

REAR WINCH RACK KIT



P/N 2884215

BEFORE YOU BEGIN

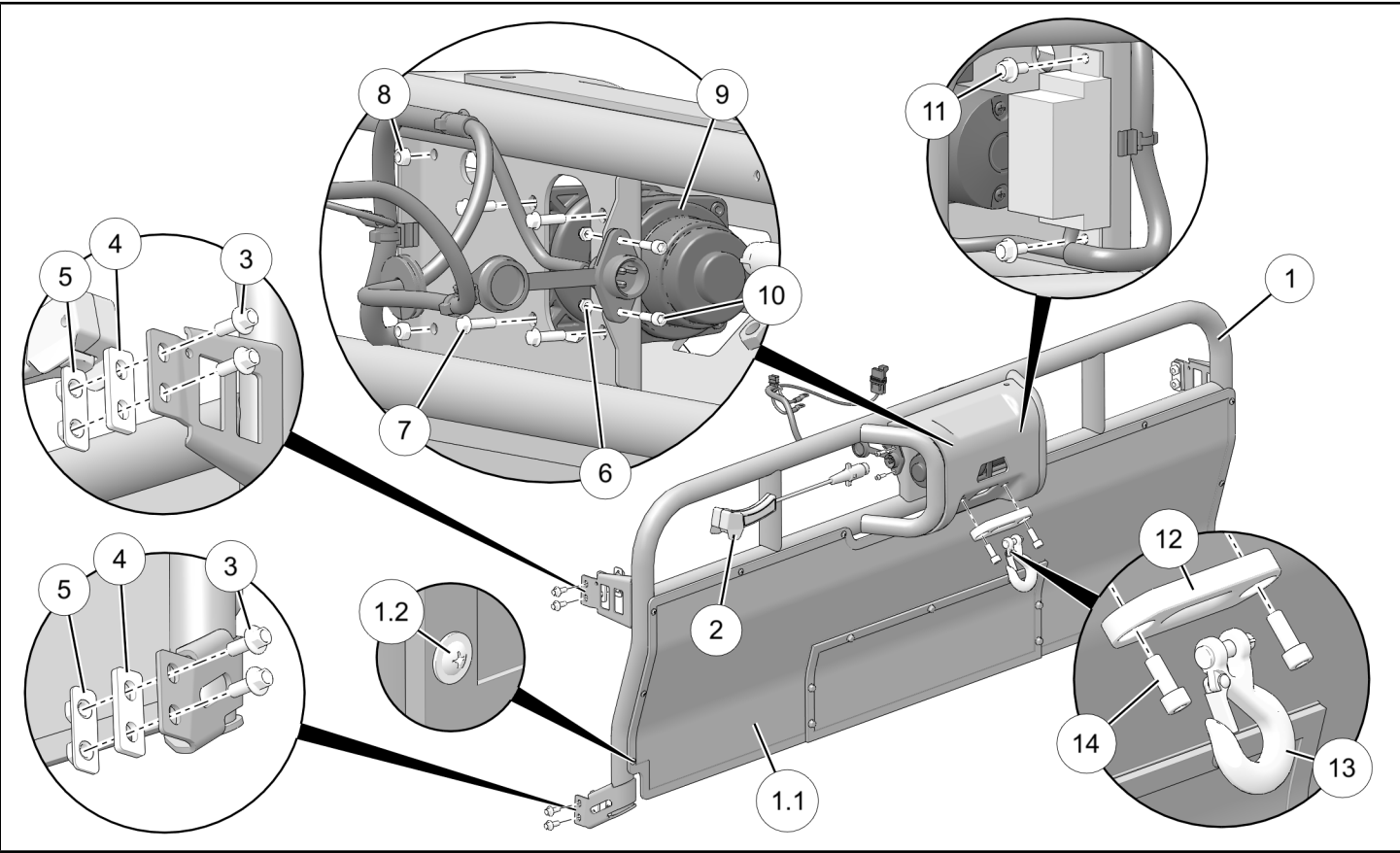
Read these instructions and check to be sure all parts and tools are accounted for. Please retain these installation instructions for future reference and parts ordering information.

REQUIRED, SOLD SEPARATELY

This kit only contains parts for installation of the Rear Winch Rack Kit. Prior installation of one of the Pulse® Roof Busbar, PN 2882904, is also required (sold separately).

KIT CONTENTS

This Kit includes:



REF	QTY	PART DESCRIPTION	PART NUMBER	INCLUDED IN SERVICE KIT
1	1	Frame (includes parts 1.1–1.2)	-	-
1.1	1	- Panel, Main	1025215-458	-
1.2	10	- Screw, Torx® Washer Head, Self-Tapping - #8 X 3/4	-	2208202
2	1	Remote, Wired	4013466	2884580
3	8	Screw, Hex Flange - M8 X 1.25 X 20, 8.8	7519936	2208202
4	4	Spacer	-	2208202

REF	QTY	PART DESCRIPTION	PART NUMBER	INCLUDED IN SERVICE KIT
5	4	Nut Plate	5256140	2208202
6	2	Nut, Hex, Locking - M5 X 0.8	7546601	2208353
7	4	Screw, Hex Flange - M6 X 1.0 X 20, 8.8	7518576	2208353
8	2	Nut, Hex, Locking - M6 X 1.0	7546703	2208353
9	1	Winch (includes part 9.1, plus harness and contactor)	2637722	2884580
9.1	1	- Rope, UHMW	2208247	-
10	2	Screw, Hex Socket Cap - M5 X 0.8 X 16, 8.8	7516610	2208353
11	2	Screw, Hex Flange - M6 X 1.0 X 12, 8.8	7517704	2208353
12	1	Fairlead	5143217	2884580
13	1	Hook	2411836	2884580
14	2	Screw, Hex Socket Cap - M10 X 1.5X 25, 8.8	7517358	2208353
15	1	Cable, Bed Limiting (not shown)	7082580	-
	1	Winch User Guide	9923644	2884580

TOOLS REQUIRED

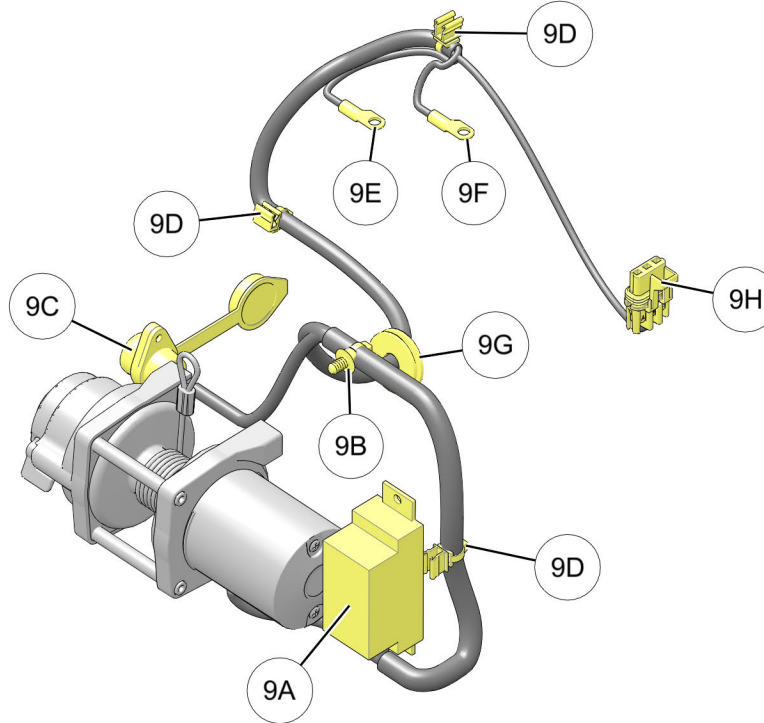
- Safety Glasses
- Drill
- Drill Bit: suitable for hole saw pilot
- Hole Saw: 1.25 inch (32 mm)
- Push Dart (Panel Clip) Tool
- Screwdriver Set, Torx®
- Socket Set, Hex Bit, Metric
- Socket Set, Metric
- Torque Wrench
- Wrench Set, Metric

IMPORTANT

Your Rear Winch Rack 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.

HARNESS DETAIL

WINCH HARNESS ⑨:



REF	PART DESCRIPTION	WIRE COLOR	PIN QTY/ GENDER	CONNECTS TO
9A	Contactor	-	-	Frame ①
9B	Clip, Routing	-	-	Frame ①
9C	Socket, Wired Remote	-	-	Frame ①
9D	Clip, Edge	-	-	Vehicle structure and frame ①
9E	Terminal, Ring - 1/4 inch (6 mm)	Red	-	Pulse® Roof Busbar, PN 2882904 (sold separately), post BAT +
9F	Terminal, Ring - 1/4 inch (6 mm)	Black	-	Pulse® Roof Busbar, PN 2882904 (sold separately), post BAT -
9G	Grommet	-	-	Roof structure
9H	Connector, Key Ignition	-	-	Pulse® Roof Busbar, PN 2882904 (sold separately)

INSTALLATION INSTRUCTIONS

NOTE

Polaris recommends two people install this kit.

VEHICLE PREPARATION

1. Shift vehicle transmission into "PARK". Turn ignition switch to "OFF" position and remove key.
2. Flip up passenger seat bottom (**RANGER CREW®**: right rear passenger seat bottom) and remove underseat storage compartment. Disconnect black negative (-) cable from battery.

⚠ WARNING

Ensure red positive (+) battery terminal is COMPLETELY COVERED by protective boot. Accidental tool contact across both battery terminals will result in high current electrical arc, and may result in battery explosion. Death or serious injury may occur.

Black negative (-) cable MUST be disconnected from battery terminal. Failure to disconnect cable may result in electrical arc when installing connections at terminal block. Death or serious injury, or damage to vehicle or accessory, may occur.

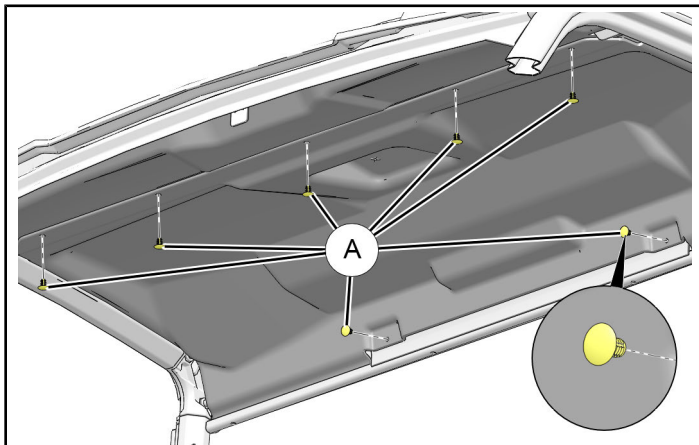
3. Remove roof liner (if installed).

NON-CREW VEHICLES

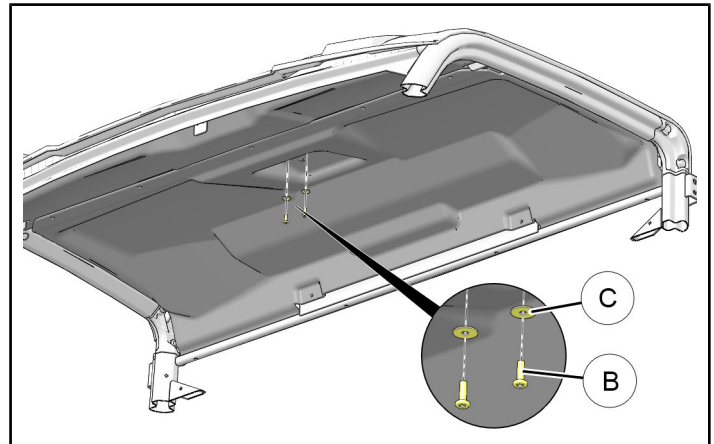
NOTE

Front liner can remain installed.

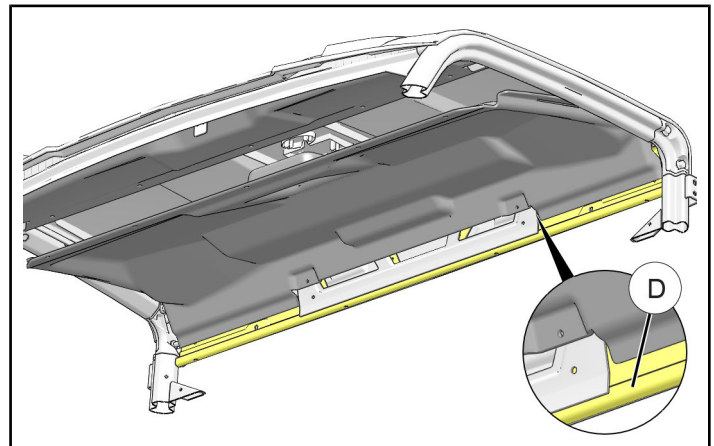
- a. Remove optional (roof mounted) speakers and/or dome light, if installed.
- b. Remove seven push darts (A), two from rear edge and five from front edge. Retain push darts.



- c. Remove two each screws (B) and washers (C) (if installed).



- d. Carefully pull LH and RH edges of liner from between ROPS and roof seal, then remove rear edge of liner from roof support channel (D).

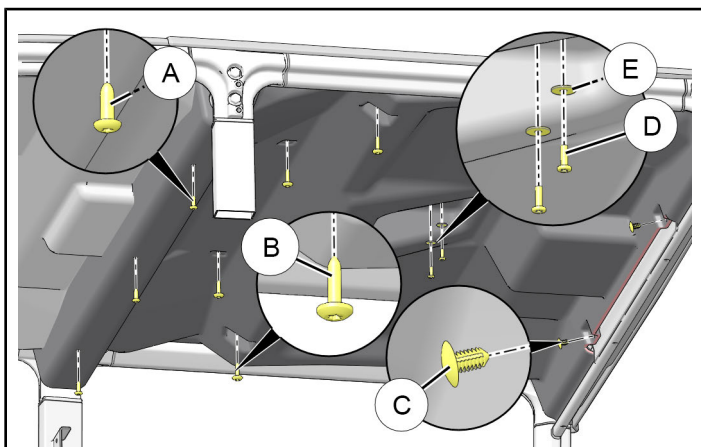


CREW VEHICLES

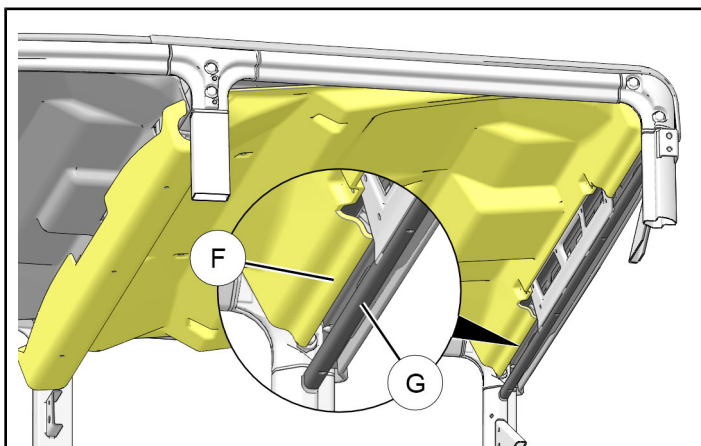
NOTE

Front and mid liners can remain installed. Only rear liner is removed.

- a. Remove optional (roof mounted) speakers and/or dome light, if installed.
- b. Remove three screws (A) beneath B-pillar cross-member, four screws (B), two push darts (C), and two each screws (D) and washers (E) (if installed). Retain hardware.



- c. Carefully pull LH and RH edges of liner down from between ROPS and roof seal, then remove rear edge of liner (F) from roof support channel (G). Set liner aside.

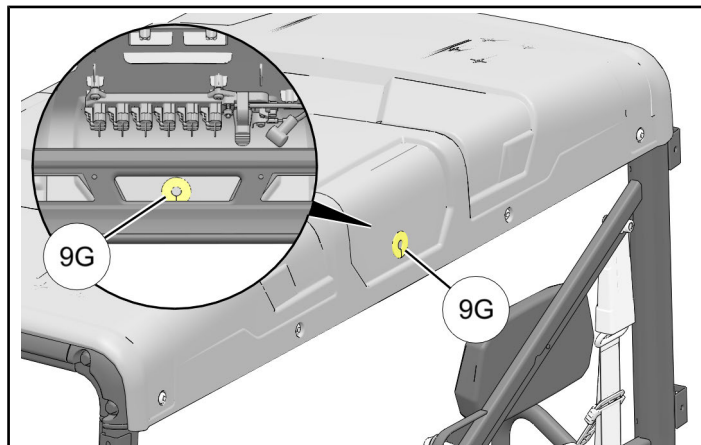


4. Drill hole for winch harness.

- a. From inside cab, drill pilot hole rearward through roof panel in center of ROPS cross-member cutout as shown. Ensure hole is centered vertically in **REAR** cross-member cutout to avoid damage in next step.

NOTE

Grommet 9G shown for reference. Harness (and grommet) will be installed later.



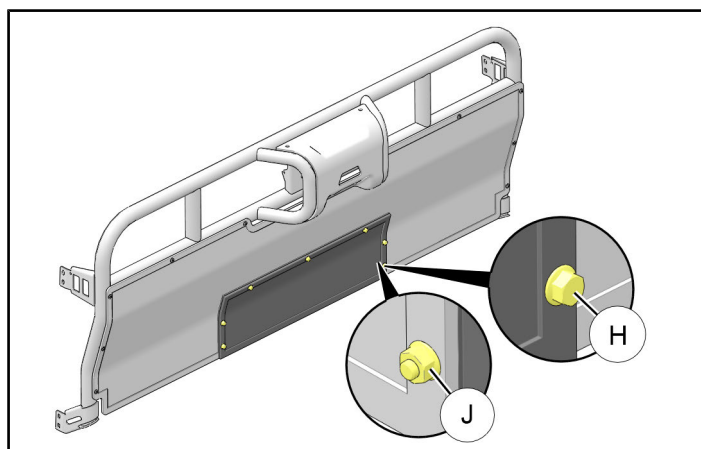
- b. From outside cab use 1.25 in (32 mm) hole saw, centered on pilot hole, to drill forward through roof panel.

IMPORTANT

Control drill depth to prevent damage to underlying ROPS structure.

5. **RANGER XP® 1000 High Lifter OR RANGER CREW XP® 1000 High Lifter:** Remove inset panel by removing seven each screws (H) and nuts (I). Inset panel and fasteners will not be used.

All other RANGER vehicles: Proceed to next Step 6. Removal of inset panel is not required.



6. **Vehicles WITHOUT doors:** Proceed to next section, **INSTALL WINCH TO FRAME**.

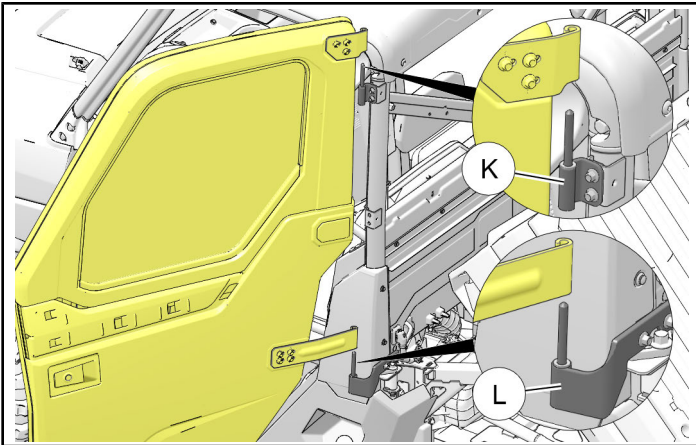
Vehicles WITH doors: Remove doors as follows:

FULL DOORS

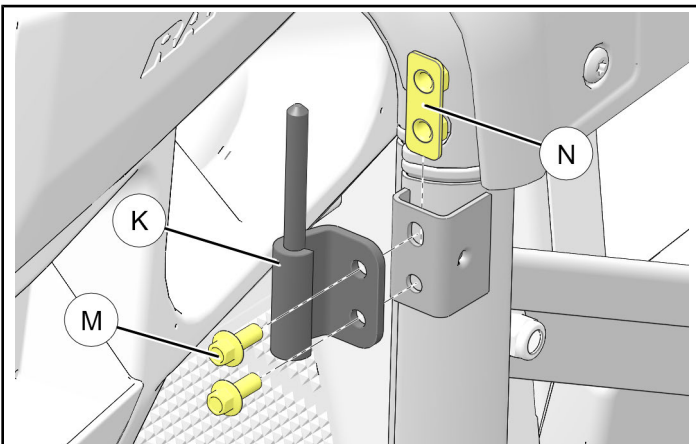
- a. Disconnect the following items (if installed) to allow LH door to be removed from vehicle:
 - Rubber limiter strap from interior of door, upper rear corner
 - Electrical harnesses (such as for Power Window Door Kit or Door Speaker Kit)
- b. Open LH door, then lift from upper chassis-side hinge (K) and lower chassis-side hinge (L). Set door aside.

NOTE

Premium poly door shown. Canvas and standard poly door similar.



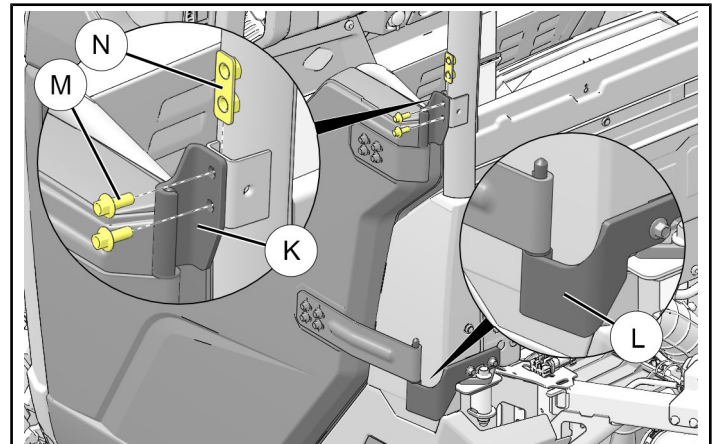
- c. Remove UPPER chassis-side hinge (K) by removing two screws (M) and nut plate (N). Retain hinge (with nylon washer). Screws, nut plate, and conical spring washers (if installed) will not be reused.



- d. Repeat Steps a. through c. for RH door.

HALF DOORS

- a. With LH door closed, detach UPPER chassis-side hinge (K) from ROPS bracket by removing two screws (M) and nut plate (N).



- b. Support door while opening, then lift from lower chassis-side hinge (L). Set door aside. Retain hinge (and nylon washer). Screws and nut plate will not be reused.
- c. Repeat Steps a. through b. for RH door.

INSTALL WINCH TO FRAME

NOTE

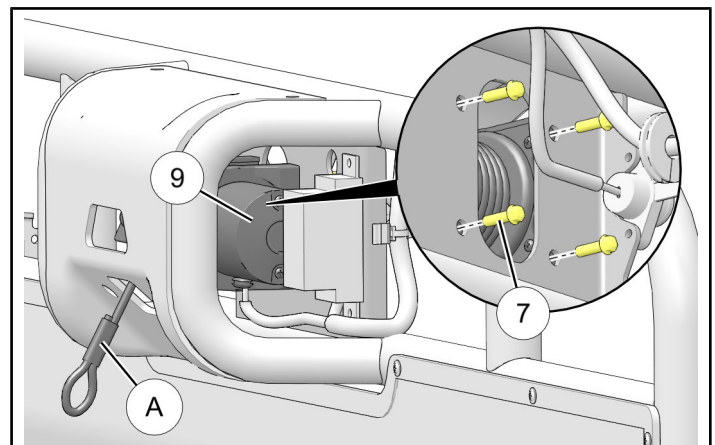
See previous section, **HARNESS DETAIL**, for connector identification.

1. Unwind BY HAND several turns of rope from winch spool, then route loop (A) through frame cutout as shown.

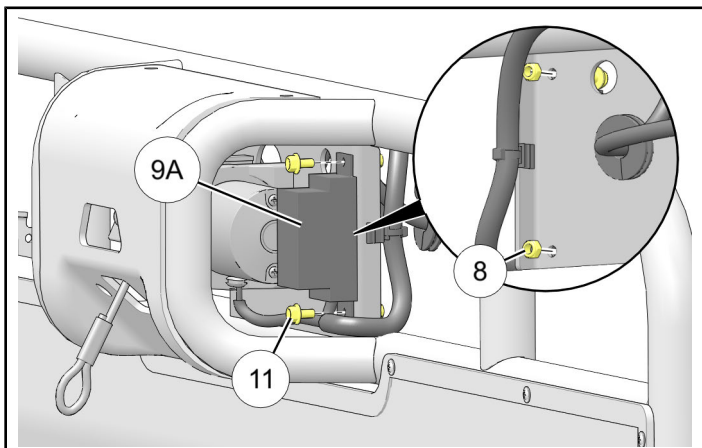
Install winch (9) to frame using four screws (7). Ensure winch is oriented with mode selector lever on LH side and motor on RH side, as shown. Torque to specification.

TORQUE

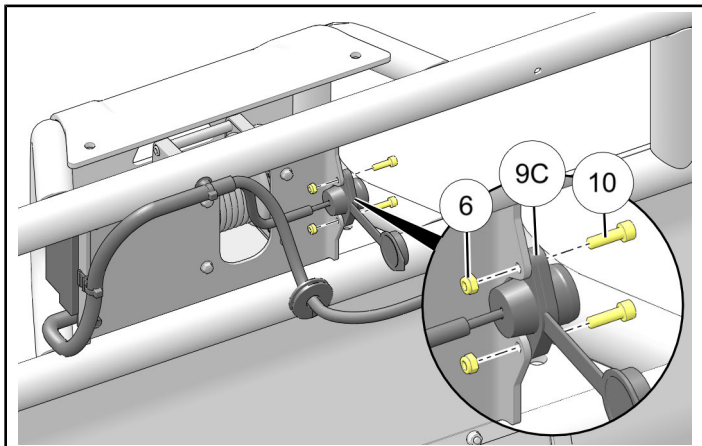
6 ft. lbs. (8 Nm) \pm 10%



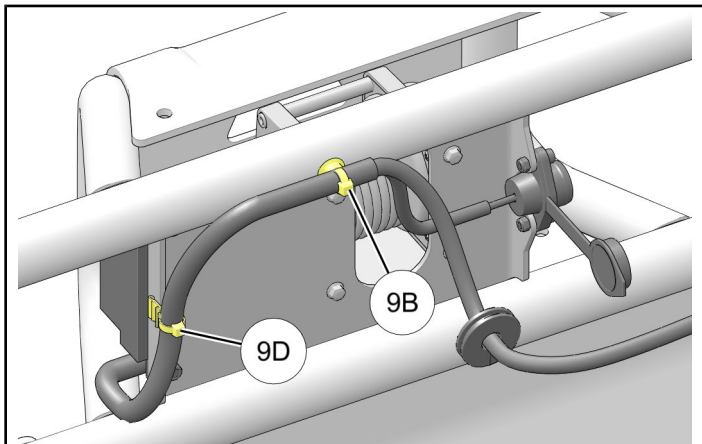
2. Install contactor 9A to frame using two each screws 11 and nuts 8. Tighten screws.



3. Install wired remote socket 9C to frame using two each screws 10 and nuts 6. Tighten screws.



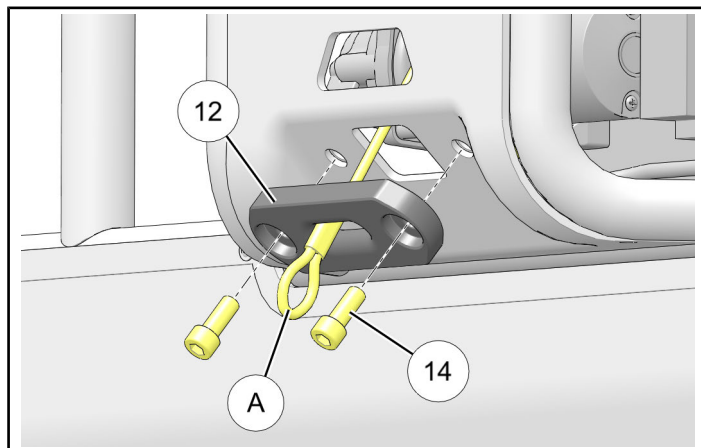
4. Secure winch harness to frame using routing clip 9B and edge clip 9D.



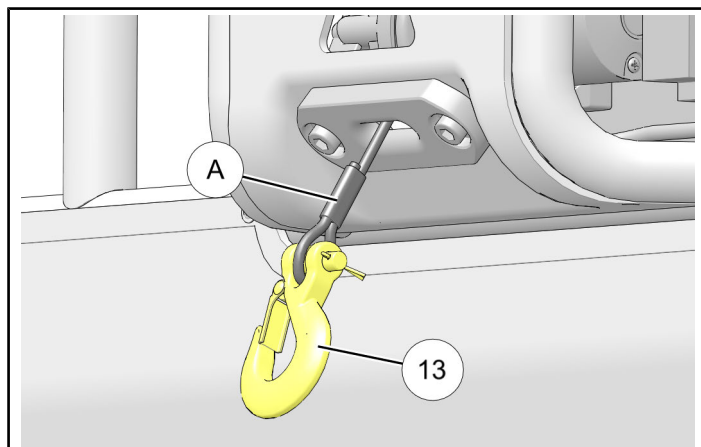
5. Install fairlead 12 to frame using two screws 14. Torque to specification.

TORQUE

40 ft. lbs. (54 Nm) \pm 10%



6. Install hook 13 to loop A using clevis pin, then secure with cotter pin.



INSTALL FRAME TO VEHICLE

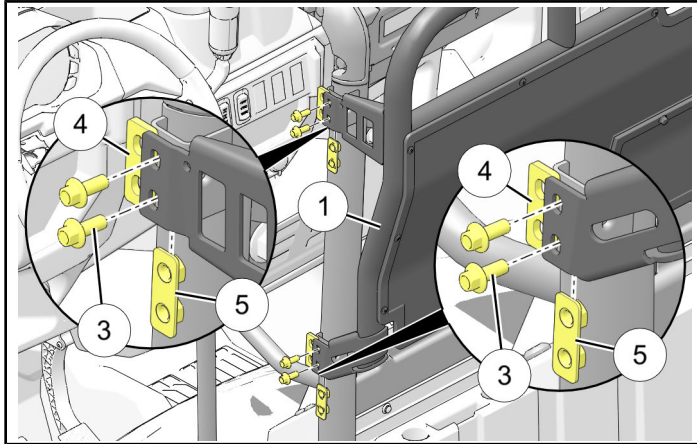
NOTE

Three installation configurations are provided: **NO DOORS**, **FULL DOORS**, and **HALF DOORS**.

NO DOORS

1. Loosely install UPPER LH corner of frame ① to ROPS using two screws ③, spacer ④, and nut plate ⑤.

Repeat for UPPER RH corner, followed by both lower corners, using same hardware.



2. Torque all eight screws ③ to specification.

TORQUE

17 ft. lbs. (23 Nm) \pm 10%

FULL DOORS

NOTE

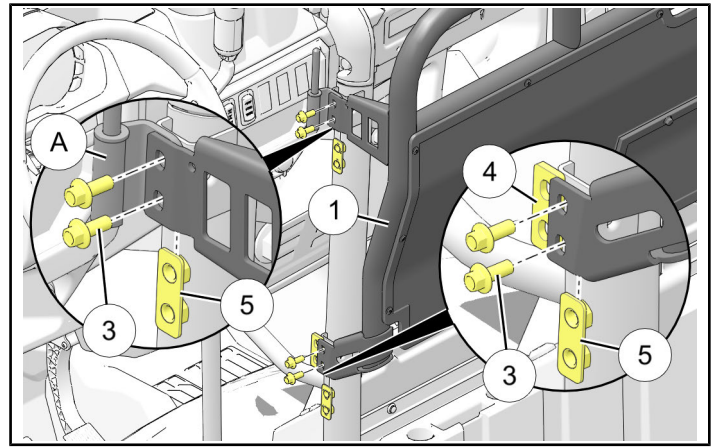
If installing Standard Poly Door Kit PN 2882901 or 2883229, then conical spring washers are NOT reinstalled.

1. Loosely install UPPER LH corner of frame ① to ROPS using two screws ③, retained upper LH chassis-side hinge ①, and NEW nut plate ⑤. Spacer ④ is not used.

IMPORTANT

Ensure door hinge is located **BETWEEN** winch frame and ROPS bracket as shown.

Repeat for UPPER RH corner of frame using retained RH chassis-side hinge.



2. Loosely install LOWER LH corner of frame ① to ROPS using two screws ③, spacer ④, and nut plate ⑤.

Repeat for LOWER RH corner of frame.

3. Hang door on lower chassis-side hinge ② first, then upper chassis-side hinge ①.

NOTE

Lower hinge pin is longer than upper hinge pin to aid door installation.

4. Fully close and latch door. Ensure door is centered in ROPS/chassis opening. If not centered, adjust hinges (chassis-side and/or door-side) as required.
5. Torque all LH screws to specification:
 - All four winch frame M8 screws ③
 - Any other fasteners loosened for door adjustment

TORQUE

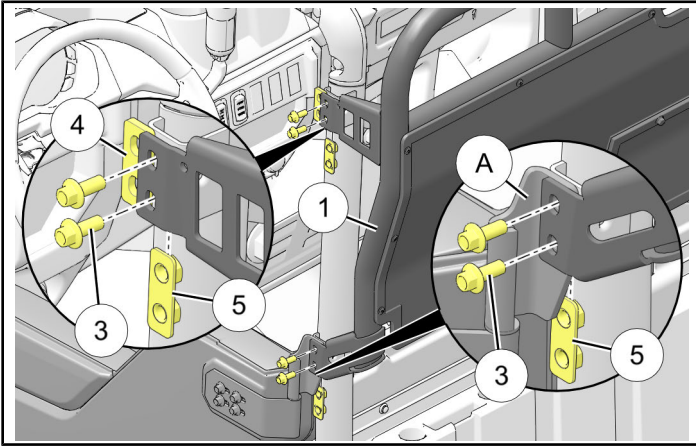
M8 screws: 17 ft. lbs. (23 Nm) \pm 10%
1/4–20 nuts (Canvas Door Kits): 5 ft. lbs. (7 Nm) \pm 10%

6. Repeat Steps 3–5 for RH door.
7. Reconnect the following items (if previously disconnected):
 - Rubber limiter strap to interior of door, upper rear corner
 - Electrical harnesses (such as for Power Window Door Kit or Door Speaker Kit)

HALF DOORS

1. Loosely install UPPER LH corner of frame ① to ROPS using two screws ③, spacer ④, and nut plate ⑤.

Repeat for UPPER RH corner of frame.



2. Loosely install LOWER LH corner of frame ① to ROPS using two screws ③, LH door assembly (with upper chassis-side hinge A), and NEW nut plate ⑤. Spacer ④ is not used.

IMPORTANT

Ensure door hinge is located **BETWEEN** winch frame and ROPS bracket as shown.

Repeat for LOWER RH corner of frame using retained RH door assembly (with upper chassis-side hinge).

3. Fully close and latch door. Ensure door is centered in ROPS/chassis opening. If not centered, adjust hinges (chassis-side and/or door-side) as required.
4. Torque all LH screws to specification:
 - All four winch frame M8 screws ③
 - Any other fasteners loosened for door adjustment

TORQUE

M8 screws: 17 ft. lbs. (23 Nm) \pm 10%

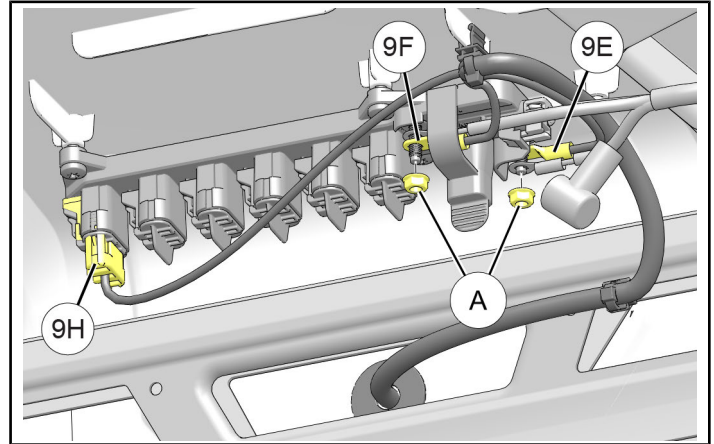
5. Repeat Steps 3–4 for RH door.

INSTALL HARNESS TO VEHICLE

NOTE

See previous section, **HARNESS DETAIL**, for connector identification.

1. Route winch harness forward through previously drilled hole in roof panel, then connect to busbar.
 - Ring terminal 9E (**RED** wire) to post **BAT +**
 - Ring terminal 9F (**BLACK** wire) to post **BAT –**
 - Remove cap from any open power port, then plug in connector 9H

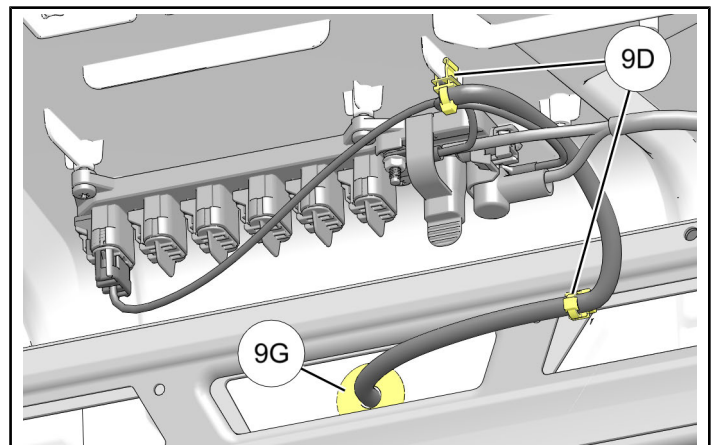


2. Torque two nuts A to specification, then reinstall red boot over post **BAT +**.

TORQUE

44 in. lbs. (5.0 Nm) \pm 10%

3. Ensure harness is routed to prevent contact with hot components, sharp edges, or moving parts (inside and behind roof), then secure to roof using two edge clips 9D and grommet 9G.



4. Reinstall roof liner (if removed).
5. Reconnect black negative (-) cable to battery, then reinstall under-seat storage compartment.

INSTALL BED LIMITER CABLE

Vehicles with ELECTRIC Bed Lift: Proceed to next section, **OPERATION**. Installation of limiter cable is not required.

Vehicles with MANUAL Bed Lift: Install new limiter cable as follows:

NOTE

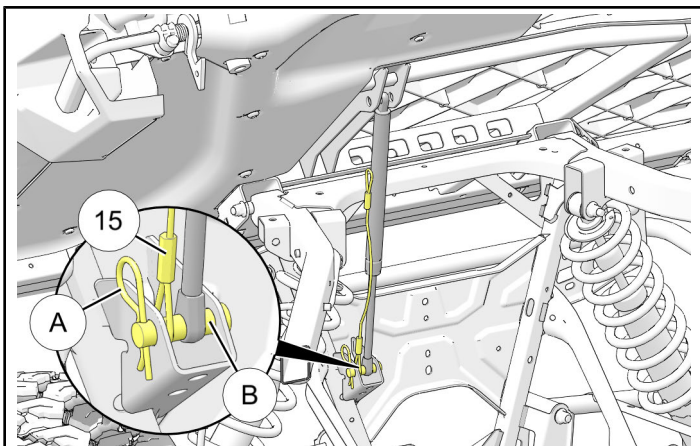
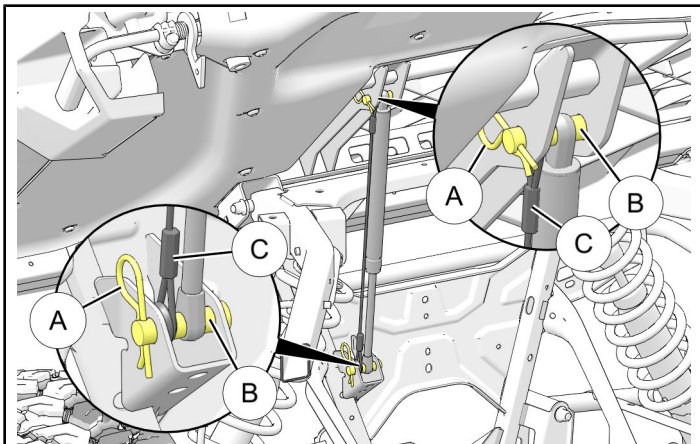
Shorter bed limiter cable is required to prevent front of bed from contacting winch rope during operation.

CAUTION

When lift assist strut is detached vehicle bed can free fall to closed position, resulting in personal injury or damage to vehicle. Secure bed in open position if wind or other factors may cause bed to close unexpectedly.

1. Remove hairpin clip (A) and clevis pin (B) from one end of lift assist strut. Remove existing limiter cable (C) and replace with new limiter cable (15) using same hardware.

Repeat for opposite end of strut. Existing limiter cable (C) will not be reused.



OPERATION

MODE SELECTION

WARNING

Do NOT attempt to change mode setting while rope is under tension. Failure to comply may result in winch failure, resulting in serious personal injury or death.

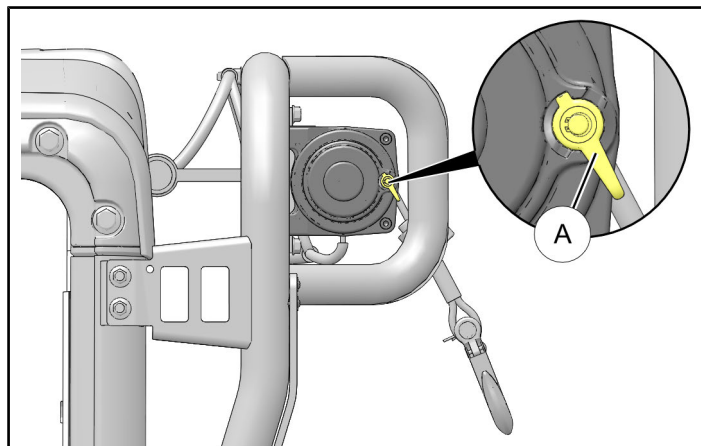
Your winch is equipped with two different operating modes as determined by selector lever (A) on the LH side of the winch.

To shift between operating modes relieve all tension from rope, then flip selector lever UP or DOWN as required:

- **UP:** Used to manually extend rope
- **DOWN:** Used to recover rope

NOTE

Lever shown in DOWN position.

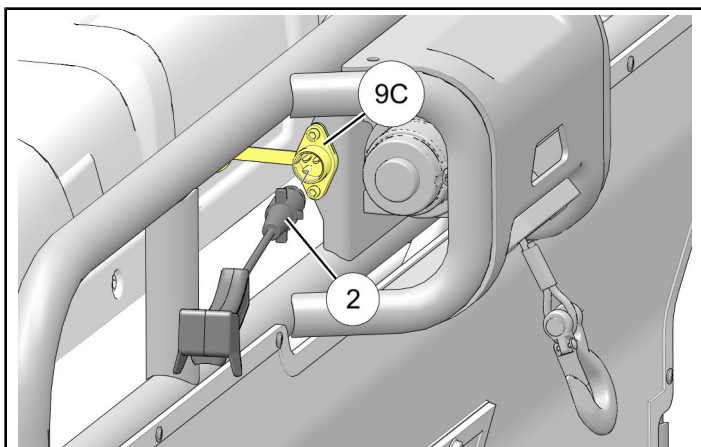


OPERATIONAL CHECK

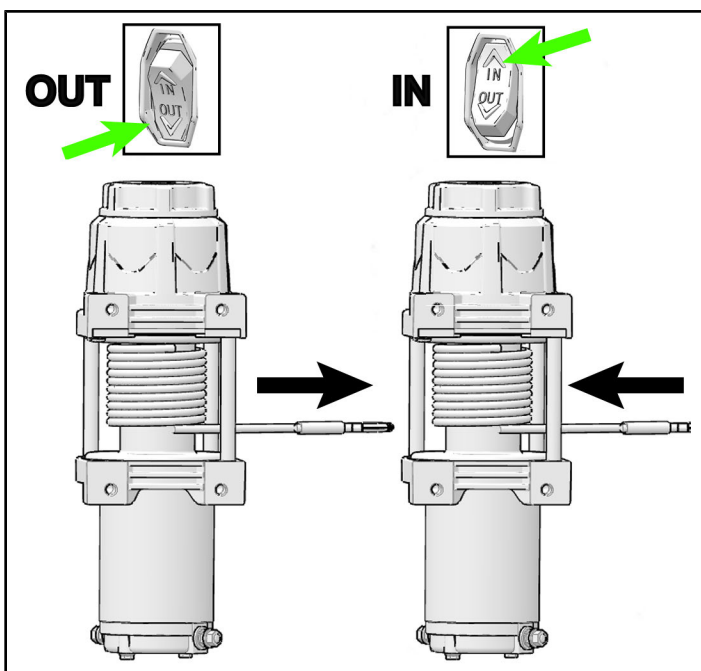
CAUTION

Use caution when operating winch. Winch does NOT have autostop mechanism to prevent hook from retracting through fairlead. Hook must be manually stopped PRIOR to contact with fairlead. Failure to stop hook from contacting fairlead may result in damage to winch, fairlead, or other components.

1. Plug wired remote ② into wired remote socket 9C.



2. Turn ignition switch to "ACC" position.
3. Relieve all tension from rope, then flip selector lever to UP position.
4. Grasp hook and manually pull rope from spool.
5. Relieve all tension from rope, then flip selector lever to DOWN position.
6. Use wired remote ② to operate winch:
 - To extend rope, depress and hold **OUT** button
 - To recover rope, depress and hold **IN** button



7. Turn ignition switch to "OFF" position and remove key from switch.
8. Unplug wired remote ② and stow in secure location.

⚠ WARNING

Do not exceed maximum load of 500 lbf (2.2 kN). Failure to comply may result in accessory failure, resulting in death, serious personal injury, or serious damage to vehicle or property.

⚠ WARNING

Winch is NOT intended for vehicle recovery, neither this vehicle nor any other vehicle. Winch is ONLY intended to pull items into vehicle bed. Failure to comply could result in death, serious injury, or damage to vehicle or property.

⚠ WARNING

Read and follow instructions on any and all labels attached to your accessory. Failure to follow instructions could result in death, serious injury, or damage to vehicle or property.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES	RECOMMENDED SOLUTION
Dead vehicle battery	Incorrect, damaged, or corroded electrical connections	Verify all winch electrical connections are per instruction manual and free of damage and/or corrosion.
Winch will not operate	Contactors not receiving power	Turn vehicle key on.
	Incorrect, damaged, or corroded electrical connections	Verify all winch electrical connections are per instruction manual and free of damage and/or corrosion.
	Keyed power circuit (orange wires) not properly powered	Check 10A accessory circuit fuse for continuity; replace as required.
Winch makes noise but rope/cable does not move	Contactors powered, but not winch	If clicking sound is heard when winch control button is depressed, but winch motor is silent, then verify electrical connections between winch and contactors are free of damage and/or corrosion. If winch makes noise but does not move, verify winch is in gear. If winch is in gear, but winch still does not move, have a dealer inspect the winch.
Winch operates too slowly	Winch is improperly loaded	Verify rope/cable is not binding on spool or fairlead.
Winch will not change gears	Rope/cable is under load	Changing gears while under load is intentionally difficult to prevent accidental operation, which could lead to personal injury or winch failure. Ensure rope/cable is under no tension, and rope/cable is not binding on spool or fairlead. Briefly operate winch, 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.

