

# AUTOSTOP KIT



**P/N 2883454**

## APPLICATION

Verify accessory fitment at [Polaris.com](http://Polaris.com).

### IMPORTANT

This Autostop Kit is intended for use with HD 4500 Lb. Winch Kit (PN 2882714).

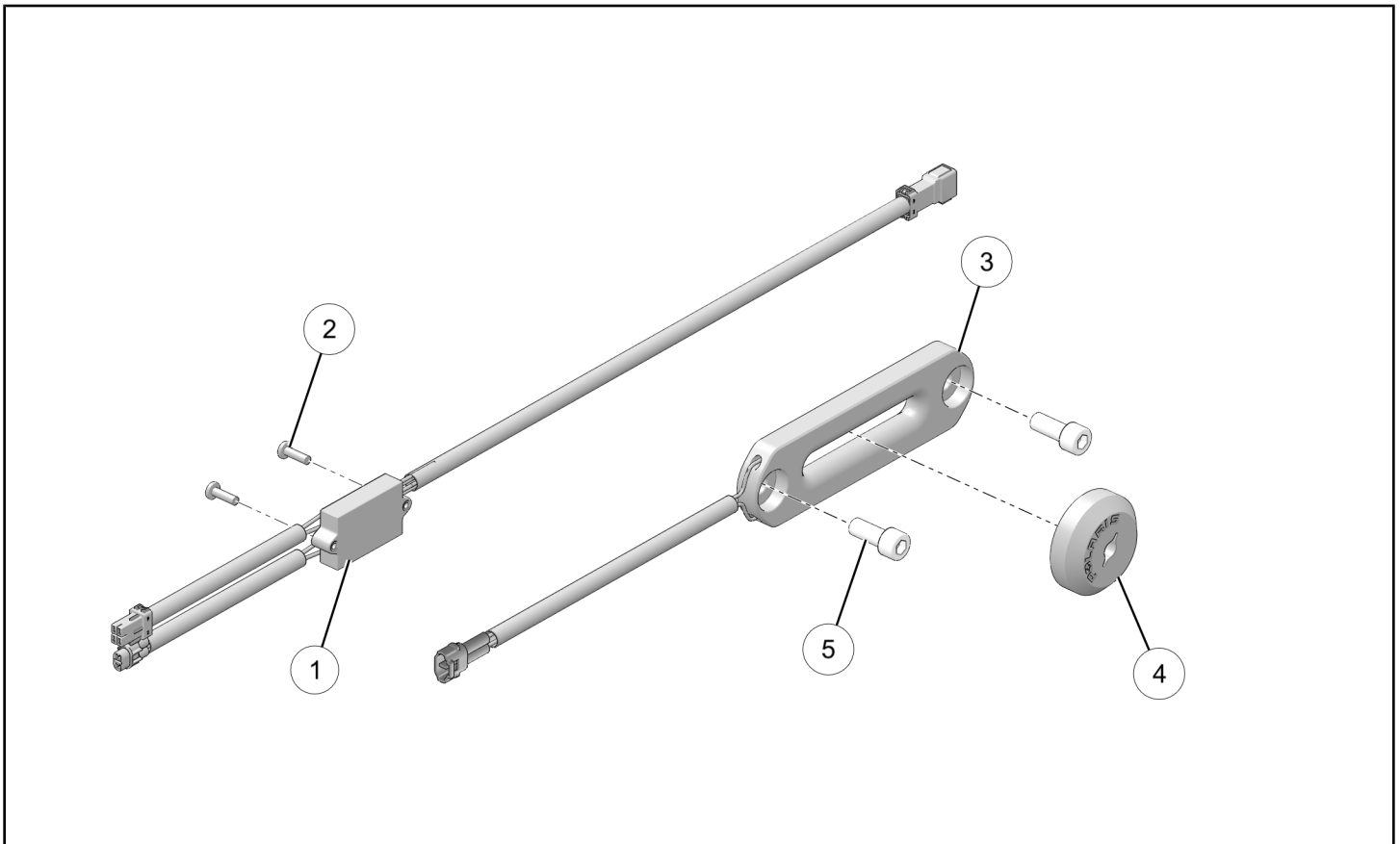
## BEFORE YOU BEGIN

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 contains parts for installation of the autostop and related components only. Installation of the Synthetic Winch Rope Kit, PN 2879187, is also required (sold separately).

This Kit includes:



REF	QTY	PART DESCRIPTION	PART NUMBER
1	1	Controller, Autostop	-
2	2	Screw, Torx® Pan Head, High/Low - #10 X 0.75	7512026
3	1	Fairlead, Autostop	-

REF	QTY	PART DESCRIPTION	PART NUMBER
4	1	Stop, Magnetic	-
5	2	Screw, Socket Cap - M10 X 1.5 X 25	7517358
6	1	Cotter Pin (not shown)	-
7	5	Cable Tie (not shown)	-
	1	Instructions	9929287

## TOOLS REQUIRED

- Safety Glasses
- Pliers, Side Cutting
- Pliers, Slip Joint
- Screwdriver Set, Torx®
- Screwdriver, Slotted
- Socket Set, Hex Bit, Metric
- Socket Set, Metric
- Torque Wrench
- Wrench Set, Metric

## IMPORTANT

Your Autostop 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.

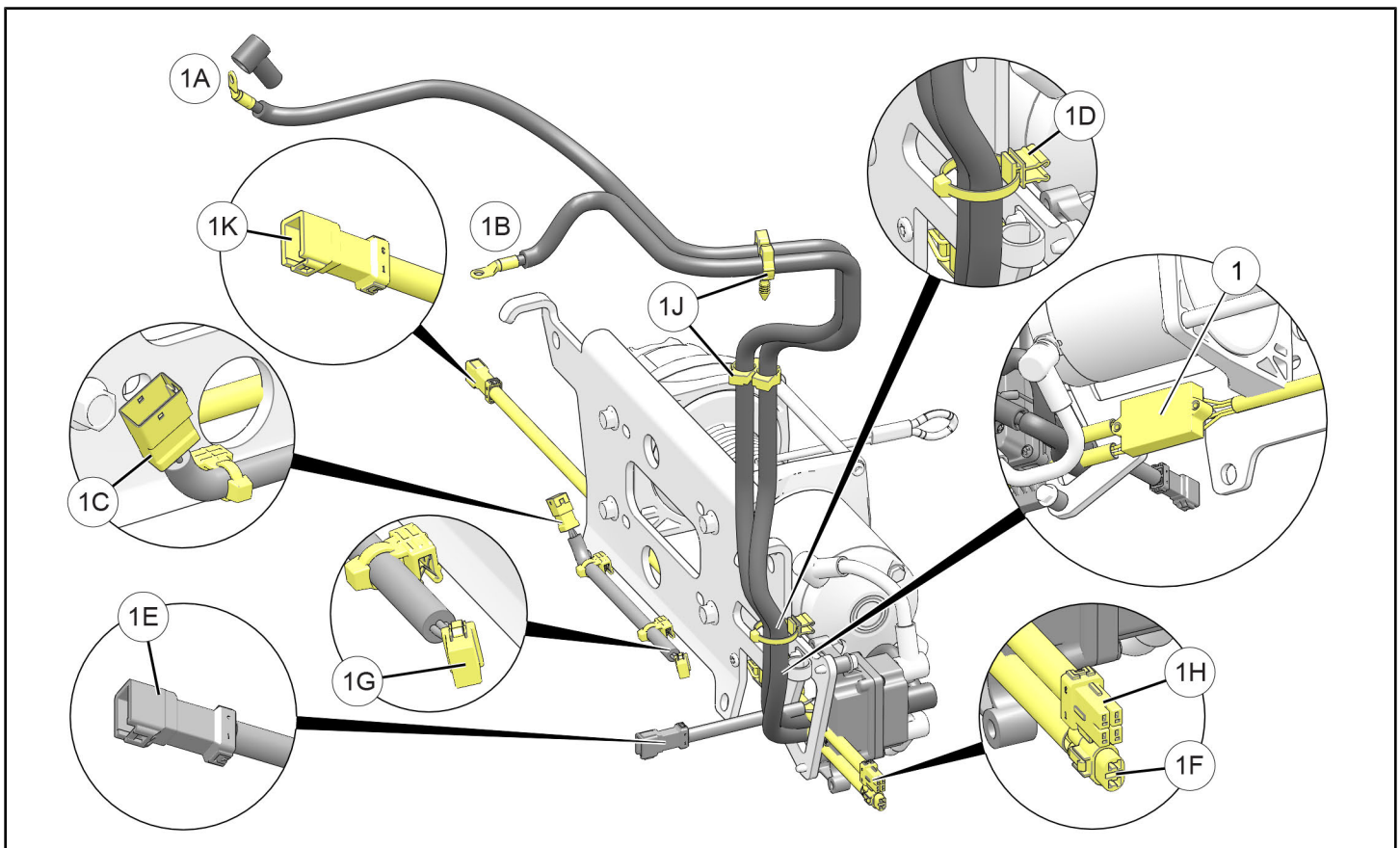
## ASSEMBLY TIME

Approximately 60 minutes

### NOTE

Additional time may be required to accommodate other installed accessories.

## HARNESS DETAIL



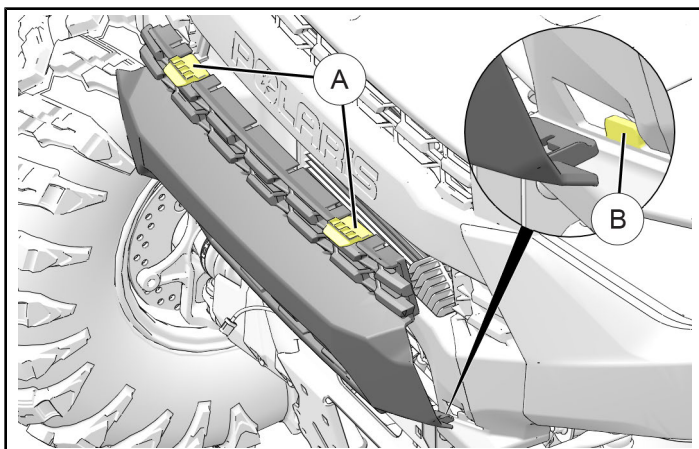
REF	PART DESCRIPTION	WIRE COLOR	PIN QTY/ GENDER	PREVIOUS CONNECTION:	NEW CONNECTION:
1A	Ring Terminal, 45 degree (with cap) - 1/4 inch (6 mm)	Red	-	Terminal block, battery positive (+)	No change
1B	Ring Terminal - 1/4 inch (6 mm)	Black	-	Chassis ground / battery negative (-)	No change
1C	Connector, Extension Harness	-	4 male	Main vehicle harness breakout	None; extension harness not used
1D	Clip, Edge	-	-	Vehicle structure	No change
1E	Connector, Contactor	-	4 male	Connector 1G	Connector 1H
1F	Connector, Autostop Controller	-	2 female	None	Autostop fairlead ③
1G	Connector, Extension Harness	-	4 female	Connector 1E	nothing; extension harness not used
1H	Connector, Autostop Controller	-	4 female	None	Connector 1E
1J	Clip, Routing	-	-	Vehicle structure	No change
1K	Connector, Autostop Controller	-	4 male	None	Main vehicle harness breakout; see instructions for detail

## INSTALLATION INSTRUCTIONS

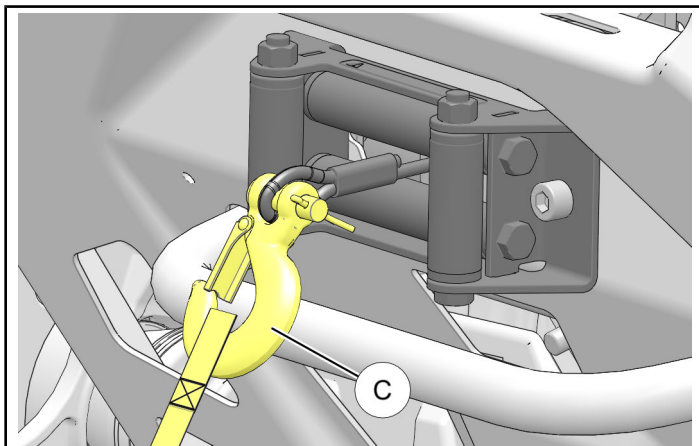
1. Shift vehicle transmission into "PARK". Turn ignition switch to "OFF" position and remove key.
2. Flip up passenger seat bottom, remove driver's seat and underseat storage compartment, then disconnect black negative (-) cable from battery.
3. Gain access.
  - a. Remove hood.
  - b. Remove lower grille by carefully depressing two tabs **A** at top of grille, tip grille outward, then lift grille out of two lower side tabs **B** in upper fascia.

### NOTE

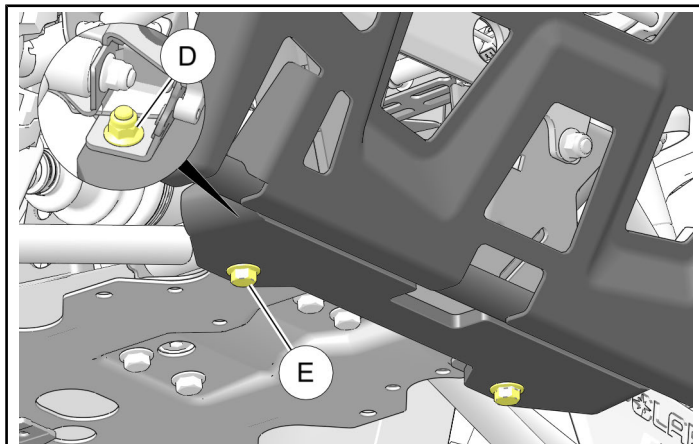
Bumper and winch hidden for clarity.



- c. Remove hook **C** from end of cable by removing cotter pin and clevis pin. Retain clevis pin. Cotter pin will not be reused.



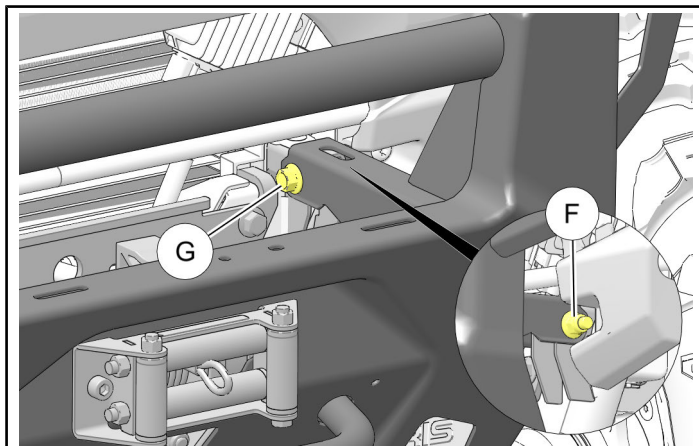
- d. Remove nut **D** and screw **E** from bottom of bumper. Repeat for opposite side. Retain hardware.



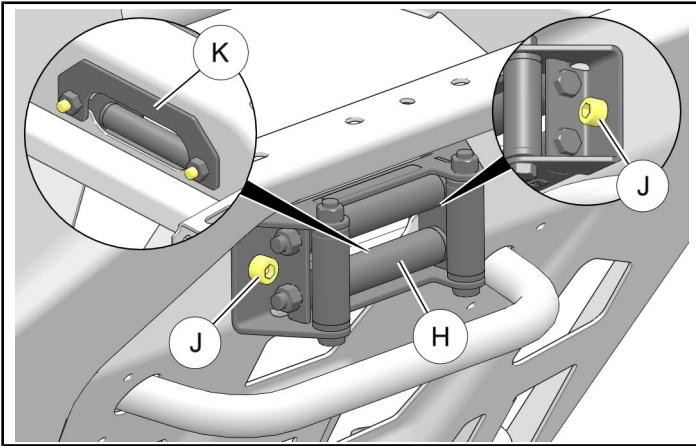
### CAUTION

Bumper and fairlead assembly weighs approximately 50 lbs. (23 kg). Provide adequate support for bumper before removing final screws. Failure to comply may result in personal injury or damage to bumper.

- e. While supporting bumper, remove nut **F** and screw **G**. Repeat for opposite side, then remove bumper and set aside. Retain hardware.



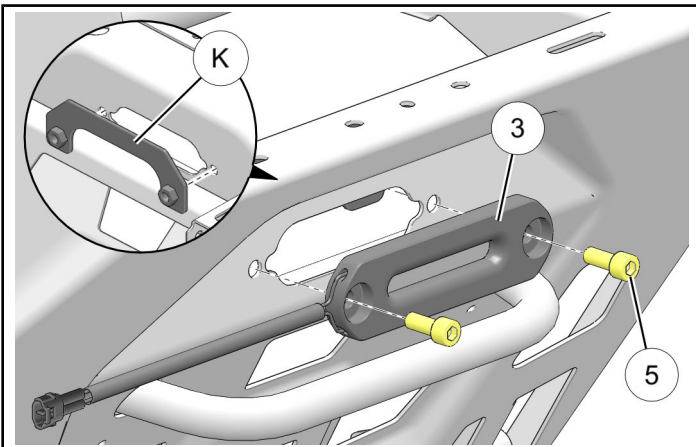
4. Replace standard fairlead with autostop fairlead.
  - a. Remove standard fairlead **H** by removing two screws **J** and fairlead backer plate **K**. Retain backer plate. Screws will not be reused.



- b. Install autostop fairlead **3** using two new screws **5** and retained fairlead backer plate **K**. Ensure proper orientation: electrical harness exits on RH side of bumper as shown. Torque screws to specification.

**TORQUE**

40 ft. lbs. (54 Nm) ± 10%

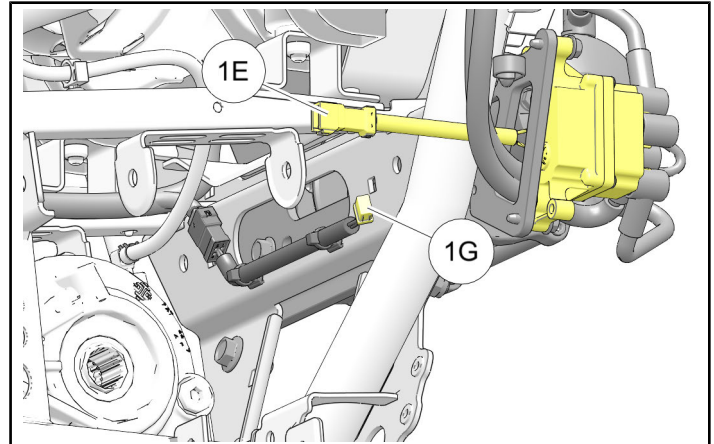


5. Remove winch.

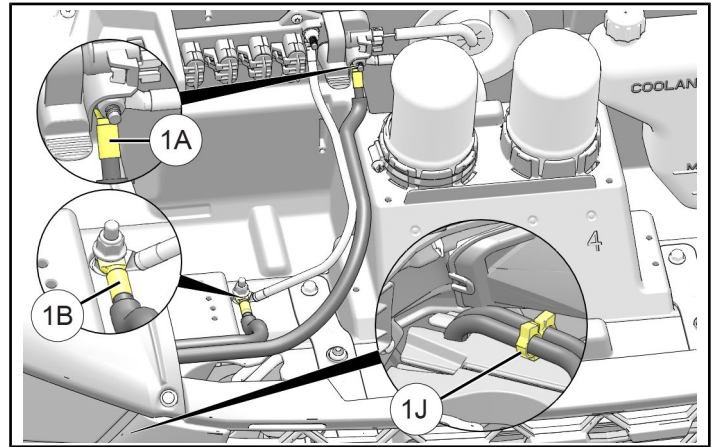
**NOTE**

See previous section, **HARNESS DETAIL**, for connector identification.  
View looking inboard from right front wheel well. Wheel hidden for clarity.

- a. Detach extension harness connector 1G from contactor connector 1E.



- b. Disconnect black wire ring terminal 1B from chassis ground. Temporarily reinstall nut by hand to secure vehicle ground cable.



- c. Detach red boot from terminal block battery positive (+), then disconnect red wire ring terminal 1A. Temporarily reinstall nut by hand to secure vehicle battery cable.

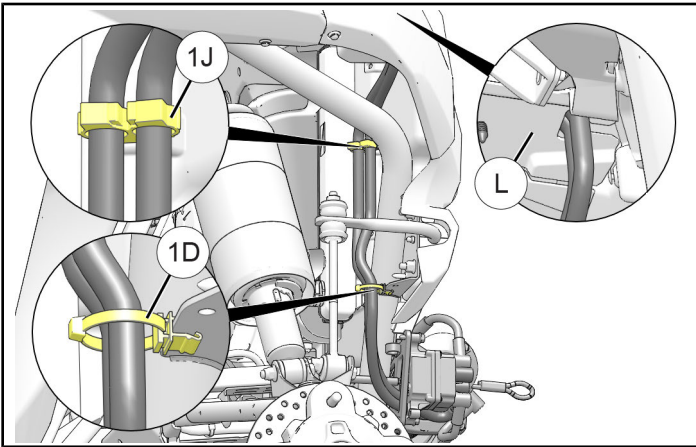
**NOTE**

Boot not shown for clarity.

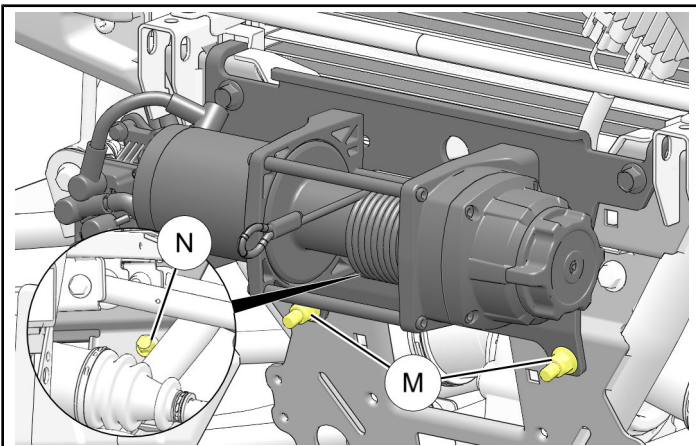
- d. Open upper routing clip 1J from both winch cables



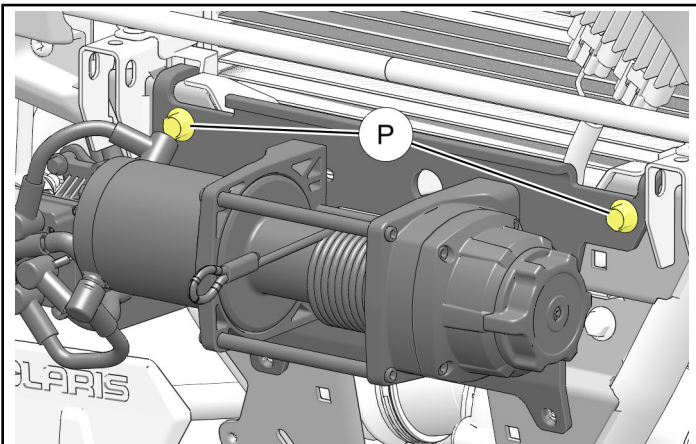
- e. Open lower routing clip 1J from both winch cables



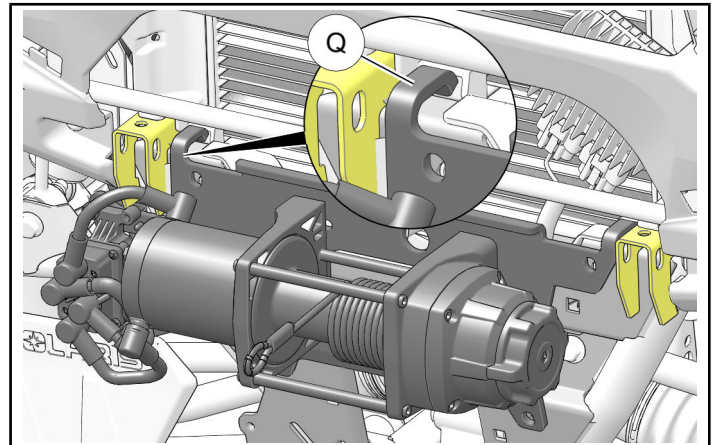
- f. Carefully cut cable tie at edge clip 1D. Ensure winch cables are not damaged.
- g. Carefully pull winch cables down through underhood liner L. Ensure winch cables are not damaged.
- h. Remove two each nuts M and screws N from lower mounting locations. Retain hardware.



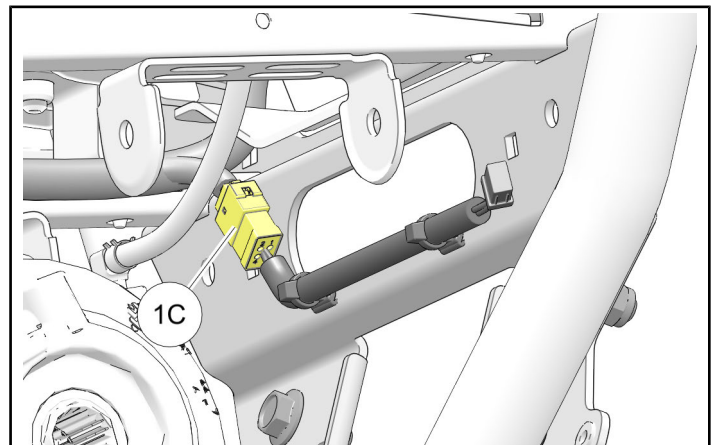
- i. Remove two screws P from upper mounting locations. Retain hardware.



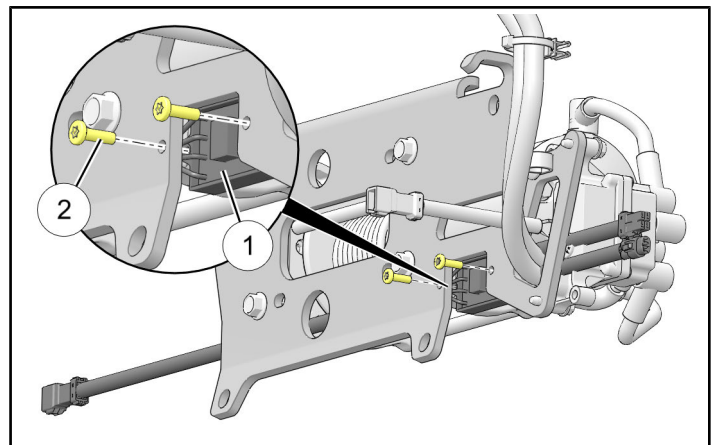
- j. Lift two rear hooks Q on winch frame from vehicle front support structure, then carefully pull assembly away from vehicle, ensuring winch cables and contactor harness do not snag on structure.



- k. Detach extension harness connector 1C from main vehicle harness breakout, then remove winch extension harness. Harness will not be reused.



6. Install autostop controller 1 to winch frame using two screws 2. Ensure proper orientation: Connectors 1H and 1F exit towards RH side of winch assembly, and connector 1K exits toward LH side of winch assembly. Tighten screws.

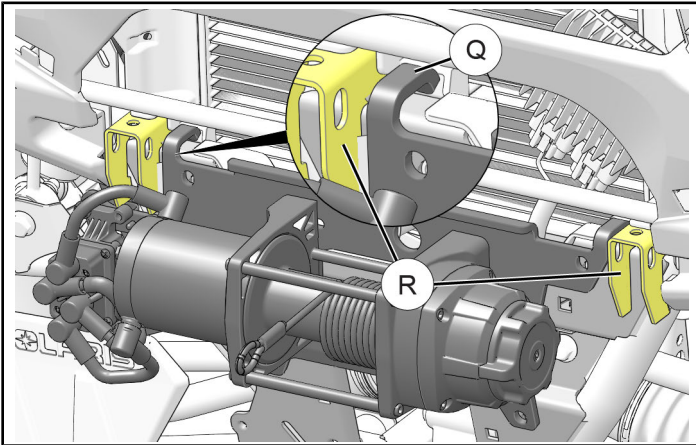


7. Replace existing steel cable using Synthetic Winch Rope Kit, PN 2879187 (sold separately).

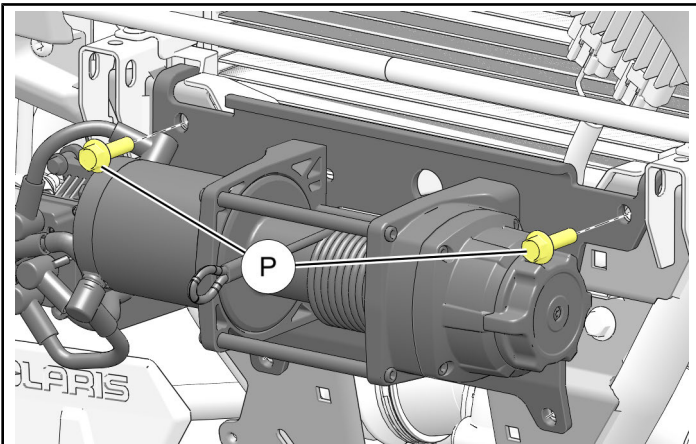
**IMPORTANT**

Steel cable is not compatible with autostop fairlead and magnetic stop.

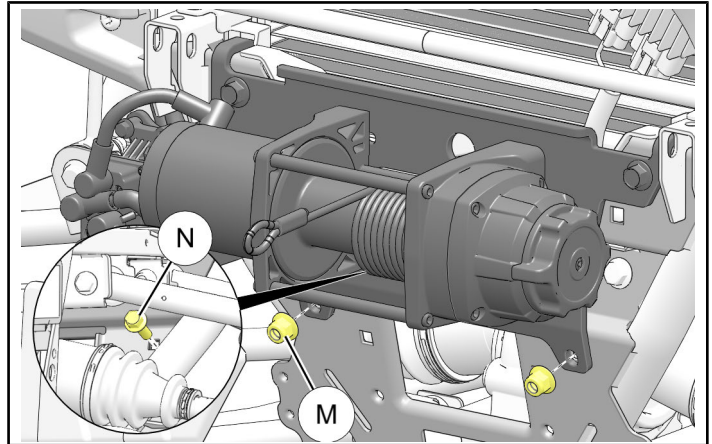
8. Reinstall winch.
  - a. Hang winch frame rear hooks **Q** on vehicle front support structure, centered between two bumper support brackets **R**. Ensure autostop controller harnesses are not pinched.



- b. At UPPER fastener holes loosely reinstall two retained 20 mm long screws **P** REARWARD through winch frame into vehicle front support structure.



- c. At LOWER fastener holes reinstall two retained 25 mm long screws **N** FORWARD through vehicle front support structure and winch, then secure each screw with nut **M**.



- d. Torque screws **P** and nuts **M** to specification.

**TORQUE**

40 ft. lbs. (54 Nm) ± 10%

9. Route, secure, and reconnect winch cables.

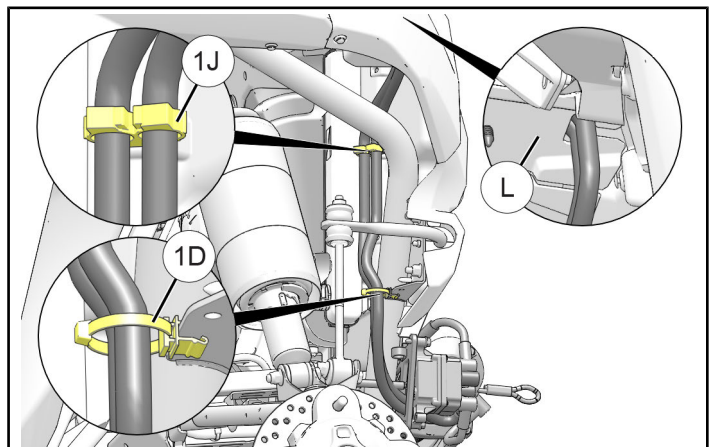
**NOTE**

See previous section, **HARNES DETAIL**, for connector identification.  
View looking inboard from right front wheel well. Wheel hidden for clarity.

- a. Route winch cables back up through cut-out in under-hood liner **L**. Secure cables to vehicle using edge clip 1D and lower routing clip 1J.

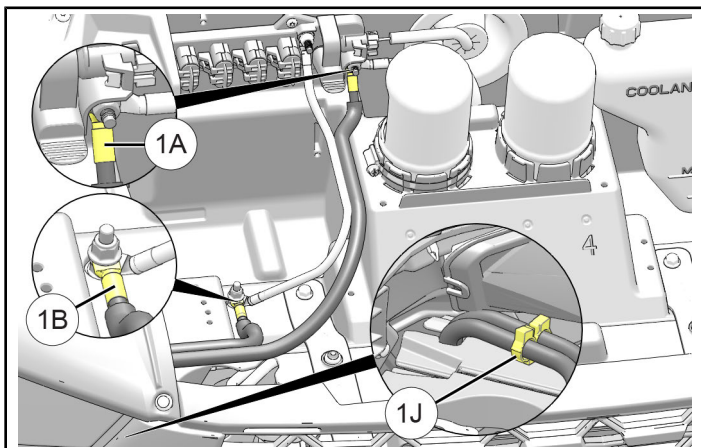
**NOTE**

If cable tie was cut during removal, secure cables to edge clip using new cable tie **7**.





- b. Secure winch cables to under-hood liner using upper routing clip 1J.



- c. Join **RED** wire 45 degree ring terminal 1A to terminal block battery positive (+). Torque nut to specification, then install boot.

#### TORQUE

30 in. lbs. (3.4 Nm) ± 10%

#### NOTE

Red boot not shown for clarity.

- d. Join **BLACK** wire straight ring terminal 1B to chassis ground / battery negative (-). Torque nut to specification.

#### TORQUE

8 ft. lbs. (11 Nm) ± 10%

#### 10. Connect electrical harnesses.

#### IMPORTANT

Ensure harness routing will prevent contact with hot components, sharp edges, or moving parts.

#### NOTE

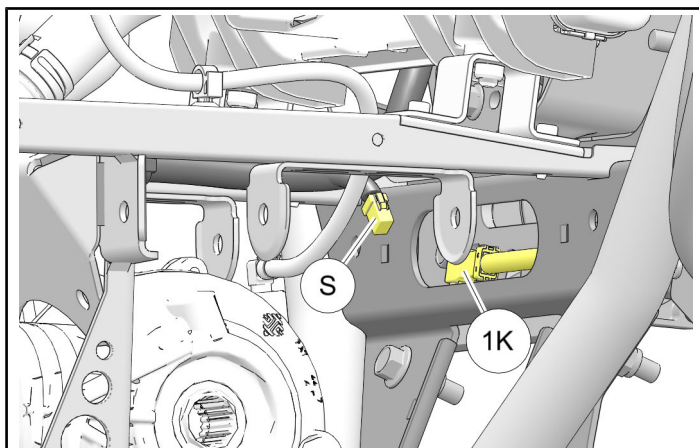
See previous section, **HARNES DETAIL**, for connector identification.

- Join autostop controller connector 1F to autostop fairlead ③.
- Join autostop controller connector 1H to contactor connector 1E.

- c. Join autostop controller connector 1K to main vehicle harness breakout connector ⑤.

#### NOTE

Breakout connector ⑤ was previously joined to extension harness connector 1C.

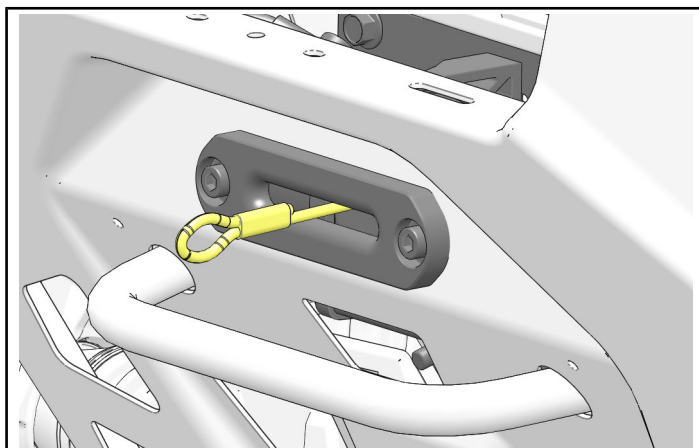


#### 11. Reinstall bumper.

- While lifting bumper into position thread loop at end of rope through bumper and autostop fairlead ③.

#### NOTE

Harness for autostop fairlead not shown.



- Loosely install middle of bumper to vehicle frame using two each retained screws ⑥ and nuts ⑦. See Step 3e.
- Install bottom of bumper to vehicle frame using two each retained screws ⑤ and nuts ④. See Step 3d.
- Torque bumper mounting fasteners to specification.

#### TORQUE

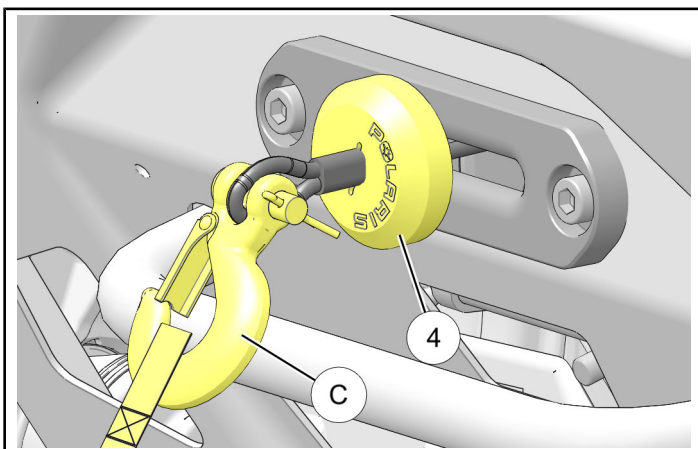
40 ft. lbs. (54 Nm) ± 10%



12. Reinstall lower grille. See Step 3b.
13. Install magnetic stop and hook.
  - a. Thread loop at end of rope through magnetic stop ④. Ensure stop is oriented with WIDE end (with magnet) towards winch, and BEVELED end (with "POLARIS") towards hook.

#### TIP

Loop a cable tie ⑦ to end of rope, but do not tighten. Thread looped cable tie through magnetic stop, then pull cable tie and rope through magnetic stop.



- b. Reinstall hook ③ to loop at end of cable using retained clevis pin and NEW cotter pin ⑥. Ensure cotter pin is secured.
14. Secure all harnesses using cable ties ⑦ as required to prevent contact with hot components, sharp edges, or moving parts.
15. Reconnect black negative (-) cable to battery, then reinstall under-seat storage compartment and driver's seat.
16. Reinstall hood.

## OPERATION

### OPERATIONAL CHECK

#### IMPORTANT

The Autostop system is intended to prevent winch damage caused by over-tightening the rope, but cannot prevent all possible 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, as described in the "Winch User Guide" included in the winch kit. The Autostop system should only be used as a secondary preventive measure to help prevent damage to the winch from over-tightening the rope.

#### NOTE

During rope recovery the winch should automatically stop when the magnetic stop ④ comes close to or contacts the autostop fairlead ③ (within approximately 1 inch (25 mm)). Magnets in the stop trigger sensors in the fairlead, stopping the winch.

## 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.
	Wireless remote not powered on	Turn wireless remote 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 operates in one direction only	Autostop fairlead not properly connected	If winch operates only outward then ensure magnetic stop (black rubber puck) is not touching autostop fairlead. If winch operates inward even when magnetic stop is touching fairlead then verify all winch electrical connections are per instruction manual and free of damage and/or corrosion.
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.

