

INSTRUMENT PANEL

GENERAL INFORMATION	58-3	Instrument Panel Assembly	58-13
Overview	58-3	Removal	58-13
Description	58-3	Installation	58-22
Specifications	58-6	Disassembly	58-22
Tool	58-6	Assembly	58-24
Tool	58-6	Installation	58-24
Auxiliary Fascia Console Assembly	58-7	Instrument Panel Crossmember Assembly	58-25
Removal	58-7	Removal	58-25
Installation	58-12	Installation	58-32

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



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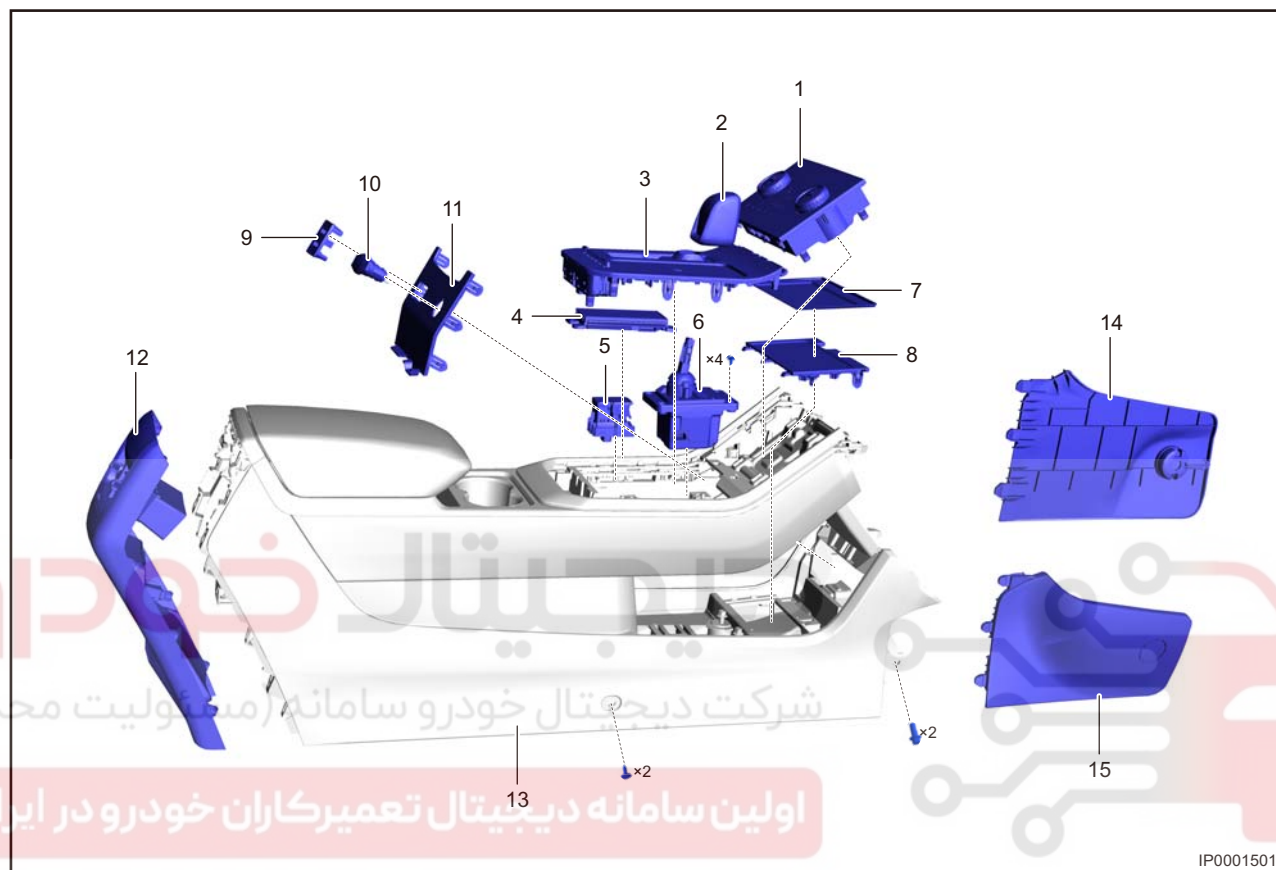


GENERAL INFORMATION

Overview

Description

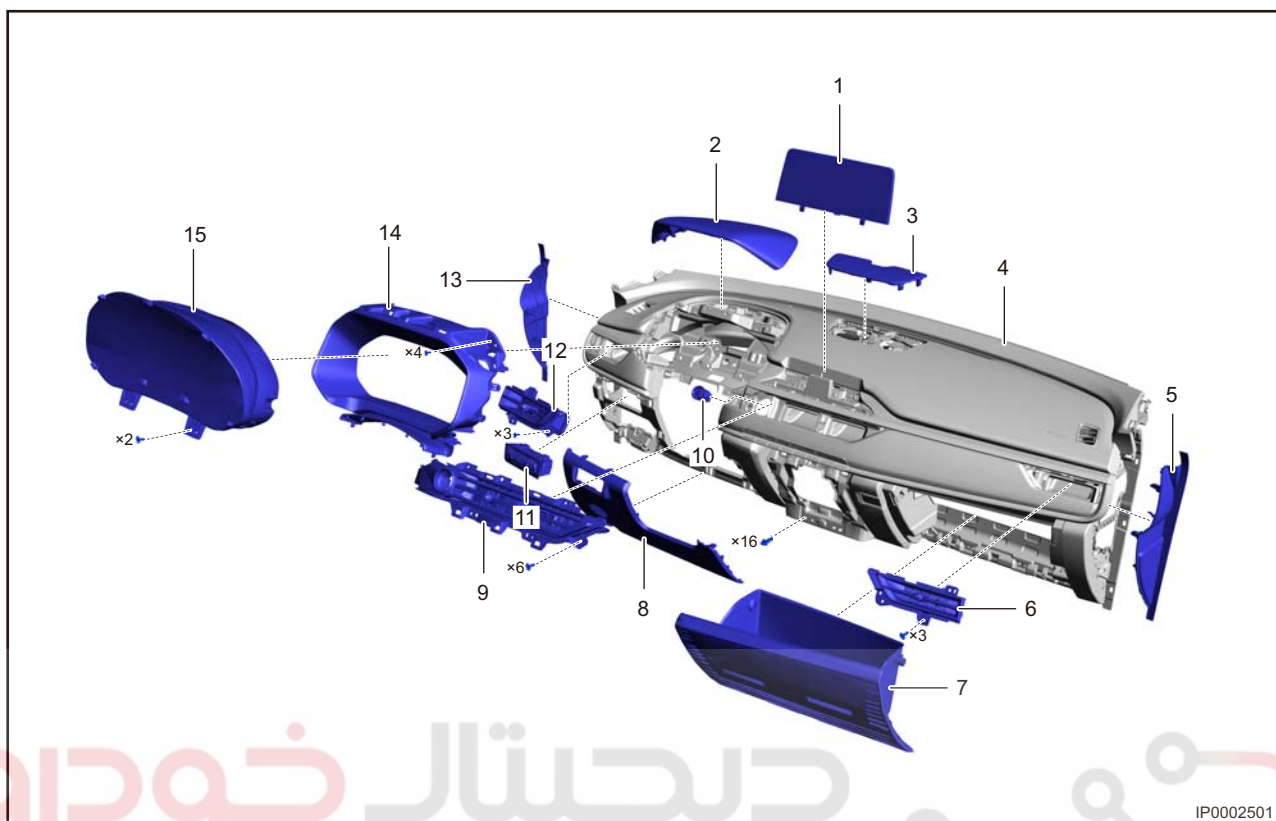
Auxiliary Fascia Console Assembly



IP0001501

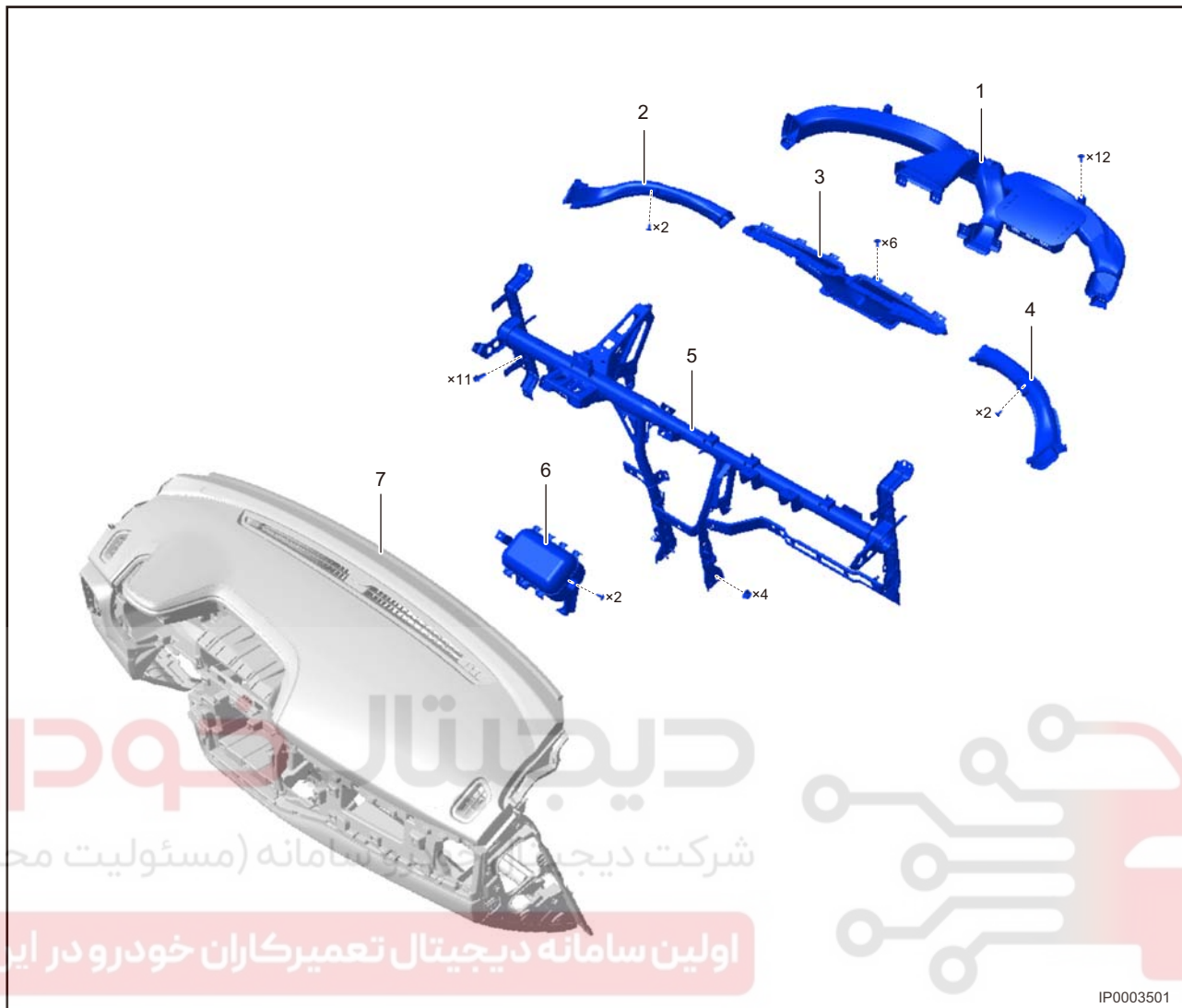
1 - A/C Panel Assembly	2 - Shift Lever
3 - Auxiliary Fascia Console Finish Assembly	4 - Wireless Charging Module
5 - EPB Switch Assembly	6 - Gear Shift Mechanism
7 - Front End Storage Box Rubber Gasket	8 - Front Storage Box Lower Body
9 - Multi-function Interface	10 - 12 V Backup Power Supply
11 - USB Panel Assembly	12 - Auxiliary Fascia Console Rear Panel Assembly
13 - Auxiliary Fascia Console Assembly	14 - Auxiliary Fascia Console Front Left Protector Assembly
15 - Auxiliary Fascia Console Front Right Protector Assembly	

Instrument Panel Assembly



IP0002501

1 - No Disc DVD Display	2 - Instrument Cluster Front Cover
3 - Speaker Cover Assembly	4 - Instrument Panel Body Assembly
5 - Instrument Panel Right End Cover Assembly	6 - A/C Right Outlet
7 - Glove Box Assembly	8 - Instrument Panel Left Lower Protector Assembly
9 - A/C Middle Outlet	10 - Ignition Switch
11 - Adjustment Switch Assembly	12 - A/C Left Outlet
13 - Instrument Panel Left End Cover Assembly	14 - Instrument Cluster Trim Frame Assembly
15 - Instrument Cluster Assembly	



IP0003501

1 - Face Air Duct Assembly	2 - Left Defroster Duct Assembly
3 - Windshield Defroster Duct Assembly	4 - Right Defroster Duct Assembly
5 - Instrument Panel Crossmember Assembly	6 - Front Passenger Airbag Assembly
7 - Instrument Panel Assembly	

Specifications

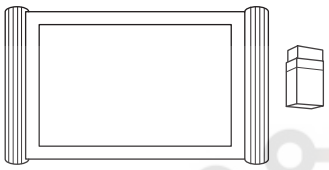
Torque Specifications

Description	Torque (N·m)
Instrument Cluster Trim Frame Assembly Fixing Bolt	1.5 ± 0.5
Middle Channel Connecting Bracket Fixing Bolt	7 ± 1
Combination Switch Lower Cover Fixing Screw	1.5 ± 0.5
Front Extension Plate Assembly Fixing Bolt	5 ± 1
Instrument Panel Fixing Screw	1.5 ± 0.5
Fixing Bolt Between Passenger Side Airbag and Crossmember	23 ± 2
Instrument Panel Crossmember Fixing Bolt	25 ± 3.5

58

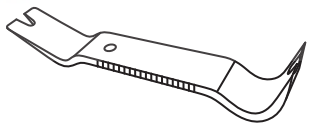
Tool

Special Tool

Tool Name	Part No.	Tool Drawing
Steering Wheel Remover	CH-30003-A	 RCH000106

Tool

General Tool

Interior Crow Plate	 RCH002506
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Auxiliary Fascia Console Assembly

Removal

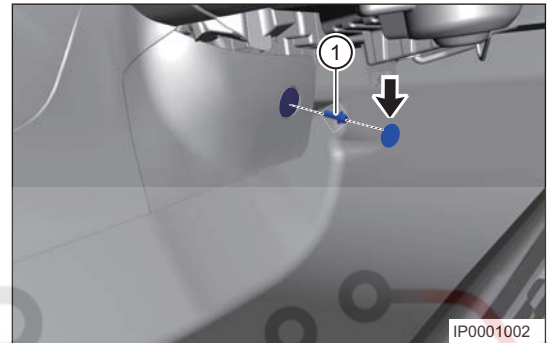
WARNING:

- Be sure to wear safety equipment to prevent accidents, when removing auxiliary fascia console assembly.
 - Appropriate force should be applied, when removing auxiliary fascia console assembly. Be careful not to operate roughly.
 - DO NOT scratch interior and body paint, when removing auxiliary fascia console assembly.
1. Turn off all electrical equipment and the ignition switch.
 2. Disconnect the negative battery cable.
 3. Remove the auxiliary fascia console front right protector (removal produces for left and right are same. Take the right side as an example).

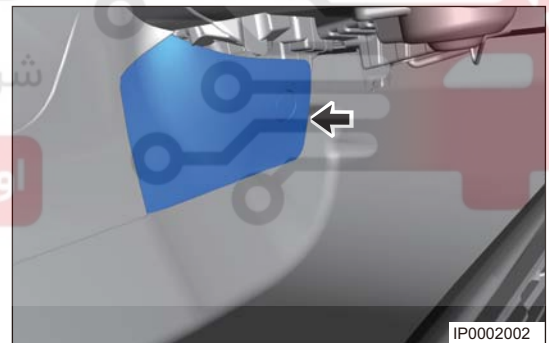
- (a) Using an interior crow plate, pry off the plug (arrow) of auxiliary fascia console front right protector carefully and remove the fixing bolt (1) from auxiliary fascia console front right protector.

Tightening torque

$9 \pm 1 \text{ N}\cdot\text{m}$



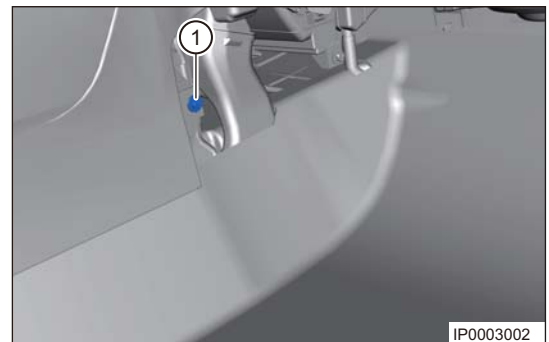
- (b) Remove the auxiliary fascia console front right protector (arrow).



4. Remove fixing bolt (1) from auxiliary fascia console (removal produces for left and right are same. Take the right side as an example).

Tightening torque

$5 \pm 1 \text{ N}\cdot\text{m}$



5. Remove fixing screw (arrow) from center of auxiliary fascia console (removal produces for left and right are same. Take the right side as an example).

Tightening torque

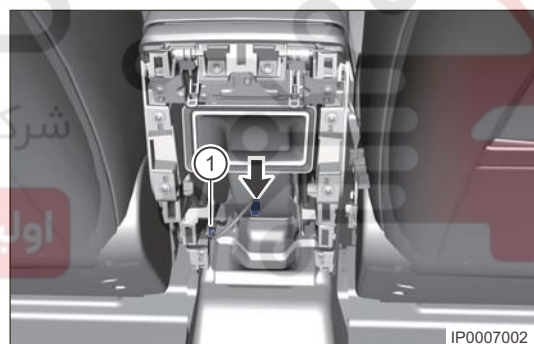
1.5 ± 0.5 N•m

58

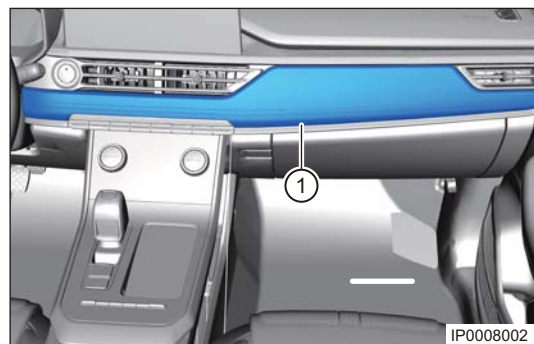
6. Pry off auxiliary fascia console rear panel assembly (arrow) carefully with an interior crow plate.



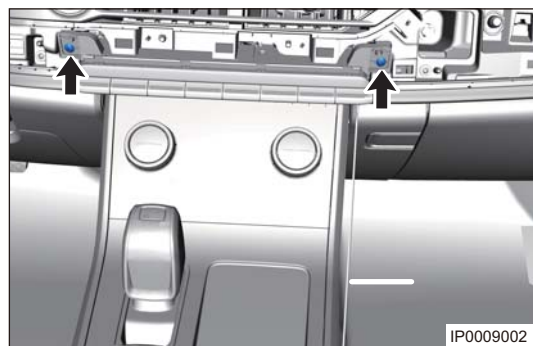
7. Disconnect the USB charging module connector (arrow), and remove wire harness clip (1).



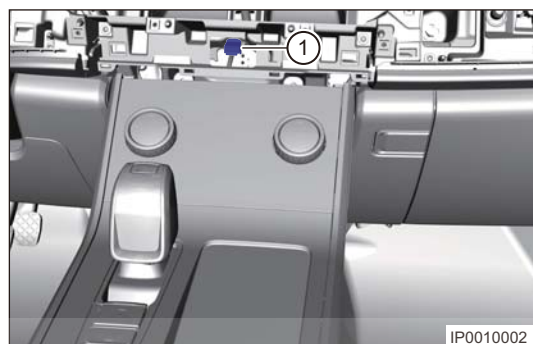
8. Remove the central console switch assembly.
(a) Pry off fixing clip on central console panel with an interior crow plate, and remove central console panel assembly (1).



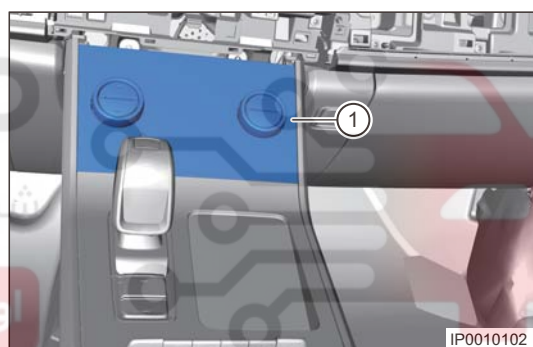
- (b) Remove 2 fixing screws (arrow) from central console switch assembly.

Tightening torque $1.5 \pm 0.5 \text{ N}\cdot\text{m}$ 

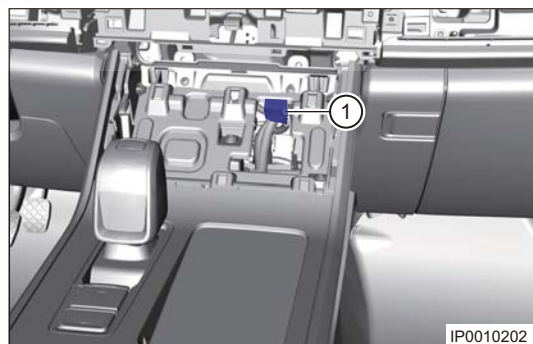
- (c) Disconnect the central console switch assembly connector (1).



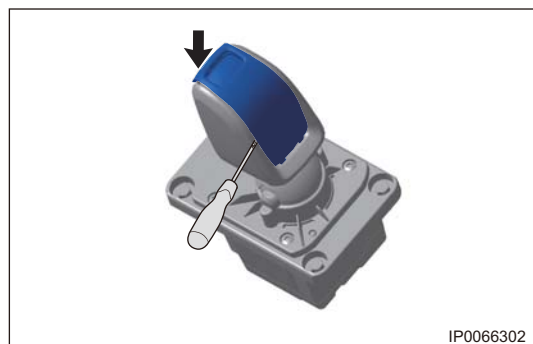
- (d) Pry off electric A/C control panel assembly (1) carefully with interior crow plate.



- (e) Disconnect the A/C control panel connector (1).



- (f) Press the front panel (arrow) position of the electronic shift lever by hand until the clearance is pressed, then carefully pry out the front panel of shift lever using the a flat tip screwdriver wrapped with protective tape.



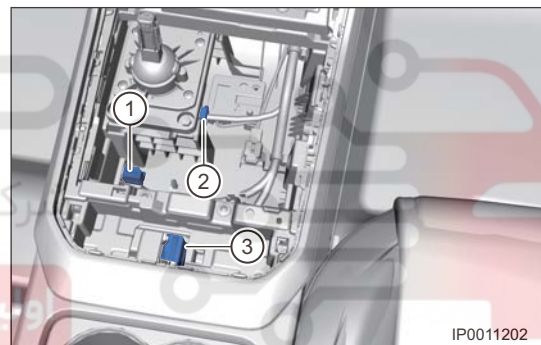
- (g) Take out snap ring (1), lift it up in the direction of the arrow, and remove the electronic shift lever.



- (h) Pry off fixing clips from auxiliary fascia console switch and cover plate assembly with an interior crow plate.



- (i) Disconnect parking switch connector (1), electronic shift control mechanism assembly connector (2), auxiliary fascia console switch connector (3), wireless charging module connector, and remove central console switch assembly.



9. Remove the multi-function interface.

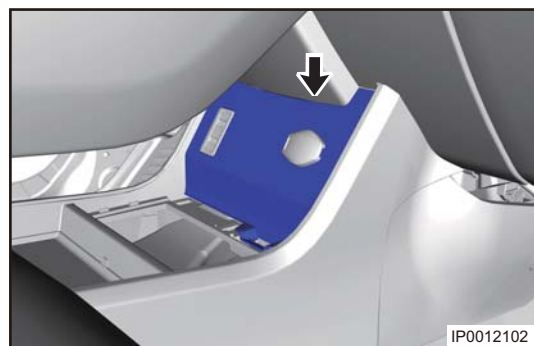
- (a) Remove the auxiliary fascia console front end storage box rubber gasket (arrow).



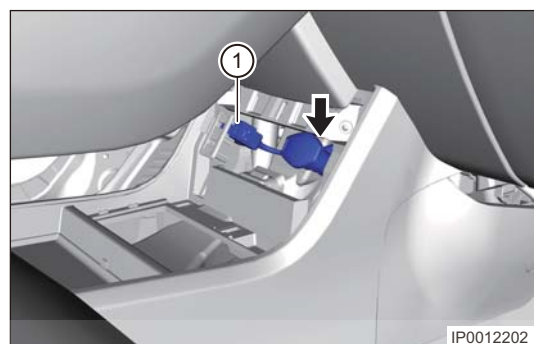
- (b) Pry off the front storage box cover plate assembly (arrow) with interior crow plate.



(c) Remove the USB panel assembly.



(d) Disconnect the backup power supply connector (arrow) and 2 USB connectors (1).

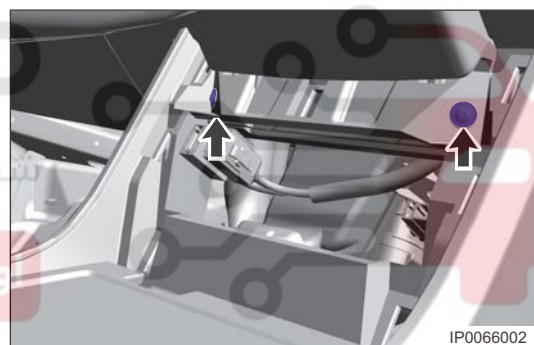


58

10. Remove 2 fixing screws (arrow) from auxiliary fascia console assembly.

Tightening torque

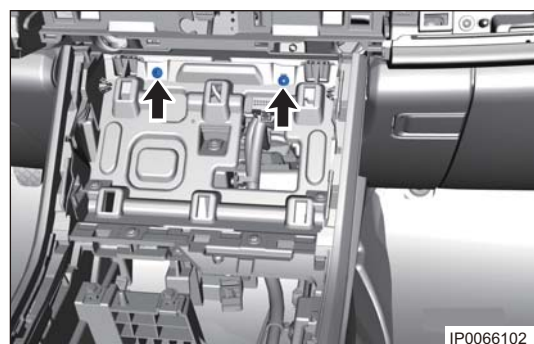
$1.5 \pm 0.5 \text{ N}\cdot\text{m}$



11. Remove 2 fixing screws (arrow) from auxiliary fascia console assembly.

Tightening torque

$1.5 \pm 0.5 \text{ N}\cdot\text{m}$



12. Open the armrest box and remove gasket of armrest box storage box. Remove 4 fixing bolts of auxiliary fascia console.

Tightening torque

$5 \pm 1 \text{ N}\cdot\text{m}$



13. Disconnect the auxiliary fascia console wire harness connector clips (arrow).



14. Disconnect the immobilizer coil connector.

15. Remove the auxiliary fascia console assembly.

Installation

1. Assembly is in the reverse order of disassembly.

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Instrument Panel Assembly

Removal

WARNING:

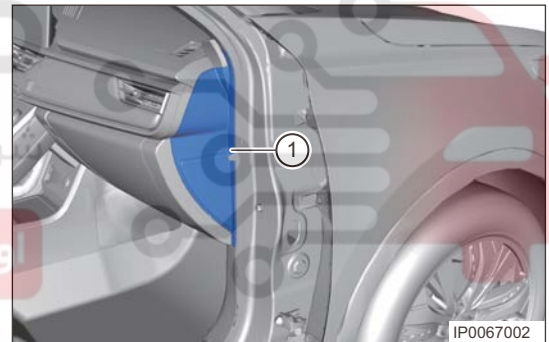
- Be sure to wear safety equipment to prevent accidents, when removing auxiliary fascia console assembly.
- All operations related with safety airbag components when removing the instrument panel should be performed after battery power supply is disconnected. Never operate it with power on. Because within 60 seconds after engine stalls or fuse removed, there is enough power remaining in the airbag control module for activating airbag, and the airbag can be accidentally activated, causing personal injury or vehicle damage.
- Never expose airbag components directly to hot air or open flame.
- Removed airbag should be well kept. If triggered accidentally, it may cause personal injury.

Warning:

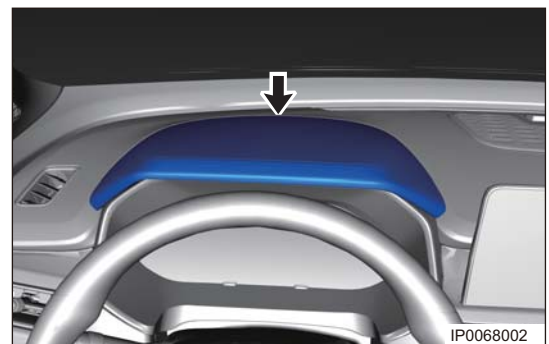
- Be sure to wear safety equipment to prevent accidents, when removing instrument panel assembly.
- DO NOT scratch interior and body paint, when removing instrument panel assembly.

1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the auxiliary fascia console assembly (See page 58-7).
4. Remove the right weatherstrip assembly.
5. Remove the instrument panel right end cover assembly.

- (a) Using an interior crow plate, pry off clip from instrument panel right end cover assembly, and remove instrument panel right end cover assembly (1).

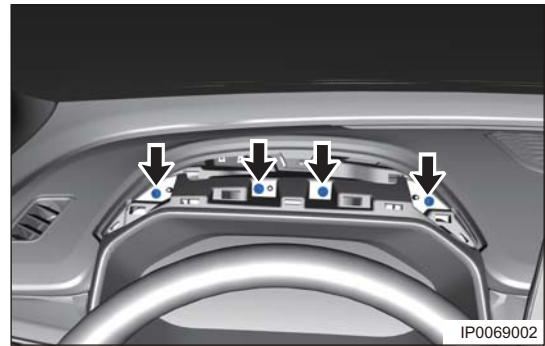


6. Remove the instrument cluster assembly.
 - (a) Pry off and remove instrument cluster front cover (arrow) with interior crow plate.



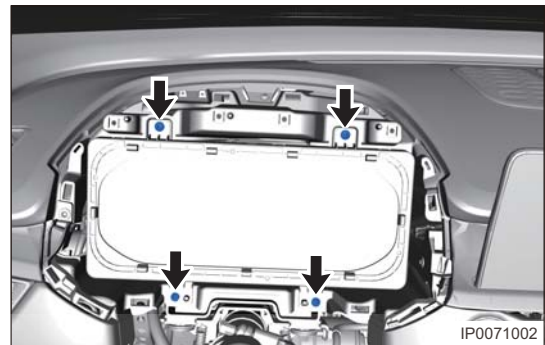
- (b) Remove 4 fixing screws (arrow) from instrument cluster trim frame assembly.

Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$

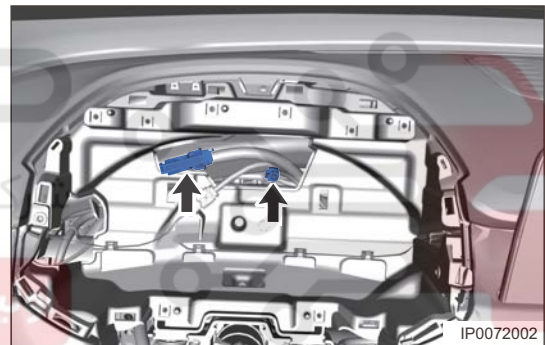


- (c) Remove 4 fixing screws (arrow) from instrument cluster.

Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



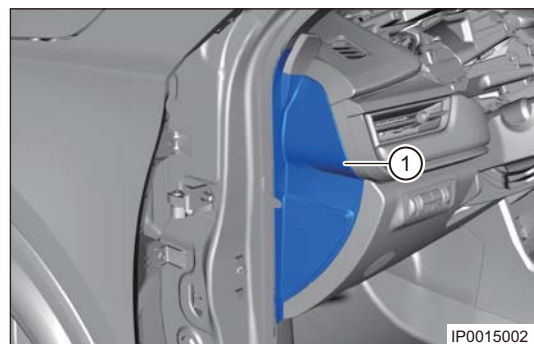
- (d) Disconnect the instrument cluster connectors (arrow).



- (e) Remove the instrument cluster.

7. Remove the driver airbag assembly ([See page 40-60](#)).
8. Remove the steering wheel assembly ([See page 38-30](#)).
9. Remove the spiral cable.
10. Remove the wiper switch assembly.
11. Remove the combination light switch assembly ([See page 44-71](#)).
12. Remove the A-pillar upper protector assembly.
13. Remove the A-pillar lower protector assembly.
14. Remove the no disc DVD display.
15. Remove the OBD connector.
16. Remove the instrument panel left end cover assembly.

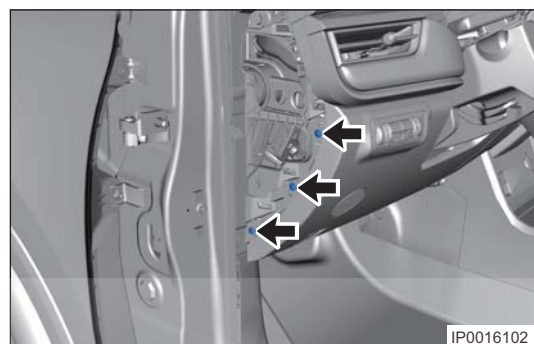
- (a) Using an interior crow plate, pry off clip from instrument panel left end cover assembly carefully, and remove instrument panel left end cover assembly (1).



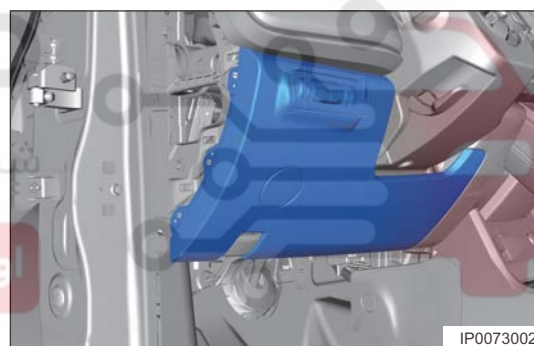
17. Remove the instrument panel lower left protector assembly.

- (a) Remove 3 fixing screws (arrow) from instrument panel lower left protector assembly.

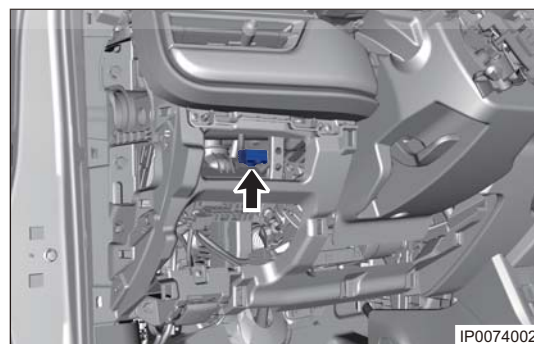
Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



- (b) Using a screwdriver wrapped with protective tape, pry off instrument panel lower left protector.

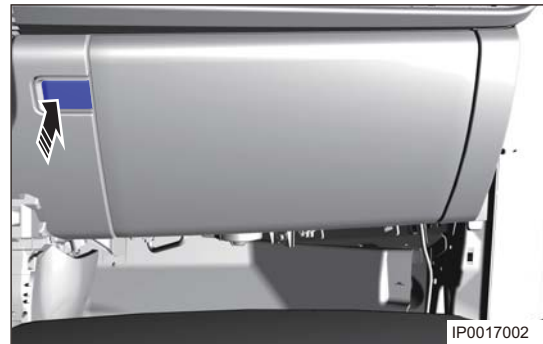


- (c) Disconnect adjustment switch connector (arrow), and remove instrument panel lower left protector.

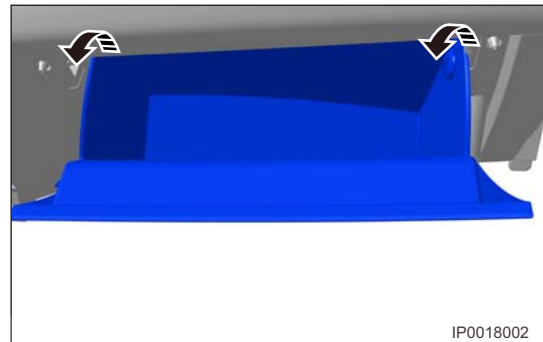


18. Remove the glove box assembly.

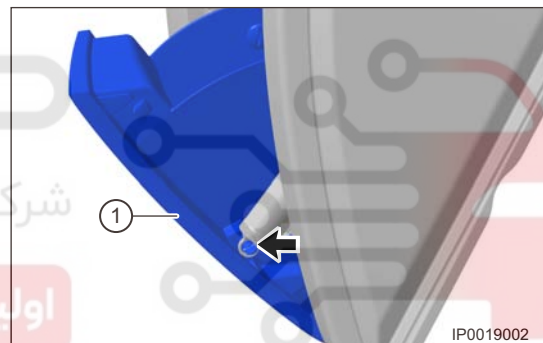
- (a) Press glove box switch and open glove box assembly in direction of arrow as shown in illustration.



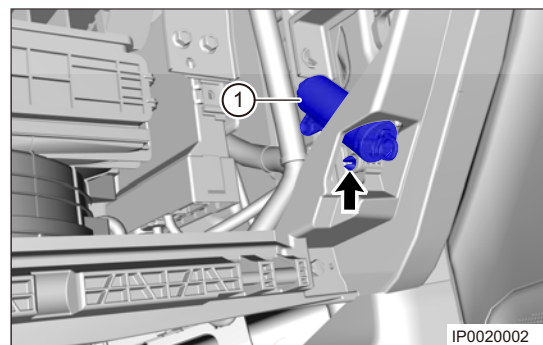
- (b) Rotate lock knob in direction of arrow as shown in illustration to remove it.



- (c) Detach the coupling clips between glove box and damper, detach claws from lower side of glove box assembly, and remove glove box assembly (1).

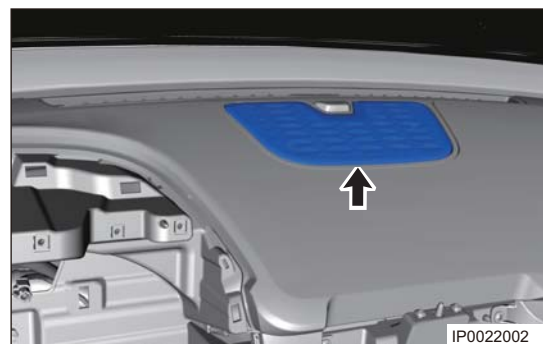


- (d) Detach the coupling clips between instrument panel and damper, detach claws from lower side of instrument panel assembly, and remove damper assembly (1).



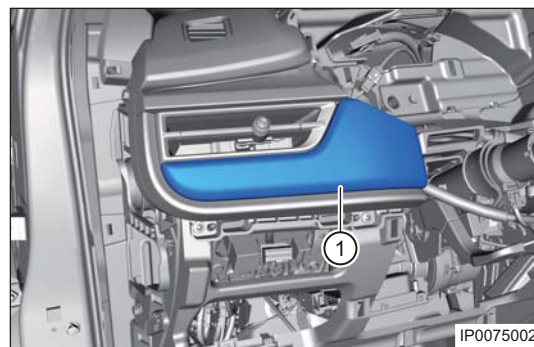
19. Remove the speaker cover assembly.

- (a) Pry off fixing clip with an interior crow plat, and remove speaker cover assembly (arrow).



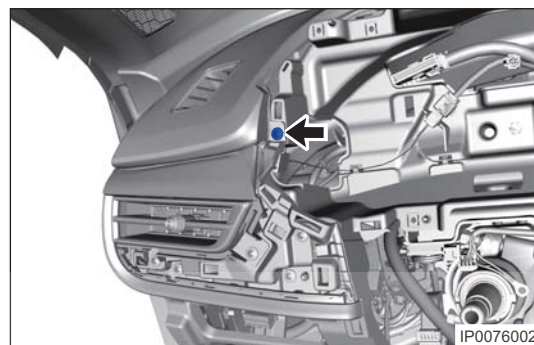
20. Remove the A/C left outlet assembly.

- (a) Pry off the lower finish panel assembly (1) of instrument panel left outlet with interior crow plate.

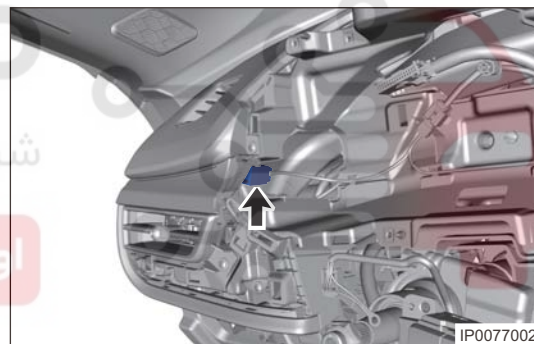


- (b) Remove fixing screw (arrow) from upper finish panel assembly of instrument panel left outlet.

Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



- (c) Disconnect the ambient light connector (arrow).

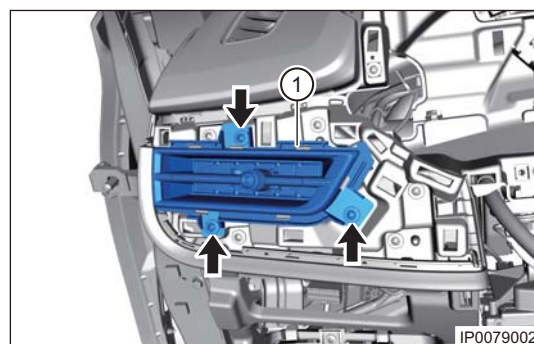


- (d) Remove upper finish panel assembly (2) of instrument panel left outlet.



- (e) Remove 3 fixing screws (arrow) and A/C left outlet (1).

Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$

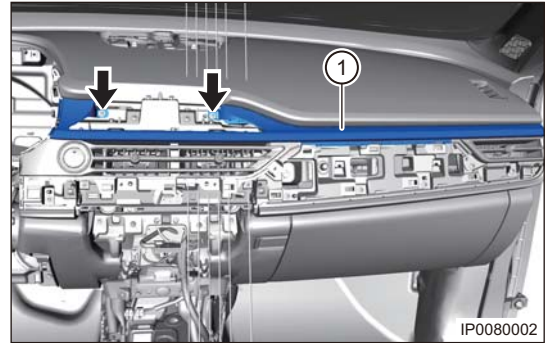


21. Remove the A/C middle outlet assembly.

- (a) Remove 2 fixing screws (arrow) and no disc DVD display lower finish panel (1).

Tightening torque

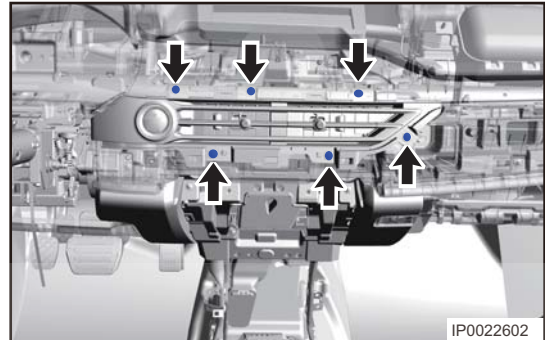
$1.5 \pm 0.5 \text{ N}\cdot\text{m}$



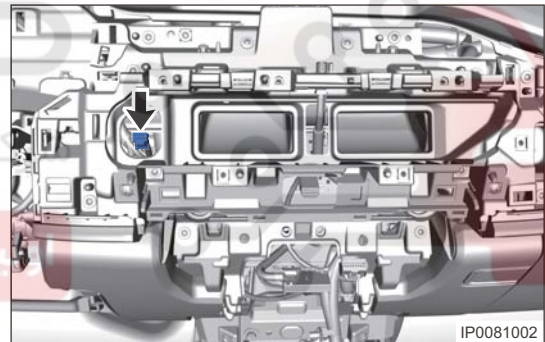
- (b) Remove 6 fixing screws (arrow) from A/C middle outlet.

Tightening torque

$1.5 \pm 0.5 \text{ N}\cdot\text{m}$



- (c) Disconnect the ENGINE START STOP switch connector (arrow), and remove A/C middle outlet assembly.

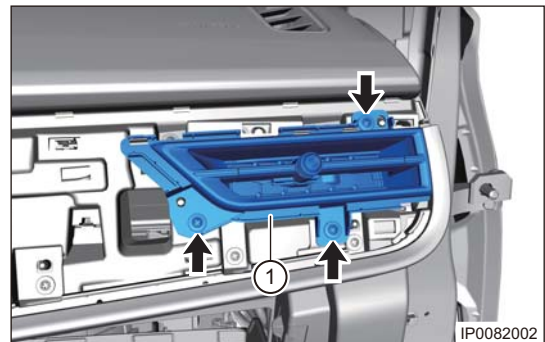


22. Remove the A/C right outlet assembly.

- (a) Remove 3 fixing screws (arrow) from A/C right outlet.

Tightening torque

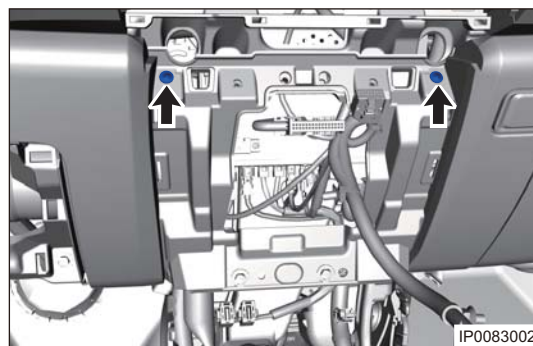
$1.5 \pm 0.5 \text{ N}\cdot\text{m}$



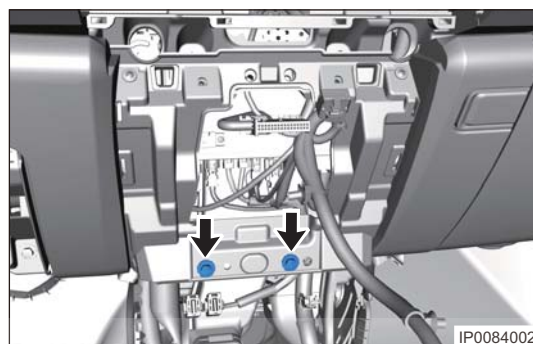
- (b) Remove the A/C right outlet (1).

23. Remove the center lower protector assembly.

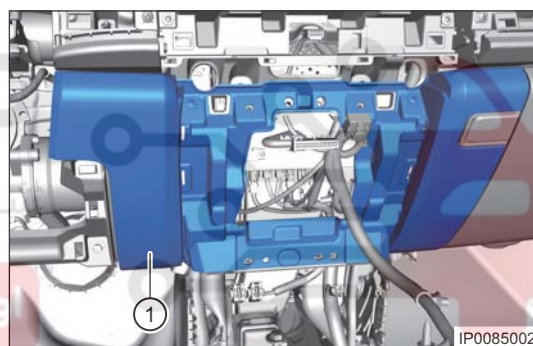
- (a) Remove 2 fixing screws (arrow) from center lower protector assembly.

Tightening torque $1.5 \pm 0.5 \text{ N}\cdot\text{m}$ 

- (b) Remove 2 fixing bolts (arrow) from center lower protector assembly.

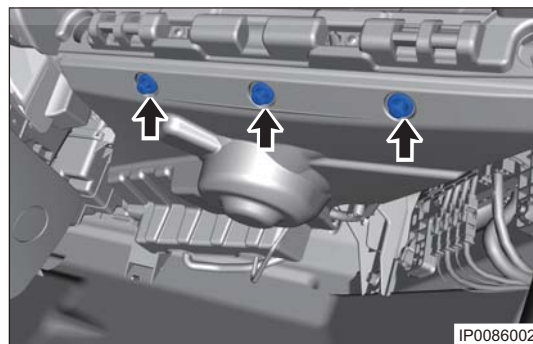
Tightening torque $7 \pm 1 \text{ N}\cdot\text{m}$ 

- (c) Remove the center lower protector assembly (1).

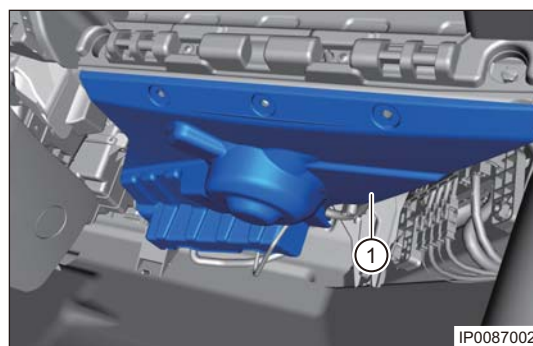


24. Remove the instrument panel right soundproof board assembly.

- (a) Remove 3 fixing clips (arrow) from instrument panel right soundproof board assembly.



- (b) Remove the instrument panel right soundproof board assembly (1).

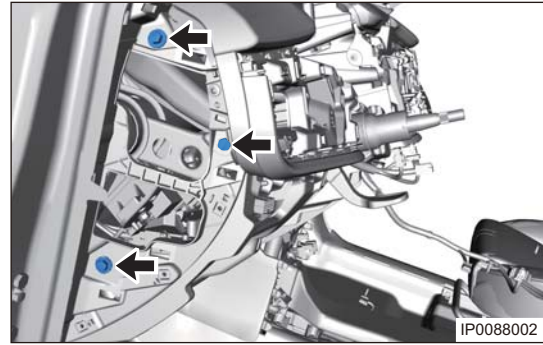


25. Remove the instrument panel assembly.

- (a) Remove 3 fixing bolts (arrow) from left instrument panel assembly.

Tightening torque

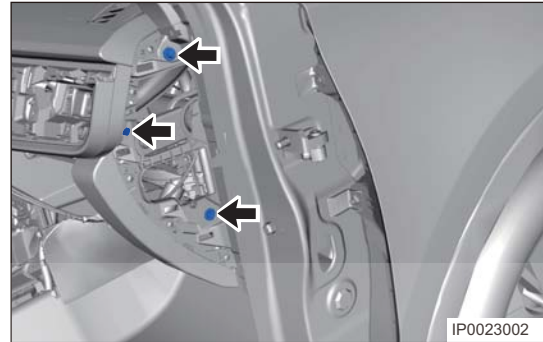
$7 \pm 1 \text{ N}\cdot\text{m}$



- (b) Remove 3 fixing bolts (arrow) from right instrument panel assembly.

Tightening torque

$7 \pm 1 \text{ N}\cdot\text{m}$



- (c) Remove fixing bolt (arrow) from upper right instrument panel assembly (Use same procedures for right and left sides).

Tightening torque

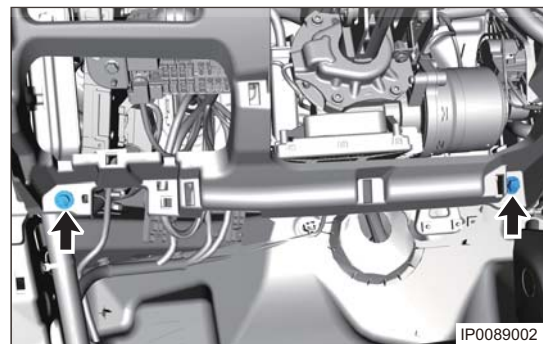
$7 \pm 1 \text{ N}\cdot\text{m}$



- (d) Remove 2 fixing bolts (arrow) between lower left part of instrument panel and crossmember.

Tightening torque

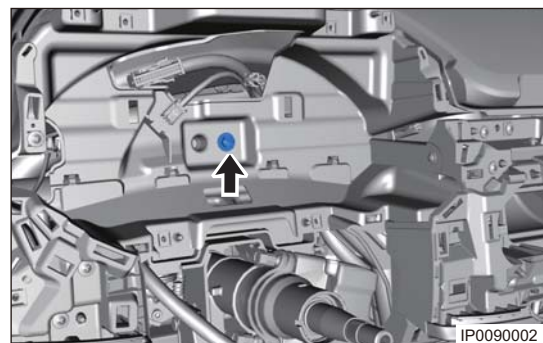
$7 \pm 1 \text{ N}\cdot\text{m}$



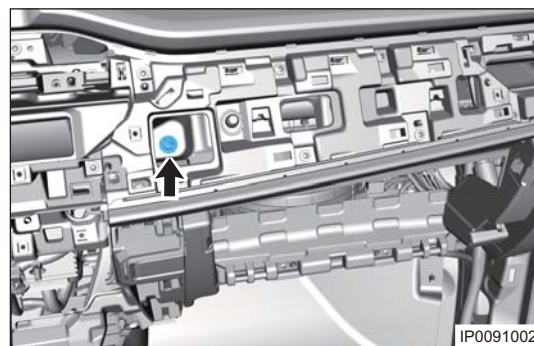
- (e) Remove fixing bolt (arrow) between rear side of instrument panel and crossmember.

Tightening torque

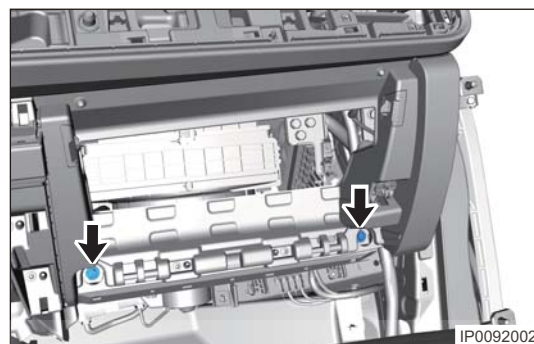
$7 \pm 1 \text{ N}\cdot\text{m}$



- (f) Remove fixing bolt (arrow) between middle side of instrument panel and crossmember.



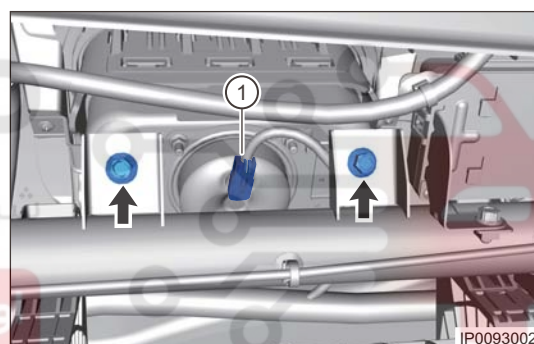
- (g) Remove 2 fixing bolts (arrow) between lower right part of instrument panel and crossmember.



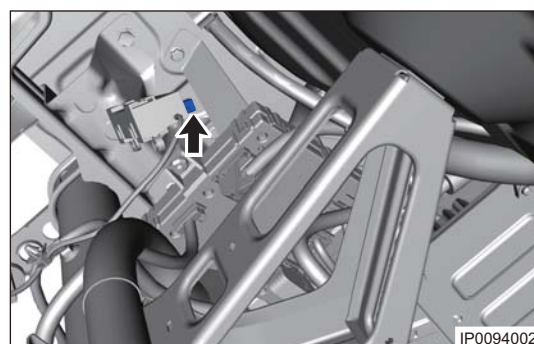
- (h) Disconnect passenger side airbag connector (1) and remove 2 fixing bolts (arrow) between passenger side airbag and crossmember.

Tightening torque

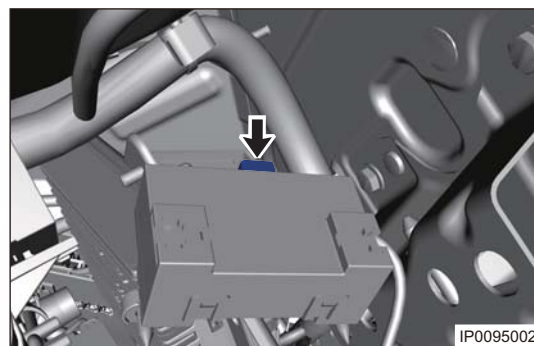
$23 \pm 2 \text{ N}\cdot\text{m}$



- (i) Disengage the wire harness fixing clip of instrument panel.
(j) Disconnect the solar sensor connector.
(k) Disconnect the left negative ion generator connector (arrow).



- (l) Disconnect the right negative ion generator connector (arrow).



- (m) Remove the instrument panel assembly.

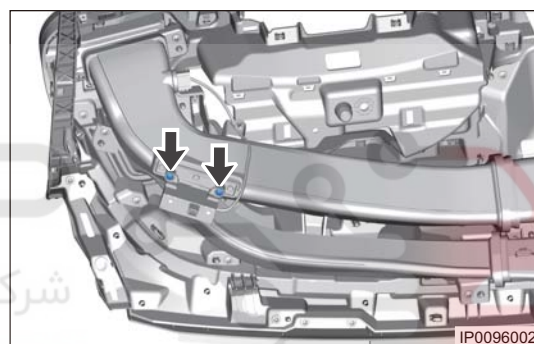
58

Installation

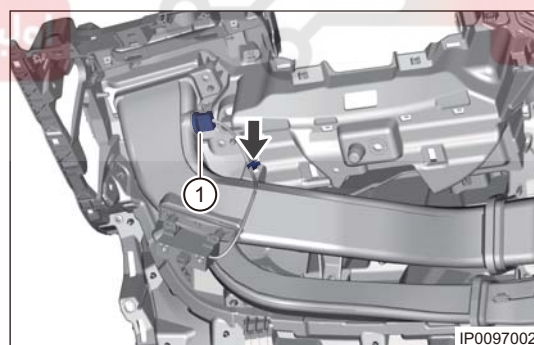
1. Assembly is in the reverse order of disassembly.

Disassembly

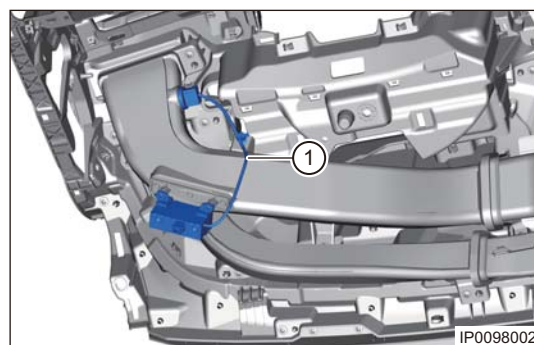
1. Remove the negative ion generator.
(a) Remove 2 fixing screws (arrow) from left negative ion generator.



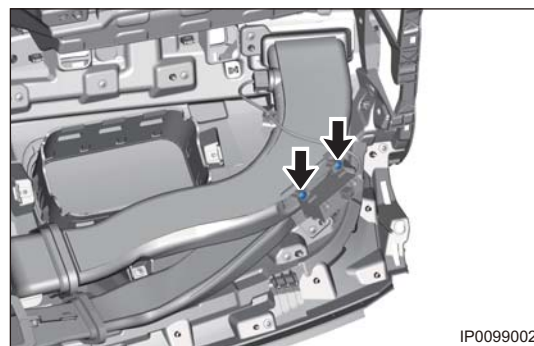
- (b) Remove negative ion generator emitter (1) from air duct, and remove fixing clip (arrow).



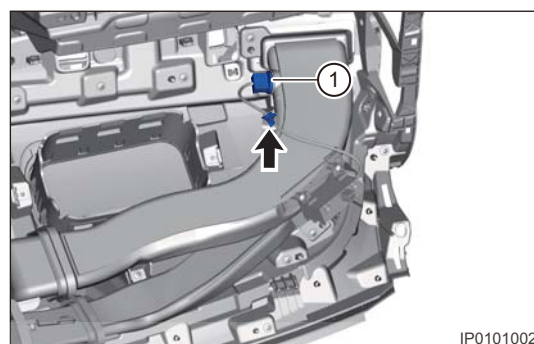
- (c) Remove the left negative ion generator (1).



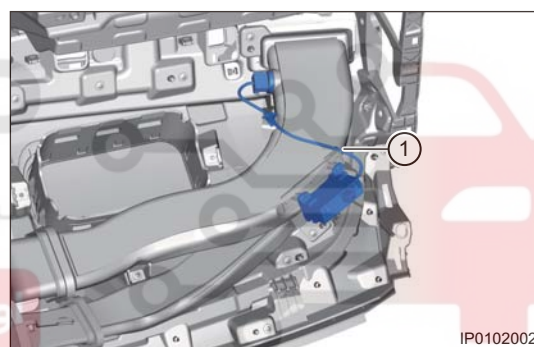
- (d) Remove 2 fixing screws (arrow) from right negative ion generator.



- (e) Remove negative ion generator emitter (1) from air duct, and remove fixing clip (arrow).



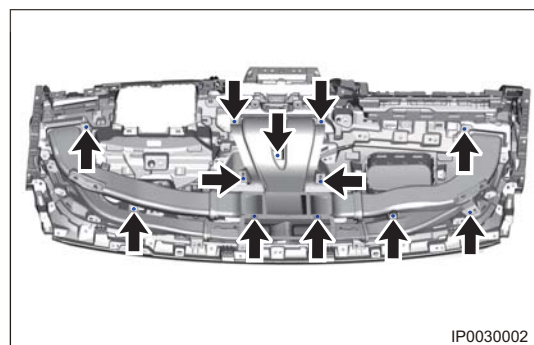
- (f) Remove the right negative ion generator (1).



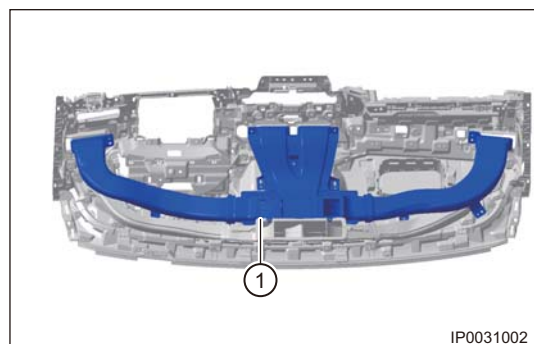
2. Remove the central air duct.

- (a) Remove 12 fixing screws (arrow) from central air duct.

Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$

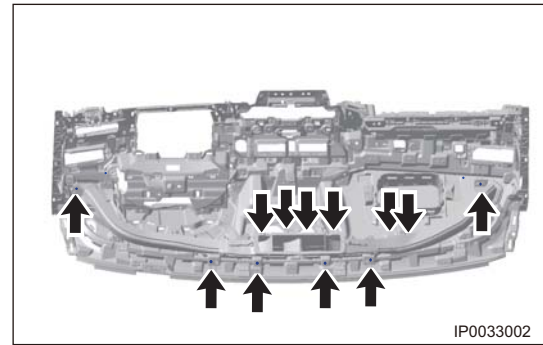


- (b) Remove the central air duct (1).

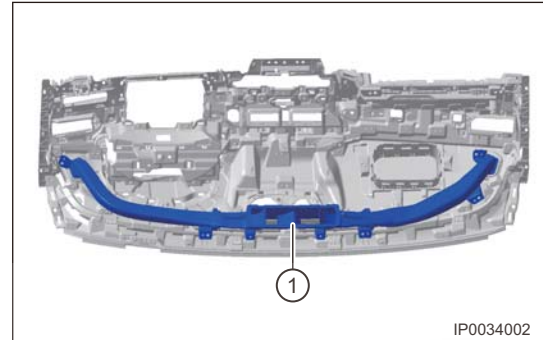


3. Remove the central defroster duct.

- (a) Remove 12 fixing screws (arrow) from central defroster duct.

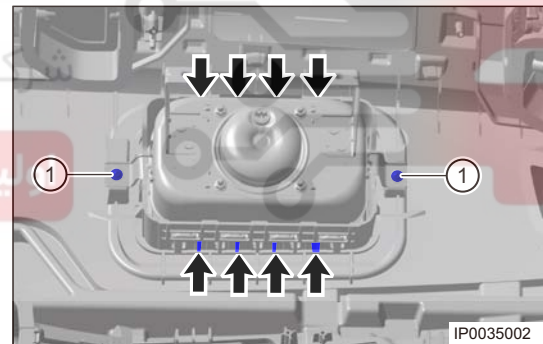
Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$


- (b) Remove the central defroster duct (1).



4. Remove the front passenger airbag assembly.

- (a) Remove 2 fixing screws (1) from front passenger airbag assembly.
 (b) Disengage 8 fixing clips (arrow) from front passenger airbag assembly.



- (c) Remove the front passenger airbag assembly.

Assembly

1. Assembly is in the reverse order of disassembly.

Installation

1. Installation is in the reverse order of removal.

Instrument Panel Crossmember Assembly

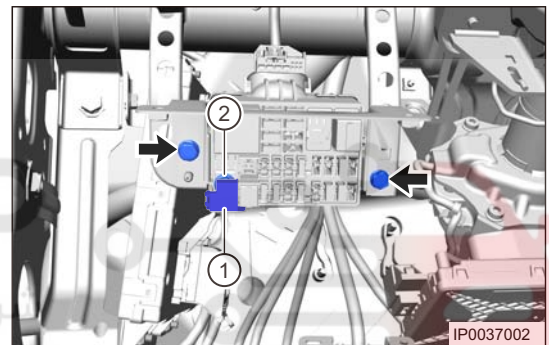
Removal

Warning:

- Be sure to wear safety equipment to prevent accidents, when removing instrument panel crossmember assembly.
 - DO NOT scratch interior and body paint, when removing instrument panel crossmember assembly.
1. Turn off all electrical equipment and the ignition switch.
 2. Disconnect the negative battery cable.
 3. Remove the instrument panel assembly (See page 58-13).
 4. Remove the front windshield lower support assembly (See page 61-18).
 5. Remove the electronic steering column assembly.
 6. Remove the front right seat assembly.
 7. Remove the instrument panel fuse box.
 - (a) Pry off the power supply protector cover (1) from instrument panel relay and fuse box and remove power supply cable fixing nut (2).
 - (b) Remove 2 fixing bolts (arrow) from instrument panel and relay box.

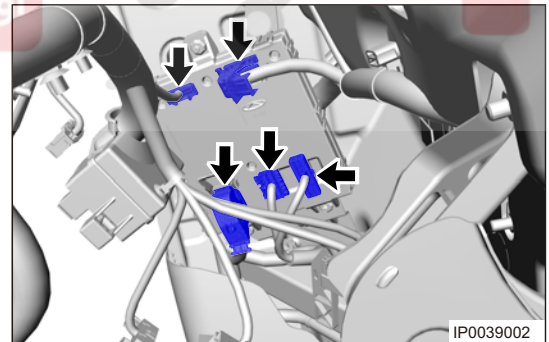
Tightening torque

$9 \pm 1 \text{ N}\cdot\text{m}$



8. Remove the Body Control Module (BCM).

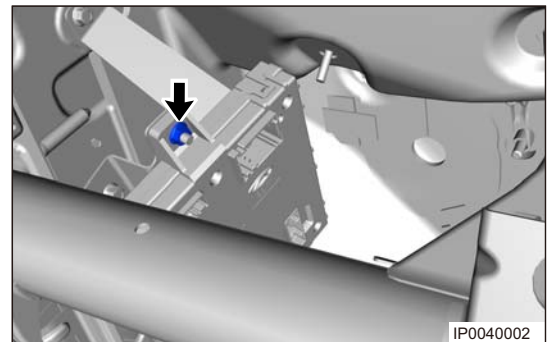
- (a) Disconnect 5 connectors (arrow) from Body Control Module (BCM).



- (b) Remove 1 fixing nut (arrow) from Body Control Module (BCM).

Tightening torque

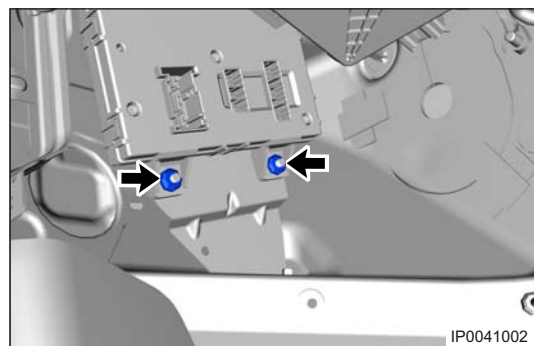
$6 \pm 1 \text{ N}\cdot\text{m}$



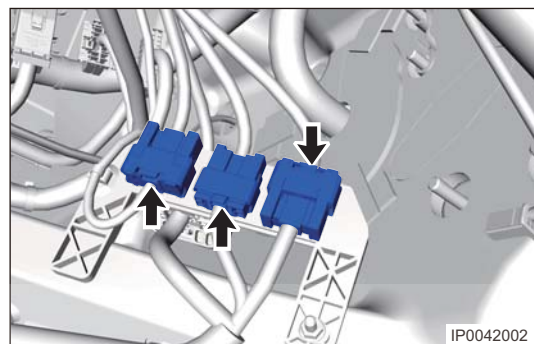
- (c) Remove 2 fixing nuts (arrow) from lower part of Body Control Module (BCM).

Tightening torque

$6 \pm 1 \text{ N}\cdot\text{m}$

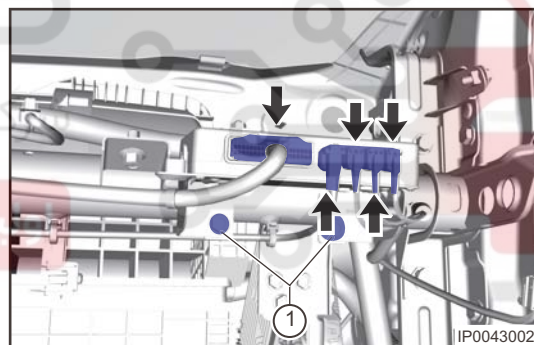


9. Disconnect 3 connectors (arrow) between instrument panel wire harness and interior wire harness.



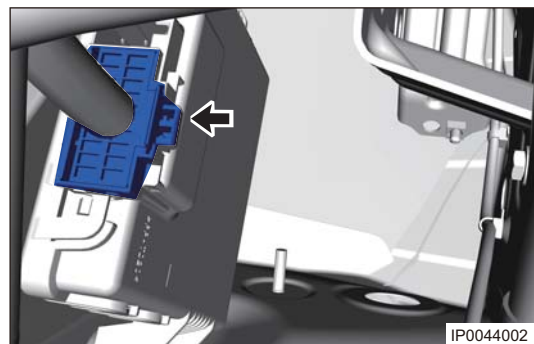
10. Remove the wireless communication module (TBOX).

- (a) Remove 2 fixing nuts (1) from wireless communication module, disconnect wireless communication module connector (arrow), remove wireless communication module.

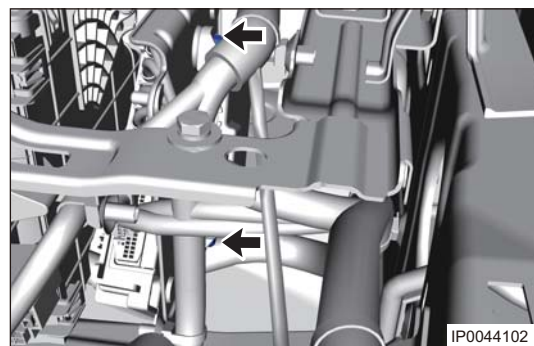


11. Remove central network module.

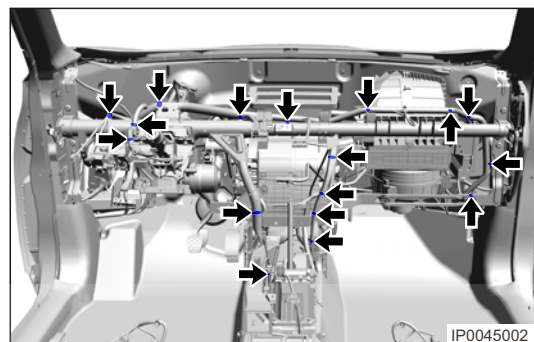
- (a) Disconnect the network module connector (arrow).



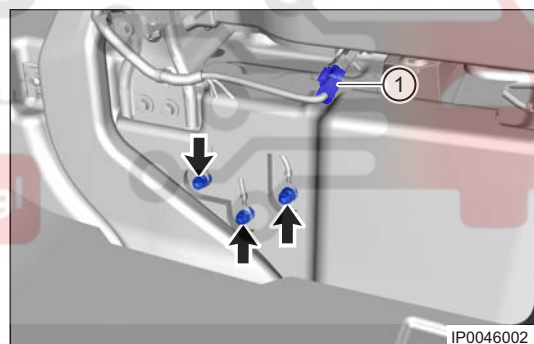
(b) Remove 2 fixing nuts (arrow) from network module.



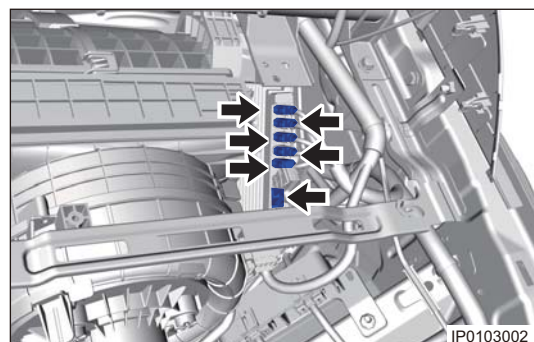
12. Disconnect all wire harness fixing clips (arrow) from instrument panel crossmember.



13. Fold back the front passenger carpet to remove instrument panel wire harness body ground nuts (arrow) and disconnect low frequency antenna connector (1).



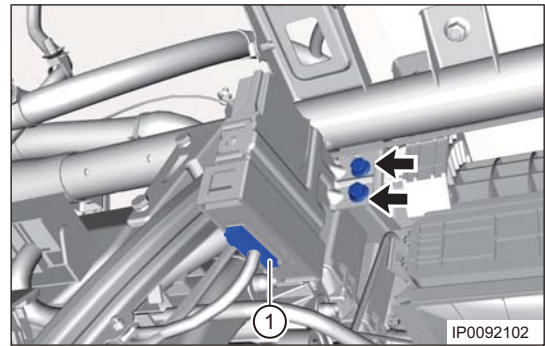
14. Disconnect 6 connectors (arrow) from panorama parking module.



15. Remove the PEPS module.

- (a) Disconnect PEPS module connector (1), remove 2 fixings bolts (arrow) from PEPS.

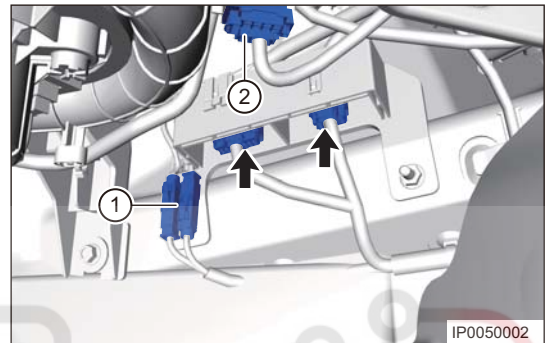
Tightening torque
 $7 \pm 1 \text{ N}\cdot\text{m}$



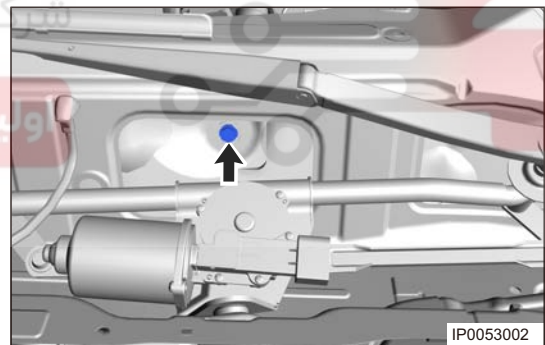
- (b) Remove the PEPS control module.

58

16. Disconnect radio antenna connector (1), A/C wire harness connector (2), 2 connectors (arrow) between instrument panel wire harness and interior wire harness.

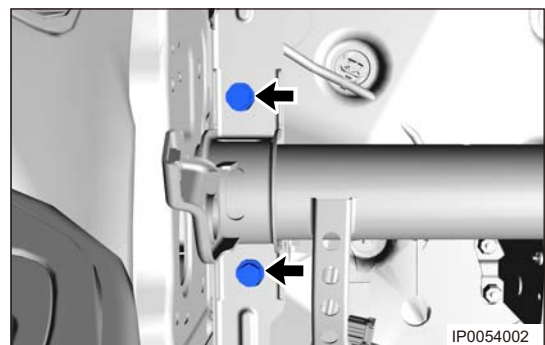


17. Remove fixing bolt (arrow) under front windshield lower trim board outside the instrument panel crossmember.

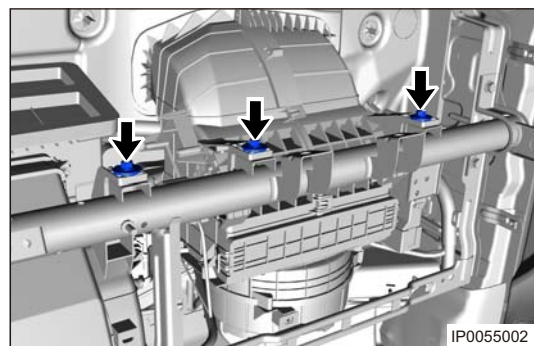


18. Remove 2 fixing bolts (arrow) from instrument panel crossmember (take left side as an example).

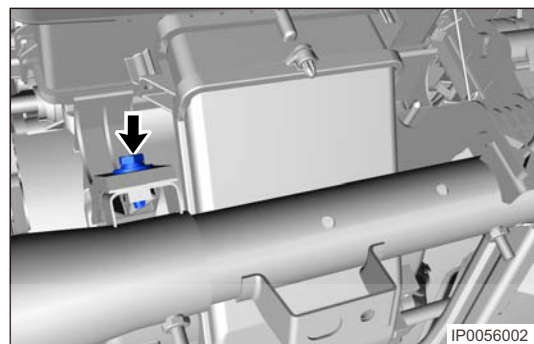
Tightening torque
 $25 \pm 3.5 \text{ N}\cdot\text{m}$



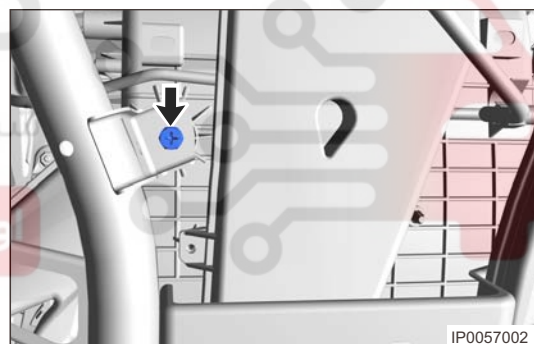
19. Remove 3 fixing nuts (arrow) between HVAC assembly and instrument panel crossmember.

Tightening torque $5 \pm 1 \text{ N}\cdot\text{m}$ 

20. Remove fixing bolt (arrow) between HVAC assembly and instrument panel crossmember.

Tightening torque $5 \pm 1 \text{ N}\cdot\text{m}$ 

21. Remove fixing bolt (arrow) between HVAC assembly and instrument panel crossmember.

Tightening torque $2.5 \pm 0.5 \text{ N}\cdot\text{m}$ 

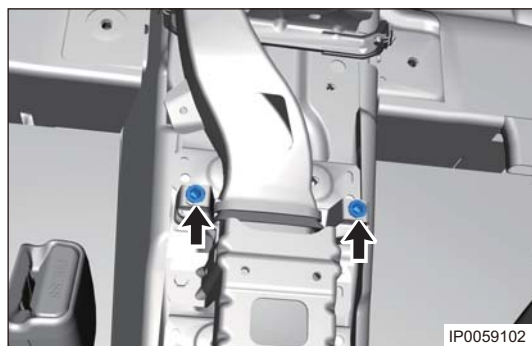
22. Remove fixing screw (arrow) from front part of rear face air duct.

Tightening torque $1.5 \pm 0.5 \text{ N}\cdot\text{m}$ 

23. Remove 2 fixing screws (arrow) from front part of rear face air duct.

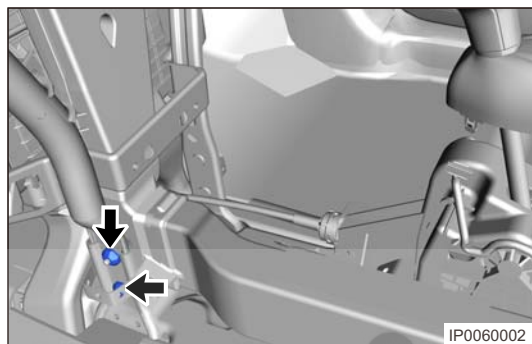
Tightening torque

$1.5 \pm 0.5 \text{ N}\cdot\text{m}$



58

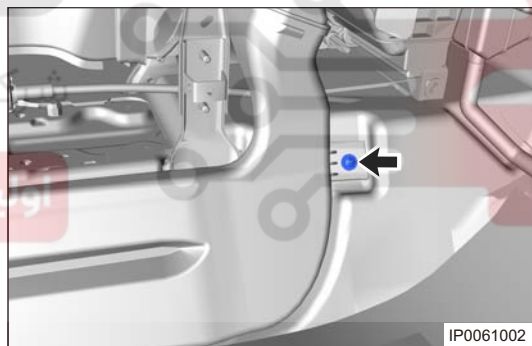
24. Remove 2 fixing nuts (arrow) from lower part of instrument panel crossmember (take left side as an example).



25. Fold back the front passenger carpet to remove fixing screw (arrow) from right foot duct.

Tightening torque

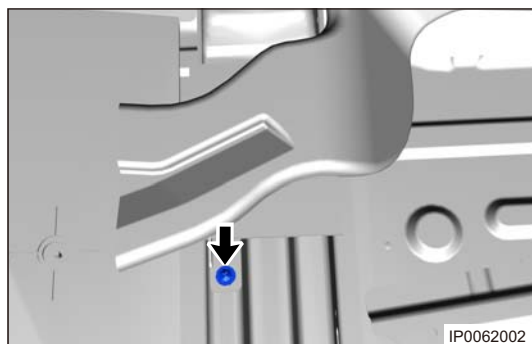
$5 \pm 1 \text{ N}\cdot\text{m}$



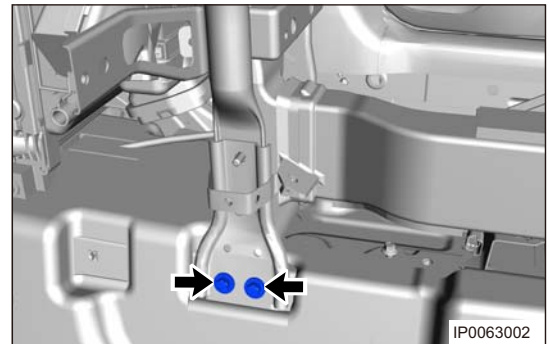
26. Fold back the front passenger carpet to remove fixing screw (arrow) from right foot duct and take away the right foot duct.

Tightening torque

$5 \pm 1 \text{ N}\cdot\text{m}$



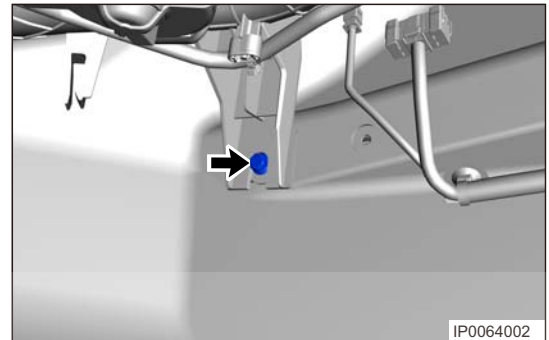
27. Remove 2 fixing bolts (arrow) from instrument panel crossmember fixing bracket (take left side as an example).



28. Remove fixing bolt (arrow) between HVAC assembly and body.

Tightening torque

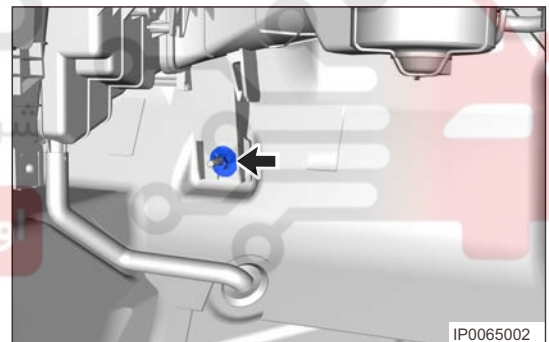
$5 \pm 1 \text{ N}\cdot\text{m}$



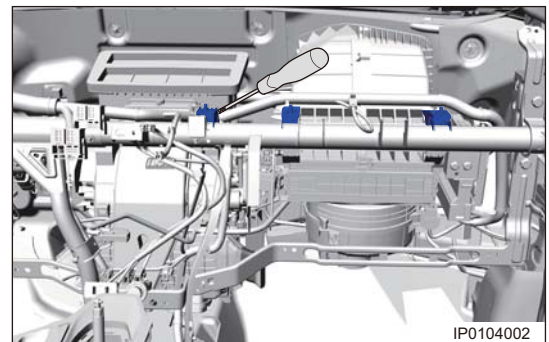
29. Remove fixing nut (arrow) between HVAC assembly and body.

Tightening torque

$5 \pm 1 \text{ N}\cdot\text{m}$



30. Detach HVAC assembly from instrument panel crossmember assembly with a flat tip screwdriver.



31. Carefully remove the instrument panel crossmember assembly.

Installation

Caution

- Be sure to tighten fixing bolts to specified torque, when installing instrument panel crossmember assembly.
 - Check airbag for proper installation, after installing instrument panel crossmember assembly.
 - Check each electrical equipment for proper operation, after installing instrument panel crossmember assembly.
1. Installation is in the reverse order of removal.

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

