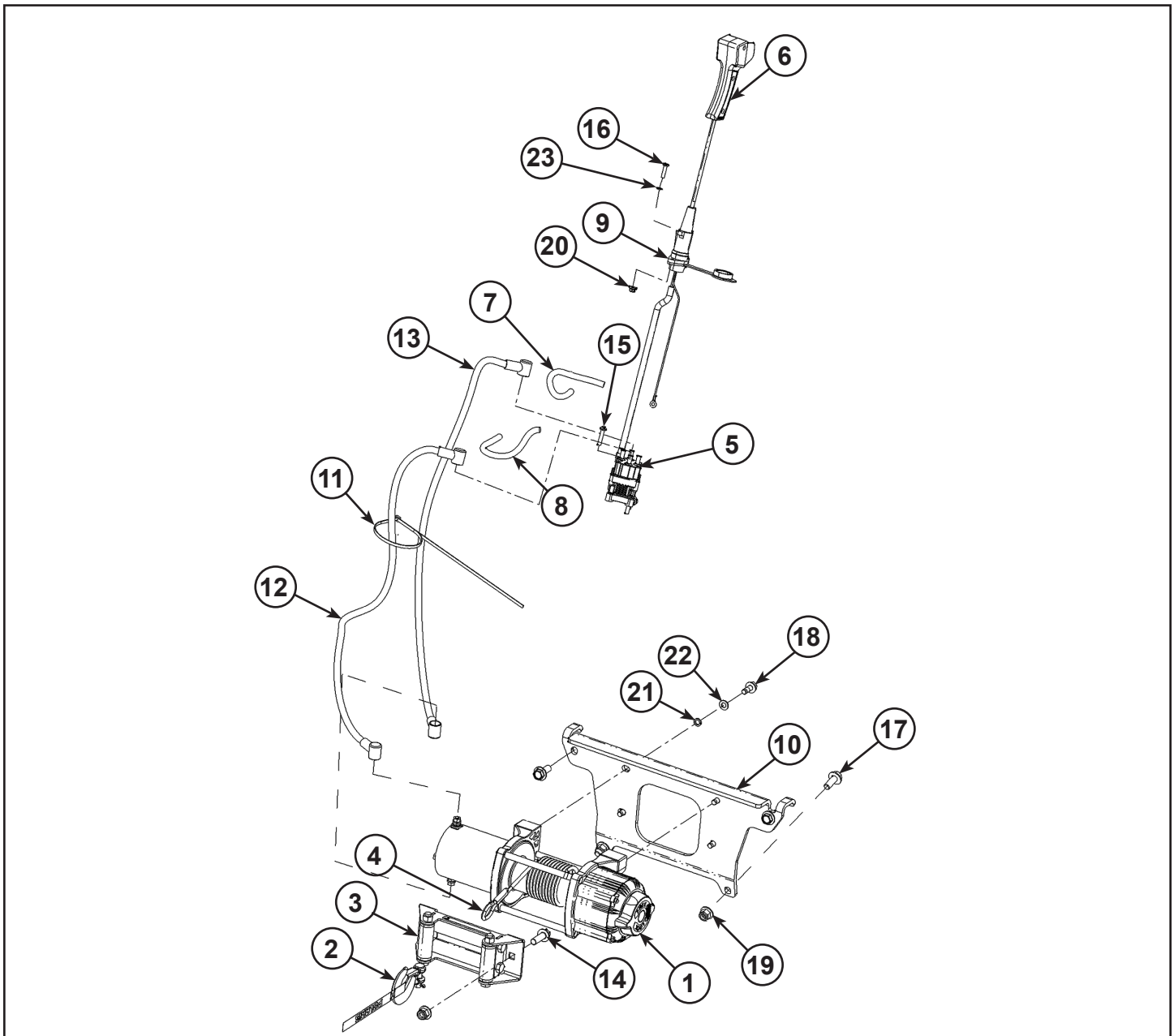
RANGER XP 900 CREW

BEFORE YOU BEGIN

Before you begin, read these instructions twice and check to be sure all parts and tools are accounted for. Please retain these installation instructions for future reference and parts ordering information.

NOTE: You must order power cables separately to connect your battery to the vehicle bus bar.

- 2879388: 3 Seat Models
- 2879685: Crew Models



KIT CONTENTS

Ref	Qty	Part Description	Part Number
1	1	Winch-POLARIS, 4.5	2204629
2	1	Hook-Latch, Winch	2411836
3	1	Roller-Fairlead, Winch 4500	2411847
4	1	Cable Winch Steel, 7/32"	2878889
5	1	Contacto Winch	4015095
6	1	Remote Winch Switch	4013466
7	1	Power Cable, Winch Black 6 GA	4013470-250
8	1	Power Cable, Winch Red 6 GA	4013471-250
9	1	Remote Socket, Winch Long	4014228
10	1	Winch Mount, 4500	5439929
11	10	Panduit Strap	7080492
12	1	Cable Winch, Yellow 6 GA, 800 MM	4013468-800
13	1	Cable Winch, Blue 6 GA 800 MM	4013469-800
14*	2	Screw-HXFL M10 X 1.5 X 30 10.9	-
15*	4	Screw- #10-32 X 1 TRX	-
16*	2	Screw-M5 X 0.8 X 20 8.8 TXPH ZOD	-
17*	4	Screw-M10 X 1.5 X 25 8.8 HXFL ZOD	-
18*	4	Screw-HXFL M8 X1 .25 X 20 8.8 ZOD P3	-
19*	4	Nut-M10 X 1.5 HFN NYLOC ZOD	-
20*	2	Nut-M5 X 0.8 8.8 HF / FL NYLOC	-
21*	4	Lock Washer M8 X 12.7 O D X 2 MM ZY3	-
22*	4	Washer-0.62 X 0.330 X 0.060	-
23*	2	M5 Flat Washer	-
	1	Winch Manual Guide	9923644
	1	Instructions	9926739

ITEMS MARKED (*) ARE INCLUDED IN HARDWARE KIT PN 2879172.

TOOLS NEEDED

Standard and Metric Socket Set
Drill and Drill Bit Set

Standard and Metric Wrench Set
1 1/16" Hole Saw or Drill

Phillips Screwdriver

APPROXIMATE ASSEMBLY TIME

60 mins

IMPORTANT

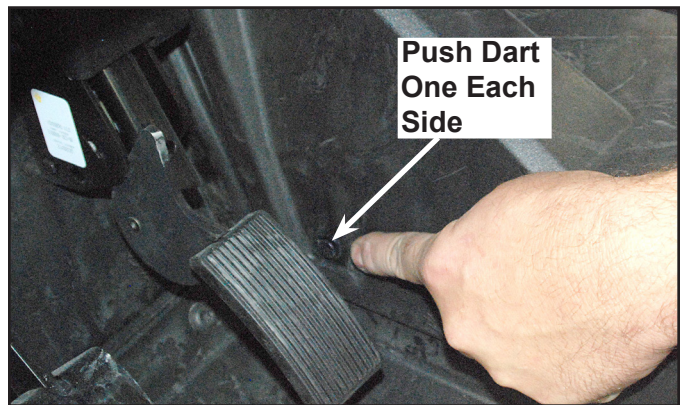
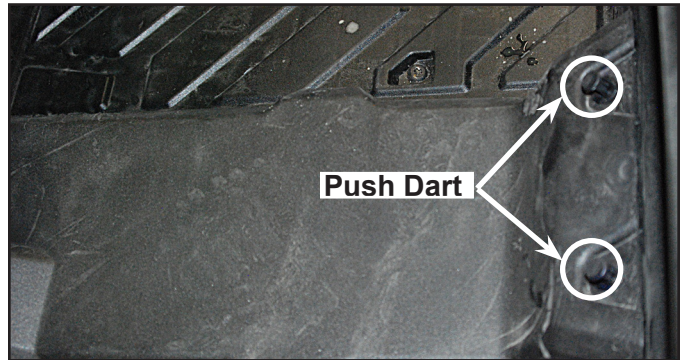
Your Polaris *RANGER* XP 900 4500 WINCH KIT is exclusively designed for your vehicle. Please read the installation instructions thoroughly before beginning. Installation is easier if the vehicle is clean and free of debris. For your safety, and to ensure a satisfactory installation, perform all installation steps correctly in the sequence shown.

INSTALLATION INSTRUCTIONS

1. Turn key to "OFF" position and remove key from vehicle. Remove front and rear seats. Disconnect black negative cable from battery. Disconnect red positive cable from battery.
2. Remove hood from vehicle as shown in figure.



3. Remove four push darts fasteners from center floor section. One on each side by foot pedal as shown in figures. Save fasteners for reinstallation. Remove center floor section.



4. Lift out seat and pullout tray on passenger side as shown in figure.



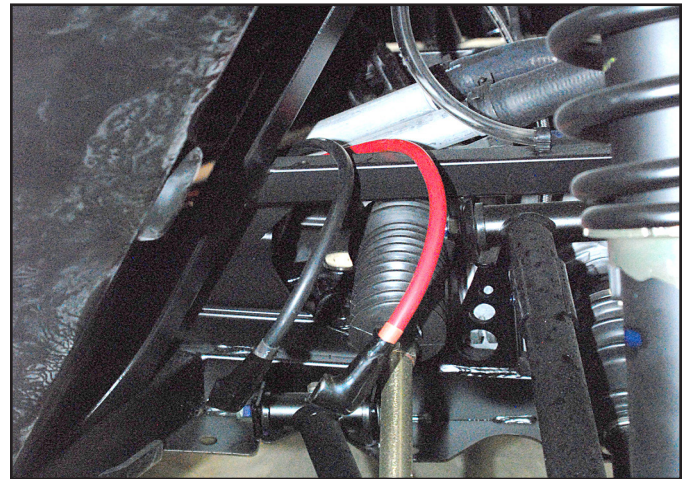
CONTACTOR AND WIRING INSTALLATION

1. Install red and black power and ground cable (sold separately, see Page 1) by sliding under seat where center floor section was removed and route up to battery by following the main wire harness. **DO NOT** connect at this time as shown in figure.

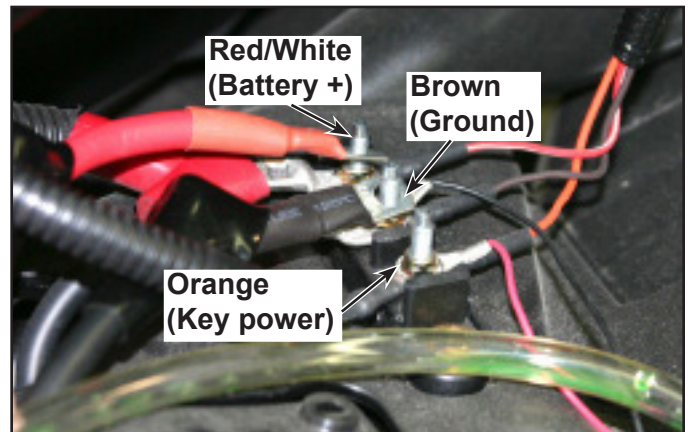
On crew models, route hoses through the tunnel area under the rear floor section and into the area under the rear seat.



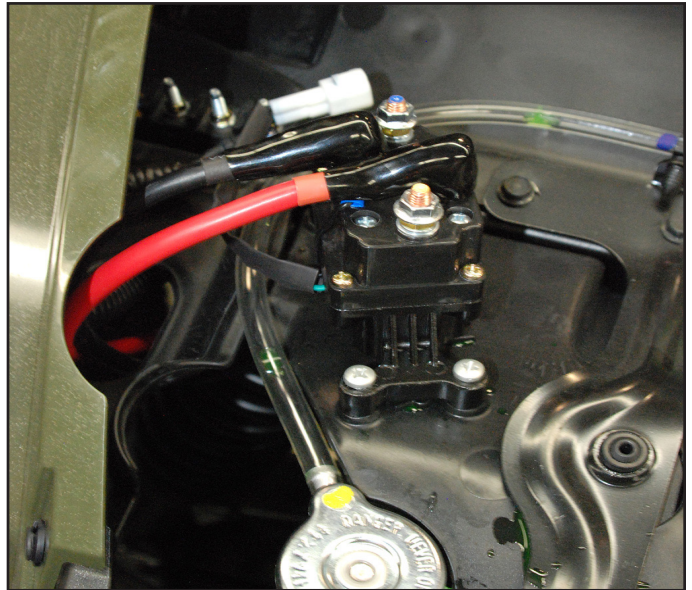
2. Slide the other end of cable through bulkhead. Follow main wire harness up and onto the splash tray as shown in figure.



3. Connect short (250 mm) red and black cables to the bus bar on the same posts as the wires previously connected. Reinstall nuts on bus bar. Connect wires to red and black terminals on contactor and lightly tighten. **DO NOT OVER TIGHTEN**. Slide the cable covers on as shown in figure.

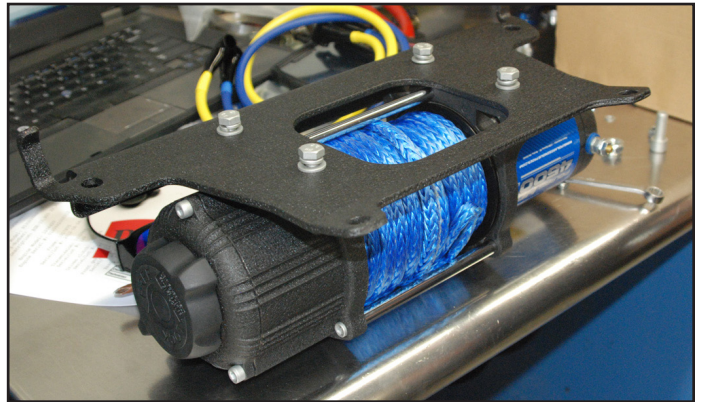


4. Install contactor with Phillips screws/screwdriver in the hood splash tray as shown in figure.
5. Connect red cable to red colored post on contactor and tighten with a 10 mm wrench. Connect the black cable to the black coded post and lightly tighten. Do not over tighten. Slide the cable covers on as shown in figure.

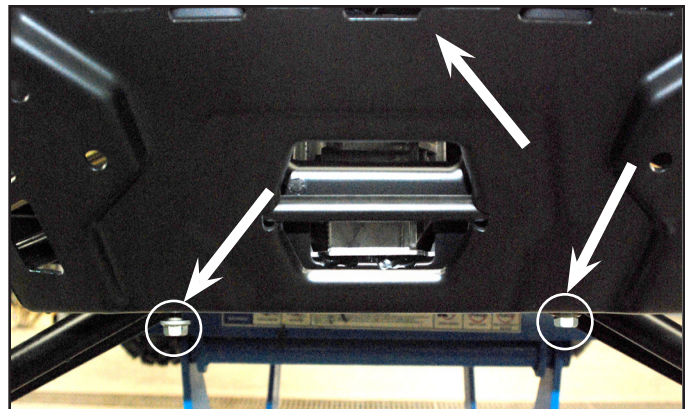


WINCH INSTALLATION

1. Install mount plate to winch with 1" (25 mm) bolts and lock washers. Finger tighten then tighten with a 13 mm socket as shown in figure.

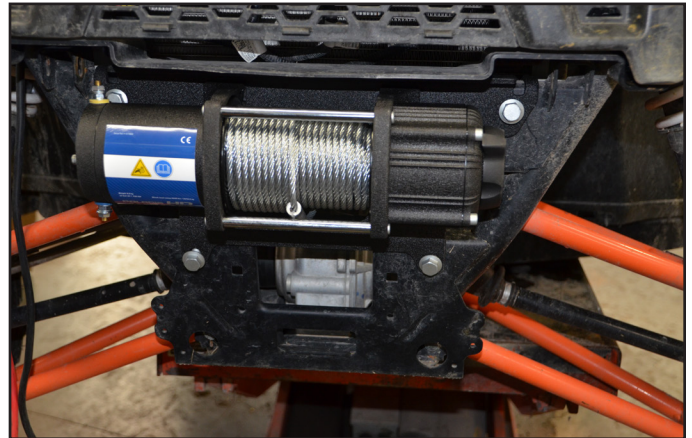
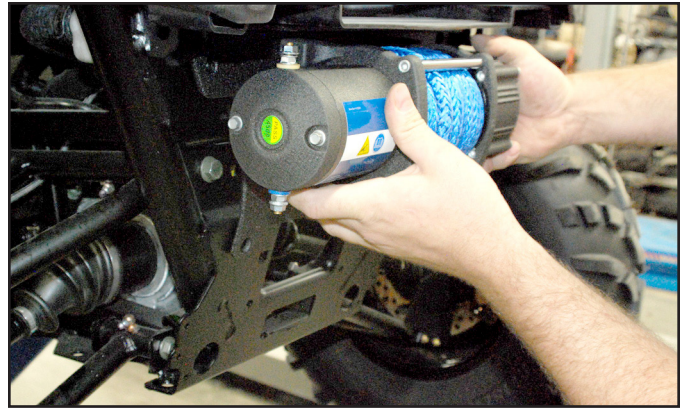


2. With a 15 mm wrench and socket remove the four bolts (two on top; two on bottom) that hold on the front bumper. Lift off front bumper. Retain hardware for reinstallation as shown in figure.

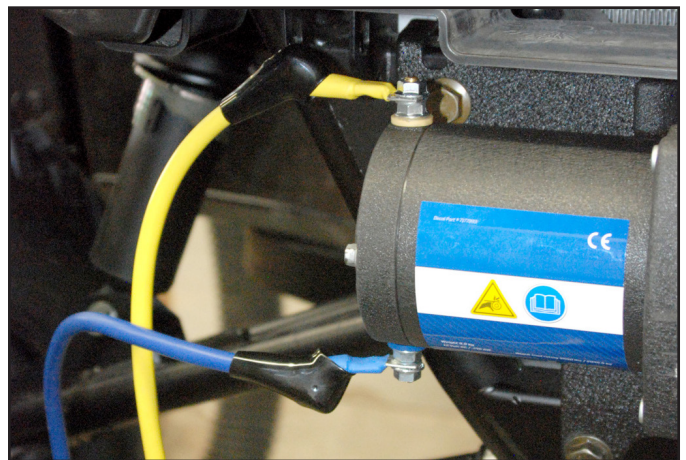


3. Line up holes in front of machine to mount winch.

IMPORTANT: Nuts not required for top two bolts. Install four fasteners (1.5" long nylock flange head bolts and nuts) with a 17 mm socket and 15 mm wrench. Torque to 25 ft. lbs. (33.8 Nm) as shown in figures.



4. Connect yellow and blue cables to the corresponding post on winch with a 10 mm wrench. Push cables up through the splash tray and to contactor as shown in figure.



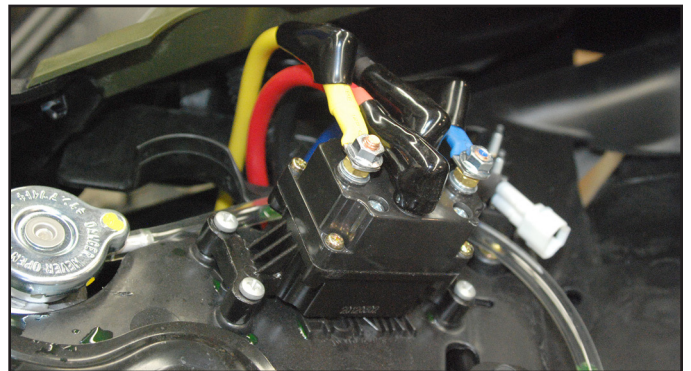
5. Install roller fairlead or auto stop fairlead if your vehicle is equipped as shown in figure to front bumper with two bolts. Tighten with 8 mm Allen wrench and 17 mm socket.
6. Tighten Auto Stop fairlead with 8 mm Allen wrench and 15mm socket as shown in figures.



7. Reinstall front bumper with fastener removed earlier. Make sure the winch cable or rope is through the fairlead slot as shown in figure.



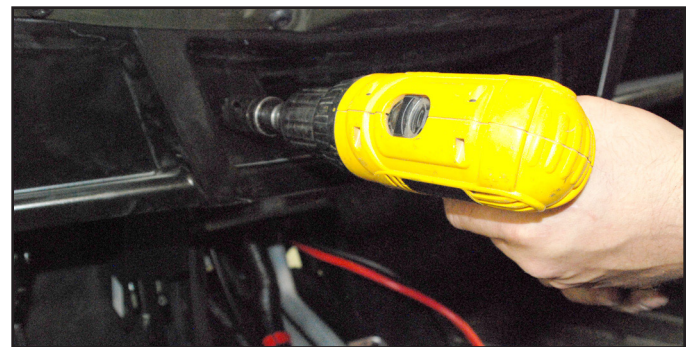
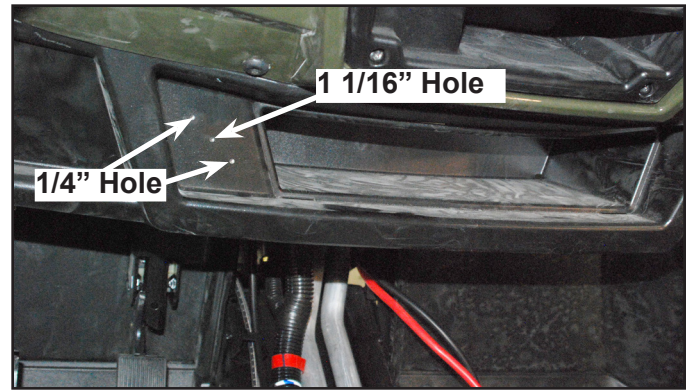
8. Connect the yellow and blue winch wires to contactor and push cable covers on as shown in figure.



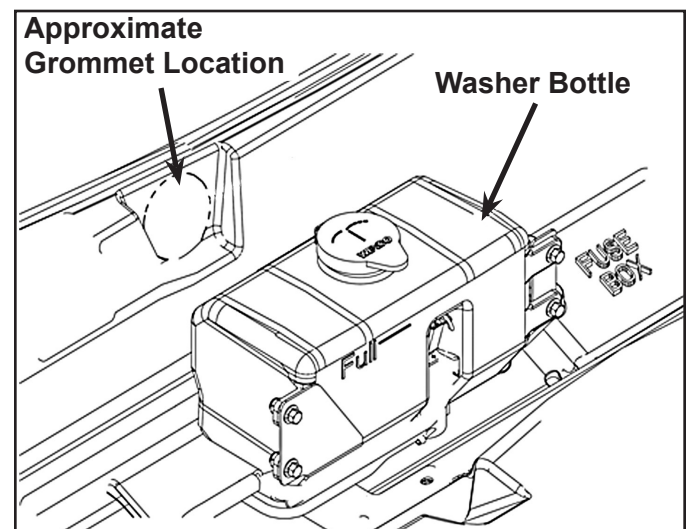
REMOTE SOCKET INSTALLATION:

⚠ WARNING	
	TO PREVENT SERIOUS INJURY OR DEATH FROM EXPLOSION: <ul style="list-style-type: none">• Do not drill into gas tank.• Verify the area is clear behind the mounting location before drilling.

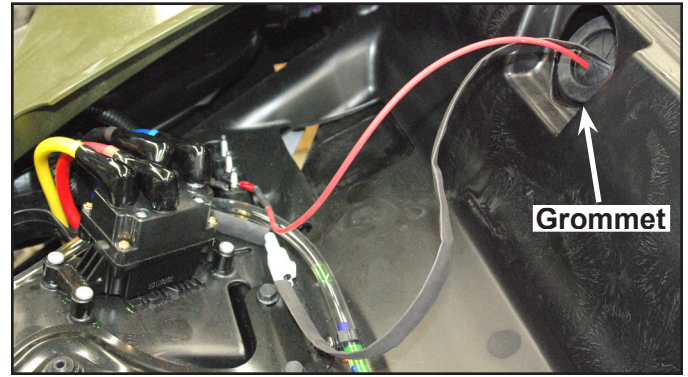
1. Install remote switch on vehicle dash. Use a 1 1/16" drill bit to cut a hole centered between dots embossed on dash. Drill two holes for screws with 1/4" drill bit over embossed dots as shown in figures.



2. Locate the area where the wire harness and hose will pass through the front dash wall. On MY13 vehicles a grommet is already installed. For MY14 it is a round area of 1 11/16" diameter that must be removed by cutting along the perimeter scribe line with a sharp tool. Remove the round plastic cut out as shown in figure.
3. Install the grommet (PN 5414440).
IMPORTANT: Vehicle hardware kit contains the grommet.
4. Cut the grommet (PN 5414440) to allow wire harness through.



5. Push the wires back through the grommet and replace grommet in upper splash tray hole. Connect black wire to connector and red wire to the keyed power terminal. After wires are connected, panduit power and ground cables to the main wire harness to keep clear of moving parts and panduit to frame as shown in figure.

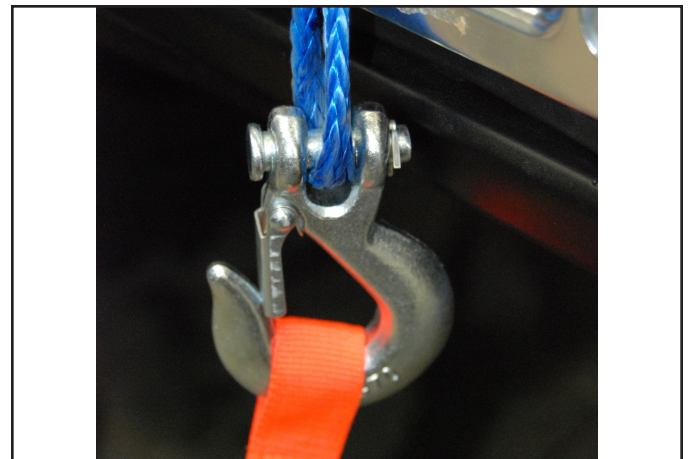


6. Attach switch with the two Phillips screws, washers and nuts provided in kit. Install in this order, screws, switch housing, dash, washer, nut. Tighten with a Phillips screwdriver and a 8 mm wrench as shown in figure.

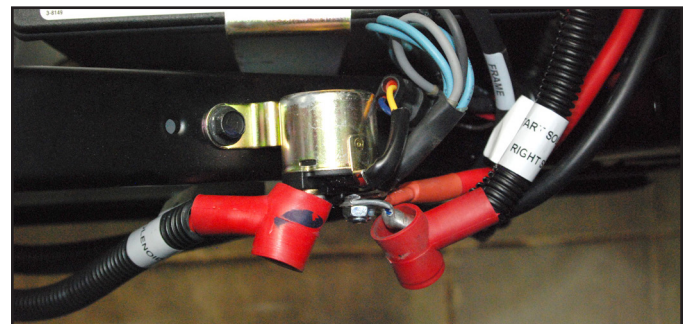


FINAL INSTALLATION:

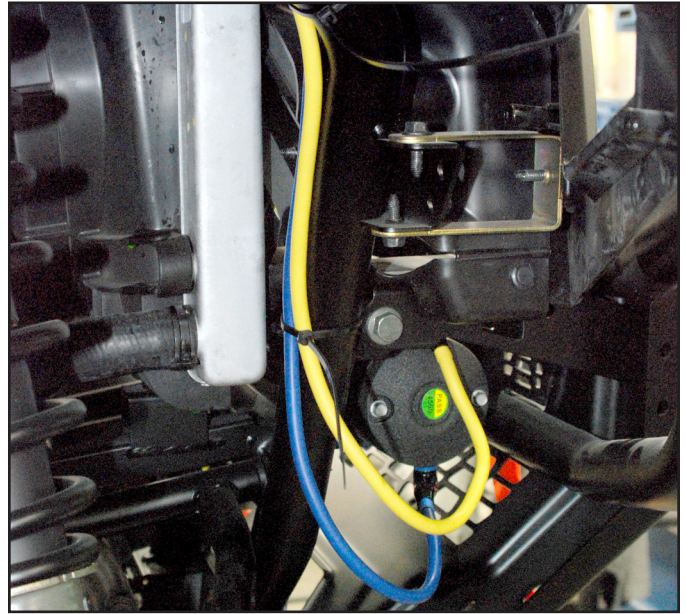
1. **Auto Stop Fairlead:** Slide on rubber stop, Polaris logo showing. Attach winch hook with cotter pin to rope.



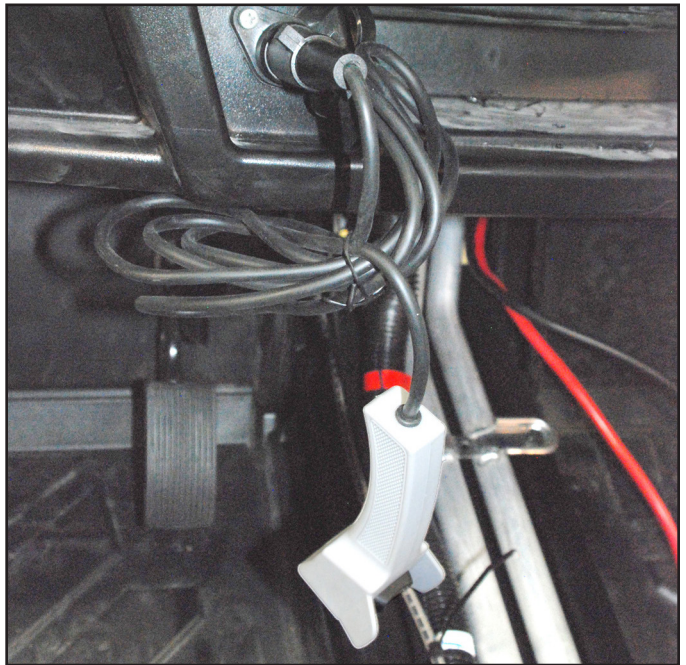
2. Attach red cables to battery to the battery side of starter solenoid. Attach black ground wire to ground post. After wires are connected, panduit power and ground cables to the main wire harness to keep clear of moving parts and panduit to frame.



3. Secure cables to frame and main wire harness.
4. Replace the center floor section and reuse the four push guard pins removed at a earlier step.



5. Re-connect the main vehicle power cables and winch power cables to the battery using the original hardware.
6. With the vehicle key in the ON position, check winch for proper operation.
7. Confirm that all wiring is correct.
8. Connect winch remote control to electrical socket as shown in figure.



9. Verify function of winch as shown in figure.
10. Confirm that there are no exposed wires or terminals. All loose wires need to be wrapped tight, and secured away from moving parts and heat sources.
11. Reinstall pullout tray under seat.
12. Reinstall seats.
13. Retighten all hardware after 30 minutes of riding.

