

# PARTICLE SEPARATOR KIT



P/N 2884629

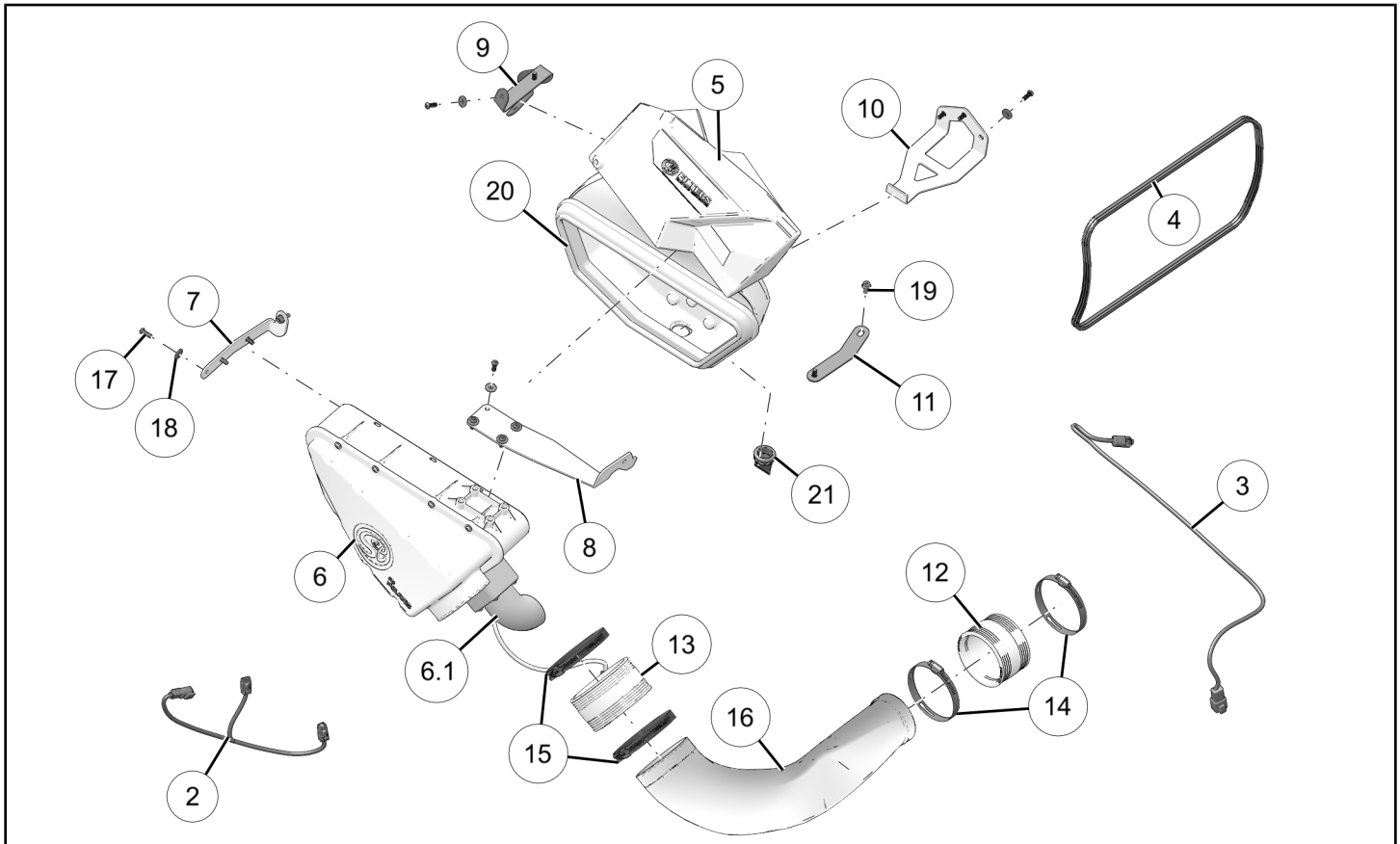
## BEFORE YOU BEGIN

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.

## APPLICATION

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

## KIT CONTENTS



REF	QTY	PART DESCRIPTION	P/N AVAILABLE SEPARATELY
1	1	Harness–Particle Separator (not shown)	2415431
2	1	Harness–Particle Separator, Y-Splitter	2415895
3	1	Harness–Ignition Sensor	2415920
4	1	Seal–Airbox	5815000
5	1	Assembly–Side Cover, Scoop	n/a
6	1	Assembly–Intake	n/a
6.1	1	- Assembly–Fan	2415447
7	1	Bracket–Rear	n/a

REF	QTY	PART DESCRIPTION	P/N AVAILABLE SEPARATELY
8	1	Bracket–Front	n/a
9	1	Bracket–Rear, Side Cover	n/a
10	1	Bracket–Bottom	n/a
11	1	Bracket–Front, Side Cover	n/a
12	1	Coupler, Circular	n/a
13	1	Coupler, Oval	n/a
14	2	Clamp–Hose, #56	n/a
15	2	Clamp–Hose, #80	n/a
16	1	Tube–Intake	n/a
17	13	Screw–Hex Button Head, M6 x 18 mm	n/a
18	13	Washer–M6	n/a
19	2	Screw–Hex Head Flange, M6 x 16 mm	n/a
20	1	Seal–Side Cover	n/a
21	1	Valve-Check	n/a
22	10	Cable Tie, 8 in (not shown)	n/a

## TOOLS REQUIRED

- Safety Glasses
- Hex Key Set, Metric
- Pliers, Push Pin Rivet
- Socket Set, Hex Bit, Metric
- Socket Set, Metric
- Socket Set, Torx® Bit
- Torque Wrench
- Wrench Set, Metric

## CONSUMABLES REQUIRED

- Tape, Electrical

## IMPORTANT

Your Particle Separator 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

### VEHICLE PREPARATION

#### GENERAL

1. Shift vehicle transmission into PARK.
2. Turn key to OFF position and remove from vehicle.

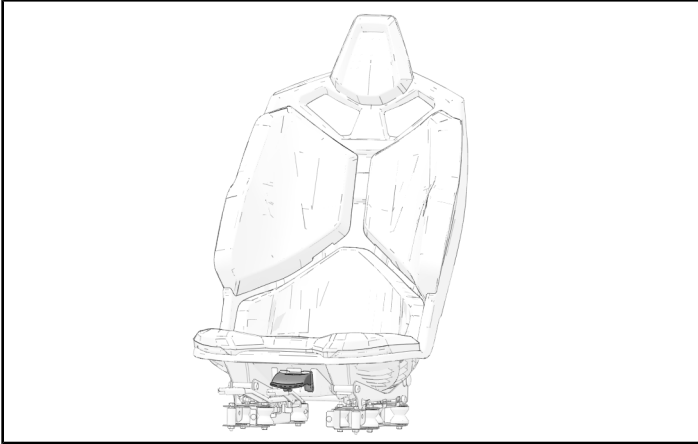
## SEAT REMOVAL

### FRONT SEAT REMOVAL

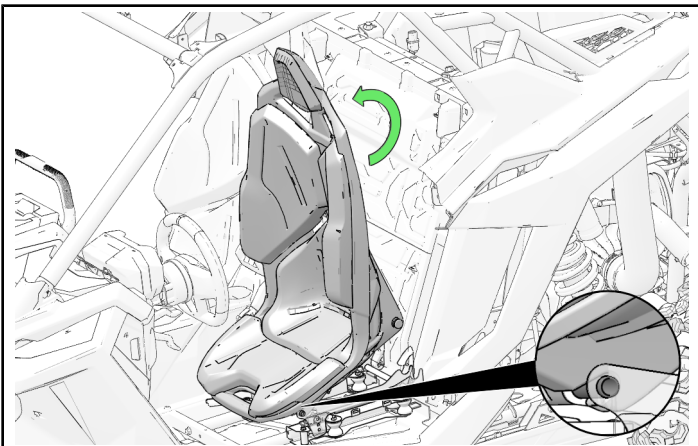
#### NOTICE

Driver seat shown; passenger seat similar.

1. Pull up on lever, located below front of seat.



2. Tilt seat assembly forward and pull back slightly to disengage from receiver tube and remove seat from vehicle.

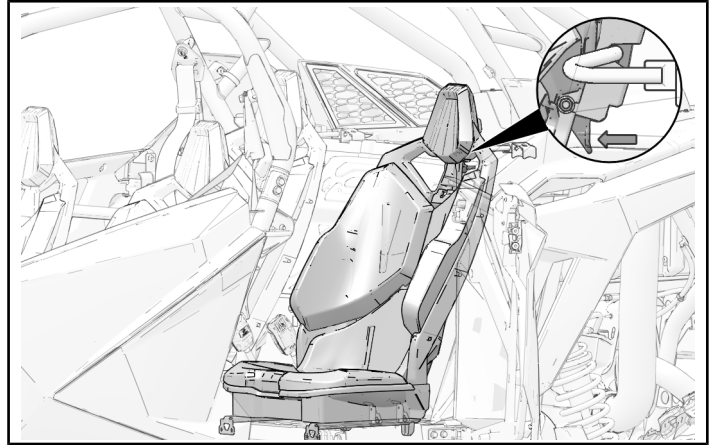


### REAR SEAT REMOVAL

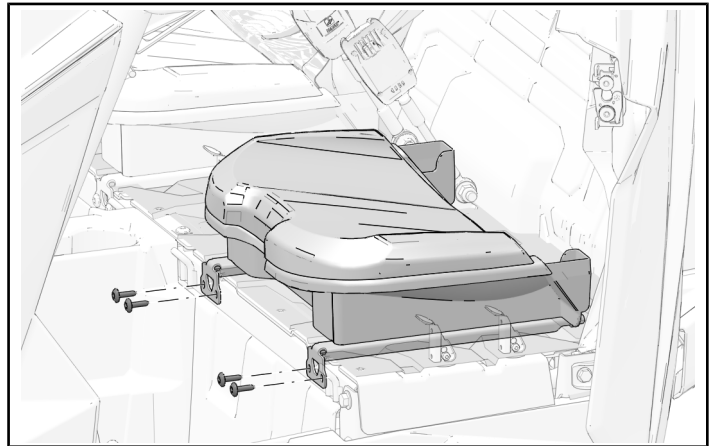
#### NOTE

Left rear seat shown; right rear similar.

1. Push lever on back of headrest to disengage from receiver tube. Remove seat backrest from vehicle.



2. Remove and retain four seat bracket fasteners. Remove seat from rear seat panel.

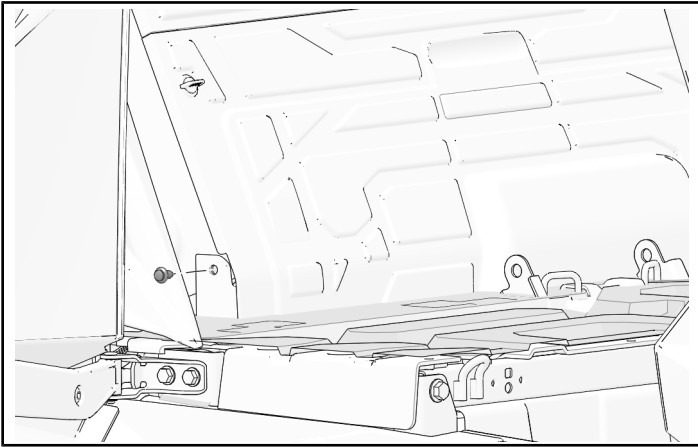


### REAR SEAT PANEL REMOVAL

1. Remove and retain eleven seat panel fasteners.



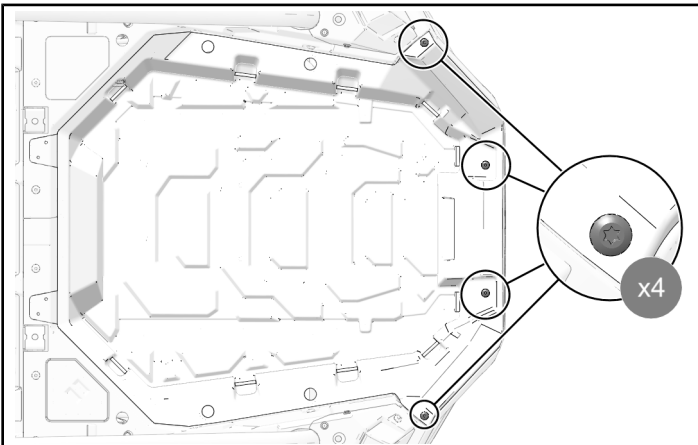
2. Remove and retain one push-pin rivet from right-rear of seat panel.



3. Remove seat panel from vehicle.

### CARGO BOX REMOVAL

1. Remove and retain four cargo box fasteners. Slide cargo box rearward to remove.

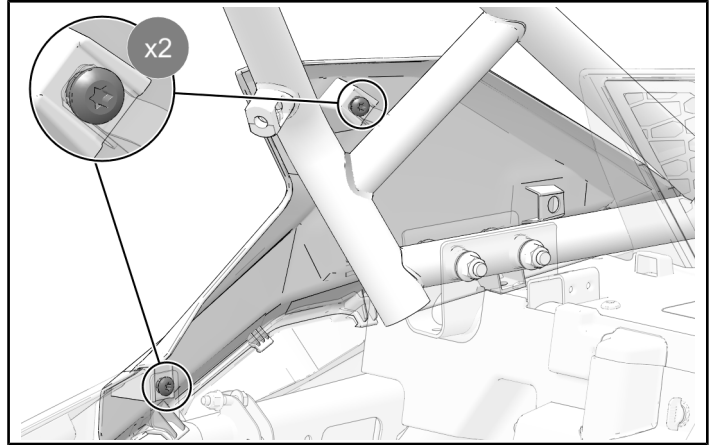


### REAR FENDER REMOVAL

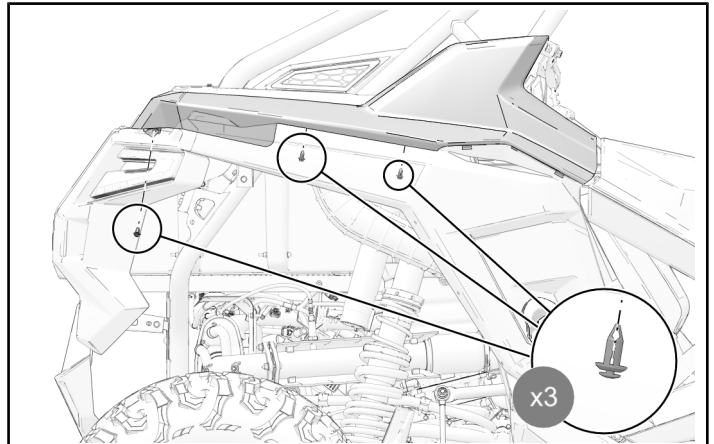
#### NOTICE

Right-hand shown; left-hand similar.

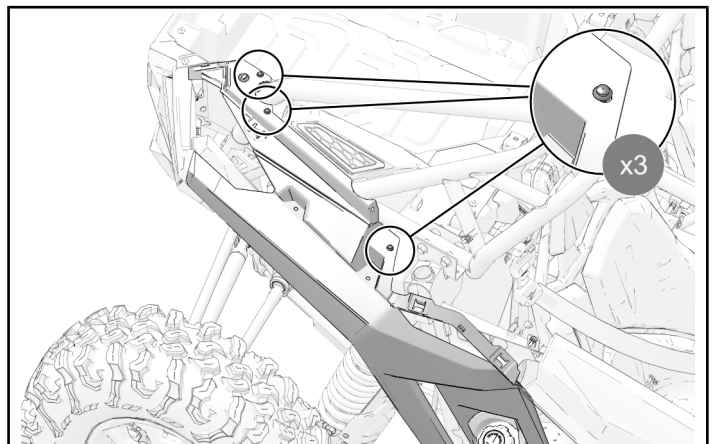
1. Remove and keep two fasteners from inside of fender.



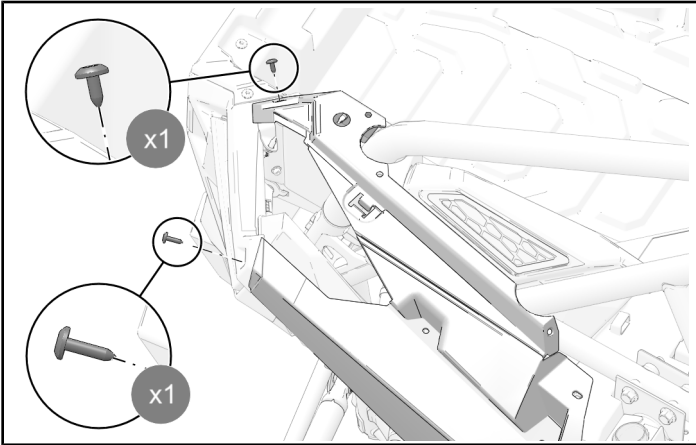
2. Reach under fender flare to remove three push-pin rivets, connecting fender flare to fender. Keep push-pin rivets. Carefully remove fender from vehicle. Fender is clipped into other body panels.



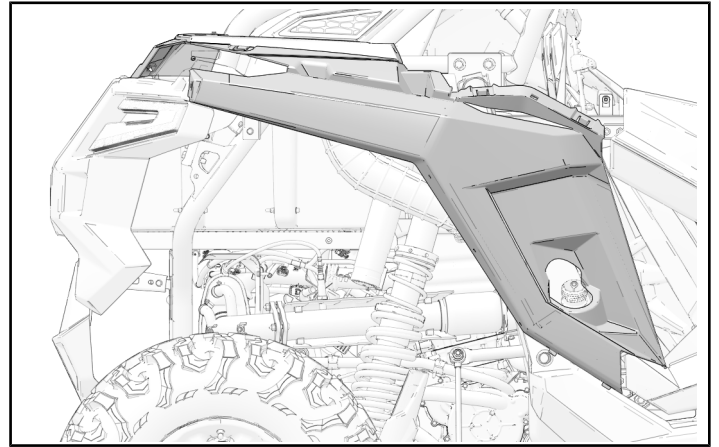
3. Remove and keep three push-pin rivets.



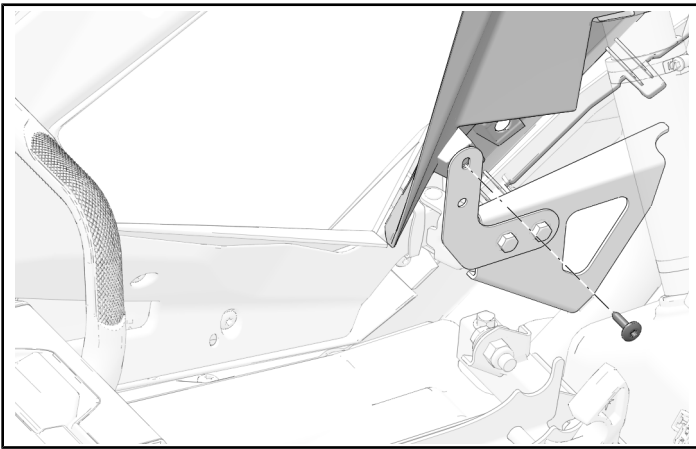
4. Remove and keep two fasteners from rear fascia. Note size differences.



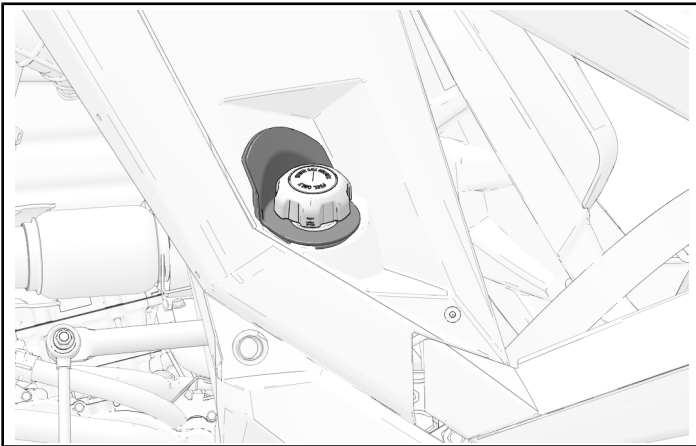
7. Carefully remove fender flare from vehicle. Fender flare is clipped into other body panels.



5. Remove and keep one fastener from between seat and fender flare panel.

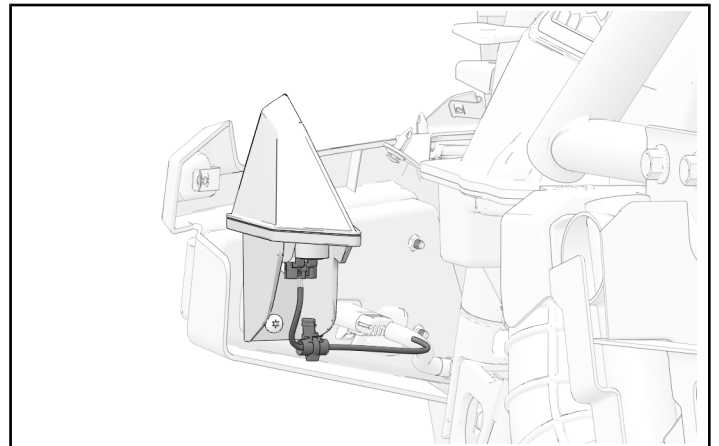


6. Right-hand fender only:  
Remove and keep gas cap and grommet.

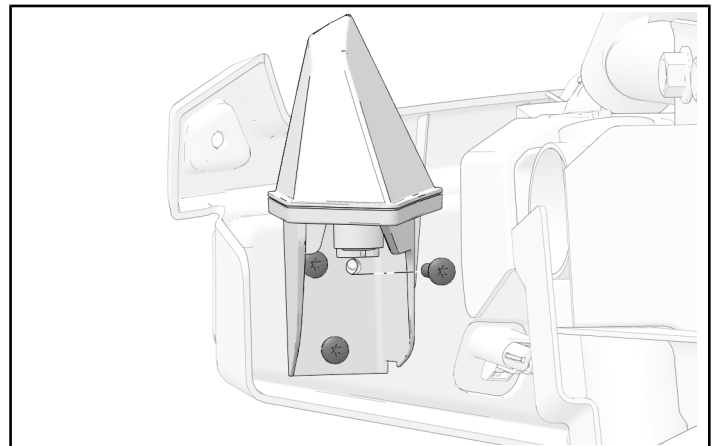


### **UPPER TAIL LIGHT REMOVAL**

1. Disconnect upper tail light.

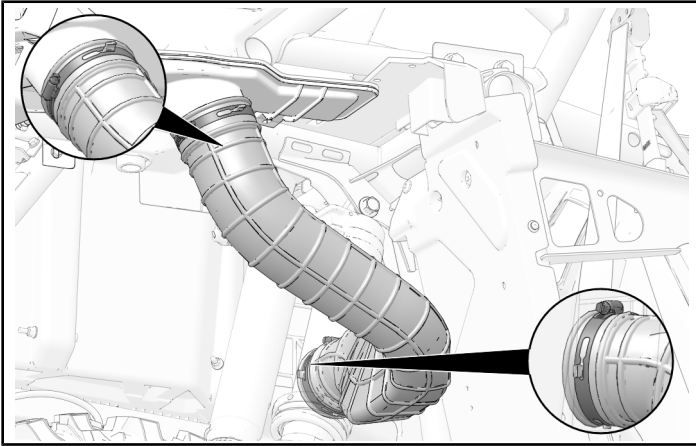


2. Remove three fasteners to remove tail light.

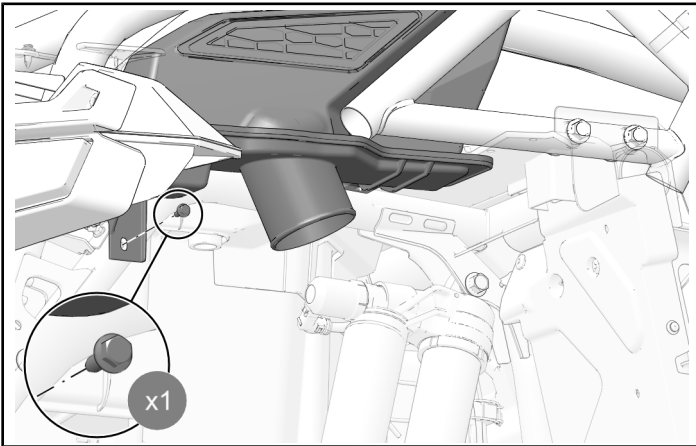


## INTAKE REMOVAL (RIGHT-HAND)

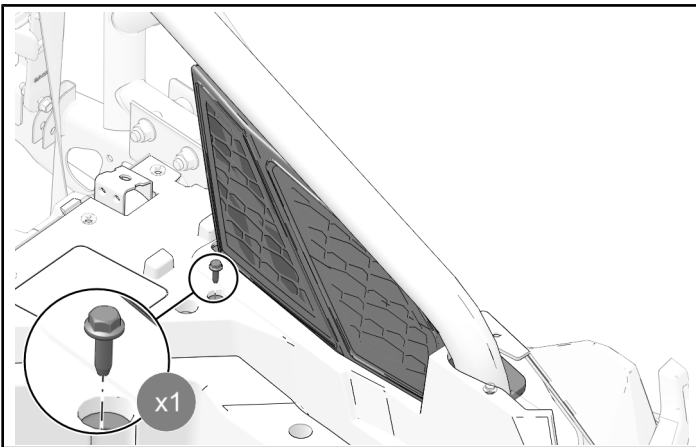
1. Remove two clamps to remove intake tube.



2. Remove one rear intake fastener.



3. Remove one top intake fastener.

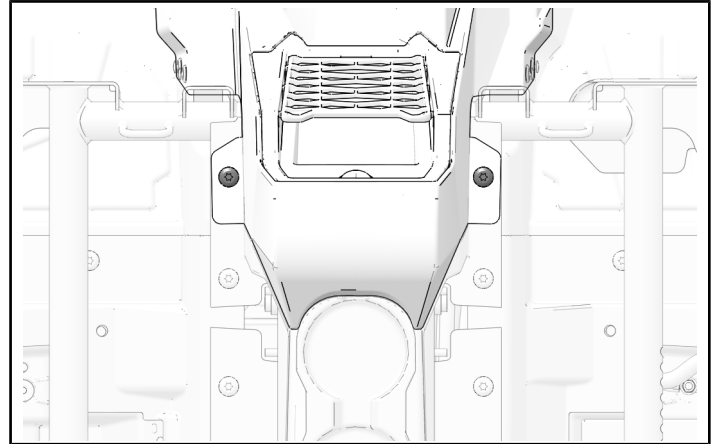


## REAR CENTER CONSOLE DISASSEMBLY

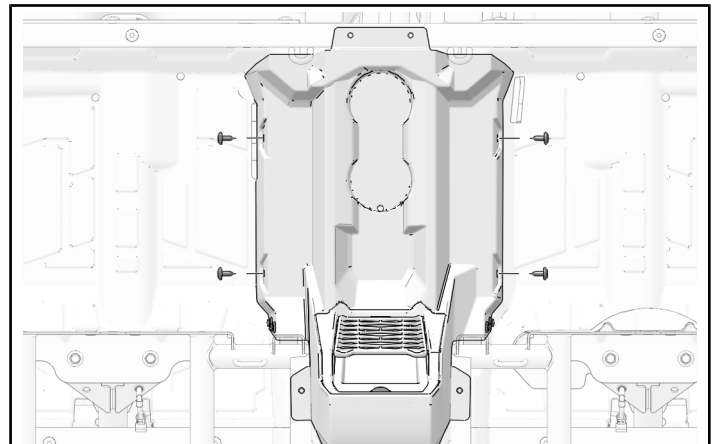
### IMPORTANT

Note size difference of fasteners removed in steps 1 and 2.

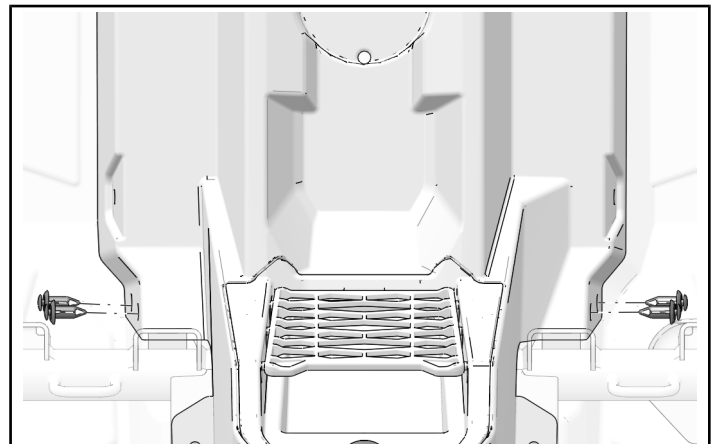
1. Remove and retain two center console top fasteners (longer).



2. Remove and retain four center console side fasteners (shorter).



3. Remove and retain four push-pin rivets.

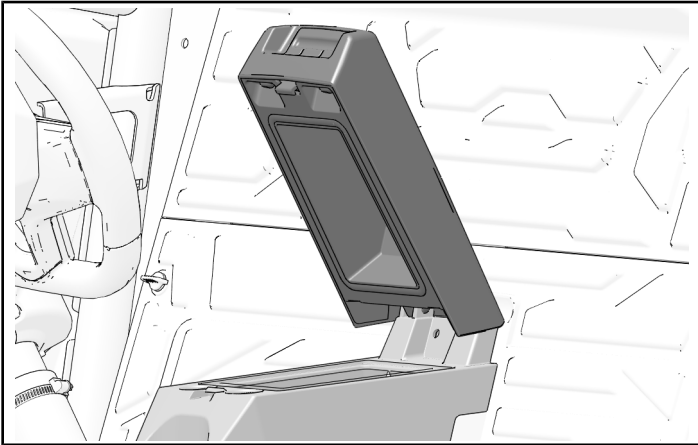


## FRONT CENTER CONSOLE DISASSEMBLY

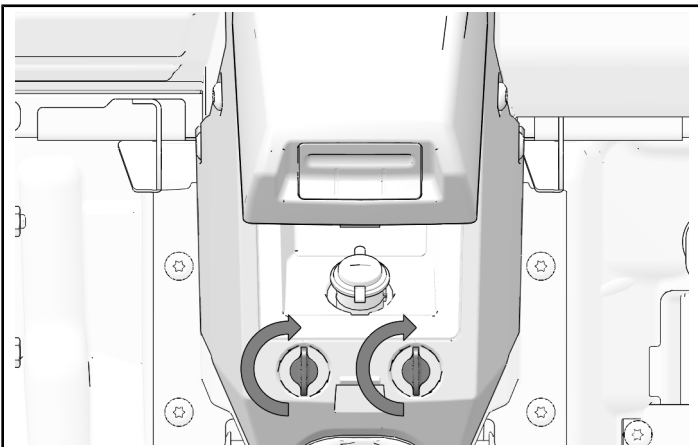
### STORAGE COMPARTMENT REMOVAL

Storage Compartment Removal applies to two-passenger vehicles only.

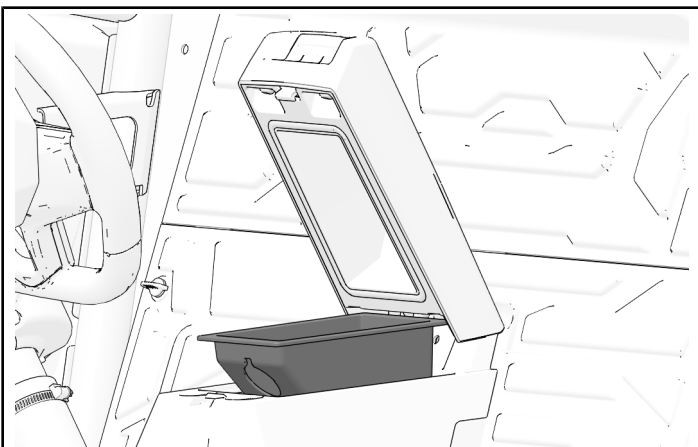
1. Open center console.



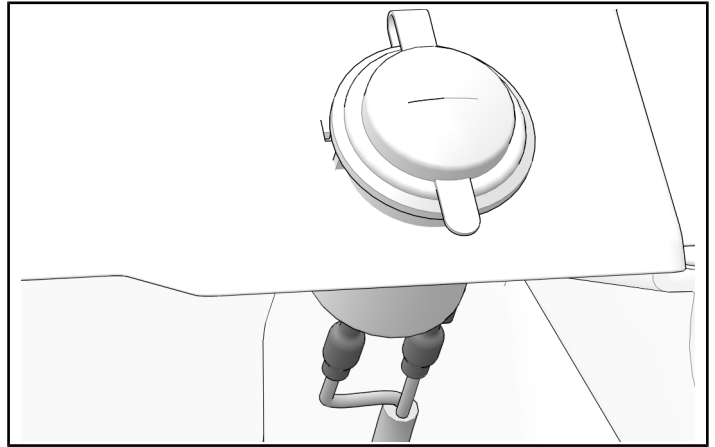
2. Turn each knob 1/4 to disengage from center console panel.



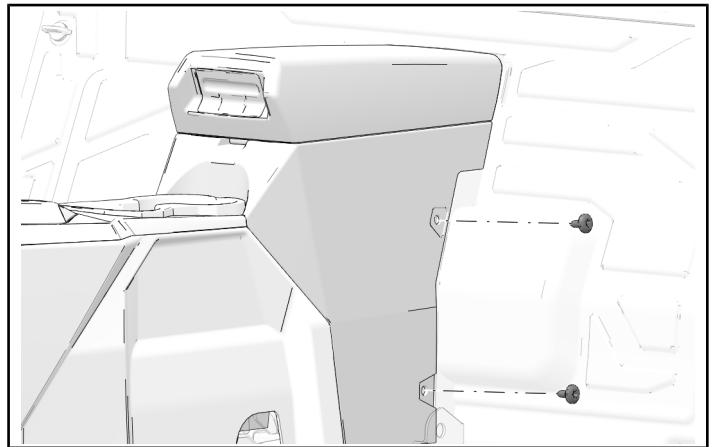
3. Remove and retain storage compartment.



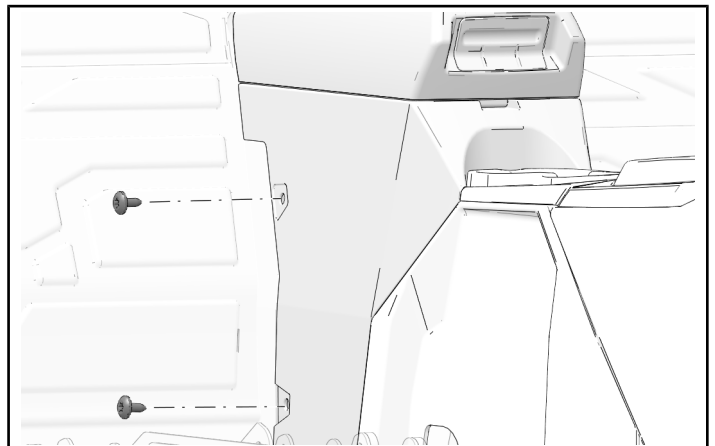
4. Disconnect 12 volt outlet from within center console cavity.



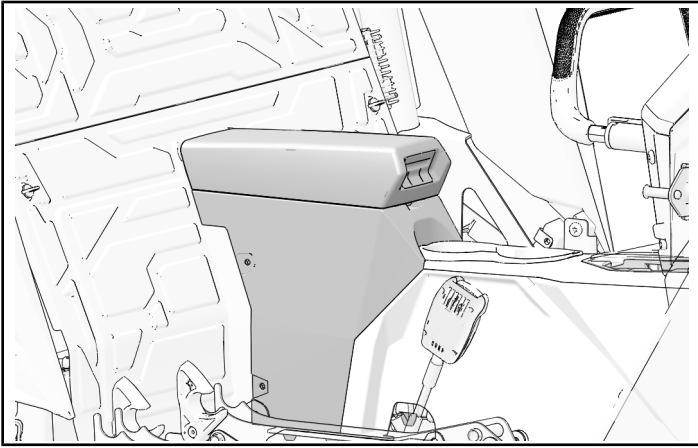
5. Remove and retain two center console fasteners from driver side.



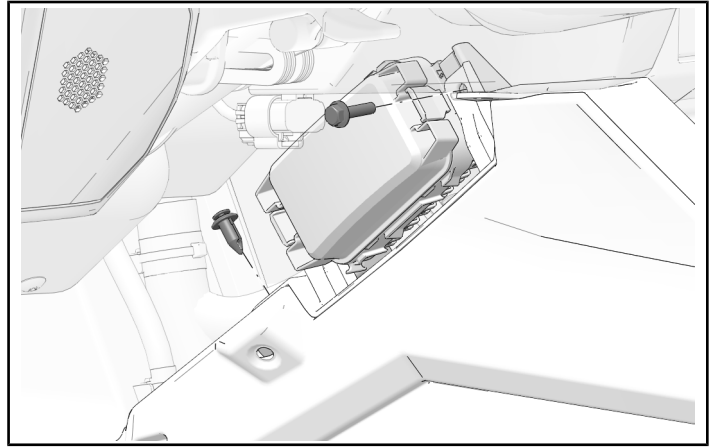
6. Remove and retain two center console fasteners from passenger side.



7. Remove center console storage compartment from vehicle.

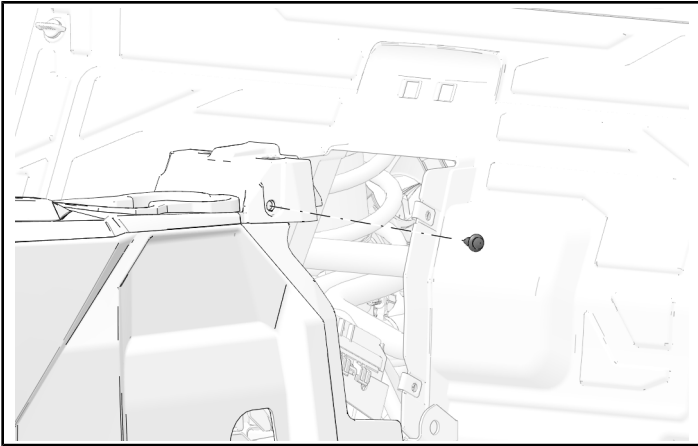


3. Remove and retain one push-pin rivet and fuse block fastener.

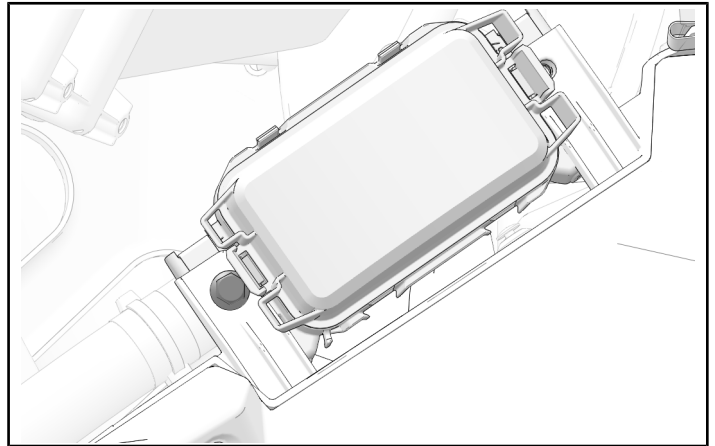


### LEFT-HAND PANEL DISASSEMBLY

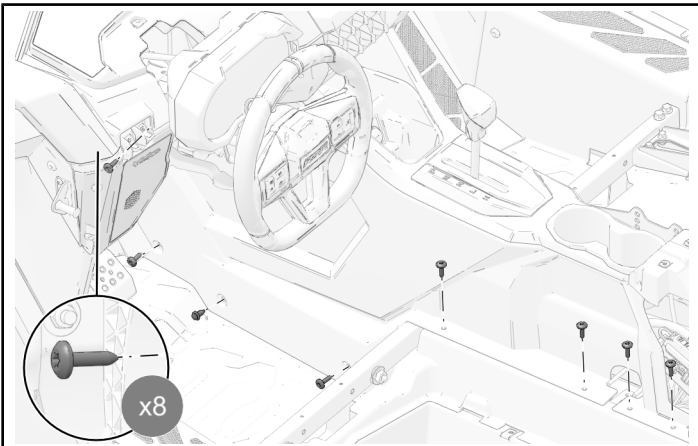
1. Remove and retain one push-pin rivet from center console.



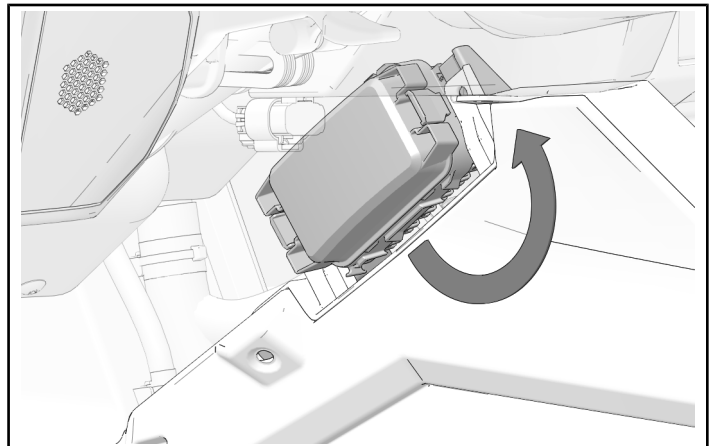
4. Loosen, but do not remove, left-hand fuse block fastener.



2. Remove and retain eight center console fasteners from driver's side.

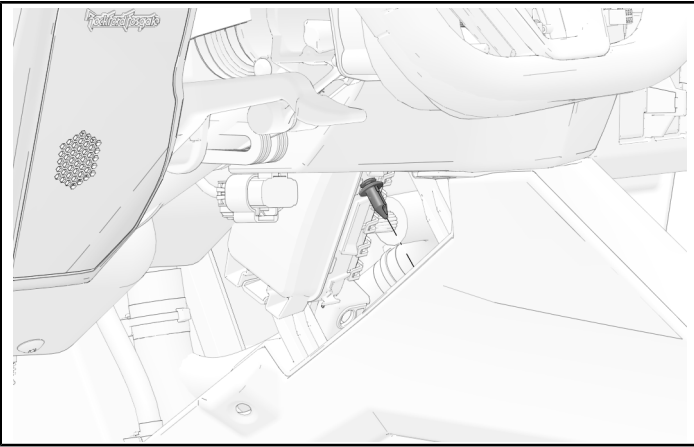


5. Rotate fuse block upwards towards front of vehicle to access push-pin rivet beneath fuse block.

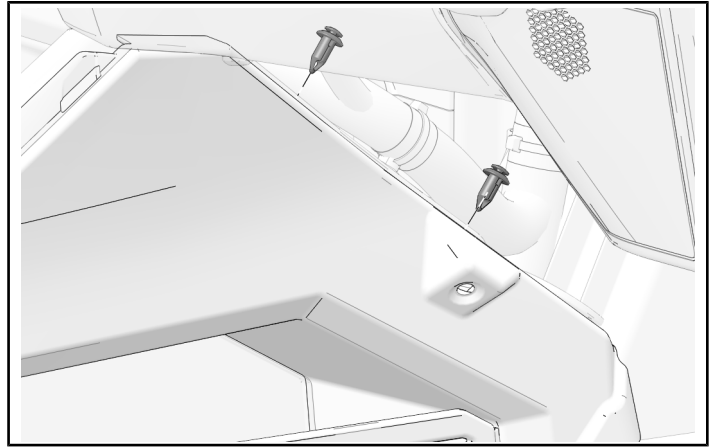




6. Remove and retain push-pin rivet.

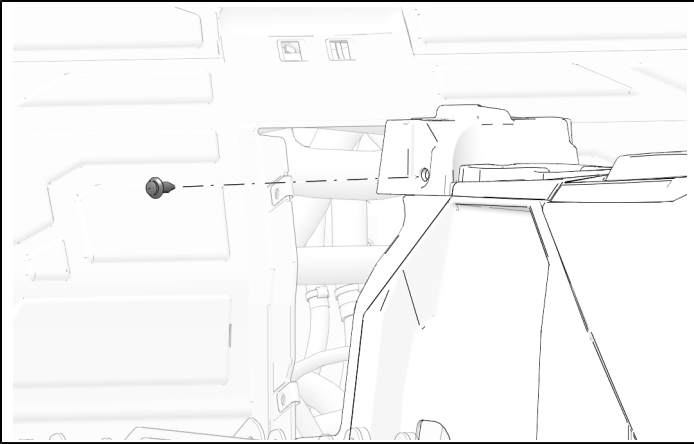


3. Remove and retain two push-pin rivets.

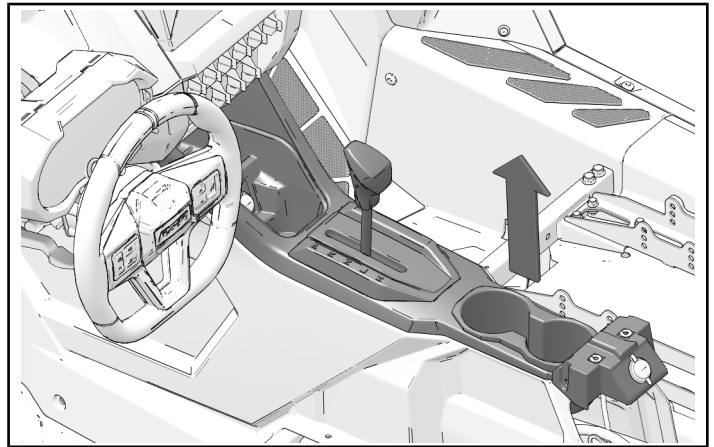


### RIGHT-HAND PANEL DISASSEMBLY

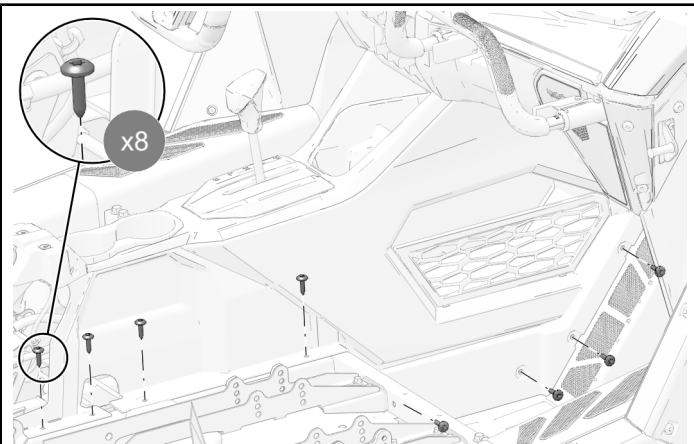
1. Remove and retain one push-pin rivet from center console.



4. Carefully lift center panel upwards to remove side panels from vehicle.

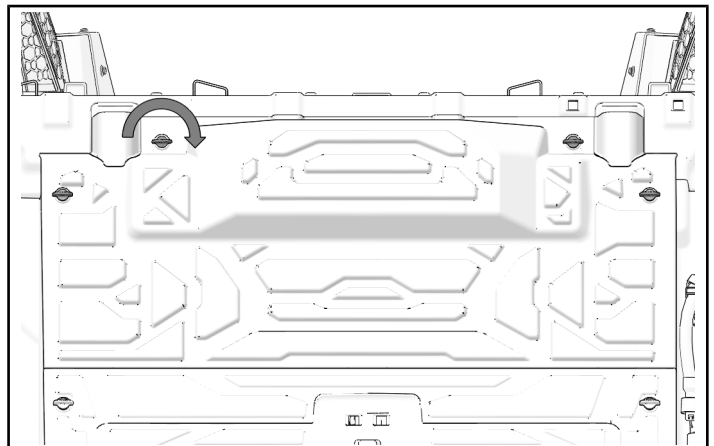


2. Remove and retain eight center console fasteners from passenger's side.

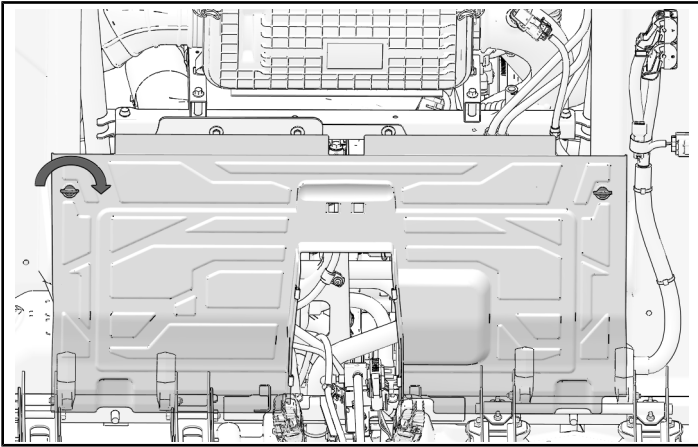


### **CLOSE-OFF PANEL REMOVAL**

1. Turn each knob 1/4 to disengage and remove top close-off panel.



- Turn each knob 1/4 to disengage and remove bottom close-off panel.

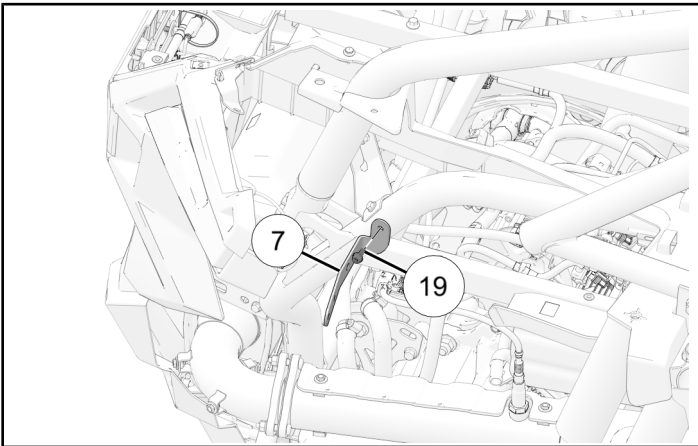


## ACCESSORY INSTALLATION

### PARTICLE SEPARATOR INSTALLATION

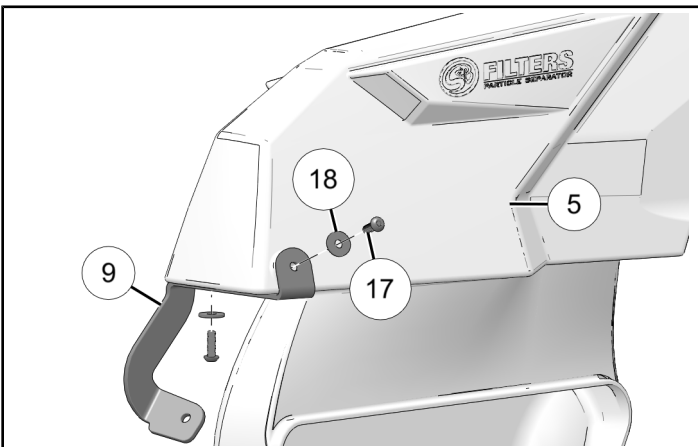
- Install rear bracket ⑦ with one fastener ⑲.

Do not torque fastener at this time.



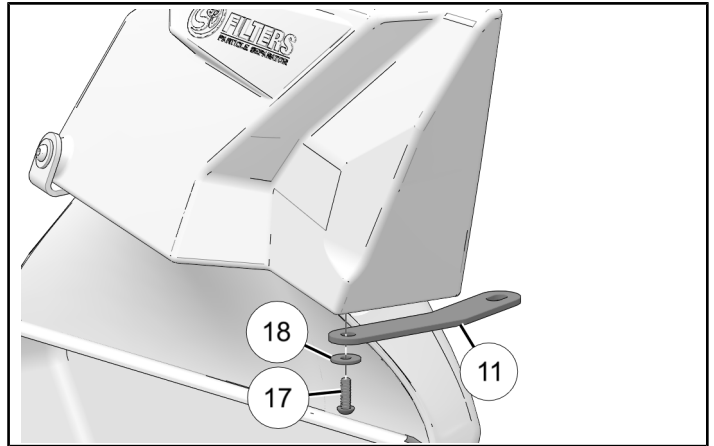
- Install rear side-cover bracket ⑨ to side cover ⑤ with two fasteners ⑰ and two washers ⑱.

Do not torque fastener at this time.

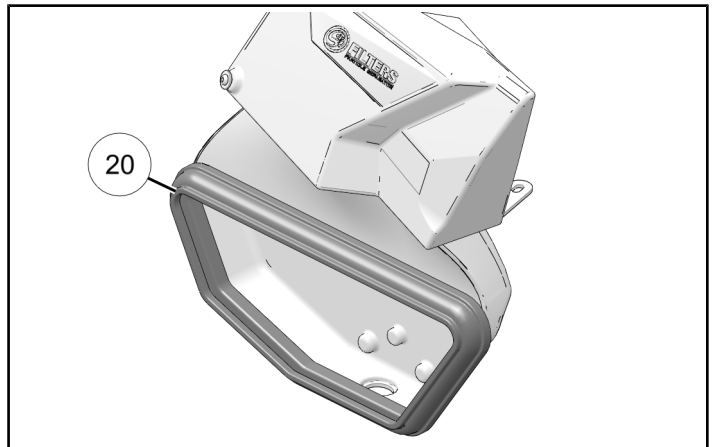


- Install front side-cover bracket ⑪ to side cover ⑤ with one fastener ⑰ and one washer ⑱.

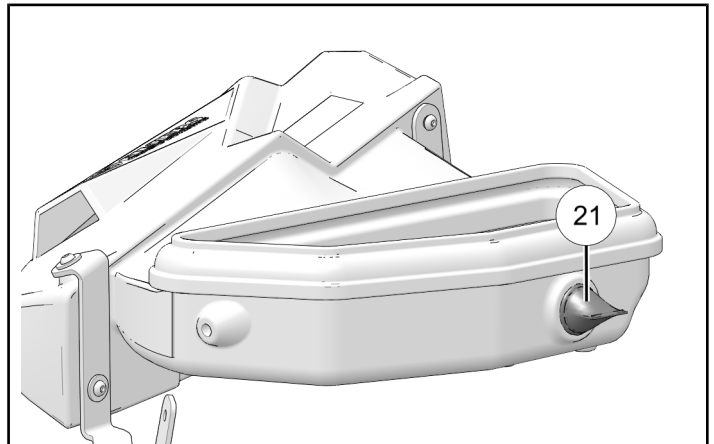
Do not torque fastener at this time.



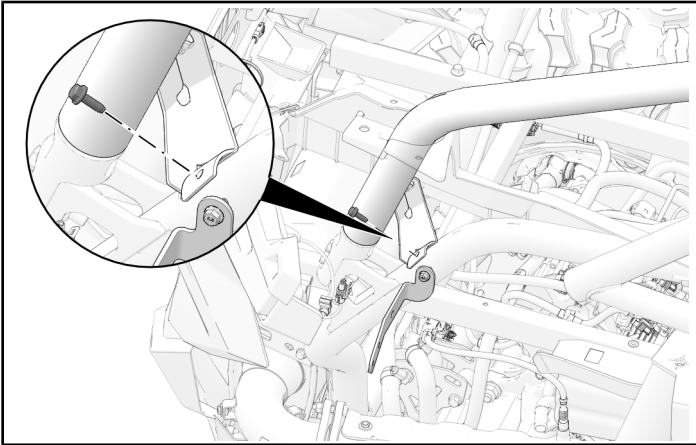
- Install seal ⑳ onto side cover.



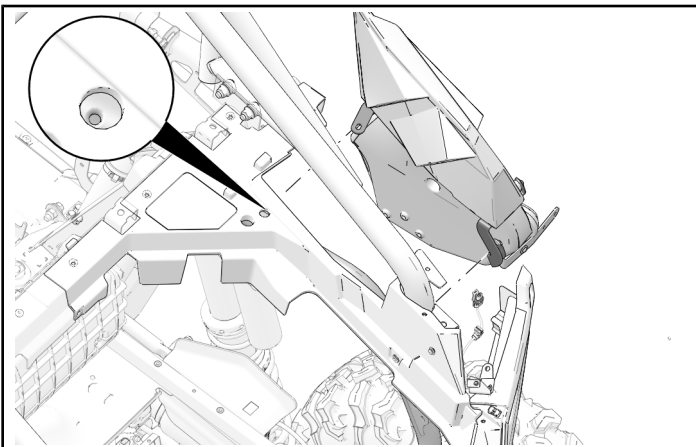
- Install check valve ㉑ to bottom of side cover.



6. Remove and keep one fastener securing cargo box bracket to chassis.

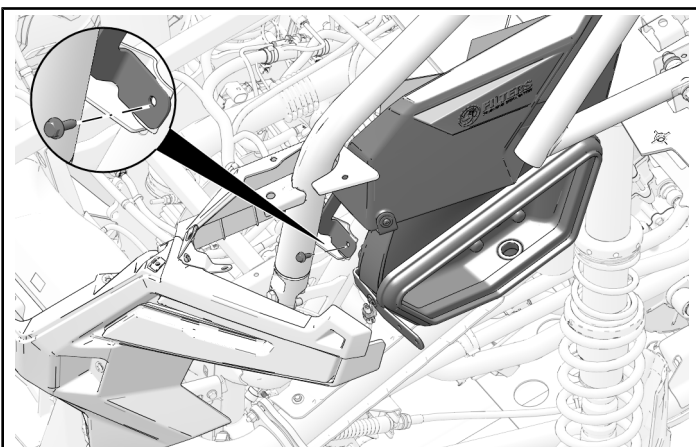


7. Align side cover with vehicle panels and roll-cage. Align front side-cover bracket between rear vehicle panel and chassis and make sure bracket slot lines up with chassis hole.



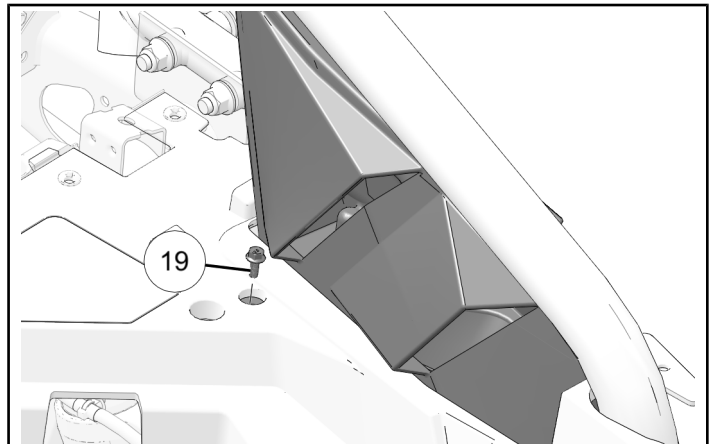
8. Install side cover to vehicle with retained cargo box bracket fastener.

Do not torque fasteners at this time.



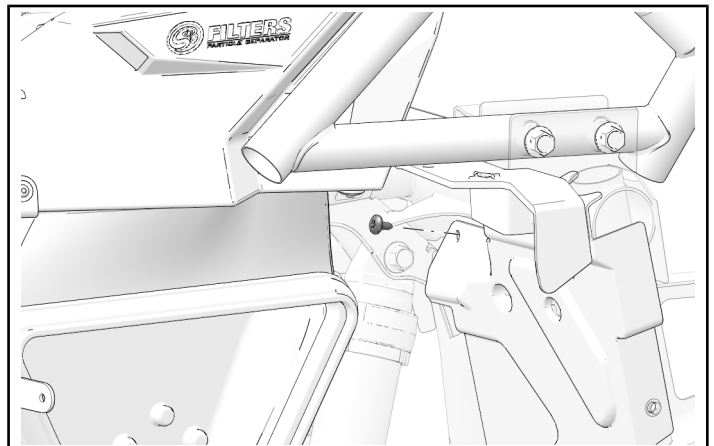
9. Install side cover to vehicle with top intake cover fastener (removed in *Vehicle Preparation*).

Do not torque fasteners at this time.



10. Torque all fasteners going into side cover plastic until fully seated.

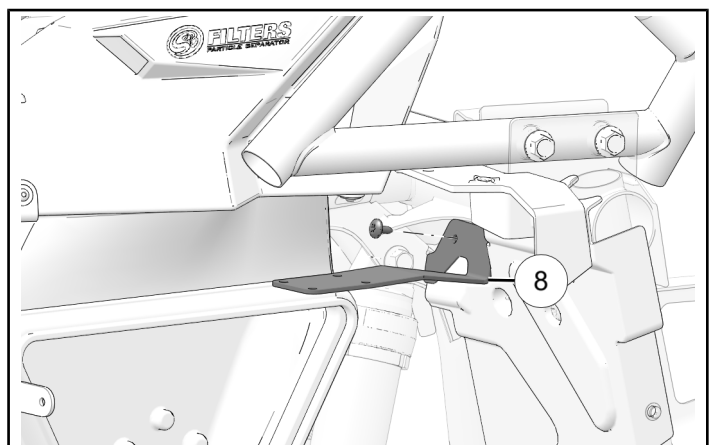
11. Remove and keep fastener from back of vehicle panel, located near suspension column.



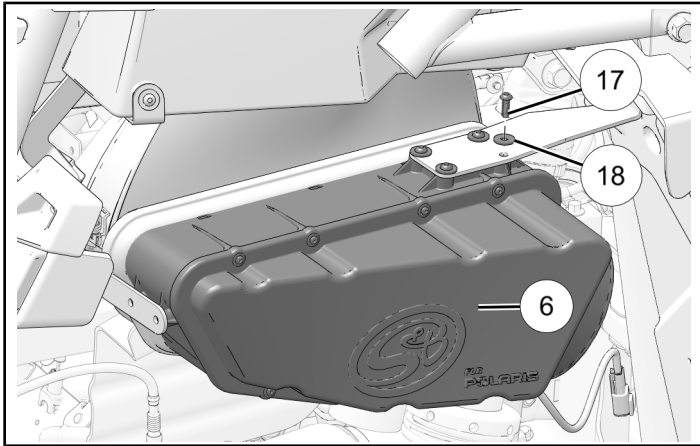
12. Install front bracket ⑧ with retained fastener.

**TORQUE**

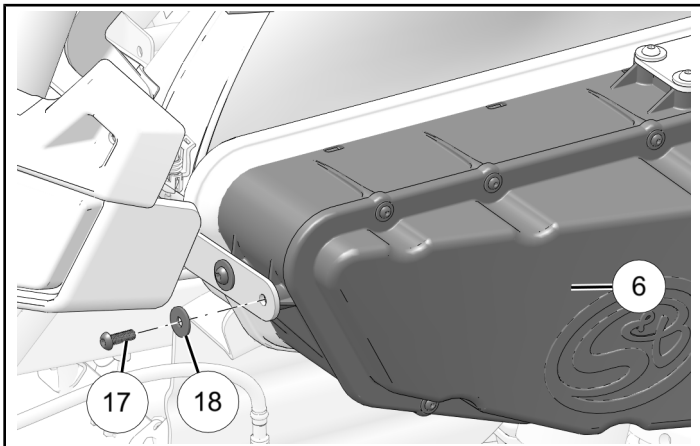
Vehicle Panel Fastener:  
**88 in-lbs (10 N·m)**



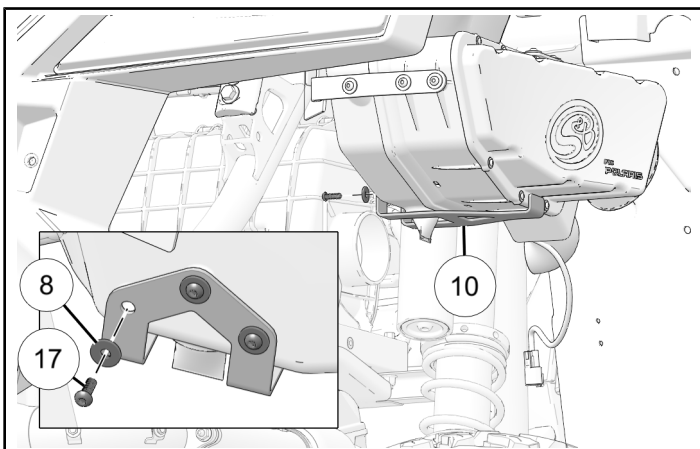
13. Install intake assembly ⑥ to front bracket with four fasteners ⑰ and four washers ⑱. Torque fasteners until fully seated.



14. Install intake assembly ⑥ to rear bracket with two fasteners ⑰ and two washers ⑱. Torque fasteners until fully seated.

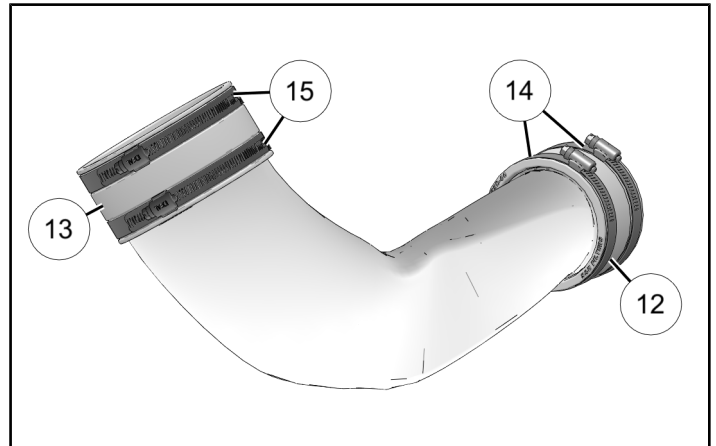


15. Push intake assembly to compress seal and install bottom bracket ⑩ around side cover and intake assembly with three fasteners ⑰ and three washers ⑱. Torque fasteners until fully seated.



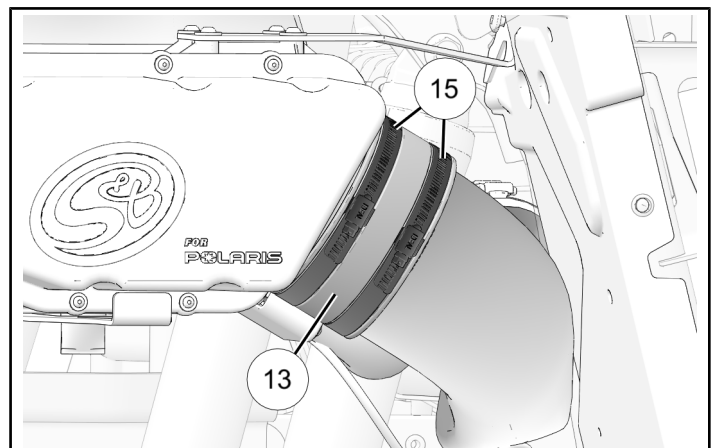
16. Loosely assemble intake tube ⑯ with couplers and clamps.

TUBE TO INTAKE	TUBE TO AIR BOX
Clamps ⑮ (larger)	Clamps ⑭ (smaller)
Oval Coupler ⑬	Circular Coupler ⑫



17. Install intake tube ⑯ to intake assembly with oval coupler ⑬ and two large clamps ⑮.

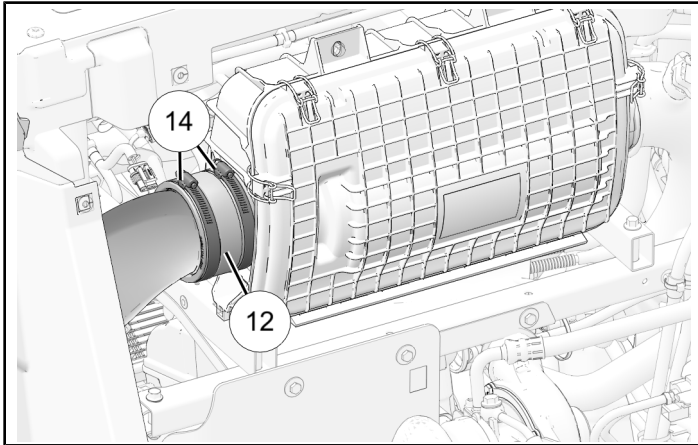
TORQUE
Clamps ⑮: 53 in-lbs (6 N·m)



18. Install intake tube ⑯ to air box with circular coupler ⑫ and two small clamps ⑭.

**TORQUE**

Clamps ⑭:  
**53 in-lbs (6 N·m)**



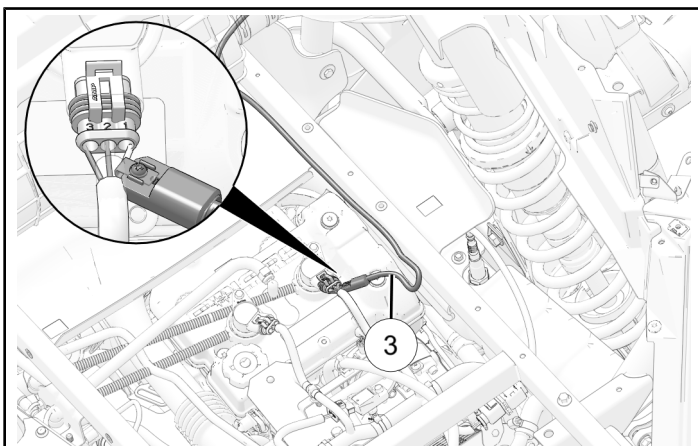
19. Torque two fasteners ⑰ to specification.

**TORQUE**

Bracket Fasteners ⑰:  
**9 ft-lbs (12 N·m)**

**IGNITION SENSOR HARNESS ③**

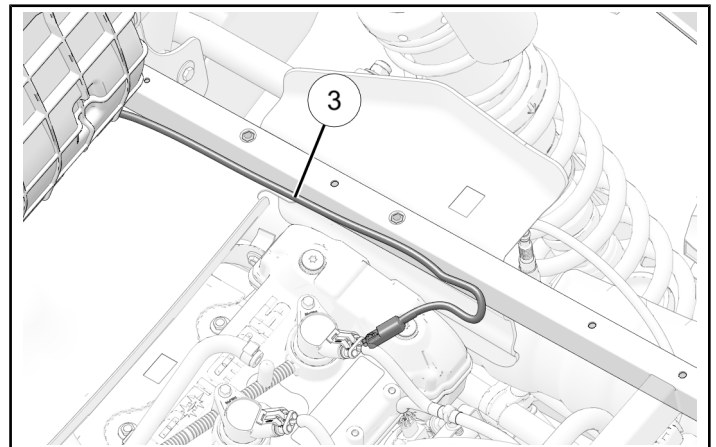
1. Remove clip and fastener from ignition sensor. Install sensor onto positive ignition coil wire approximately 1 in (25 mm) from connector. Secure sensor in place by securing all three wires with a cable tie ② (not shown) on each side of the sensor clip.



2. Route sensor harness towards front of vehicle along chassis. Attach with cable ties ② (not shown).

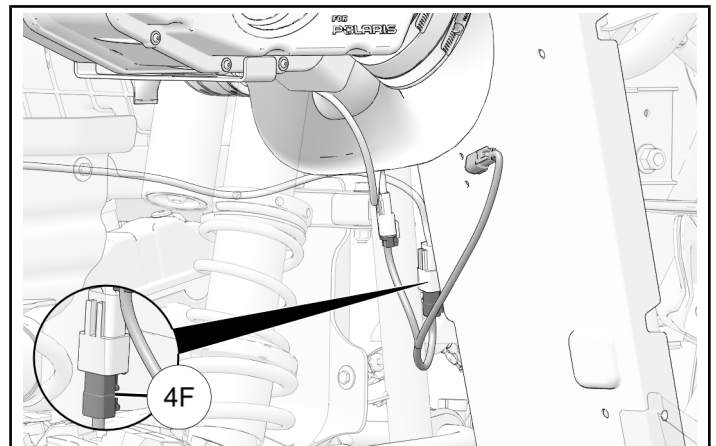
**IMPORTANT**

Make sure harnesses are clear of all moving parts and heat sources.

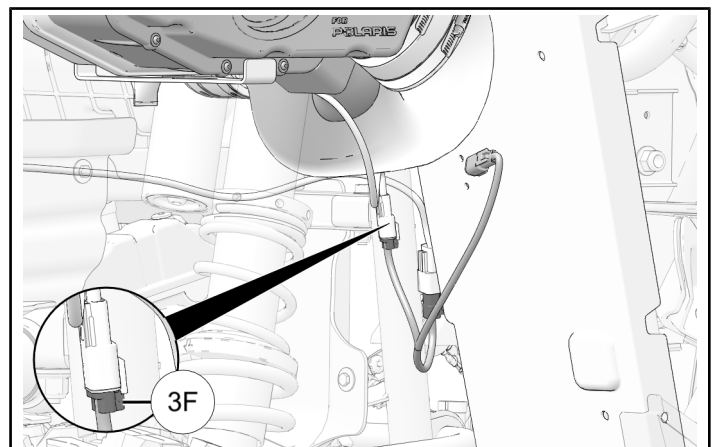


**Y-SPLITTER HARNESS ②**

1. Install connector 4F to ignition sensor harness. Wrap connection with electrical tape.

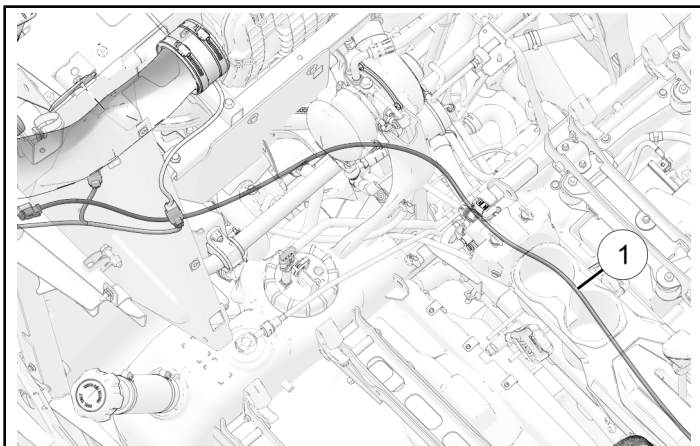


2. Install connector 3F to fan connector on intake assembly. Wrap connection with electrical tape.

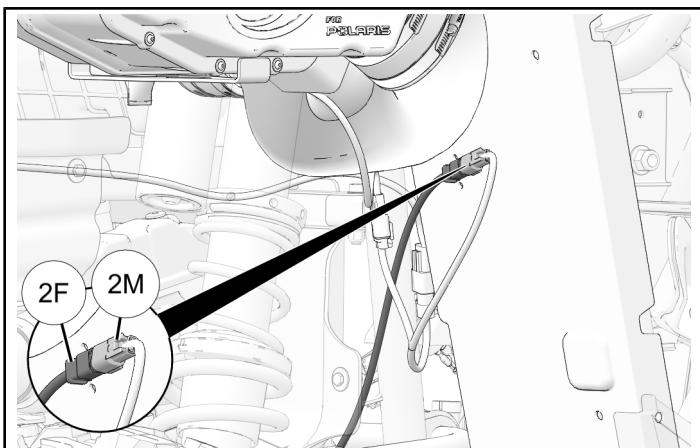


## PARTICLE SEPARATOR HARNESS ①

1. Put particle separator harness ① in vehicle along center console harness routing. Route 4-pin female connector towards intake assembly.



2. Install connector 2F to Y-splitter connector 2M. Wrap connection with electrical tape.

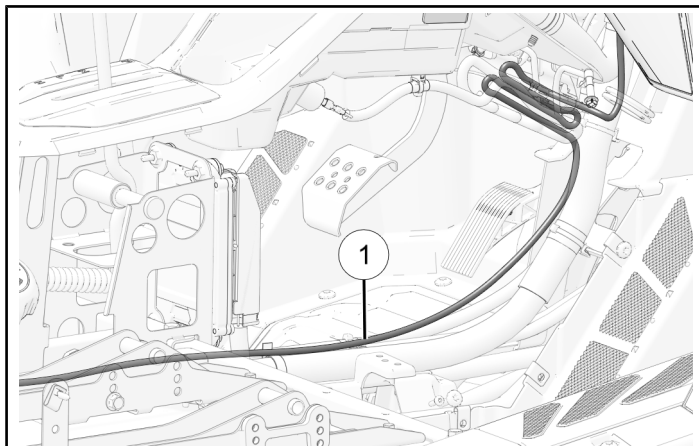


3. Gather harness connectors and secure to chassis with cable tie ② (not shown).

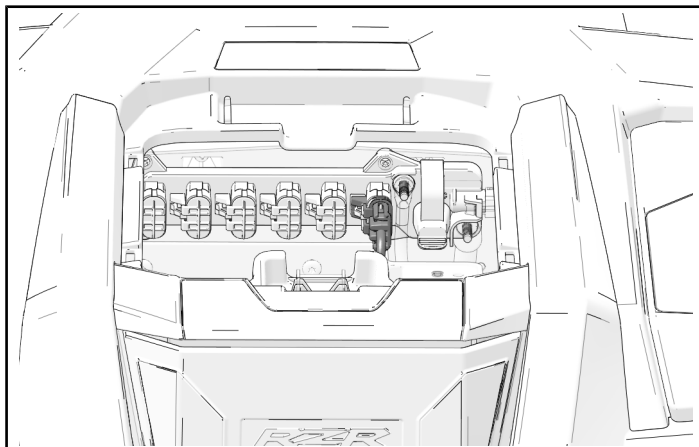
### IMPORTANT

Make sure harnesses are clear of all moving parts and heat sources.

4. Continue to route particle separator harness ① towards front of vehicle. Attach with cable ties ② (not shown), as needed. Gather excess harness where shown and use a cable tie ② around excess harness.

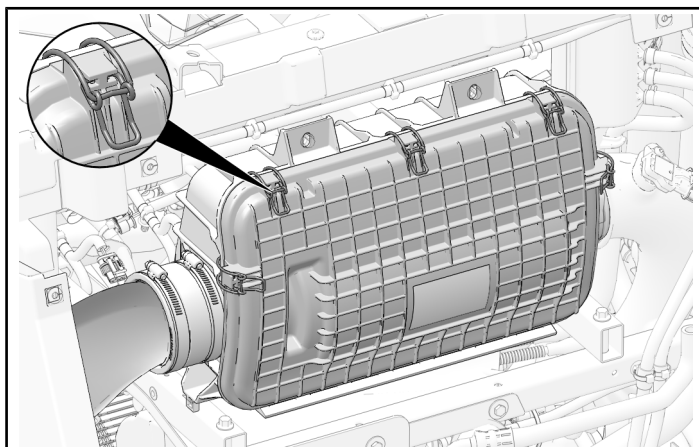


5. Route harness towards Polaris Pulse® bar and install.



## AIR BOX SEAL REPLACEMENT

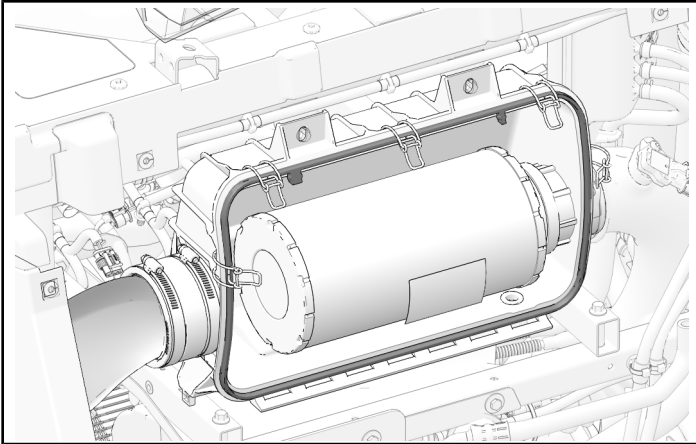
1. Lift up latches on air box cover to open.



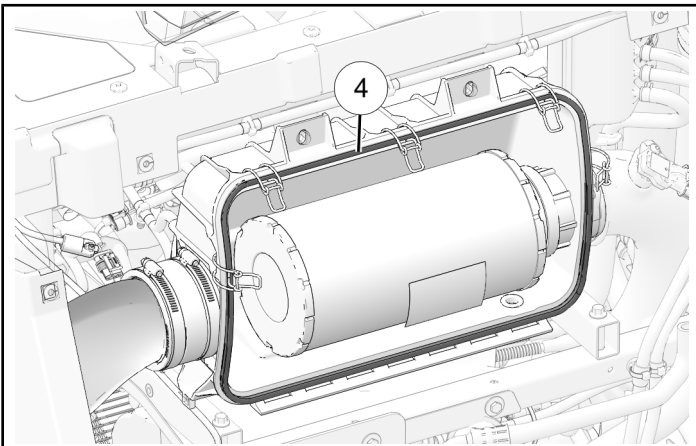
2. Remove air box seal.

**NOTICE**

Cover hidden for clarity.



3. Install accessory air box seal ④.



4. Close cover and reattach latches.

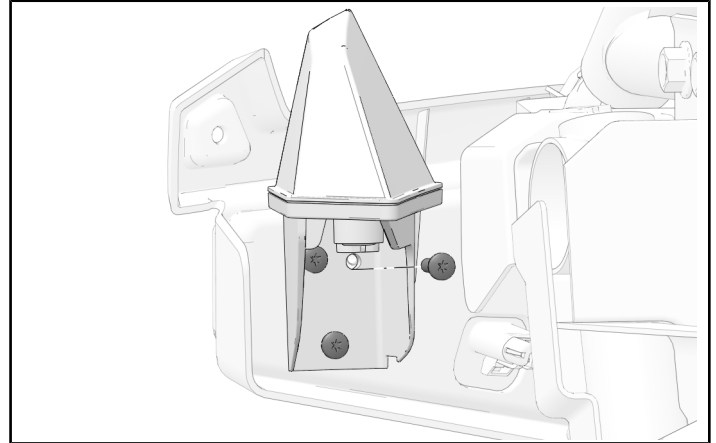
## VEHICLE REASSEMBLY

### UPPER TAIL LIGHT INSTALLATION

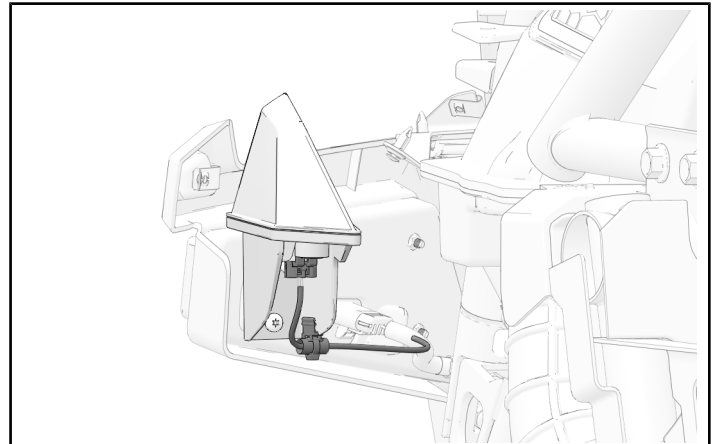
1. Install tail light with three fasteners. Torque fasteners to specification.

**TORQUE**

Tail Light Fasteners:  
**26 in-lbs (3 N·m)**



2. Connect upper tail light.

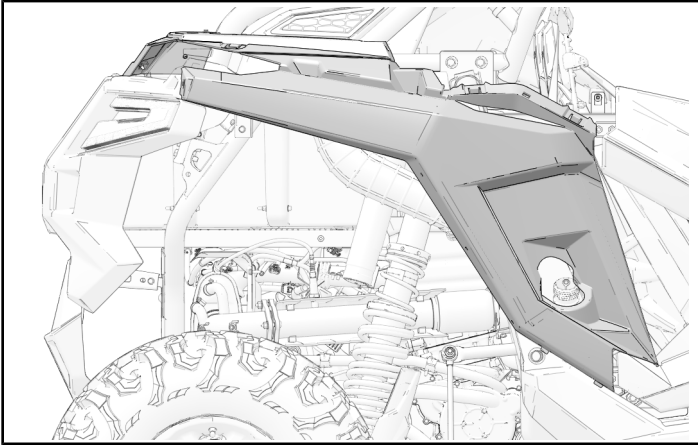


## REAR FENDER INSTALLATION

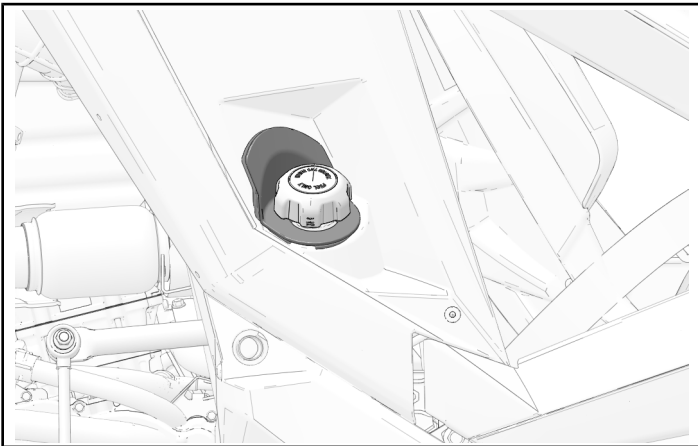
### NOTICE

Right-hand shown; left-hand similar.

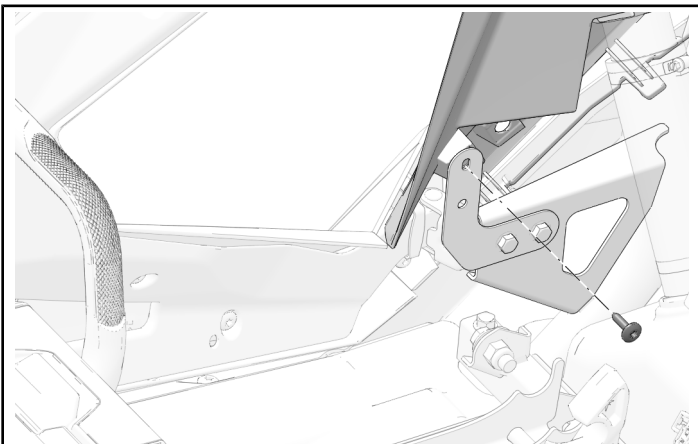
1. Align fender flare with vehicle and clip panel into other corresponding vehicle panels.



2. Right-hand fender only:  
Install grommet and gas cap.



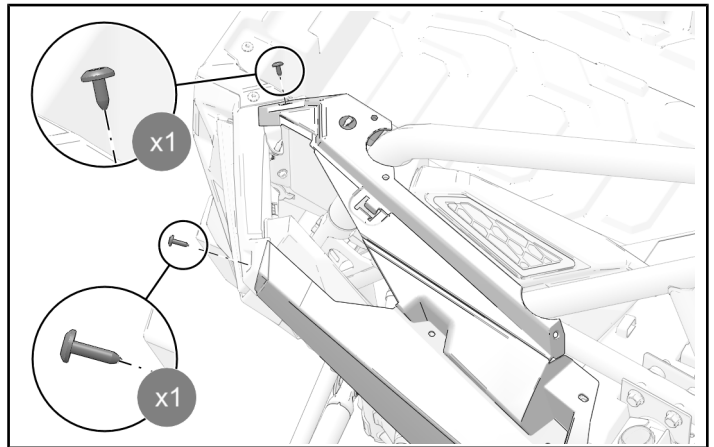
3. Install one fastener between seat and fender flare panel.



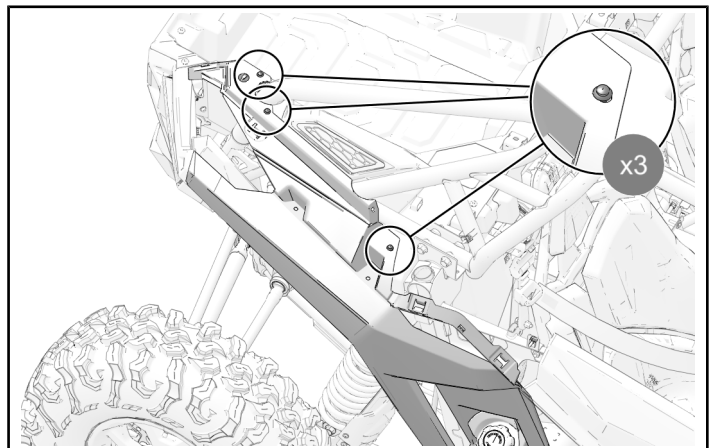
4. Install two fasteners, connecting rear fascia to fender flare.

### TIP

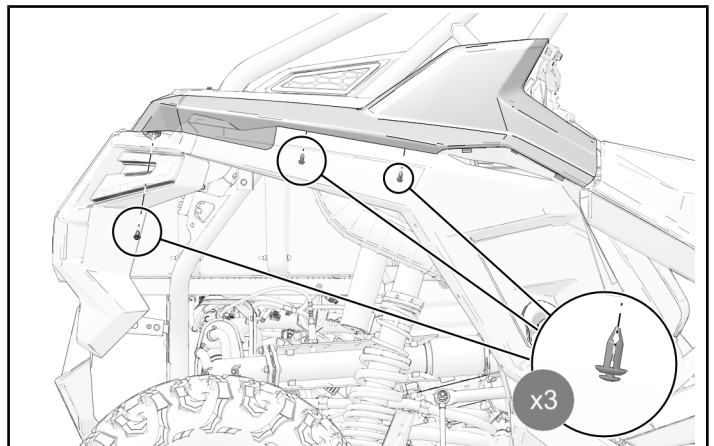
Note size differences. Shorter fastener is near cargo box.



5. Install top of fender flare with three retained push-pin rivets.

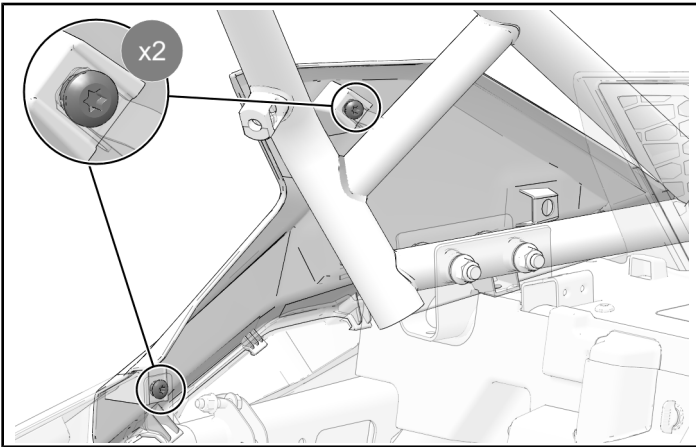


6. Align fender with fender flare and install underside of fender with three retained push-pin rivets.





7. Install fender to roll-cage with two retained fasteners.



8. Torque all fasteners to specification.

#### TORQUE

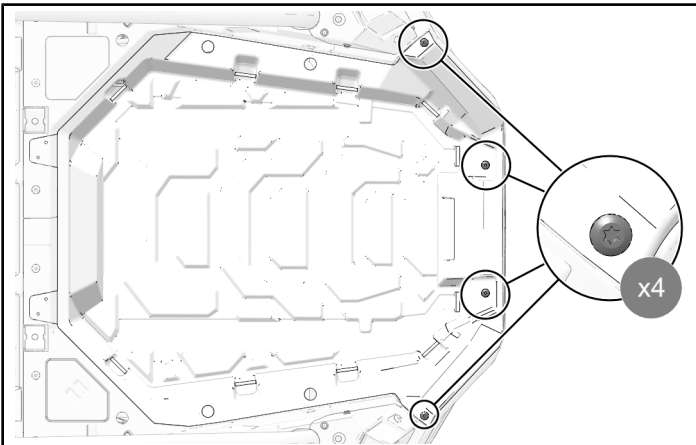
Fender Fasteners:  
**88 in-lbs (10 N·m)**

### CARGO BOX INSTALLATION

1. Slide cargo box into vehicle. Ensure front tabs slide into vehicle body. Secure with four cargo box fasteners.

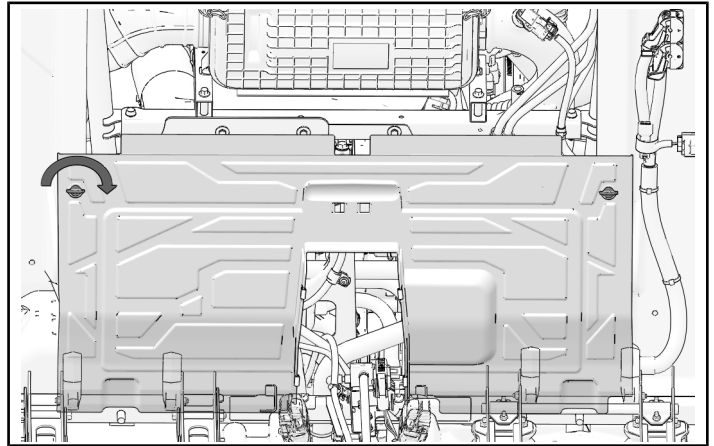
#### TORQUE

Cargo Box Fasteners:  
**89 in-lbs (10 N·m)**

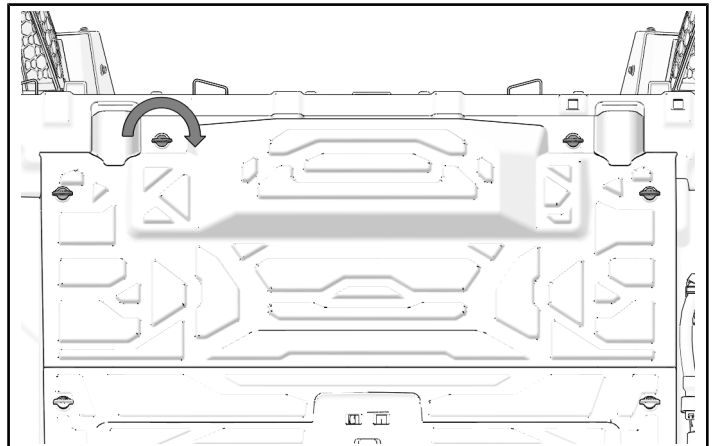


### CLOSE-OFF PANEL INSTALLATION

1. Turn each knob 1/4 to securely engage with back panel.



2. Turn each knob 1/4 to securely engage with back panel.

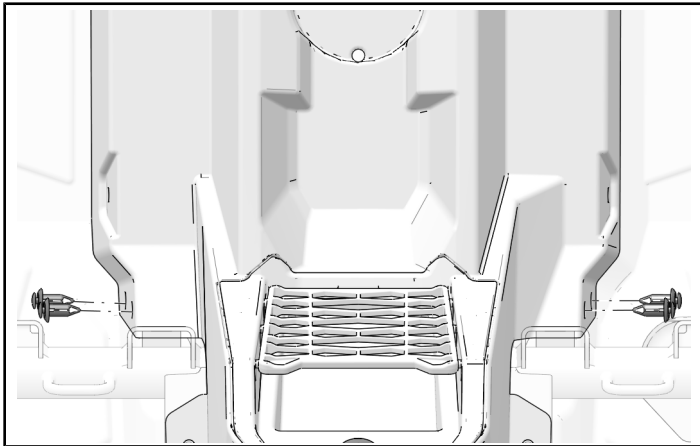


## REAR CENTER CONSOLE ASSEMBLY

### IMPORTANT

Note size difference of fasteners installed in steps 2 and 3.

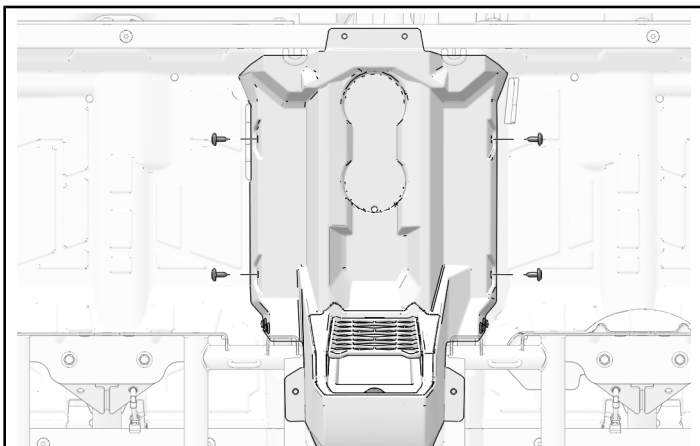
1. Align rear center console with front center console.
2. Install front portion with four retained push-pin rivets.



3. Install sides with four center console side fasteners (shorter).

### TORQUE

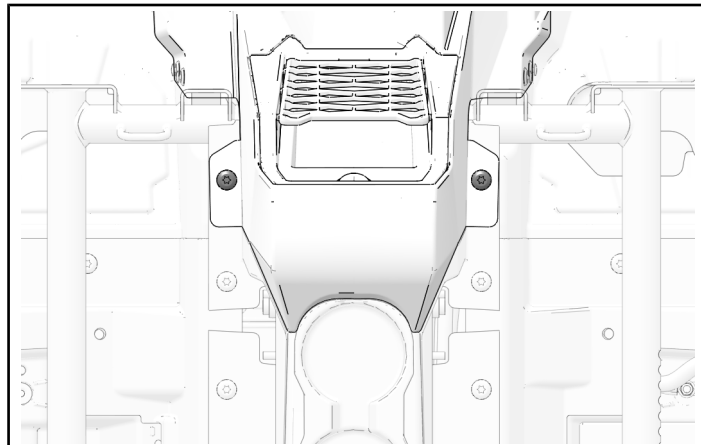
Center Console Fasteners (Shorter):  
**89 in-lbs (10 N·m)**



4. Install to front-center console with two center console top fasteners (longer).

### TORQUE

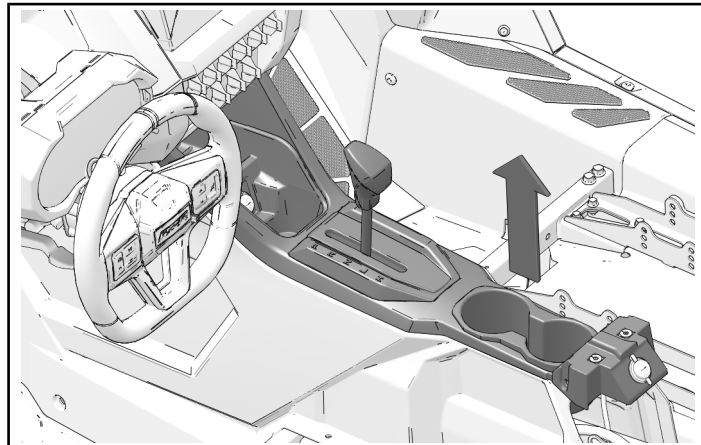
Center Console Fasteners (Longer):  
**89 in-lbs (10 N·m)**



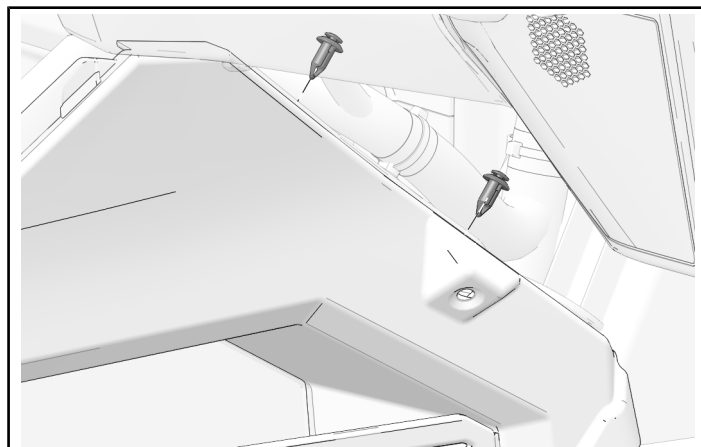
## FRONT CENTER CONSOLE REASSEMBLY

### RIGHT-HAND PANEL INSTALLATION

1. Carefully lift center panel upwards and position side panels for installation.



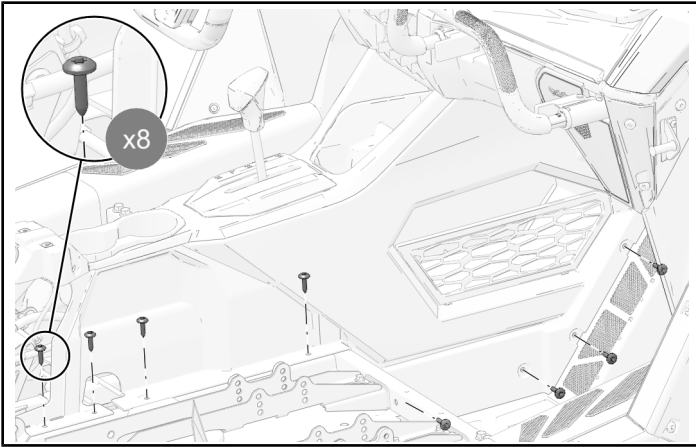
2. Install two push-pin rivets .



3. Install passenger side panel with eight retained center console fasteners and one push-pin rivet.

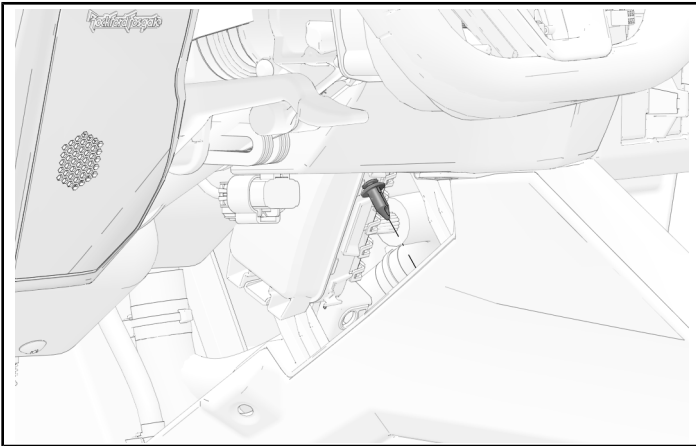
**TORQUE**

Center Console Fasteners:  
**89 in-lbs (10 N·m)**



**LEFT-HAND PANEL INSTALLATION**

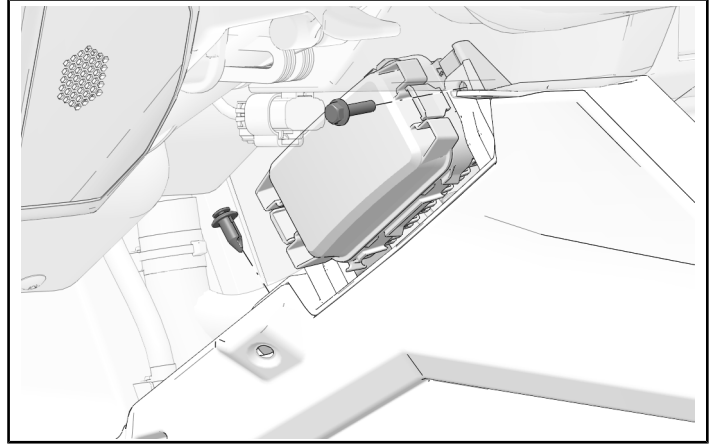
1. Install push-pin rivet.



2. Install retained push-pin rivet and fuse block fastener. Torque two fuse block fasteners to specification.

**TORQUE**

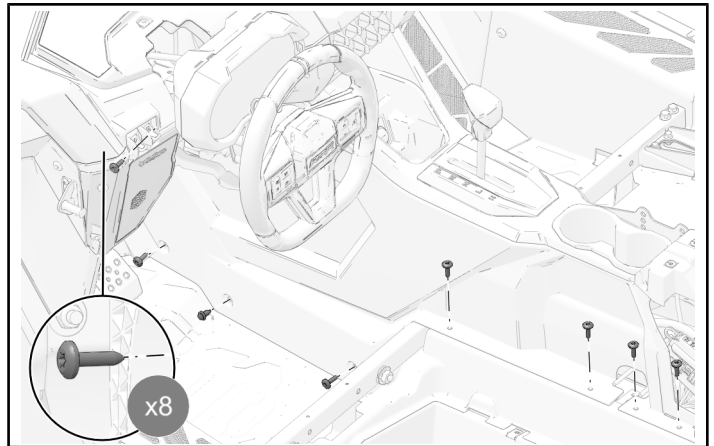
Fuse Block Fasteners:  
**31 in-lbs (3.5 N·m)**



3. Install driver side panel with eight retained center console fasteners and one push-pin rivet.

**TORQUE**

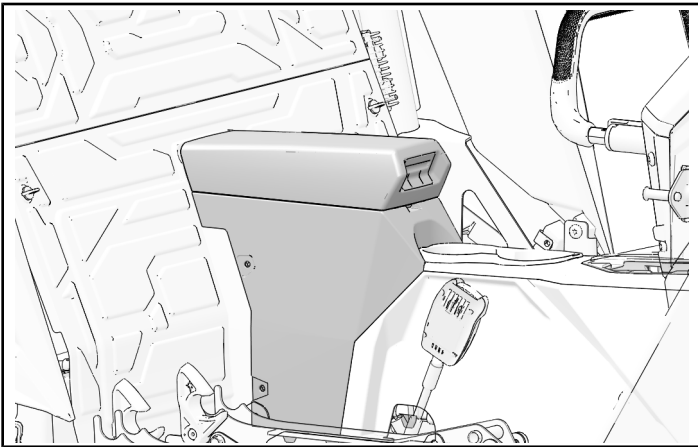
Center Console Fasteners:  
**89 in-lbs (10 N·m)**



**STORAGE COMPARTMENT INSTALLATION**

Storage Compartment Installation applies to two-passenger vehicles only.

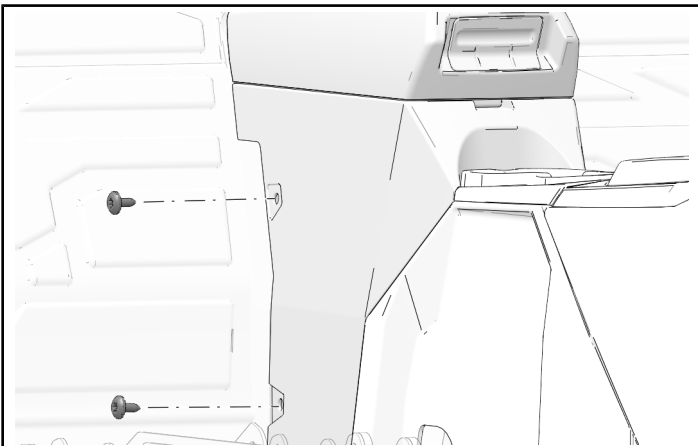
1. Position console storage compartment for installation.



2. Install console storage compartment with two retained center console fasteners from passenger side.

**TORQUE**

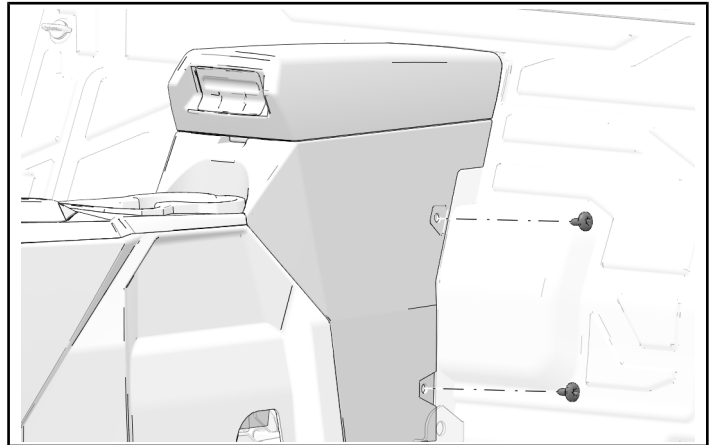
Center Console Fasteners:  
**89 in-lbs (10 N·m)**



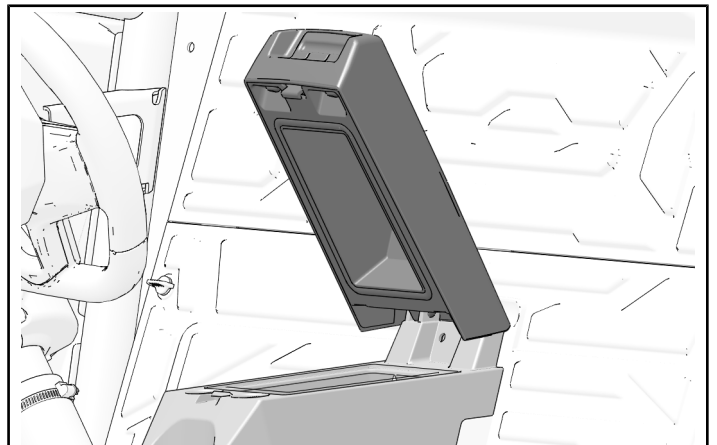
3. Install console storage compartment with two retained center console fasteners from driver side.

**TORQUE**

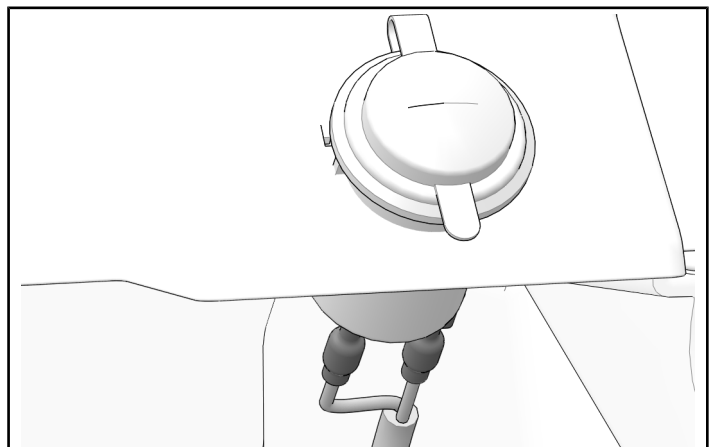
Center Console Fasteners:  
**89 in-lbs (10 N·m)**



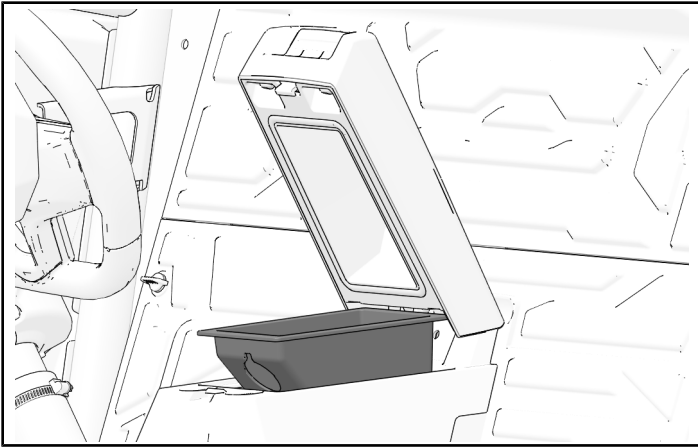
4. Open center console.



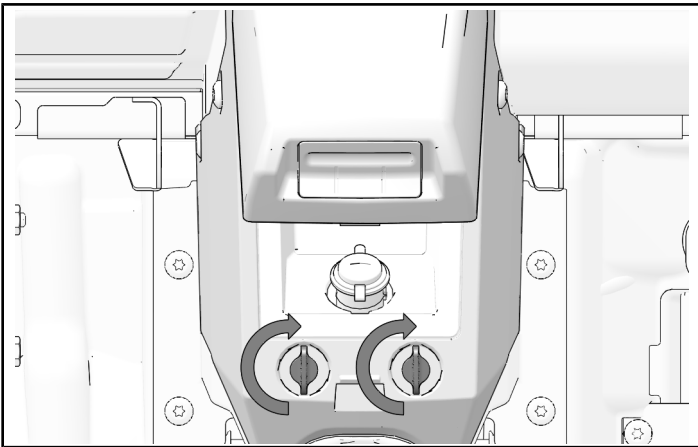
5. Connect 12 volt outlet from within center console cavity.



6. Install storage compartment.



7. Turn each knob 1/4 to engage with center console panel.



## SEAT INSTALLATION

### REAR SEAT PANEL INSTALLATION

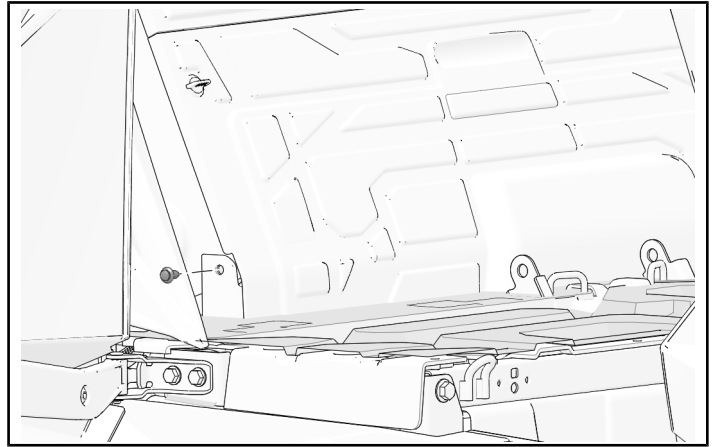
1. Position rear seat panel in vehicle and install with eleven seat panel fasteners.

#### TORQUE

Seat Panel Fasteners:  
**89 in-lbs (10 N·m)**



2. Reinstall one push-pin rivet in right-rear of seat panel.



### REAR SEAT INSTALLATION

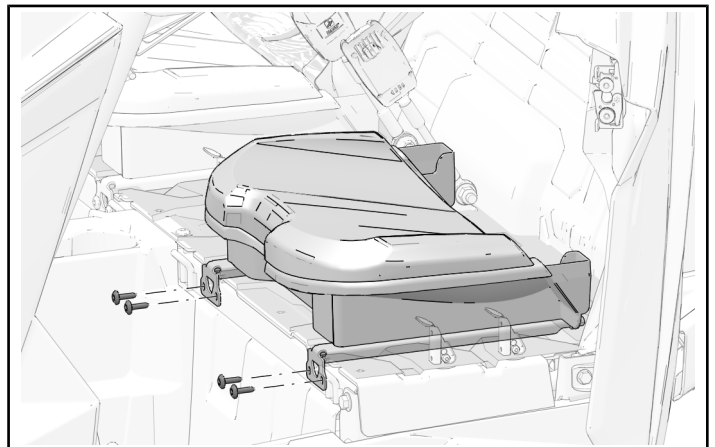
#### NOTICE

Left rear seat shown; right rear similar.

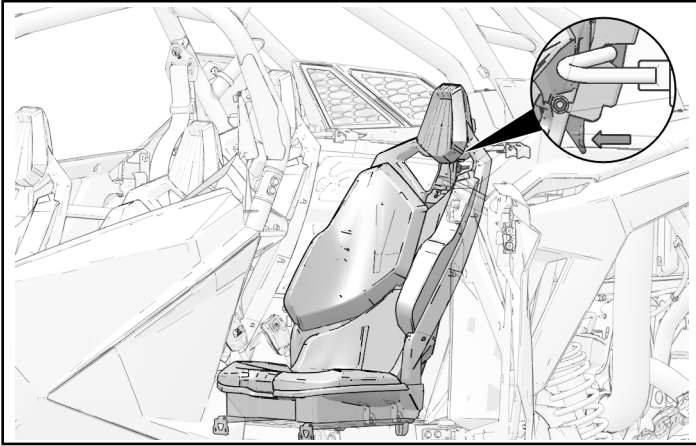
1. Install seat base with four seat bracket fasteners.

#### TORQUE

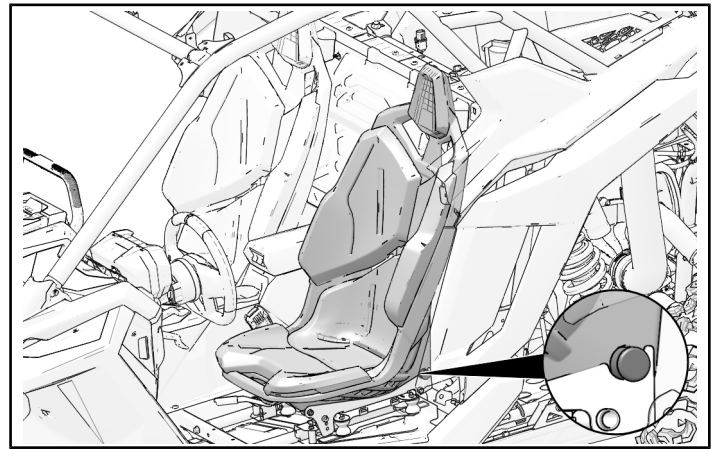
Seat Bracket Fasteners:  
**71 in-lbs (8 N·m)**



2. Position backrest assembly into seat base and lean back until headrest engages with receiver tube.



2. Lower seat onto rear receiver tubes.

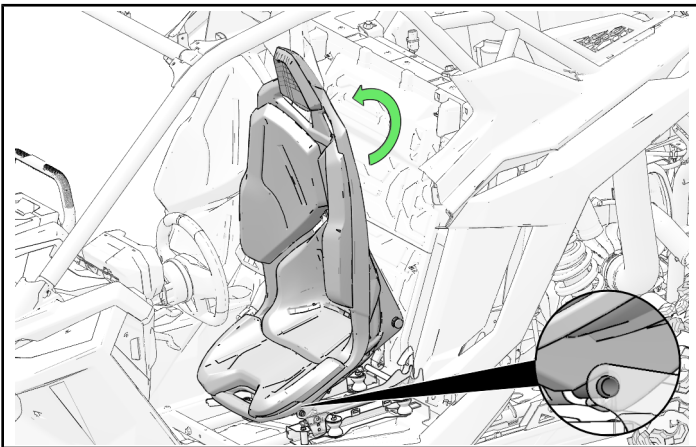


## FRONT SEAT INSTALLATION

### NOTICE

Driver seat shown; passenger seat similar.

1. Tilt seat towards steering wheel and hook seat base onto front receiver tubes.



## INSTRUCTION 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.

