

SKI-DOO KIT - LinQ 1 + 1 Seat Heated Grips

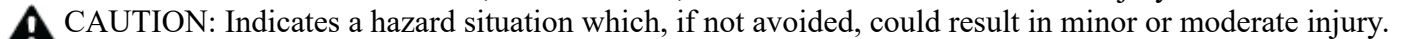
Product:	Ski-Doo
Project no:	487803091_rev1
Instruction Sheet P/N:	487803091
Revision no:	1
Revision date:	December 2020
Item covered:	LinQ 1 + 1 Seat Heated Grips

The following symbols may be used in this document:



WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION: Indicates a hazard situation which, if not avoided, could result in minor or moderate injury.

NOTICE Indicates an instruction which, if not followed, could severely damage vehicle components or other property.



WARNING

- For safety reasons, this kit must be installed by an authorized BRP dealer.
- This kit is designed for specific applicable models only (authorized BRP dealers will confirm model(s)). It is not recommended for units other than the one (those) for which it was sold.
- Should removal of a locking device (e.g. lock tabs, self-locking fasteners, etc.) be required when undergoing disassembly/ assembly, always replace with a new one.
- Torque wrench tightening specifications must strictly be adhered to.
- Unless otherwise specified, engine must be OFF when performing any operation on the vehicle.
- Always be aware of parts that can move, such as wheels, transmission components, etc.



WARNING

Some important safety information and/or operating instructions dedicated to the end user might be included in this instruction sheet. Make sure to give the kit part number as well as the instruction sheet included with this kit to the customer. Verify that the customer has access to all the information required for proper use of the accessory.

NOTE: USE TIGHTENING TORQUES IN THE FOLLOWING TABLE IF NOT OTHERWISE SPECIFIED.

	GRADE			
	5.8	8.8	10.9	12.9
M4	1.8 ± 0.2 N•m (16 ± 2 lbf•in)	2.8 ± 0.2 N•m (25 ± 2 lbf•in)	3.8 ± 0.2 N•m (34 ± 2 lbf•in)	4.5 ± 0.5 N•m (40 ± 4 lbf•in)
M5	3.3 ± 0.2 N•m (29 ± 2 lbf•in)	5 ± 0.5 N•m (44 ± 4 lbf•in)	7.8 ± 0.7 N•m (69 ± 6 lbf•in)	9 ± 1 N•m (80 ± 9 lbf•in)
M6	7.5 ± 1 N•m (66 ± 9 lbf•in)	10 ± 2 N•m (89 ± 18 lbf•in)	12.8 ± 2.2 N•m (113 ± 19 lbf•in)	16 ± 2 N•m (142 ± 18 lbf•in)
M8	15.3 ± 1.7 N•m (135 ± 15 lbf•in)	24.5 ± 3.5 N•m (18 ± 3 lbf•ft)	31.5 ± 3.5 N•m (23 ± 3 lbf•ft)	40 ± 5 N•m (30 ± 4 lbf•ft)
M10	29 ± 3 N•m (21 ± 2 lbf•ft)	48 ± 6 N•m (35 ± 4 lbf•ft)	61 ± 9 N•m (45 ± 7 lbf•ft)	73 ± 7 N•m (54 ± 5 lbf•ft)
M12	52 ± 6 N•m (38 ± 4 lbf•ft)	85 ± 10 N•m (63 ± 7 lbf•ft)	105 ± 15 N•m (77 ± 11 lbf•ft)	128 ± 17 N•m (94 ± 13 lbf•ft)
M14	85 ± 10 N•m (63 ± 7 lbf•ft)	135 ± 15 N•m (100 ± 11 lbf•ft)	170 ± 20 N•m (125 ± 15 lbf•ft)	200 ± 25 N•m (148 ± 18 lbf•ft)

M16	126 ± 14 N•m (93 ± 10 lbf•ft)	205 ± 25 N•m (151 ± 18 lbf•ft)	255 ± 30 N•m (188 ± 22 lbf•ft)	305 ± 35 N•m (225 ± 26 lbf•ft)
M18	170 ± 20 N•m (125 ± 15 lbf•ft)	273 ± 32 N•m (201 ± 24 lbf•ft)	330 ± 25 N•m (243 ± 18 lbf•ft)	413 ± 47 N•m (305 ± 35 lbf•ft)

The illustrations in this document show typical construction of the different assemblies and may not reproduce the full detail or exact shape of the parts; however, they represent parts that have the same or similar function.

Installation time is approximately 1.0 hour.

icon legend

Icon



indicates

Parts to be Discarded

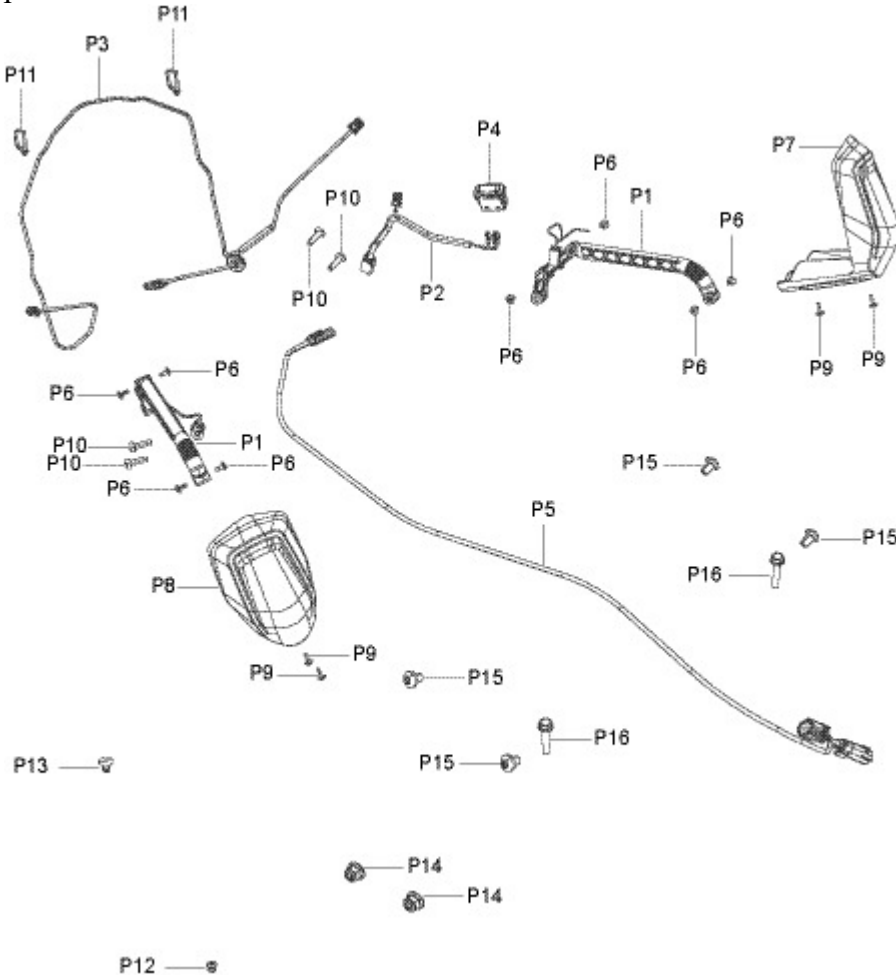
Required Tools

Required Tool

Use

T1	Drill bit 6.35 mm (1/4 in)		To drill LH interior handle cover and to drill rivet
T2	Drill bit 18 mm (23/32 in)		To drill LH arm support cover

parts to be installed



ITEM	DESCRIPTION	Part number	QTY
P1	Heated overmolded passenger handhold	510006488	2
P2	Wiring harness heated grip	515178464	1
P3	Seat harness	515178490	1
P4	Rocker switch	515178505	1

P5	Harness	515178199	1
P6	M5 x 14 Torx screw	250000941	8
P7	LH Passenger handle deflector	510006495	1
P8	RH Passenger handle deflector	510006489	1
P9	K40 x 16 Screw	250000889	4
P10	M8 x 35 Torx screw	250000753	4
P11	180 mm Locking tie	414115200	2
P12	3/16 Pop rivet	390402200	1
P13	3/16 Black pop rivet	293150104	1
P14	M6 Elastic flanged nut	233261416	2
P15	M8 x 12 Torx screw	250000887	4
P16	M6 x 35 Hexagonal flanged screw	207563544	2

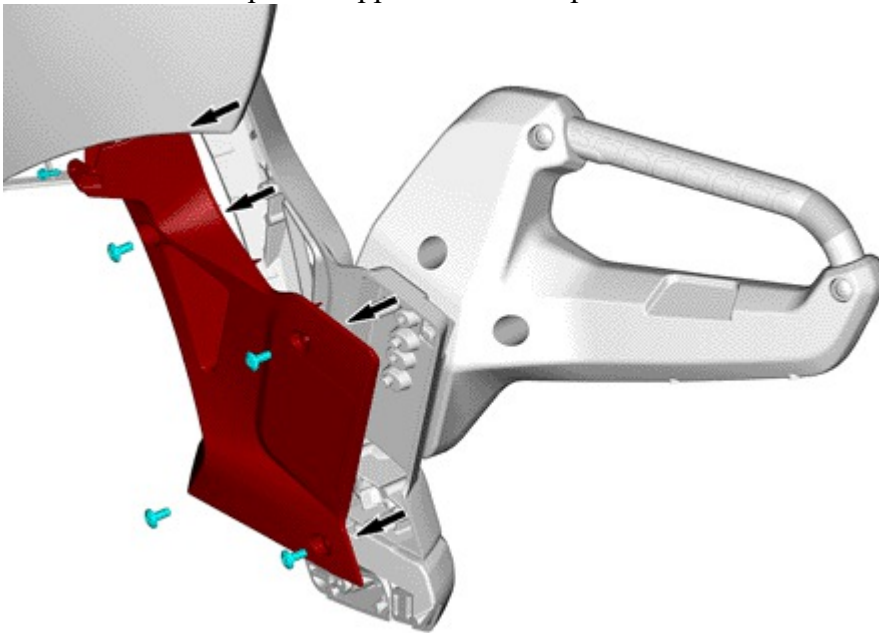
NOTE: To install this kit on REV Gen4 20" (WT) and 24" (SWT) models, harness (P/N 515178588) is required.

instructions

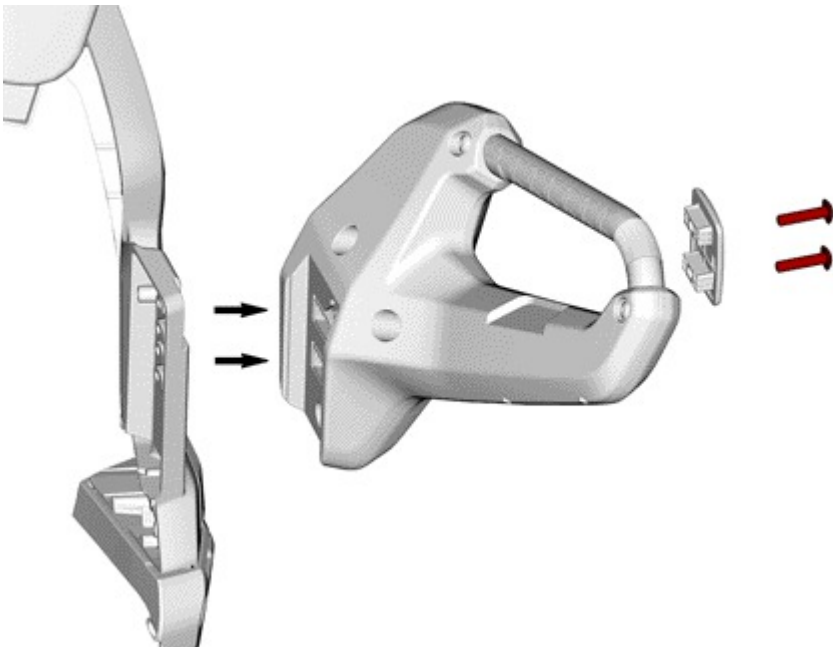
Backrest Preparation

NOTE: Unless otherwise specified, installation instructions are the same for both sides.

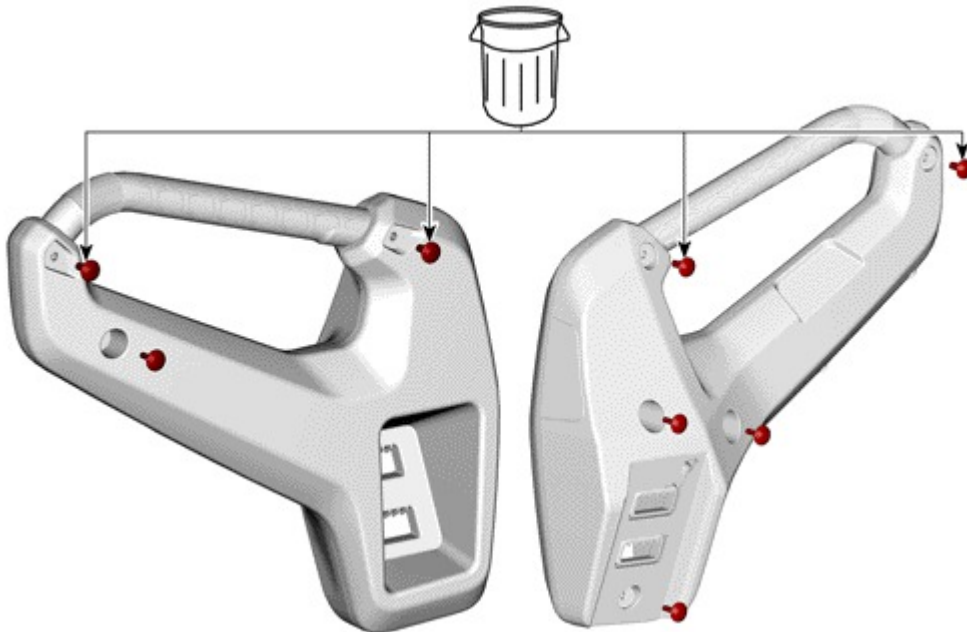
1. Remove and keep arm support cover. Keep hardware.



2. Remove and keep handle. Discard the following fasteners.

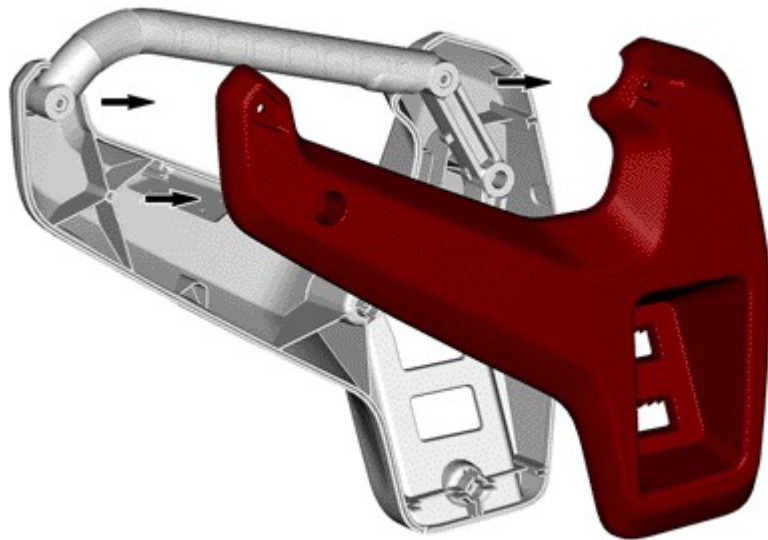


3. Remove the following fasteners on handle covers. Discard four (4) fasteners and keep the four (4) others as shown.

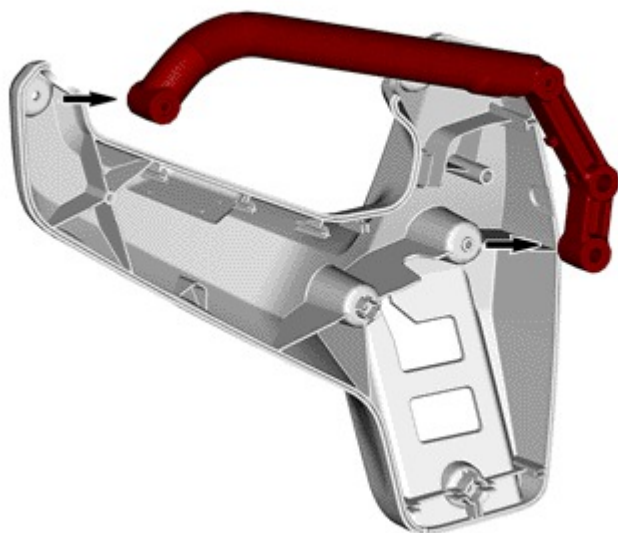


Exterior and interior handle cover

4. Remove and keep exterior handle cover.

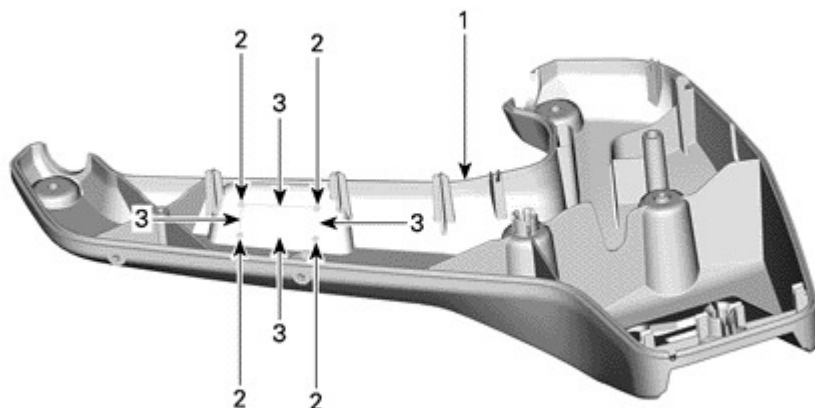


5. Remove overmolded passenger handhold.

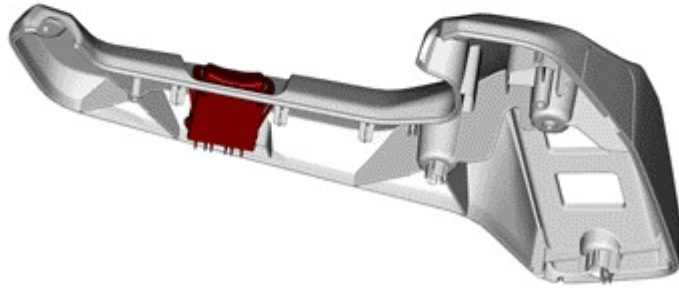
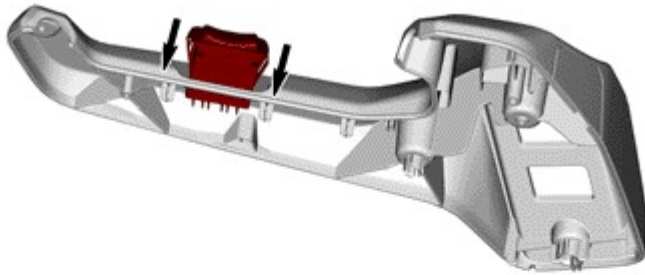


Following steps for LH side only

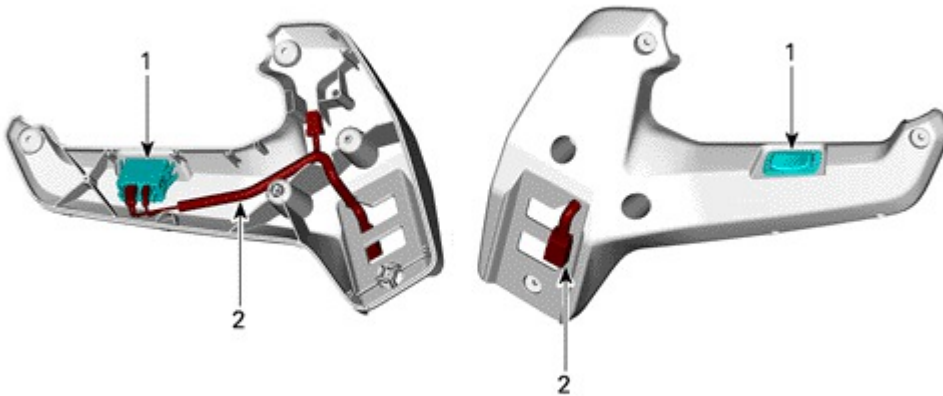
6. Drill four (4) 6.35 mm (1/4 in) holes on interior handle cover to guide, then perform four (4) square cut lines in between the holes for rocker switch [P4]. Position shown in Figure below.



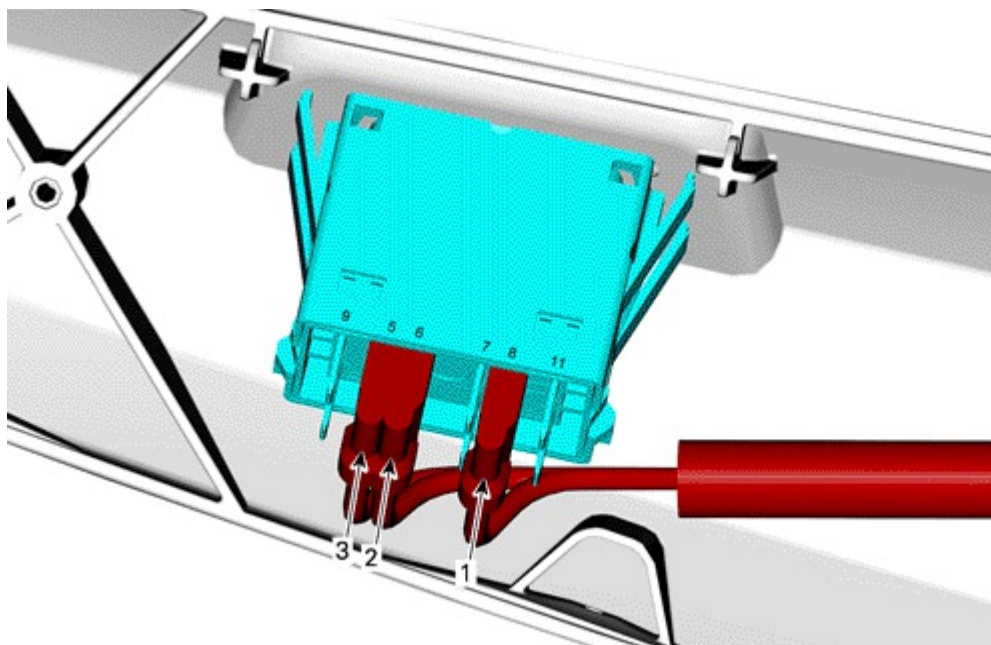
1. Interior handle cover
2. Where to drill
3. Where to cut
7. Insert rocker switch [P4] in hole previously drilled in Step 6.



8. Insert wiring harness heated grip [P2] as shown.

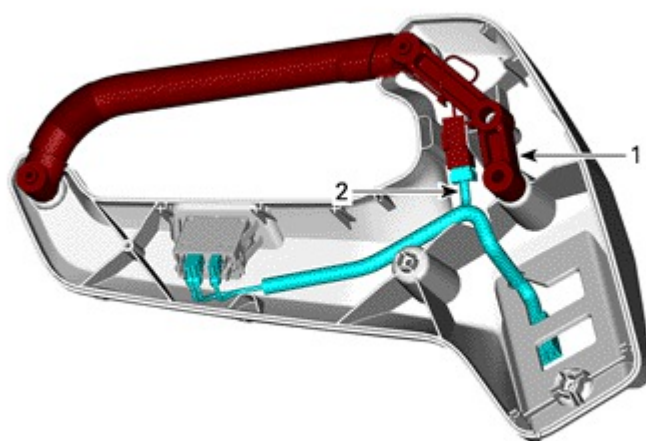


1. Rocker switch [P4]
2. Wiring harness heated grip [P2]
9. Connect the wiring harness heated grip [P2] into the rocker switch [P4].



1. Orange wire towards the rear of vehicle
2. Red wire at center of vehicle
3. Orange/Violet wire towards the front of vehicle

10. Place the heated overmolded passenger handhold [P1] as shown and, for left side only, connect to wiring harness heated grip [P2].



LF side SHOWN

1. Heated overmolded passenger handhold [P1]
2. Wiring harness heated grip [P2]

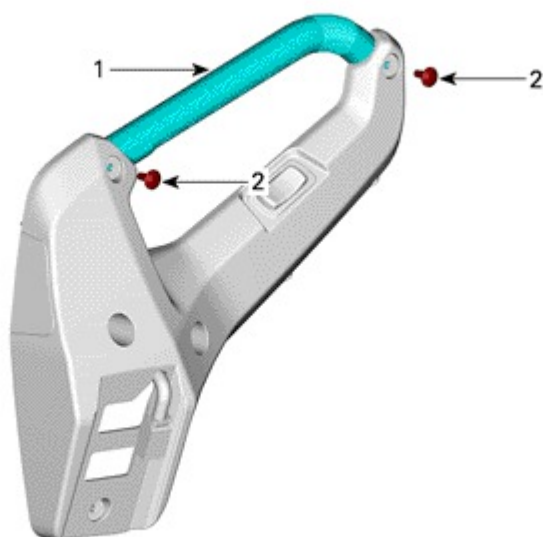


RH SIDE SHOWN

1. Heated overmolded passenger handhold [P1]

All Models

11. Secure the inside of the heated overmolded passenger handhold [P1] with two (2) M5 x 14 Torx screws [P6].



1. Heated overmolded passenger handhold [P1]

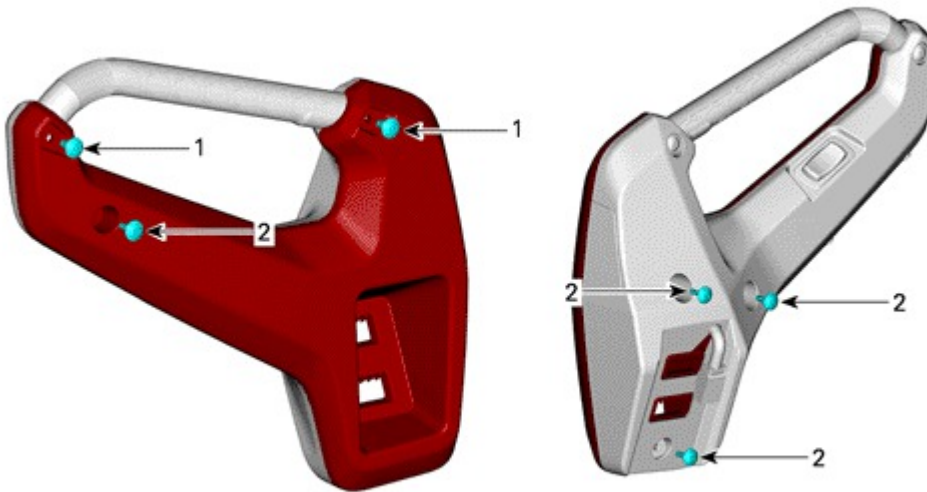
2. M5 x 14 Torx screw [P6]

tightening torque

M5 x 14 Torx screw [P6]

$2.5 \pm 0.2 \text{ N}\cdot\text{m}$ ($22 \pm 2 \text{ lbf}\cdot\text{in}$)

12. Close handles and secure each with two (2) M5 x 14 torx screws [P6] and four (4) fasteners kept in Step 3.



Exterior and interior handle cover

1. M5 x 14 Torx screw [P6]
2. Four (4) fasteners kept in Step 3

tightening torque

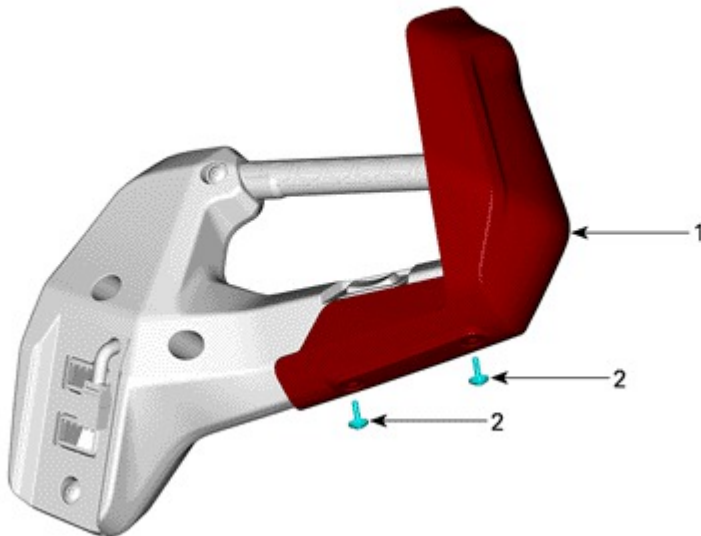
M5 x 14 Torx screw [P6]

$2.5 \pm 0.2 \text{ N}\cdot\text{m}$ ($22 \pm 2 \text{ lbf}\cdot\text{in}$)

Four (4) fasteners kept in Step 3

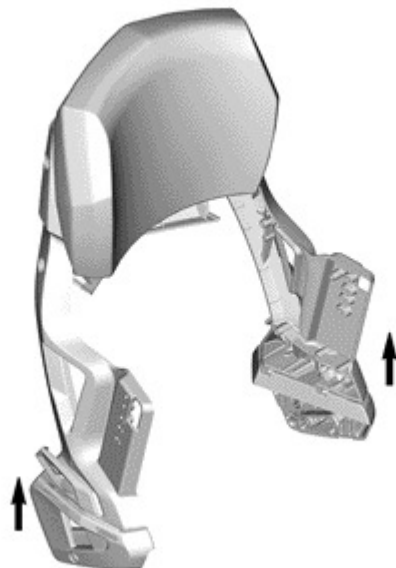
1 to 1.5 $\text{N}\cdot\text{m}$ (9 to 13 $\text{lbf}\cdot\text{in}$)

13. Install LH passenger handle deflector [P7] and RH passenger handle deflector [P8]. Secure each with two (2) K40 x 16 screws [P9].

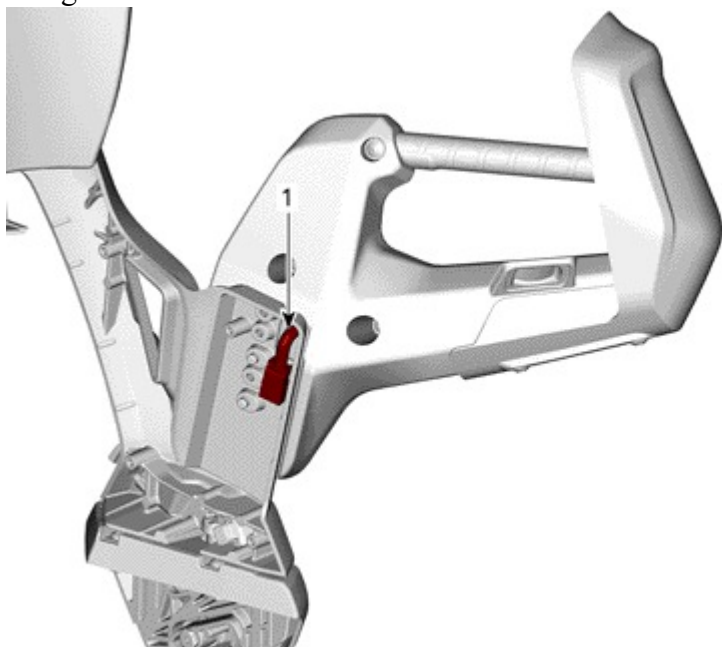


left side shown

1. LH Passenger handle deflector [P7]
 2. K40 x 16 Screws [P9]
14. Remove the removable backrest from the anchors.



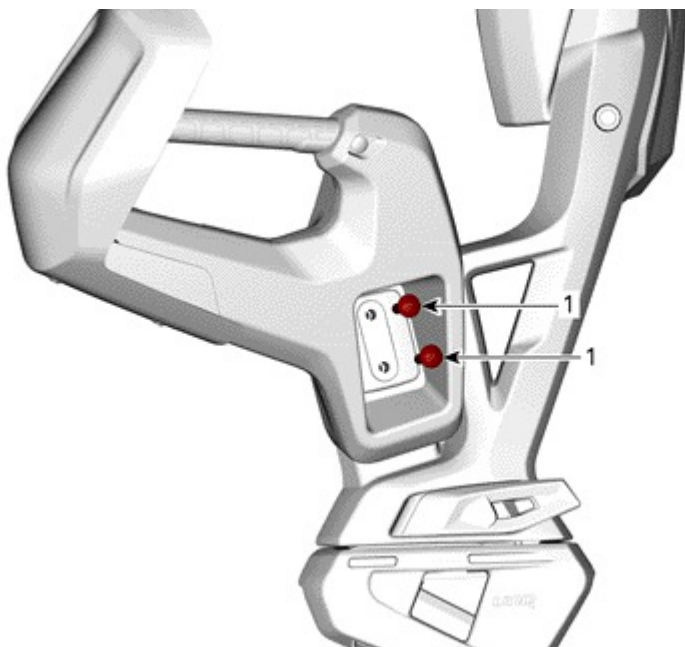
15. Position handles on their mounts so that the wiring is routed through the specially prepared openings and along the bottom side of handle.



left side shown

1. Wiring harness heated grip [P2]

16. Secure each handles with two (2) M8 x 35 Torx screws [P10].



1. M8 x 35 Torx screw [P10]

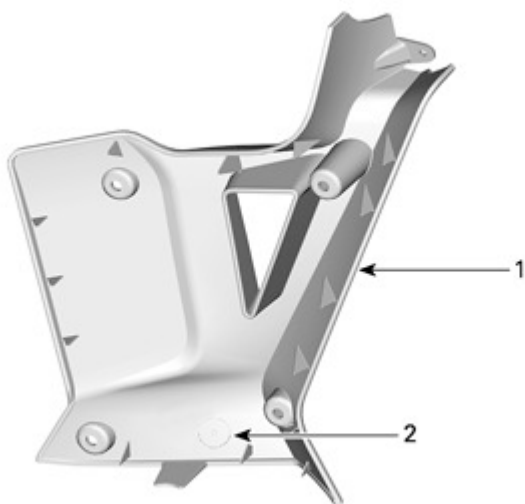
tightening torque

M8 x 35 Torx screw [P10]

$16 \pm 1 \text{ N}\cdot\text{m}$ ($142 \pm 9 \text{ lbf}\cdot\text{in}$)

Following steps for LH side only

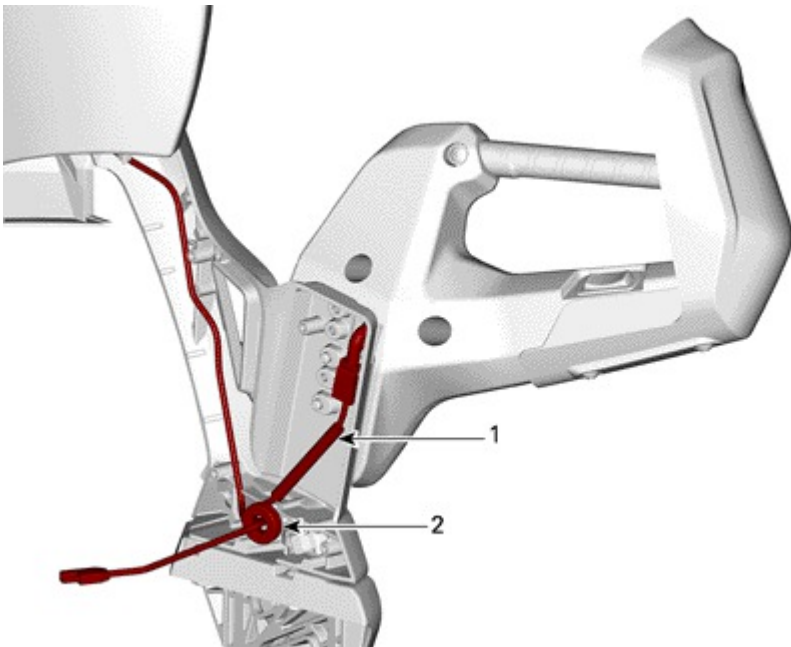
17. On LH arm support cover, drill a 18 mm (23/32 in) hole using a step drill. Position shown in Figure below.



1. LH Arm support cover

2. Where to drill

18. Route seat harness [P3] through the previously drilled hole in Step 16. Install rubber grommet around the wire from the outside of LH arm support cover.



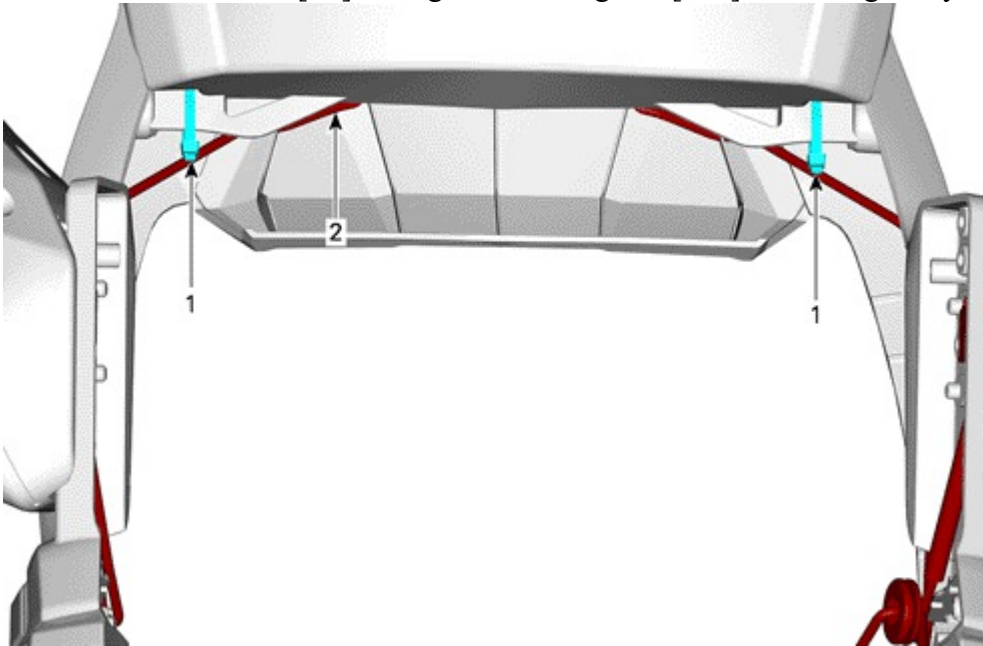
VIEW FROM BEHIND LH ARM support COVER

1. Seat harness [P3]
2. Rubber grommet

All Models

19. Connect seat harness [P3] to both sides.

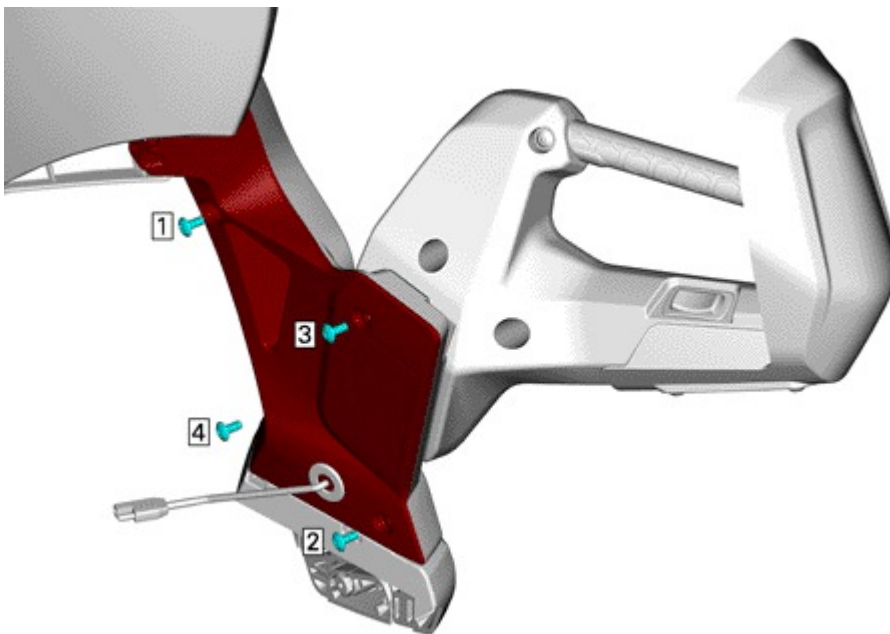
20. Route seat harness [P3] through the locking ties [P11], do not tighten yet.



VIEW FROM under backrest

1. 180mm Locking tie [P11]
2. Seat harness [P3]

21. Reinstall both LH and RH arm support covers with one (1) #8 x 5/8 tapered hexagonal slotted screw and four (4) M6 x 14 Torx screws previously removed in Step 1 as per the following sequence. Make sure wires are properly tucked in and not squeezed by cover. Apply LOCTITE 243 (BLUE) (P/N 293 800 060) on M6 x 14 Torx screw threads.

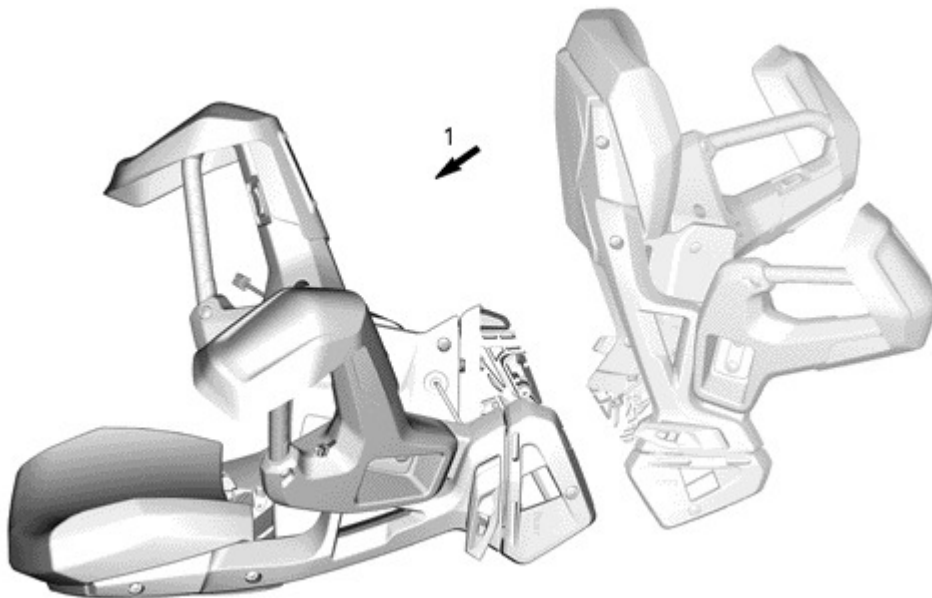


Tightening sequence - LH side shown

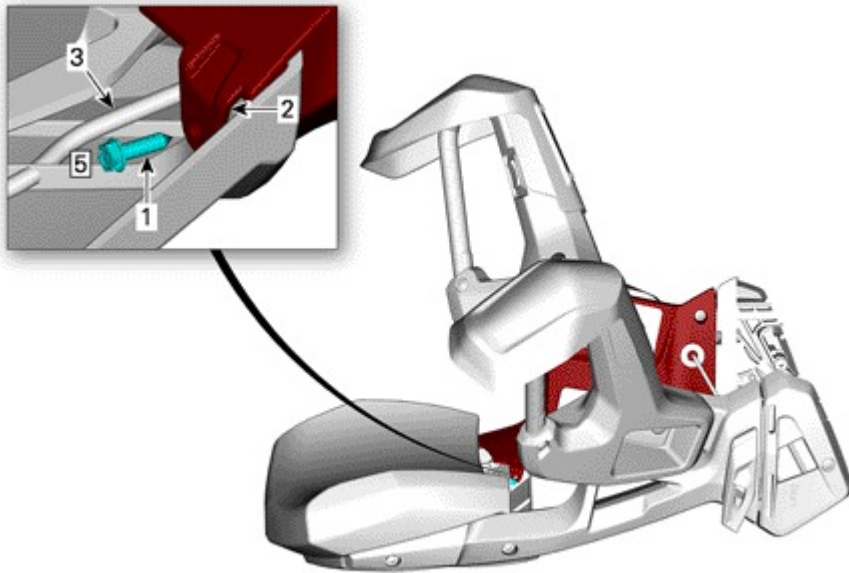
M6 x 14 Torx screw

tightening torque

$7.5 \pm 1 \text{ N}\cdot\text{m}$ ($66 \pm 9 \text{ lbf}\cdot\text{in}$)



1. 90 degrees



Tightening sequence - lf side shown

1. #8 x 5/8 Tapered hexagonal slotted screw
2. LH Arm support covert
3. Seat harness [P3]

tightening torque

#8 x 5/8 Tapered hexagonal slotted screw

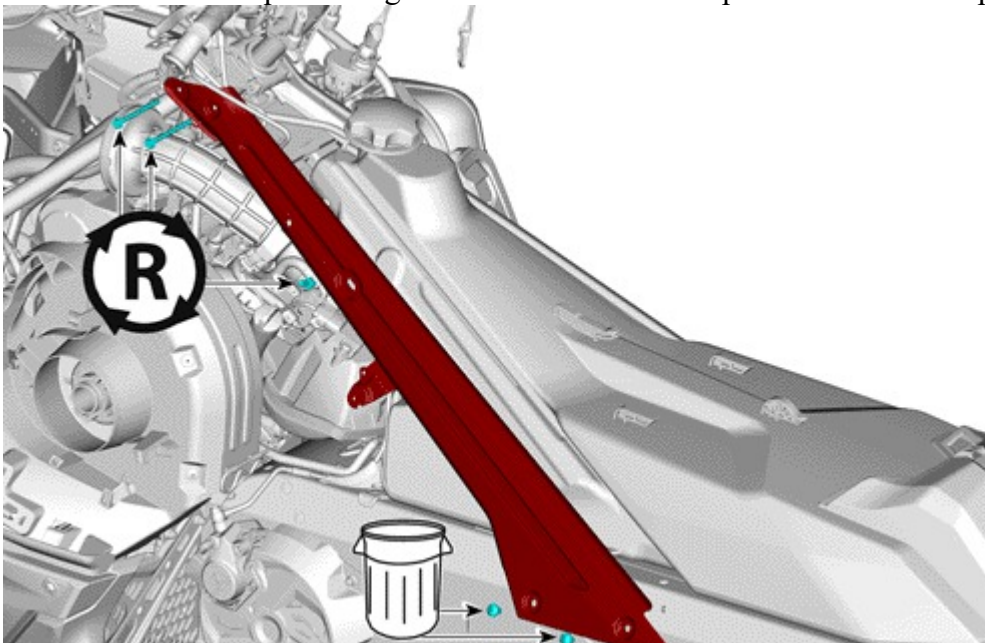
0.4 ± 0.1 N•m (4 ± 1 lbf•in)

22. Fit seat harness [P3] under backrest foam. Tighten locking ties [P11].

Extension harness installation

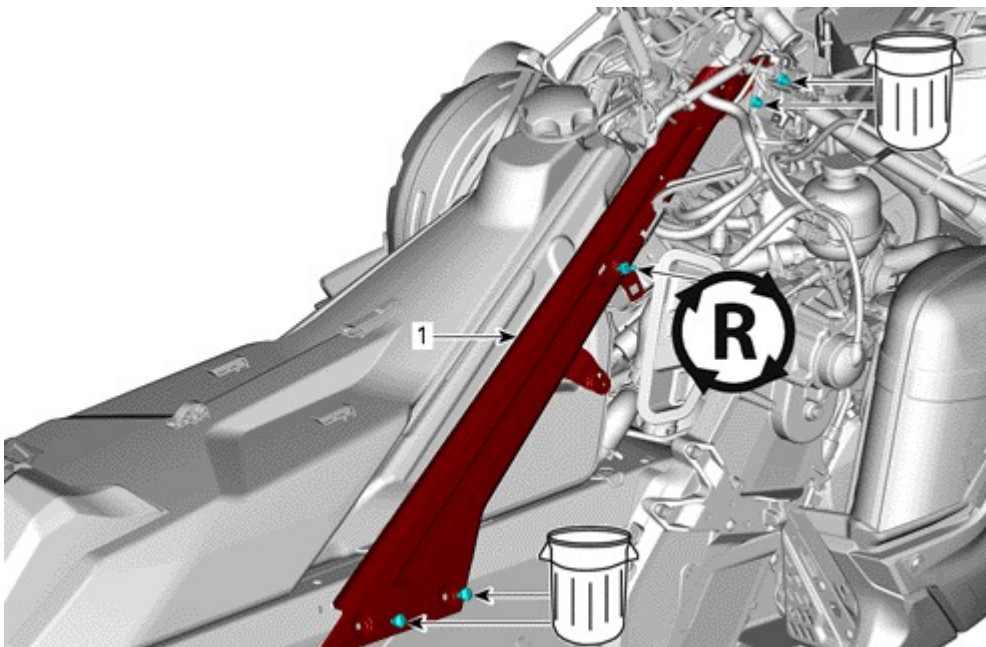
Vehicle Preparation

1. Remove operator seat (refer to procedure in SHOP MANUAL in subsection BODY)
2. Remove LH and RH side panels (refer to procedure in SHOP MANUAL in subsection BODY).
3. Remove upper body module and console (refer to procedure in SHOP MANUAL in subsection BODY).
4. Remove battery and its support (if vehicle is equipped).
5. Lift and secure fuel tank to provide access to rear light harness located in front under fuel tank.
- 5.1 Remove and keep rear diagonal cross members. Keep some fasteners as per illustrations.



LH side shown

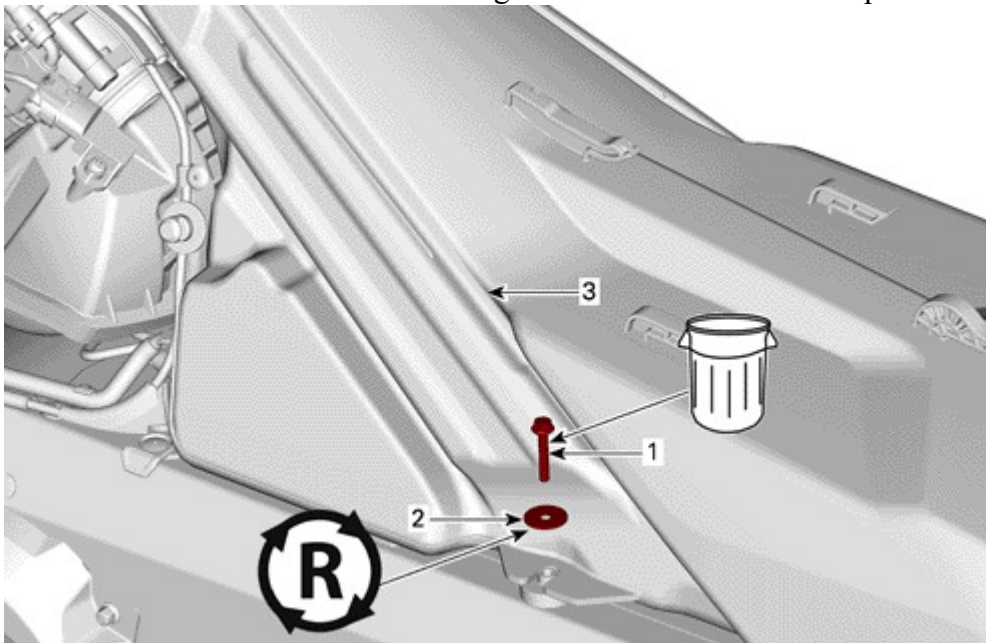
1. LH Rear diagonal cross member



RH side shown

1. RH Rear diagonal cross member

5.2 Remove screw and washer securing fuel tank on each side. Keep washers and discard screws.



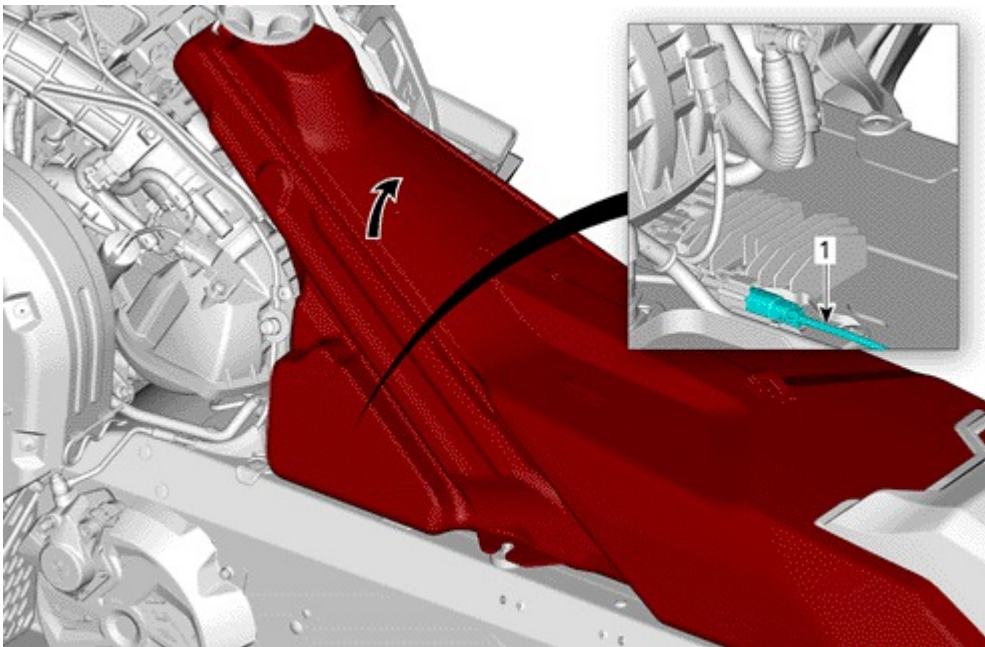
LH side shown

1. Screw

2. Washer

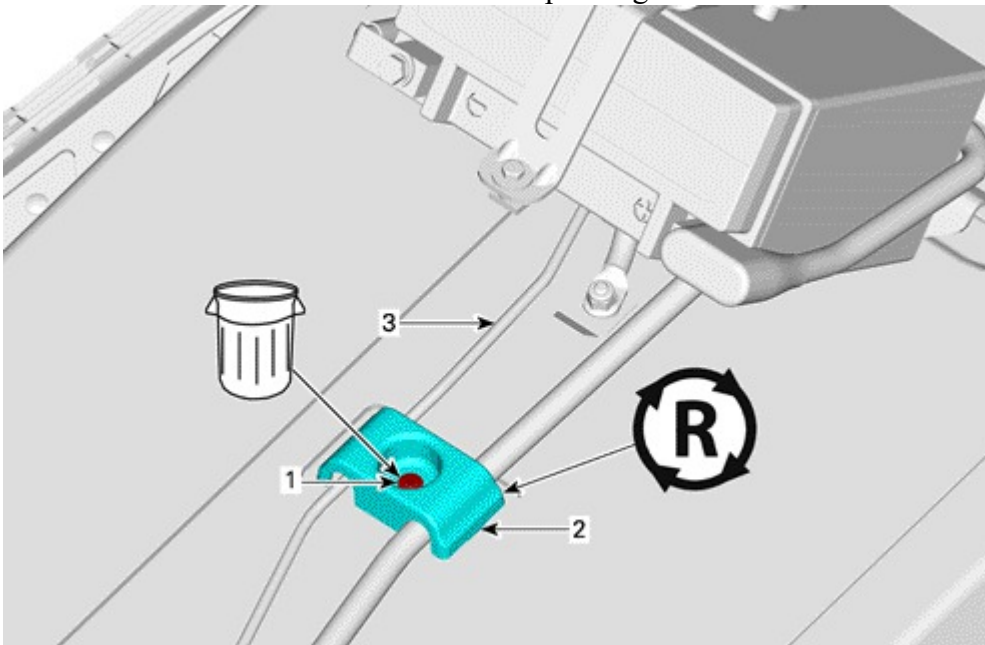
3. Fuel tank

5.3 Lift and secure fuel tank (be careful not to pull on harnesses and fuel hose). Rear light harness position shown in Figure below.

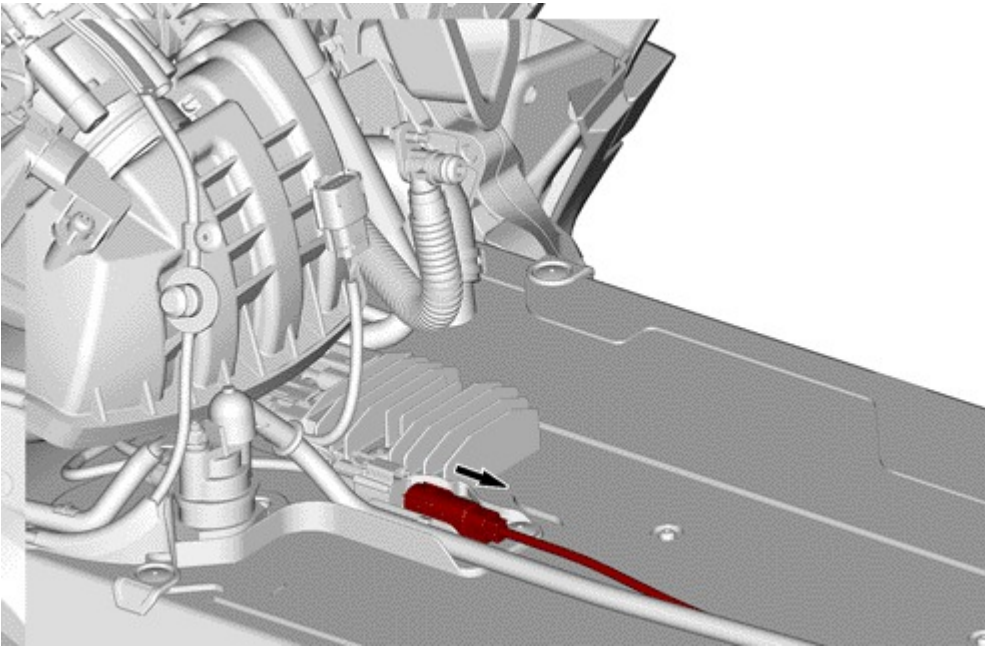


Rear light harness position

1. Rear light harness
6. Drill and discard rivet. Remove and keep tank guide.



1. Rivet
2. Tank guide
3. Rear light harness
7. Disconnect the rear light harness with connector in front of fuel tank. See Figure below.



Harness Installation

1. Connect rear light harness to harness [P5] and connect harness [P5] to Y connector.



1. Harness [P5]

2. Connector

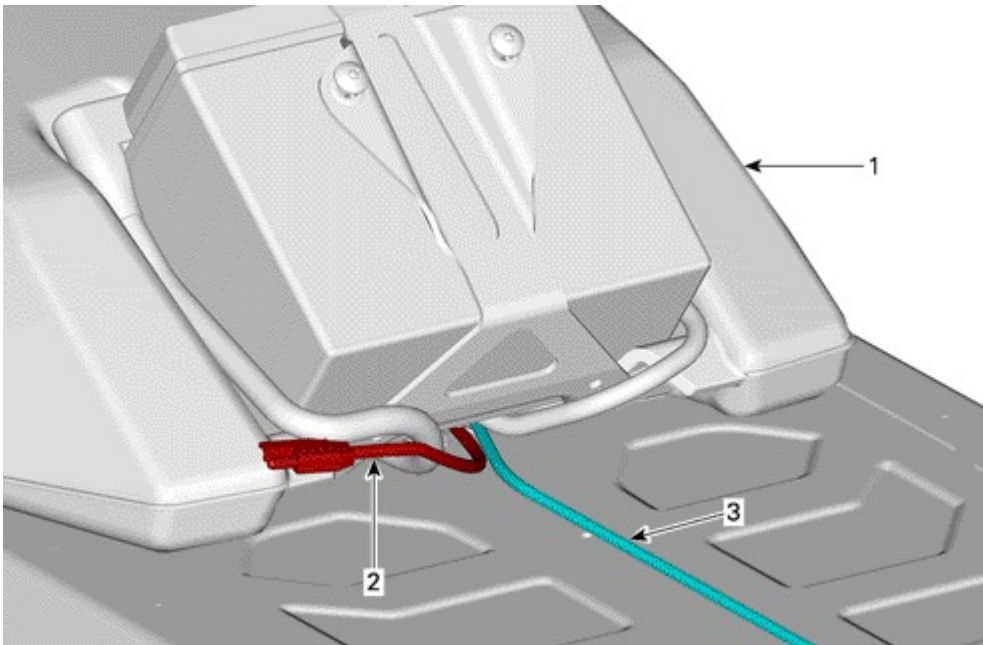
3. Rear light harness

2. Route harness [P5] to the rear of vehicle parallel to rear light harness.

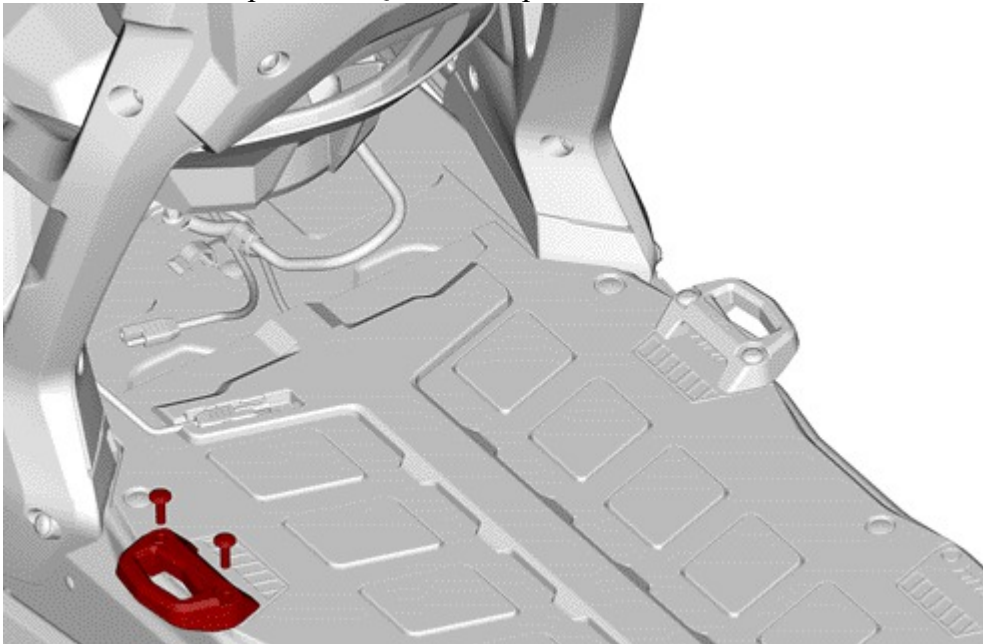
3. Use two (2) locking ties [P11] to join and secure rear light harness and harness [P5] under fuel tank.
Vehicle without radiator protector for tunnel

1. Reinstall previously removed tank guide and secure with 3/16 pop rivet [P13].

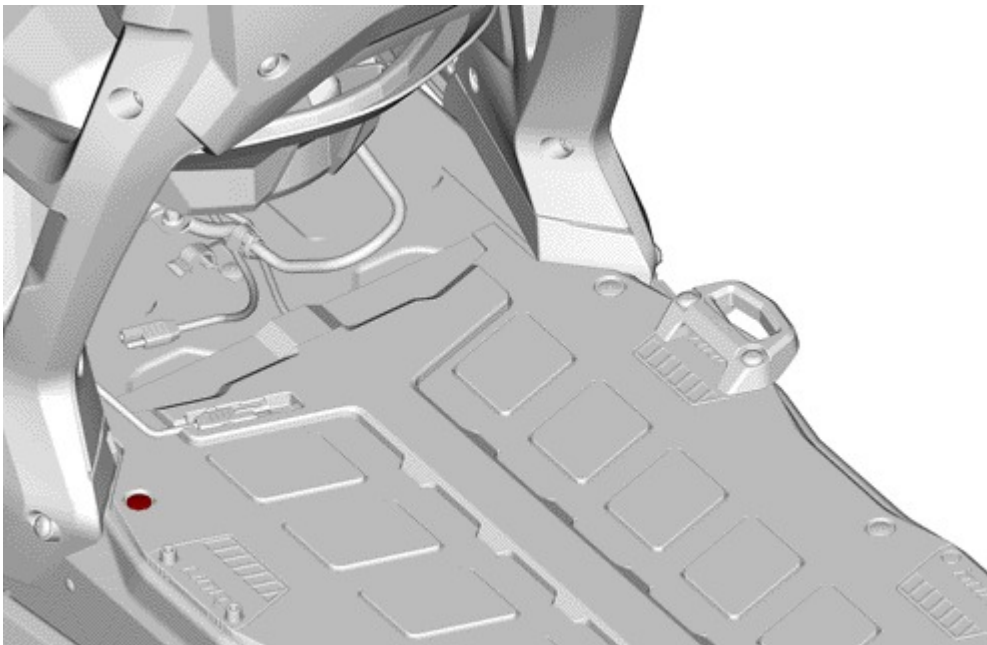
2. Reinstall fuel tank. Refer to SHOP MANUAL. Let harness [P5] get out as shown in Figure below.



1. Fuel tank
 2. Harness [P5]
 3. Rear light harness
 3. Install parts removed at vehicle preparation.
 4. For the rest of the procedure, refer to SHOP MANUAL.
- Models with radiator protector for tunnel
1. Remove and keep LH LinQ base. Keep hardware.



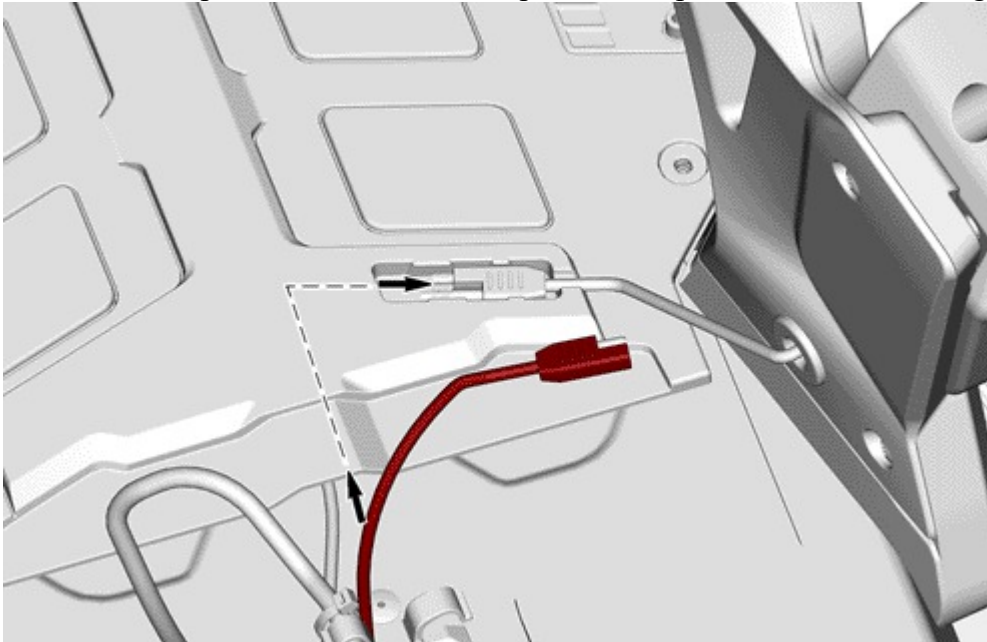
2. Drill and discard front LH rivet. Position shown in Figure below.



Rivet position

3. Lift the front LH corner of the radiator protector and route the harness [P5] as illustrated.

NOTE: Do not pull too hard on radiator protector to prevent it from breaking.



4. Secure radiator protector with one (1) 3/16 black pop rivet [P13] and reinstall LinQ base with two (2) reused M6 x 20 Torx screws. Apply LOCTITE 243 (BLUE) (P/N 293 800 060) on screw threads.

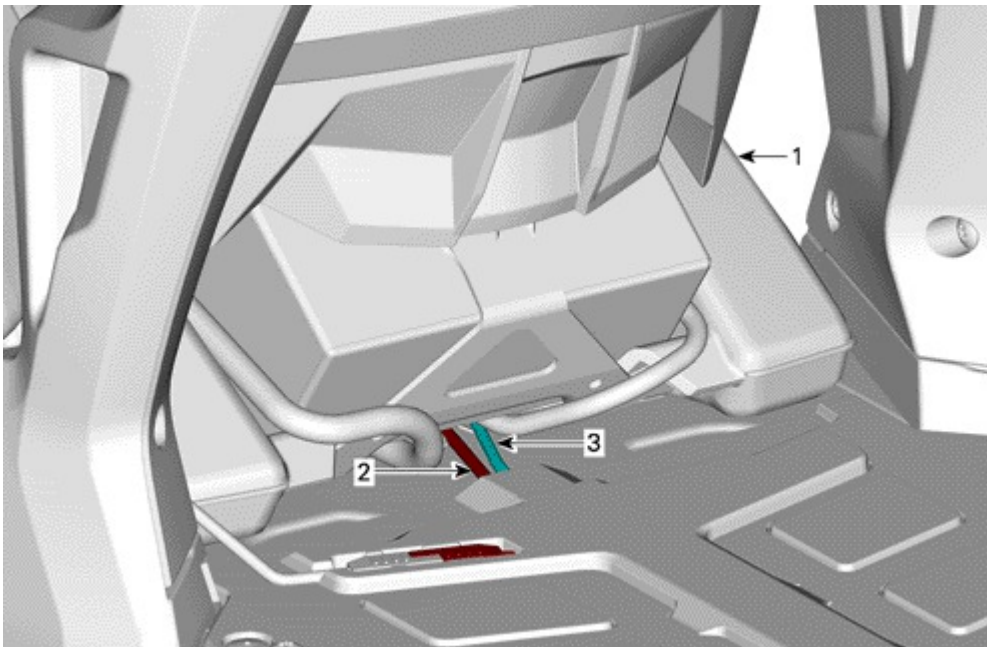
tightening torque

M6 x 20 Torx screw

$7.5 \pm 1 \text{ N}\cdot\text{m}$ ($66 \pm 9 \text{ lbf}\cdot\text{in}$)

5. Reinstall previously removed tank guide and secure with 3/16 black pop rivet [P13].

6. Reinstall fuel tank. Refer to SHOP MANUAL. Let harness [P5] get out as shown in Figure below.



1. Fuel tank
2. Harness [P5]
3. Rear light harness
7. Install parts removed at vehicle preparation.
8. For the rest of the procedure, refer to SHOP MANUAL.