

INSTRUMENT PANEL

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دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

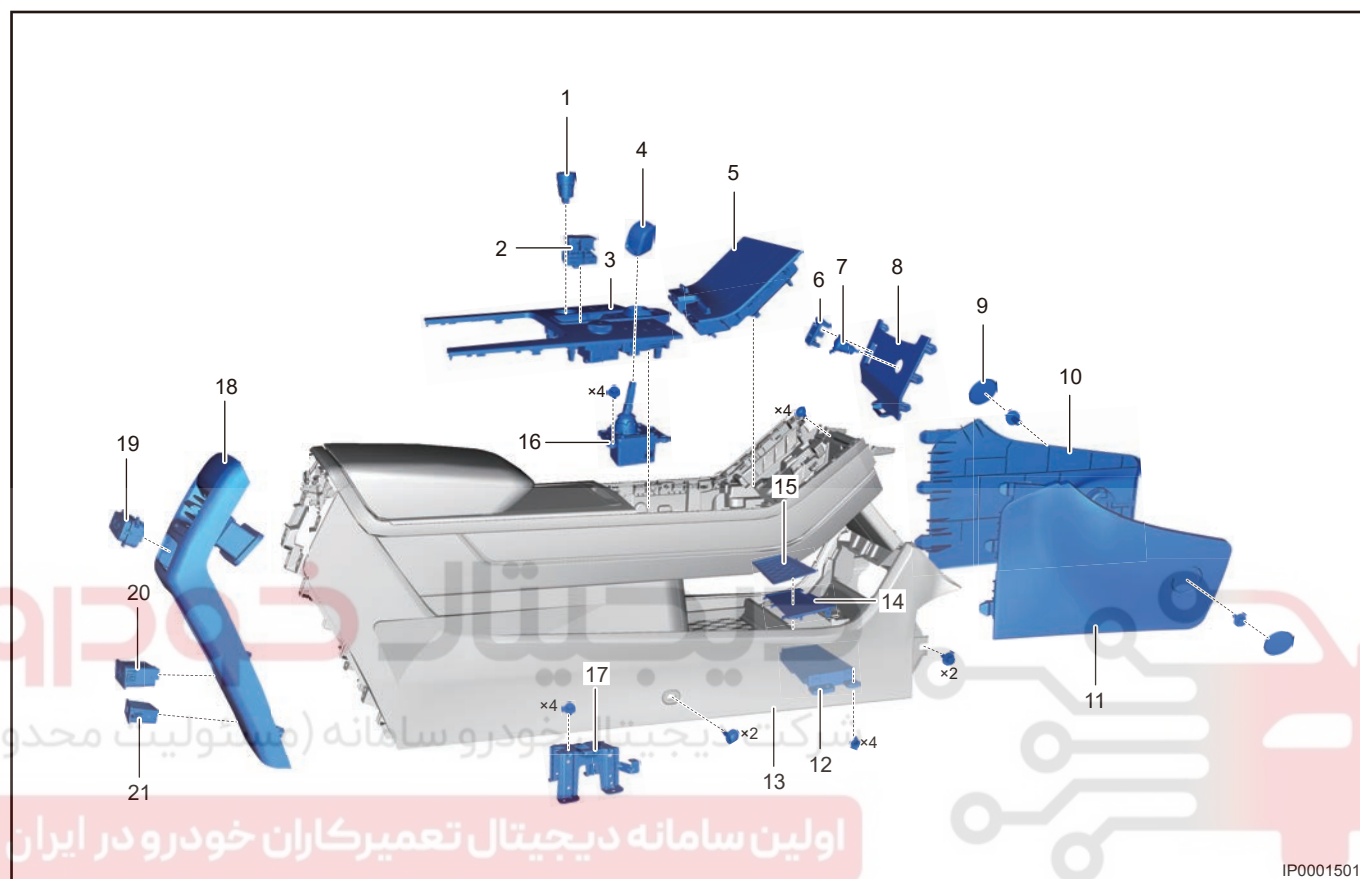
اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



General Information

Description

Auxiliary Fascia Console Assembly



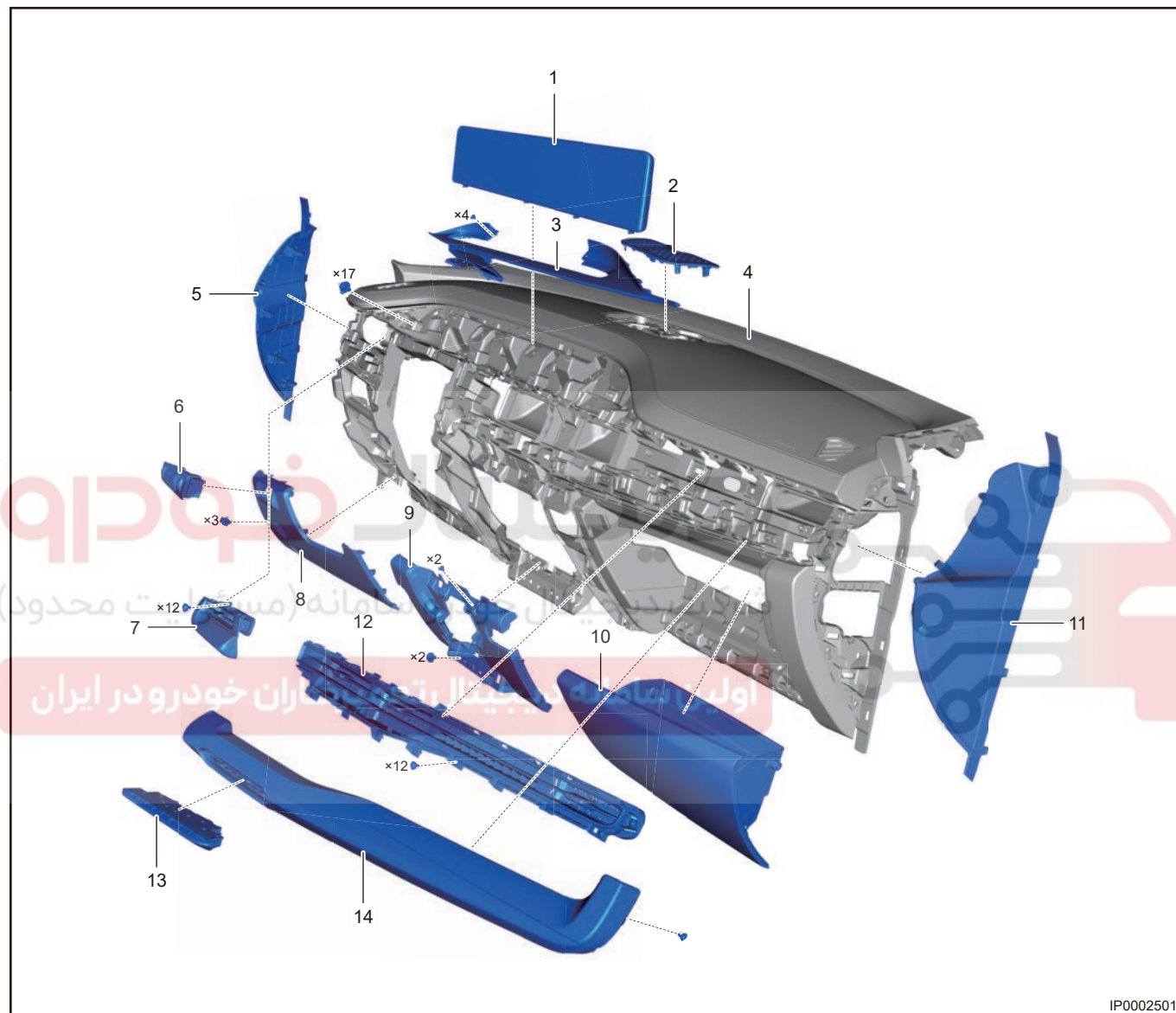
IP0001501

1	ENGINE START STOP Switch	12	Mobile Phone Wireless Charging Module
2	Electrical Parking Brake Switch	13	Auxiliary Fascia Console Body Assembly
3	Auxiliary Fascia Console Control Panel Assembly	14	Auxiliary Fascia Console Front End Storage Box
4	Shift Lever Assembly	15	Auxiliary Fascia Console Front End Storage Box Rubber Gasket
5	Auto A/C Control Panel Assembly	16	Electronic Shift Control Mechanism Assembly
6	Multi-function Interface	17	Armrest Box Bracket
7	Backup Power Supply	18	Auxiliary Fascia Console Rear Panel Assembly
8	USB Panel Assembly	19	Second Row A/C Control Panel
9	Front Left Protector Block Cover	20	Second Row Seat Heating Switch Set

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10	Auxiliary Fascia Console Front Left Protector Assembly	21	USB Charging Module
11	Auxiliary Fascia Console Front Right Protector Assembly		

Instrument Panel Assembly

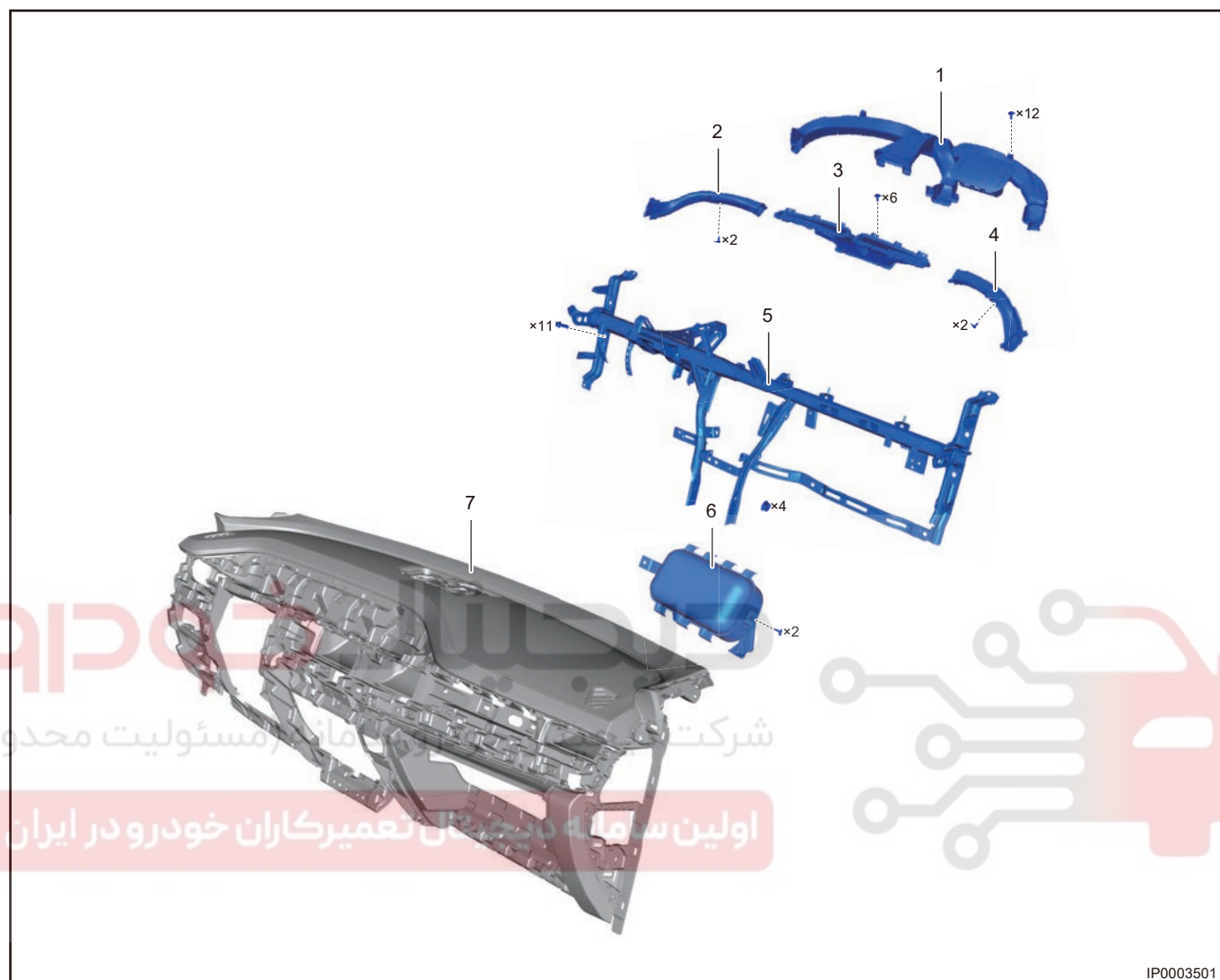


IP0002501

1	Dual LCD	8	Instrument Panel Lower Left Protector Assembly
2	Medium Speaker Cover	9	Center Lower Protector Assembly
3	DVD Trim Panel Assembly	10	Glove Box Assembly
4	Instrument Panel Upper Body Assembly	11	Instrument Panel Right End Panel Assembly
5	Instrument Panel Left End Panel Assembly	12	A/C Right Outlet Assembly

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6	Adjustment Switch Assembly	13	Central Console Switch Assembly
7	A/C Left Outlet Assembly	14	Central Console Panel Assembly



IP0003501

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

Specifications

Torque Specifications

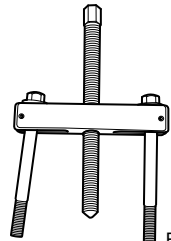
Description	Torque (N·m)
Front Protector Fixing Bolt	5 ± 1
Electronic Shift Control Mechanism Assembly Fixing Bolt	5 ± 1

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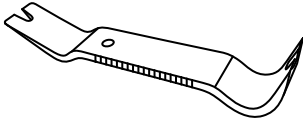
Description	Torque (N·m)
Auxiliary Fascia Console Assembly Fixing Bolt	5 ± 1
Auxiliary Fascia Console Assembly Fixing Screw	1.5 ± 0.5
Instrument Panel Lower Left Protector Assembly Fixing Screw	1.5 ± 0.5
DVD Trim Panel Assembly Fixing Screw	1.5 ± 0.5
A/C Outlet Assembly Fixing Screw	1.5 ± 0.5
Instrument Panel Center Lower Protector Assembly Fixing Screw	1.5 ± 0.5
Instrument Panel Fixing Bolt	5 ± 1
Central Air Duct Fixing Screw	1.5 ± 0.5
Center Defroster Duct Fixing Screw	1.5 ± 0.5
Front Passenger Airbag Assembly Fixing Screw	2.5 ± 0.5
Body Control Module (BCM) Fixing Nut	7 ± 1
Wireless Communication Module Fixing Nut	5 N·m
PEPS Module Fixing Bolt	7 ± 1
Instrument Panel Crossmember Fixing Bolt	25 ± 3.5

Tools

Special Tools

Tool Name	Tool Drawing
Steering Wheel Remover	 RCH0000014

General Tools

Tool Name	Tool Drawing
Interior Crow Plate	 RCH002506

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



On-Vehicle Service

Auxiliary Fascia Console Assembly

Removal

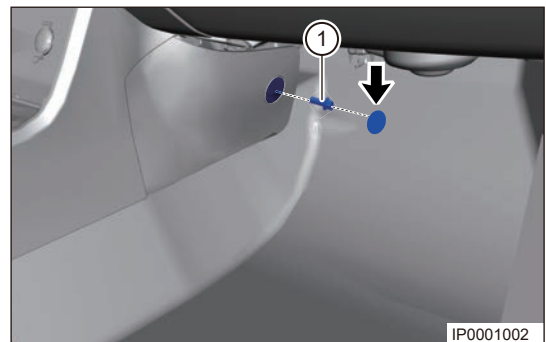
Caution

- 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.

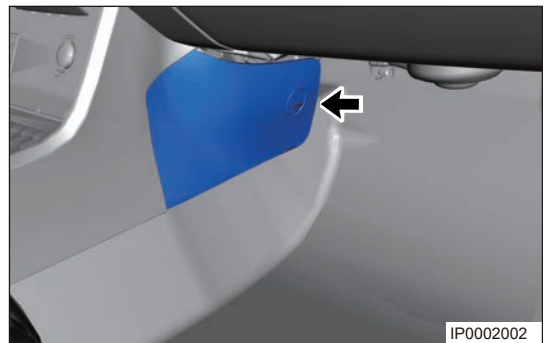
1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the auxiliary fascia console front right protector (removal produces for left and right are same. Take the right side as an example).

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

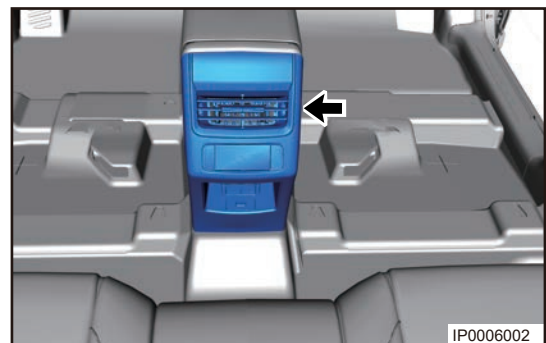
Tightening torque: $5 \pm 1 \text{ N}\cdot\text{m}$



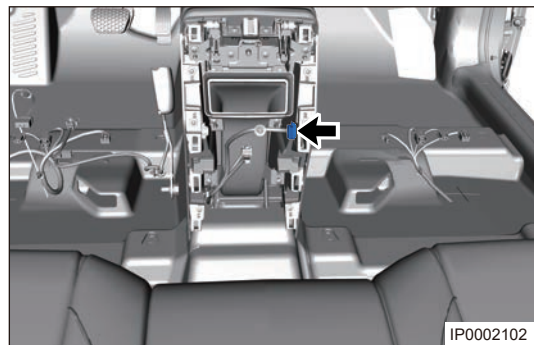
- b. Remove the auxiliary fascia console front right protector (arrow).



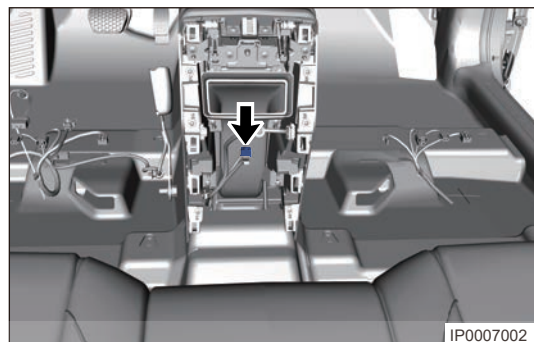
4. Remove the auxiliary fascia console rear panel assembly.
 - a. Pry off auxiliary fascia console rear panel assembly (- arrow) carefully with an interior crow plate.



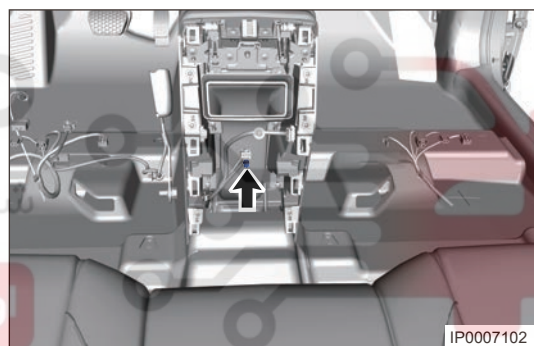
- b. Disconnect the second row A/C control panel connector (arrow).



- c. Disconnect the second row seat heating switch set connector (arrow).

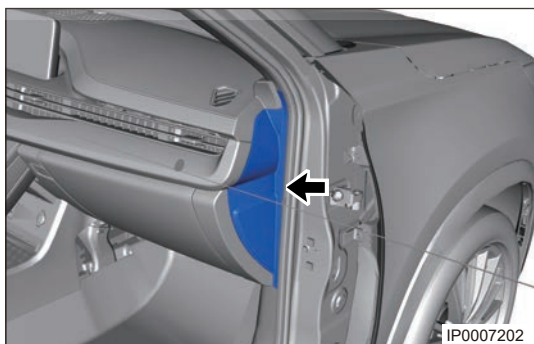


- d. Disconnect the USB charging module connector (arrow).



5. Remove the central console panel assembly.

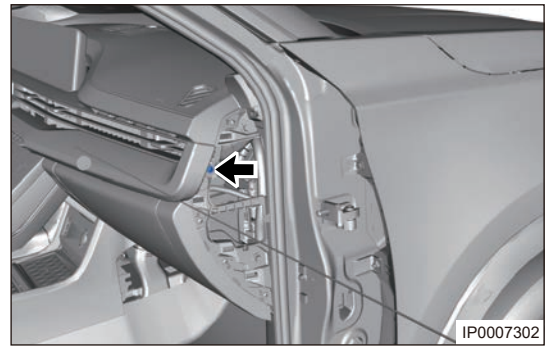
- a. Pry off instrument panel right end panel assembly (- arrow) carefully with an interior crow plate.



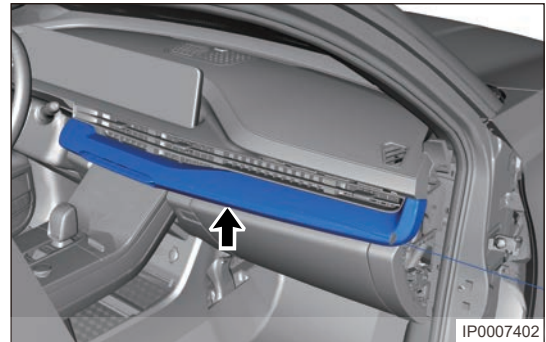
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- b. Remove 1 fixing screw (arrow) from rear side of instrument panel right end panel assembly.

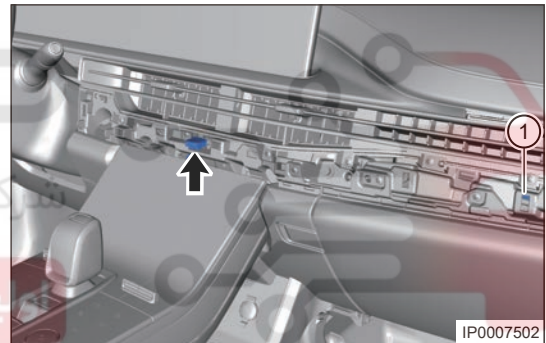
Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



- c. Pry off central console panel assembly (arrow) carefully with an interior crow plate.



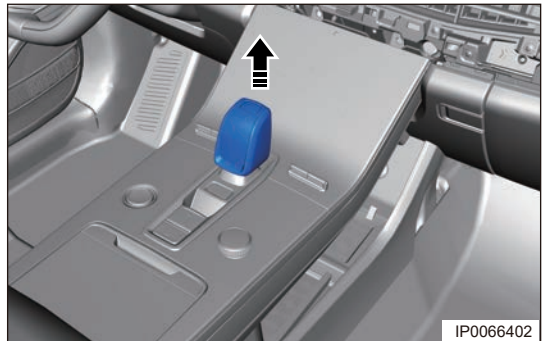
- d. Disconnect the central console switch assembly connector (arrow) and ambient light connector (1).



- e. Remove the central console panel assembly.

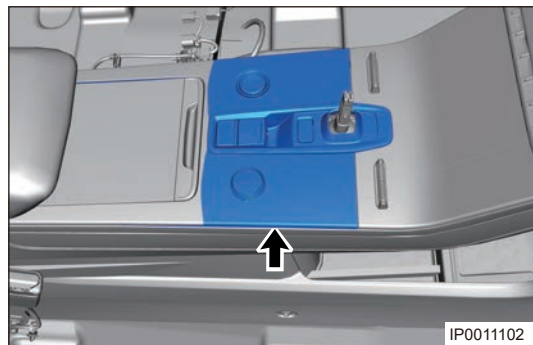
6. Remove the shift lever assembly.

- a. Lift it up in the direction of the arrow, and remove shift lever assembly.

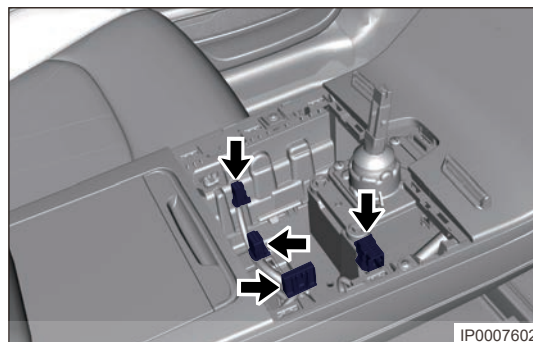


7. Remove the auxiliary fascia console control panel assembly.

- a. Pry off auxiliary fascia console control panel assembly (arrow) carefully with an interior crow plate.

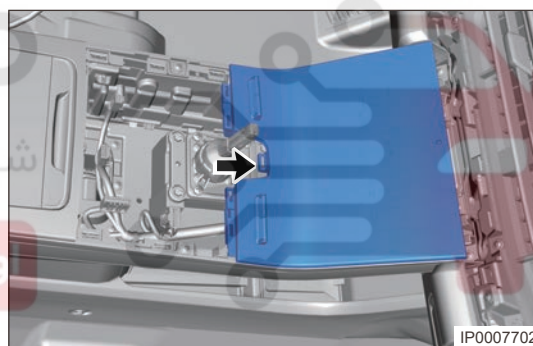


- b. Disconnect each connector (arrow), and remove the auxiliary fascia console control panel assembly.

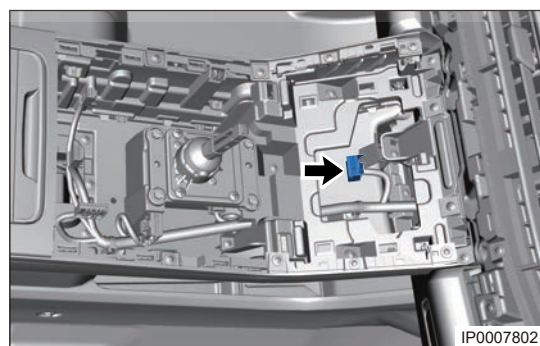


8. Removal the auto A/C control panel assembly.

- a. Pry off automatically/C control panel assembly (arrow) carefully with an interior crow plate.



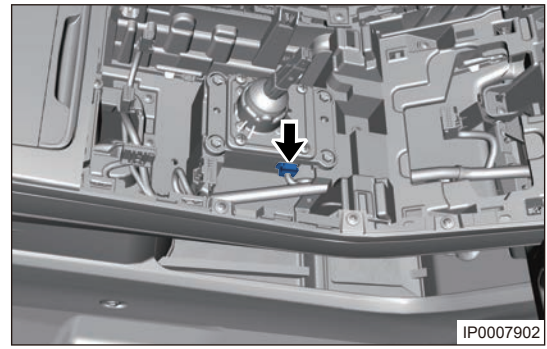
- b. Disconnect the connector (arrow), and remove the auto A/C control panel assembly.



9. Remove the electronic shift control mechanism assembly.

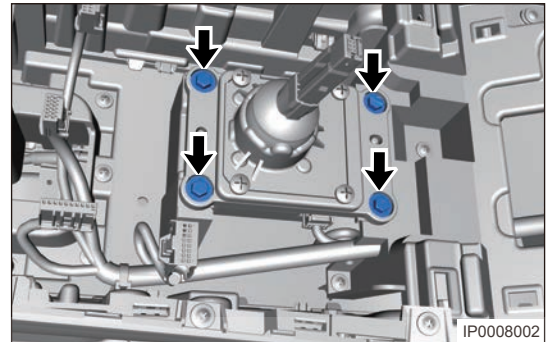
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- a. Disconnect the electronic shift control mechanism assembly wire harness connector (arrow).



- b. Remove 4 fixing bolts (arrow) and electronic shift control mechanism assembly.

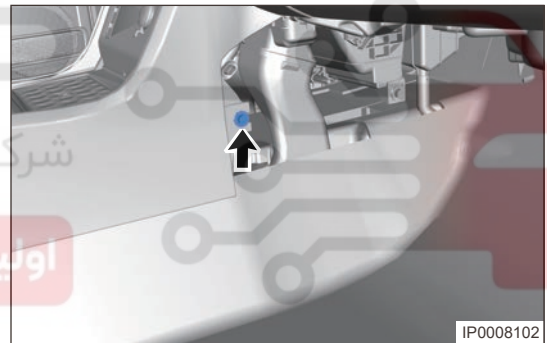
Tightening torque: $5 \pm 1 \text{ N}\cdot\text{m}$



10. Remove the auxiliary fascia console assembly.

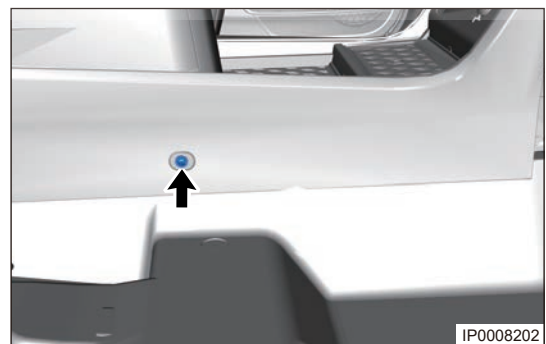
- a. Remove 1 fixing bolt (arrow) from auxiliary fascia console (Removal produces for left and right are same. Take the right side as an example).

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



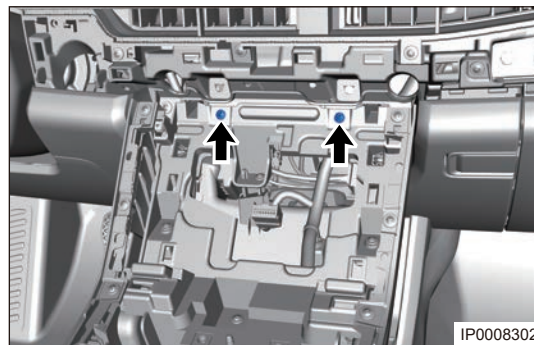
- b. Remove 1 fixing screw (arrow) from center of auxiliary fascia console (Removal produces for left and right are same. Take the right side as an example).

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

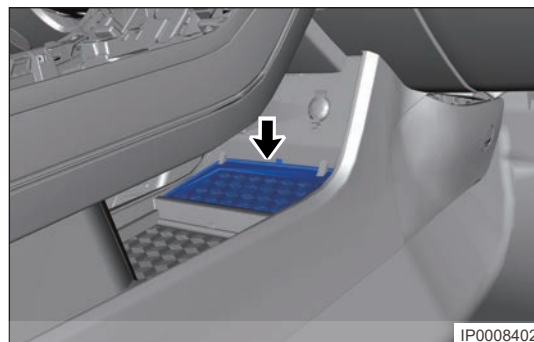


- c. Remove 2 fixing screws (arrow) from auxiliary fascia console assembly.

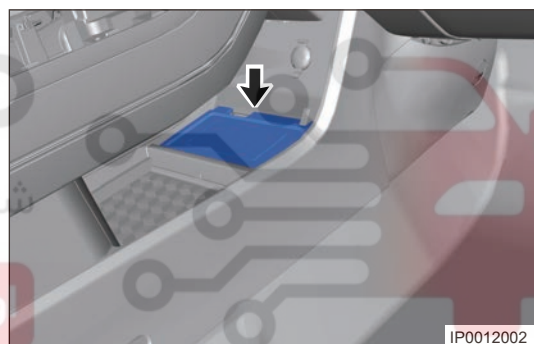
Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



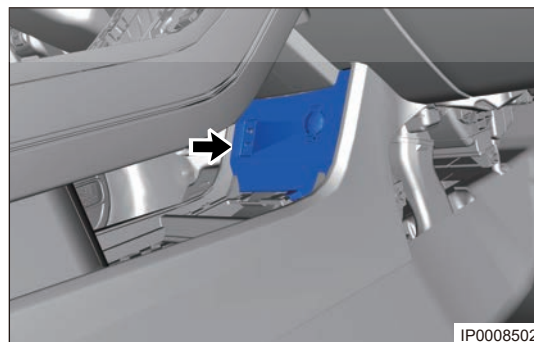
- d. Remove the auxiliary fascia console front end storage box rubber gasket (arrow).



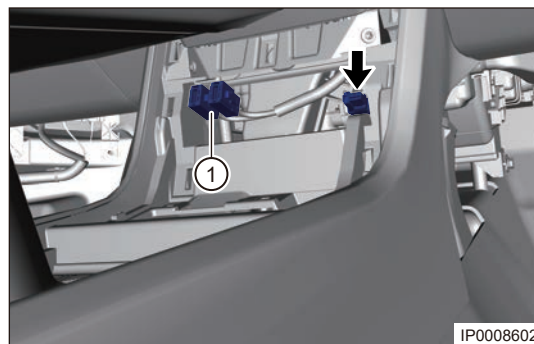
- e. Pry off the front storage box cover plate assembly (arrow) with an interior crow plate, and disconnect mobile phone wireless charging module connector.



- f. Remove the USB panel assembly (arrow).

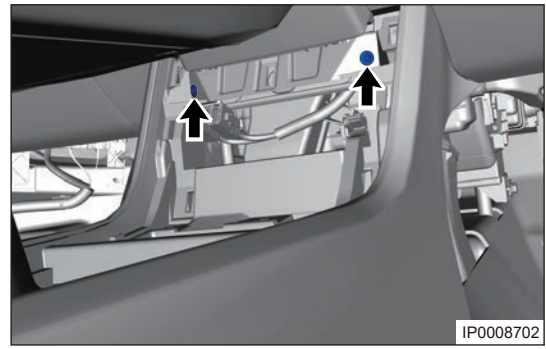


- g. Disconnect the backup power supply connector (arrow) and 2 USB connectors (1).



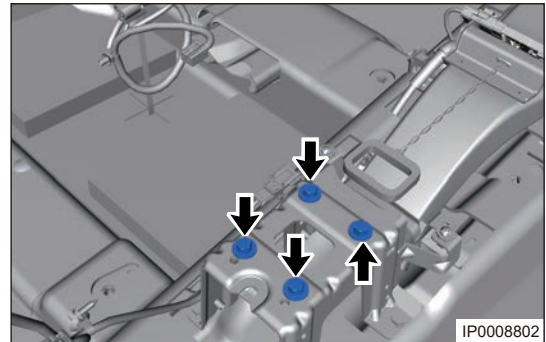
- h. Remove 2 fixing screws (arrow) from lower part of auxiliary fascia console assembly.

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



- i. Open the armrest box to remove armrest box storage box gasket. Remove 4 fixing bolts (arrow) from auxiliary fascia console.

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



- j. Disconnect the anti-theft coil connector, and remove the auxiliary fascia console assembly.

Installation

1. Assembly is in the reverse order of disassembly.

Instrument Panel Assembly

Removal

Hint:

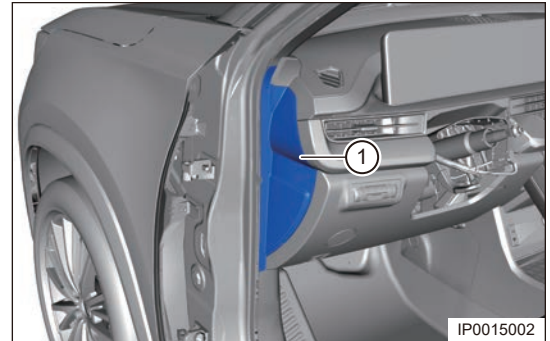
- Be sure to wear safety equipment to prevent accidents, when removing auxiliary fascia console assembly.
- All operations related with safety airbag components when removing the instrument panel should be performed after battery power supply is disconnected. Never operate it with power on. As within 60 seconds after turning off the vehicle or removing the fuse, there is still enough power remained inside the airbag control module to deploy airbag. Accidental airbag deployment may cause personal injury or damage to the vehicle.
- 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.

Caution

- 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.

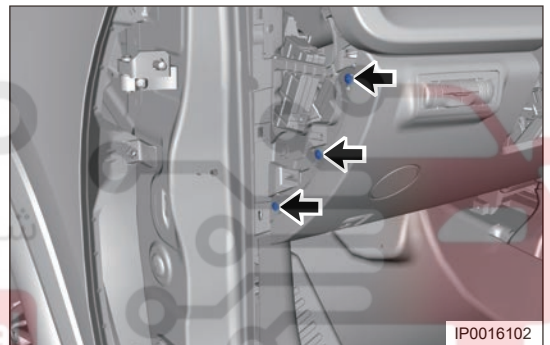
1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the auxiliary fascia console assembly.
4. Remove the driver airbag assembly.
5. Remove the steering wheel assembly.
6. Remove the spiral cable.
7. Remove the wiper switch assembly.

8. Remove the combination light switch assembly.
9. Remove the dual LCD.
10. Remove the A-pillar upper protector assembly.
11. Remove the soundproof board assembly.
12. Remove the A-pillar lower protector assembly.
13. Remove the OBD connector.
14. Remove the instrument panel left end cover assembly.
 - a. Pry off clip from instrument panel left end cover assembly carefully with an interior crow plate, and remove instrument panel left end cover assembly (1).

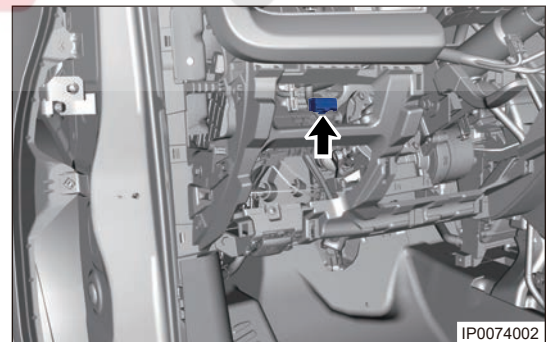


15. Remove the instrument panel lower left protector assembly.
 - a. Remove 3 fixing screws (arrow) from instrument panel lower left protector assembly.

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

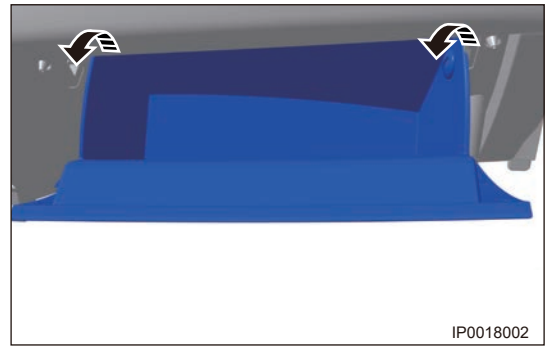


16. Remove the glove box assembly.
 - a. Press glove box switch and open glove box assembly in direction of arrow as shown in illustration.

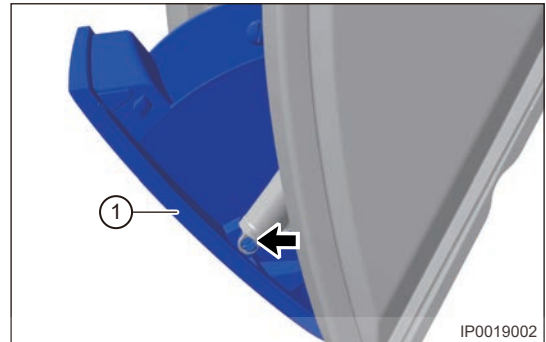


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- b. Rotate the lock knobs in the direction of arrow as shown in the illustration, and remove the lock knobs.



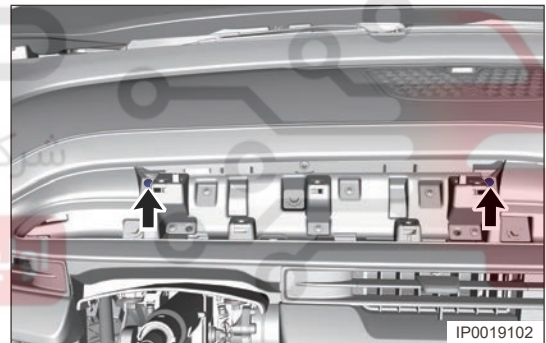
- c. Detach the coupling clips between glove box and damper, detach claws from lower side of glove box assembly, and remove glove box assembly (1).



17. Remove the DVD trim panel assembly.

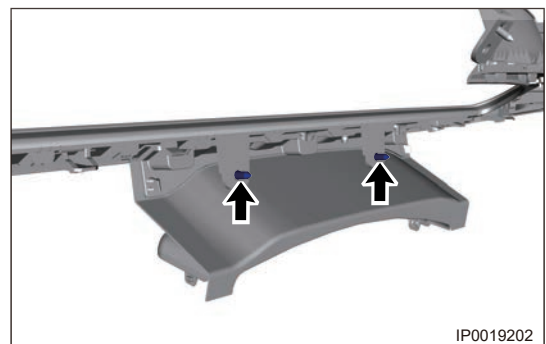
- a. Remove 2 fixing screws (arrow) from DVD trim panel assembly.

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

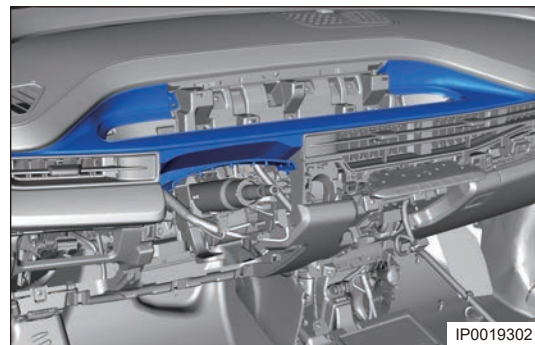


- b. Remove 2 fixing screws (arrow) from DVD trim panel assembly.

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



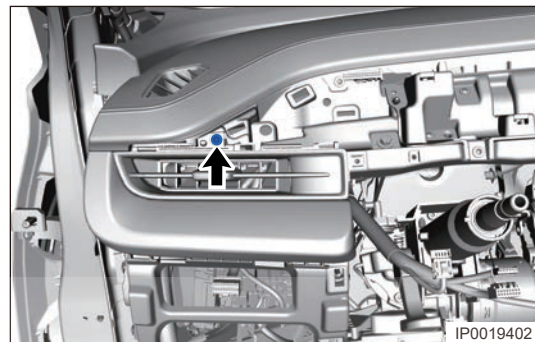
- c. Pry off DVD trim panel assembly carefully with an interior crow plate.



18. Remove the A/C left outlet assembly.

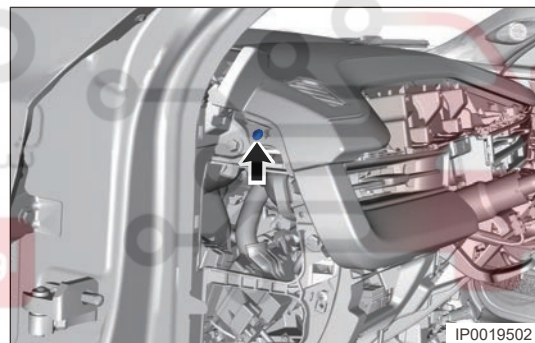
- a. Remove 1 fixing screw (arrow) from A/C left outlet assembly.

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

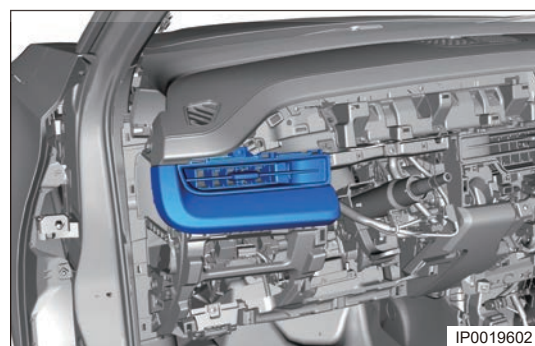


- b. Remove 1 fixing screw (arrow) from A/C left outlet assembly.

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



- c. Pry off A/C left outlet assembly carefully with an interior crow plate.

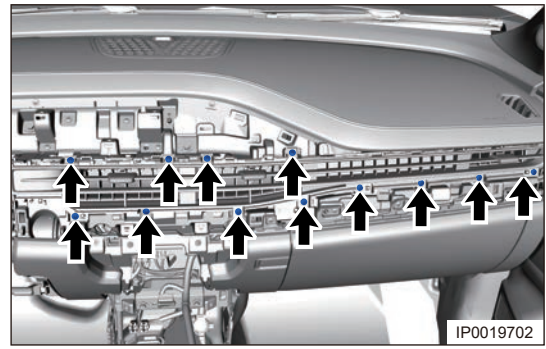


19. Remove the A/C right outlet assembly.

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- a. Remove 12 fixing screws (arrow) from A/C right outlet assembly.

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

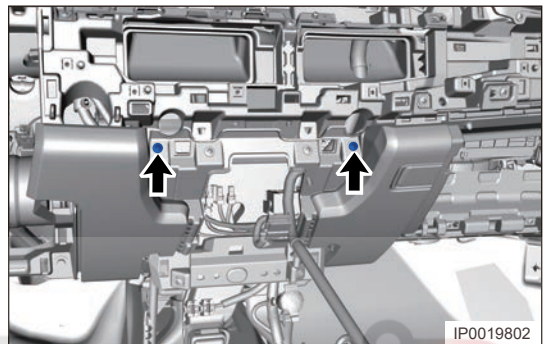


- b. Pry off A/C right outlet assembly carefully with an interior crow plate.

20. Remove the center lower protector assembly.

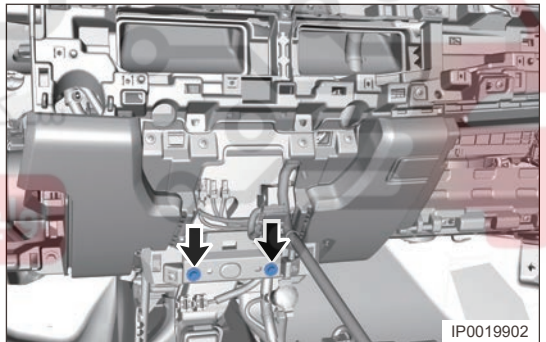
- a. Remove 2 fixing screws (arrow) from center lower protector assembly.

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

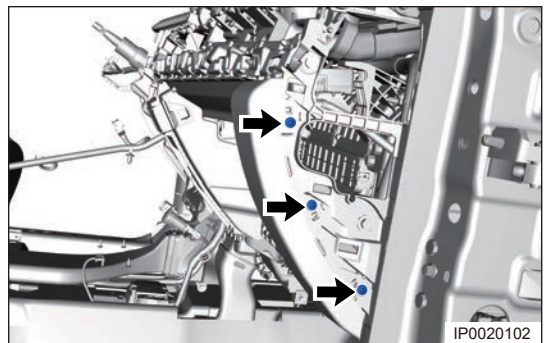


- c. Remove the center lower protector assembly.

21. Remove the lower right protector assembly.

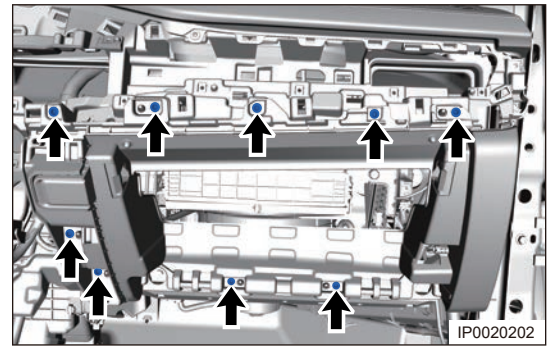
- a. Remove 3 fixing screws (arrow) from lower right protector assembly.

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



- b. Remove 9 fixing screws (arrow) from lower right protector assembly.

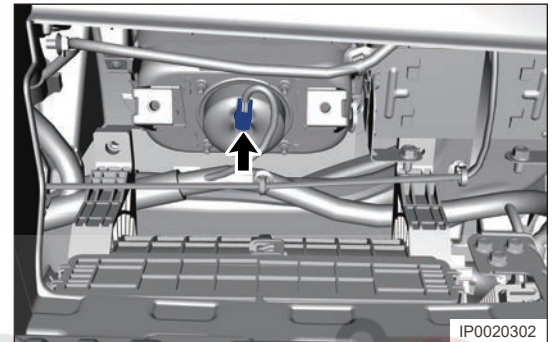
Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



- c. Removal the lower right protector assembly.

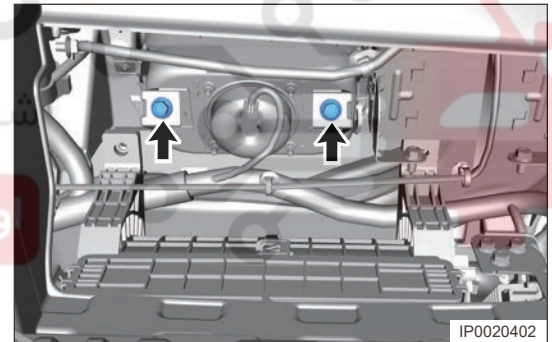
22. Remove the instrument panel assembly.

- a. Disconnect the passenger side airbag connector (arrow).



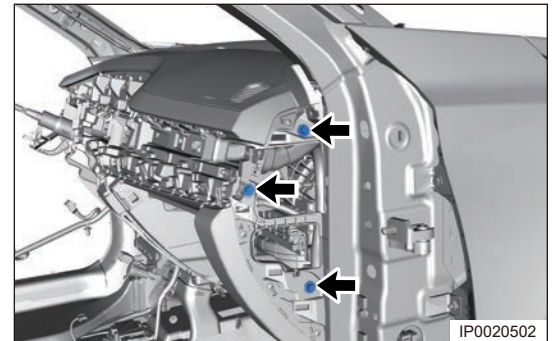
- b. Remove 2 fixing bolts (arrow) between passenger side airbag and crossmember.

Tightening torque: $23 \pm 2 \text{ N}\cdot\text{m}$



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

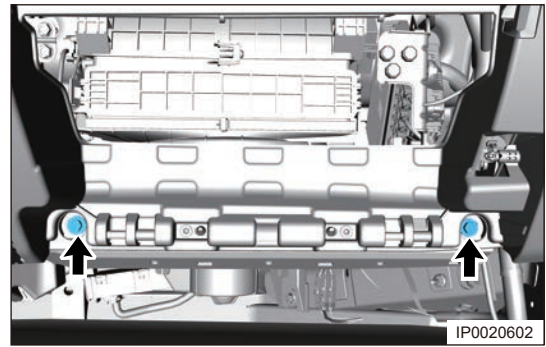
Tightening torque: $5 \pm 1 \text{ N}\cdot\text{m}$



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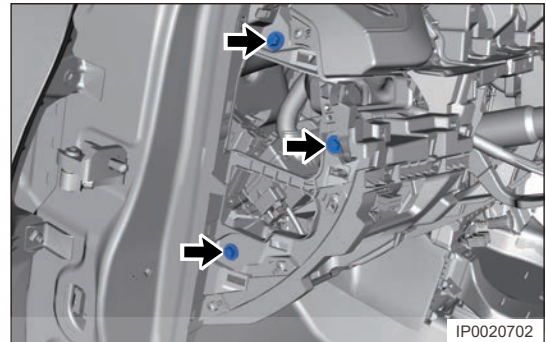
- d. Remove 2 fixing bolts (arrow) between lower right part of instrument panel and crossmember.

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



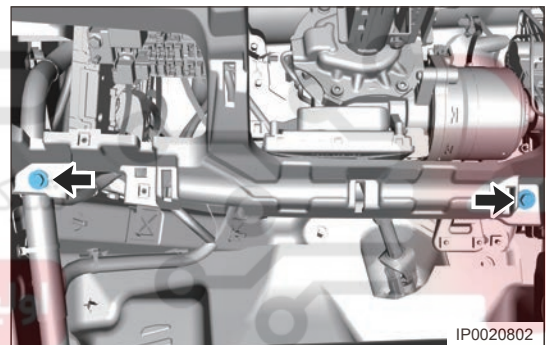
- e. Remove 3 fixing bolts (arrow) from left instrument panel assembly.

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



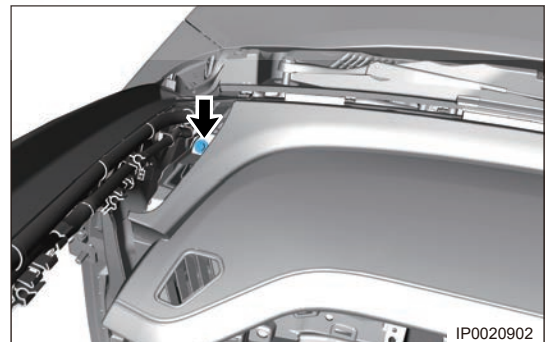
- f. Remove 2 fixing bolts (arrow) between lower left part of instrument panel and crossmember.

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



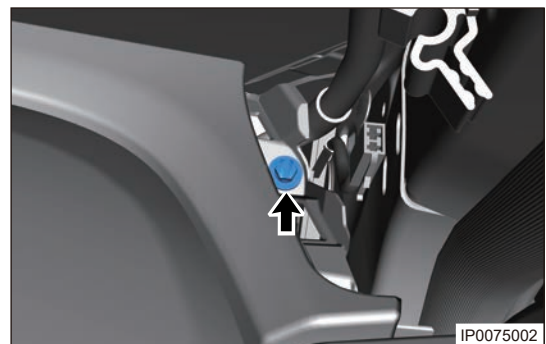
- g. Remove 1 fixing bolt (arrow) from upper left side instrument panel assembly.

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



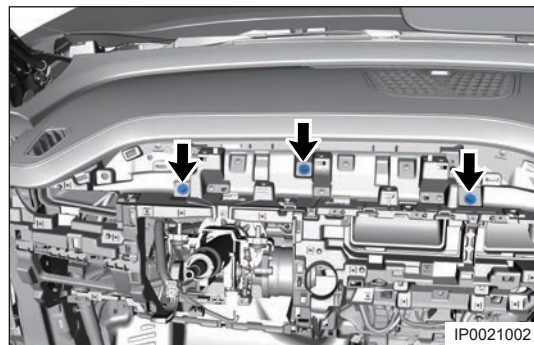
- h. Remove 1 fixing bolt (arrow) from upper right side instrument panel assembly.

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

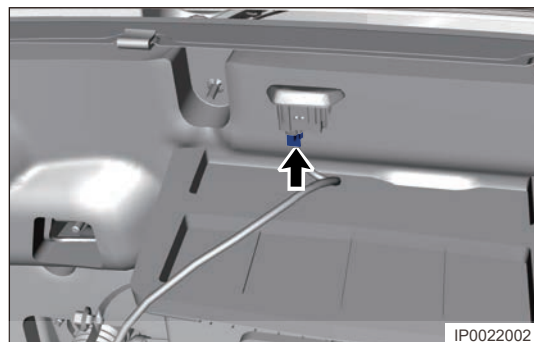


- i. Remove 3 fixing bolts (arrow) between middle side of instrument panel and crossmember.

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



- j. Disconnect the solar sensor connector. (arrow).



- k. Remove the instrument panel assembly.

Installation

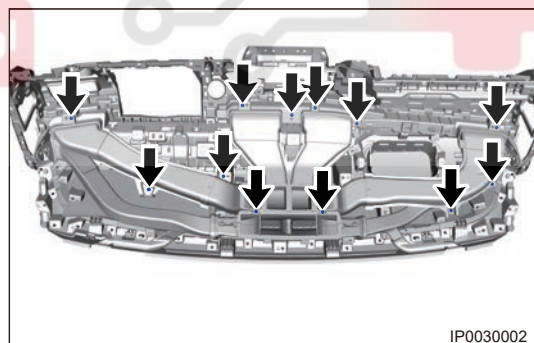
1. Installation is in the reverse order of removal.

Disassembly

1. Remove the central air duct.

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

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

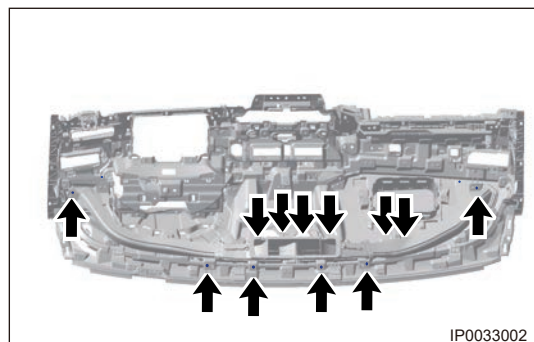


- b. Remove the central air duct.

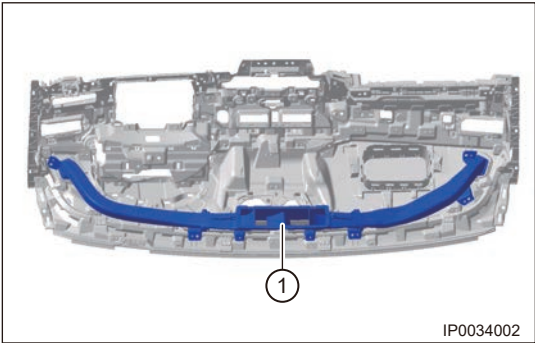
2. Remove the central defroster duct.

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

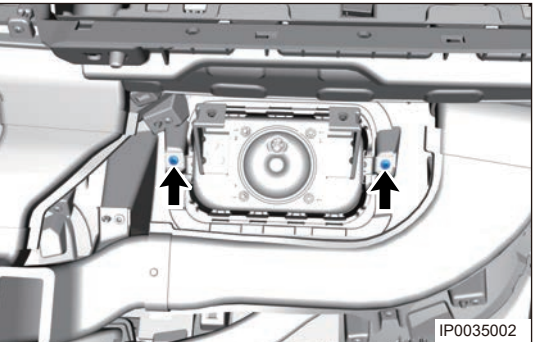
Tightening torque: $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



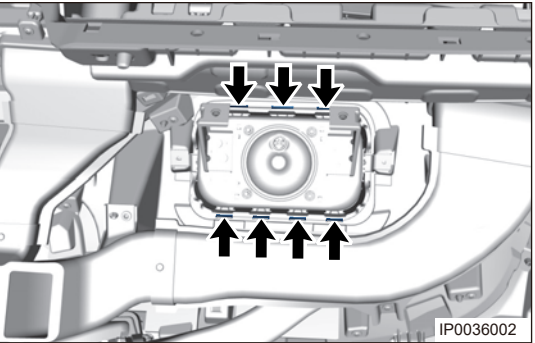
- b. Remove the central defroster duct (1).



3. Remove the front passenger airbag assembly.
- a. Remove 2 fixing screws (arrow) from front passenger airbag assembly.
- Tightening torque: $2.5 \pm 0.5 \text{ N}\cdot\text{m}$



- b. Disengage 7 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

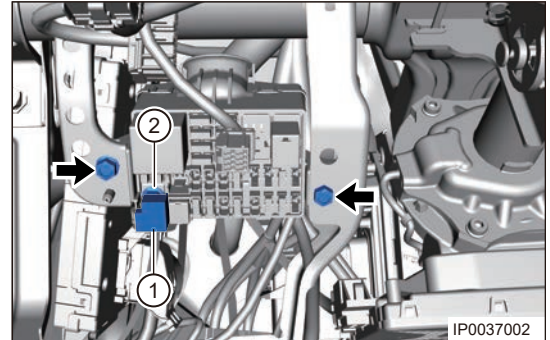
Removal

Caution
<ul style="list-style-type: none">• 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.

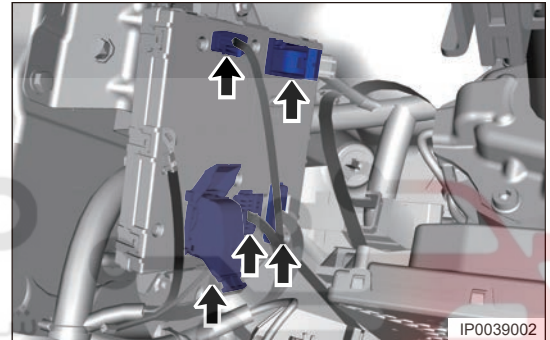
1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.

3. Remove the instrument panel assembly.
4. Remove the front windshield lower trim board assembly.
5. 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. Removal 2 fixing bolts (arrow) between instrument panel and relay box.

Tightening torque: $9 \pm 1 \text{ N}\cdot\text{m}$

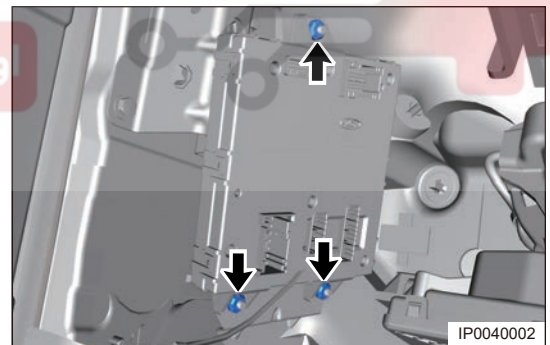


6. Remove the Body Control Module (BCM).
 - a. Disconnect 5 connectors (arrow) from Body Control Module (BCM).

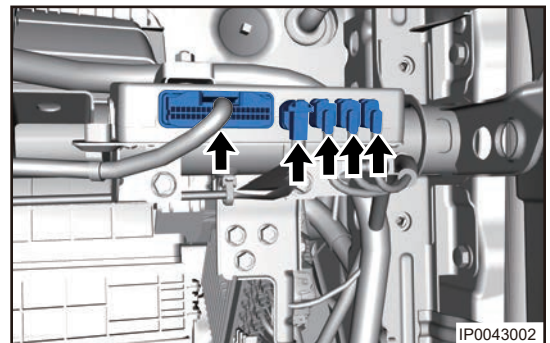


- b. Remove 3 fixing nuts (arrow) from Body Control Module (BCM).

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



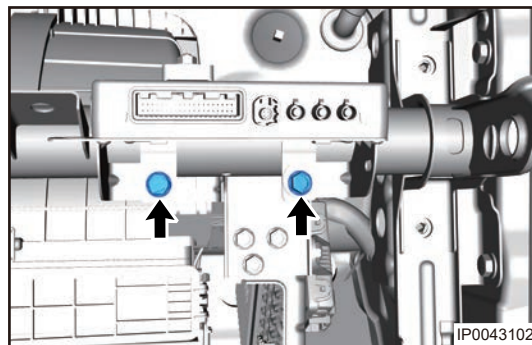
7. Remove the wireless communication module (TBOX).
 - a. Disconnect the wireless communication module connectors (arrow).



35 - INSTRUMENT PANEL

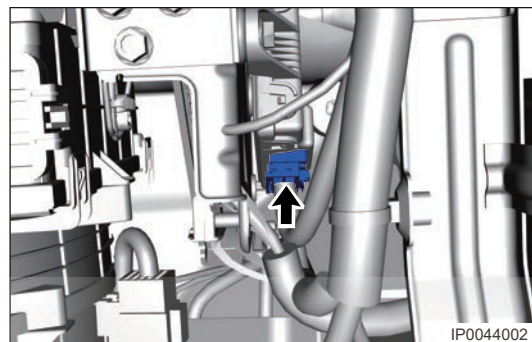
- b. Remove 2 fixing bolts (arrow) from wireless communication module.

Tightening torque: 5 N•m

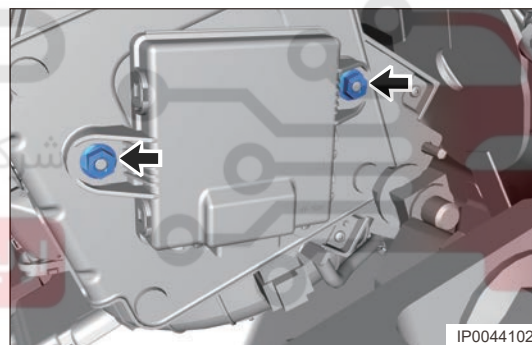


8. Remove the central gateway module.

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



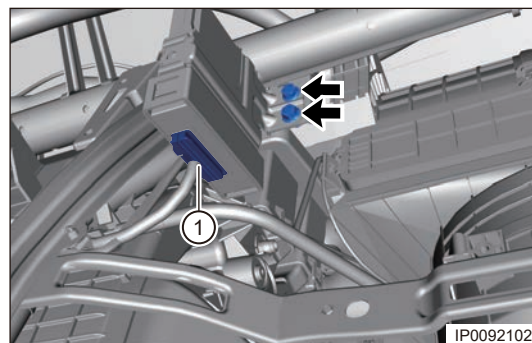
- b. Remove 2 fixing nuts (arrow) from gateway module.



9. Remove the PEPS module.

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

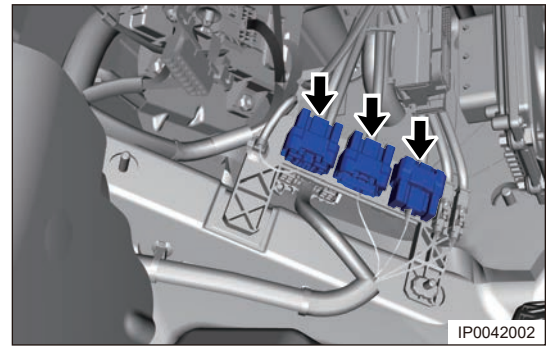
Tightening torque: 7 ± 1 N•m



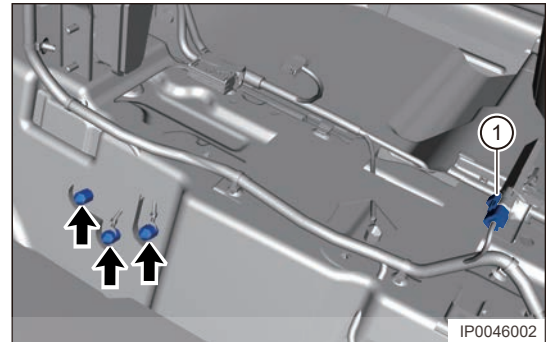
- b. Remove the PEPS control module.

10. Remove the instrument panel crossmember assembly.

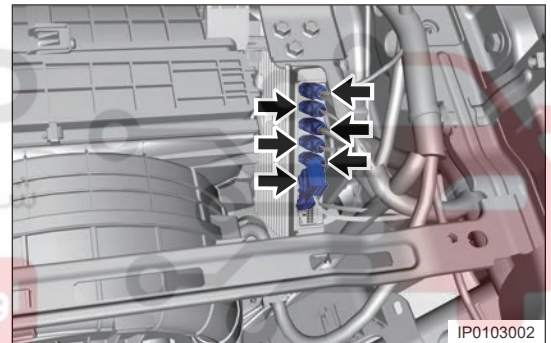
- a. Disconnect 3 connectors (arrow) between instrument panel wire harness and interior wire harness.



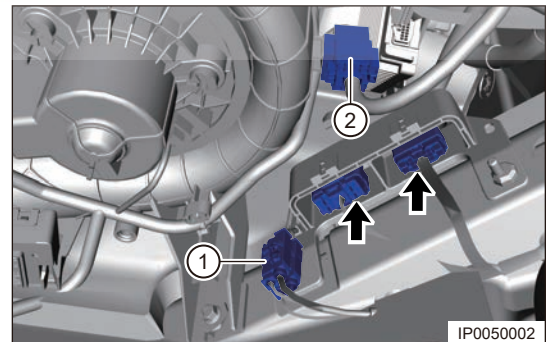
- b. Fold back the front passenger carpet to remove instrument panel wire harness body ground nuts (- arrow) and disconnect low frequency antenna connector (1).



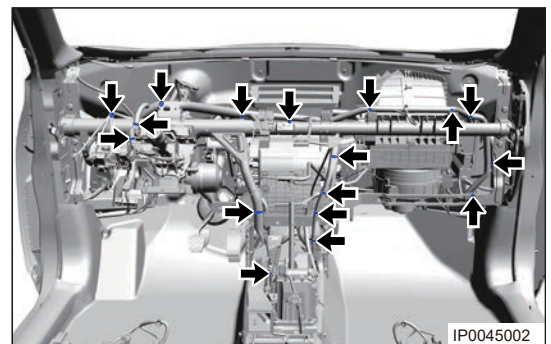
- c. Disconnect 6 connectors (arrow) from panoramic parking view monitor control module.



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

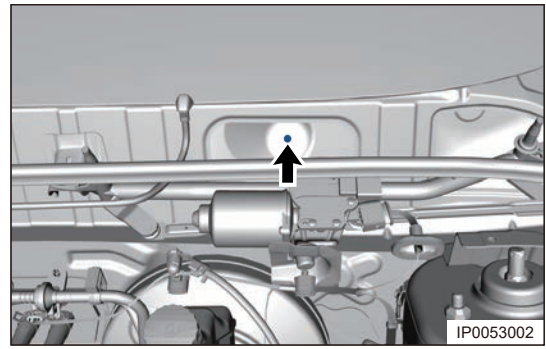


- e. Disconnect all wire harness fixing clips (arrow) from instrument panel crossmember.



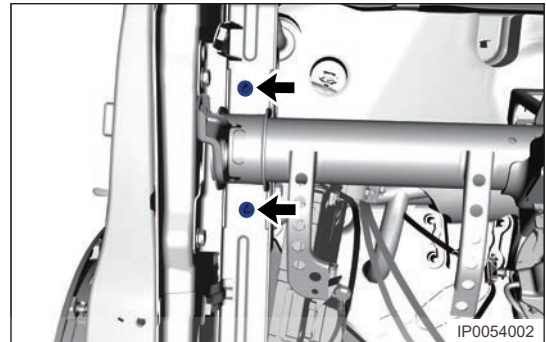
35 - INSTRUMENT PANEL

- f. Remove 1 fixing bolt (arrow) under front windshield lower trim board outside the instrument panel crossmember.



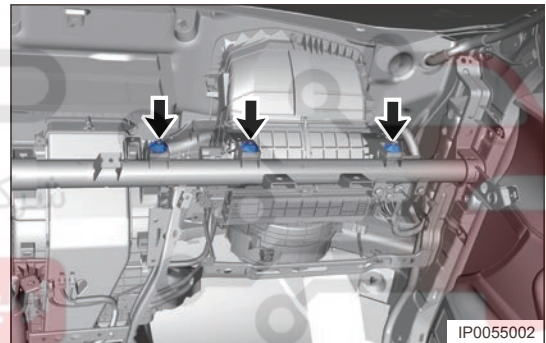
- g. Remove 2 fixing bolts (arrow) from instrument panel crossmember (take left side as an example).

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



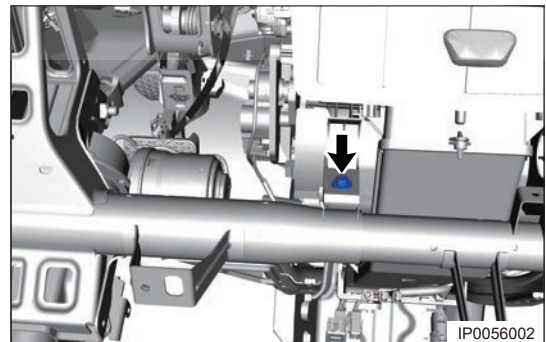
- h. Remove 3 fixing nuts (arrow) between HVAC assembly and instrument panel crossmember.

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



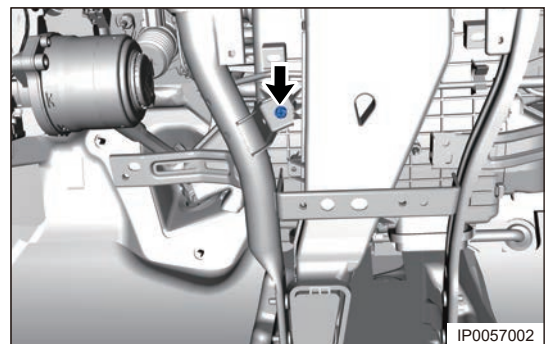
- i. Remove 1 fixing bolt (arrow) between HVAC assembly and instrument panel crossmember.

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



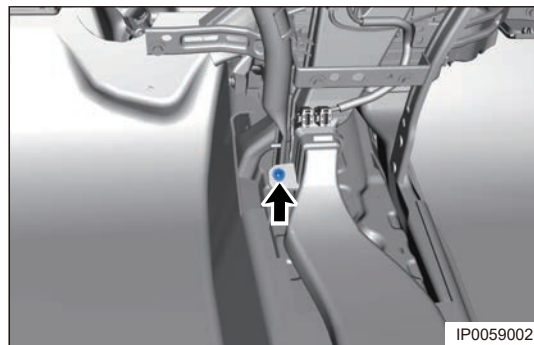
- j. Remove 1 fixing bolt (arrow) between HVAC assembly and instrument panel crossmember.

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



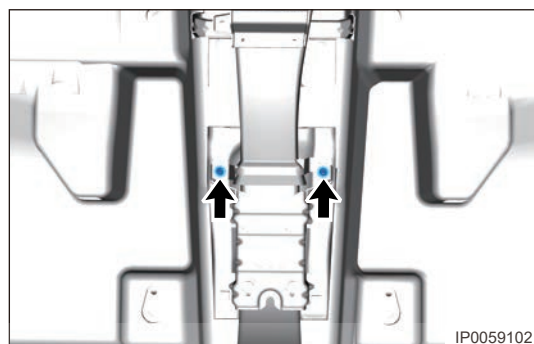
- k. Remove 1 fixing screw (arrow) from front part of rear face duct.

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



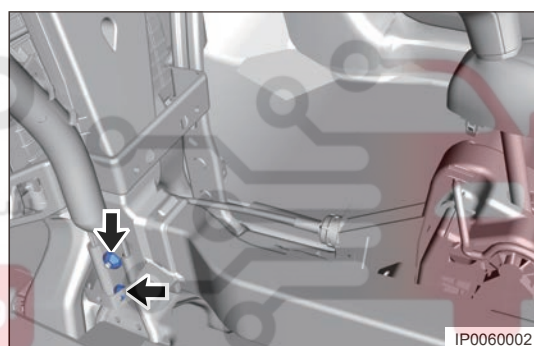
- l. Remove 2 fixing screws (arrow) from front part of rear face duct.

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



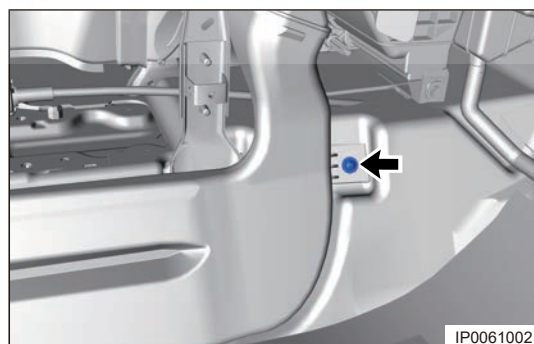
- m. Remove 2 fixing nuts (arrow) from lower part of instrument panel crossmember (take left side as an example).

Tightening torque: $23 \pm 2 \text{ N}\cdot\text{m}$



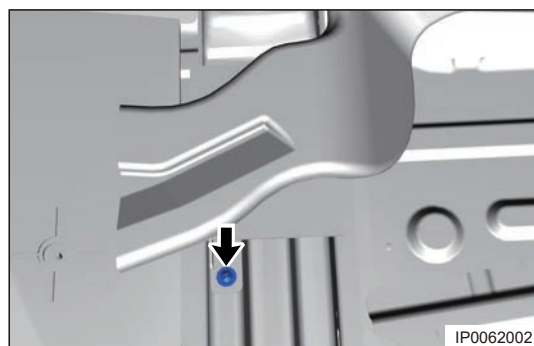
- n. Fold back the front passenger carpet to remove 1 fixing screw (arrow) from right foot duct.

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

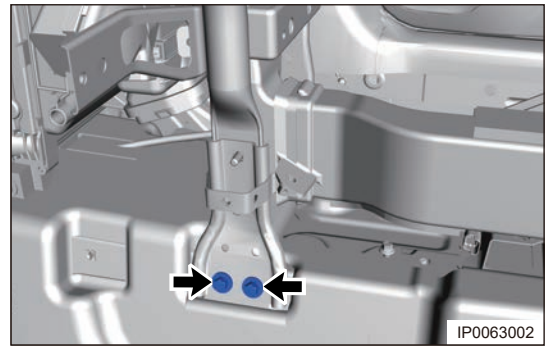


- o. Fold back the front passenger carpet to remove 1 fixing screw (arrow) from right foot duct and take away the right foot duct.

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

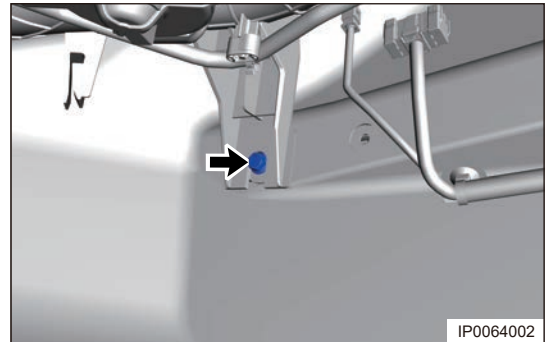


- p. Remove 2 fixing bolts (arrow) from instrument panel crossmember fixing bracket (take left side as an example).

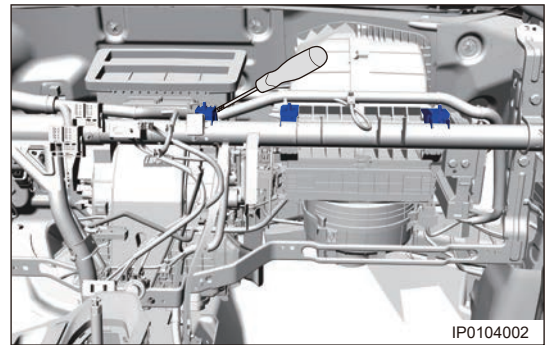


- q. Remove 1 fixing bolt (arrow) between HVAC assembly and body.

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



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



- s. Carefully remove the instrument panel crossmember assembly.

Installation

1. Installation is in the reverse order of removal.

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.