

INSTRUMENT PANEL

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دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



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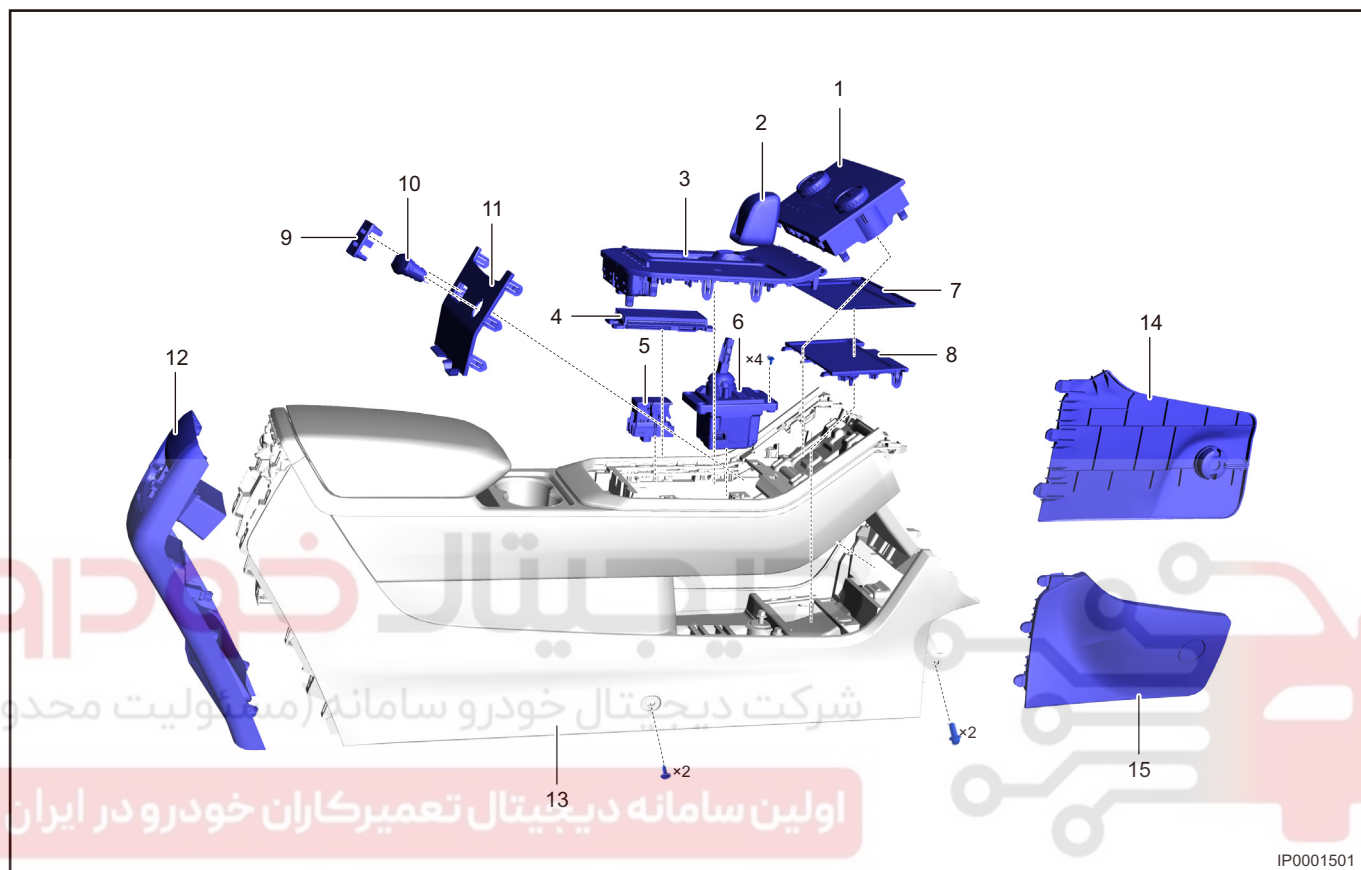


GENERAL INFORMATION

Overview

Description

Auxiliary Fascia Console Assembly

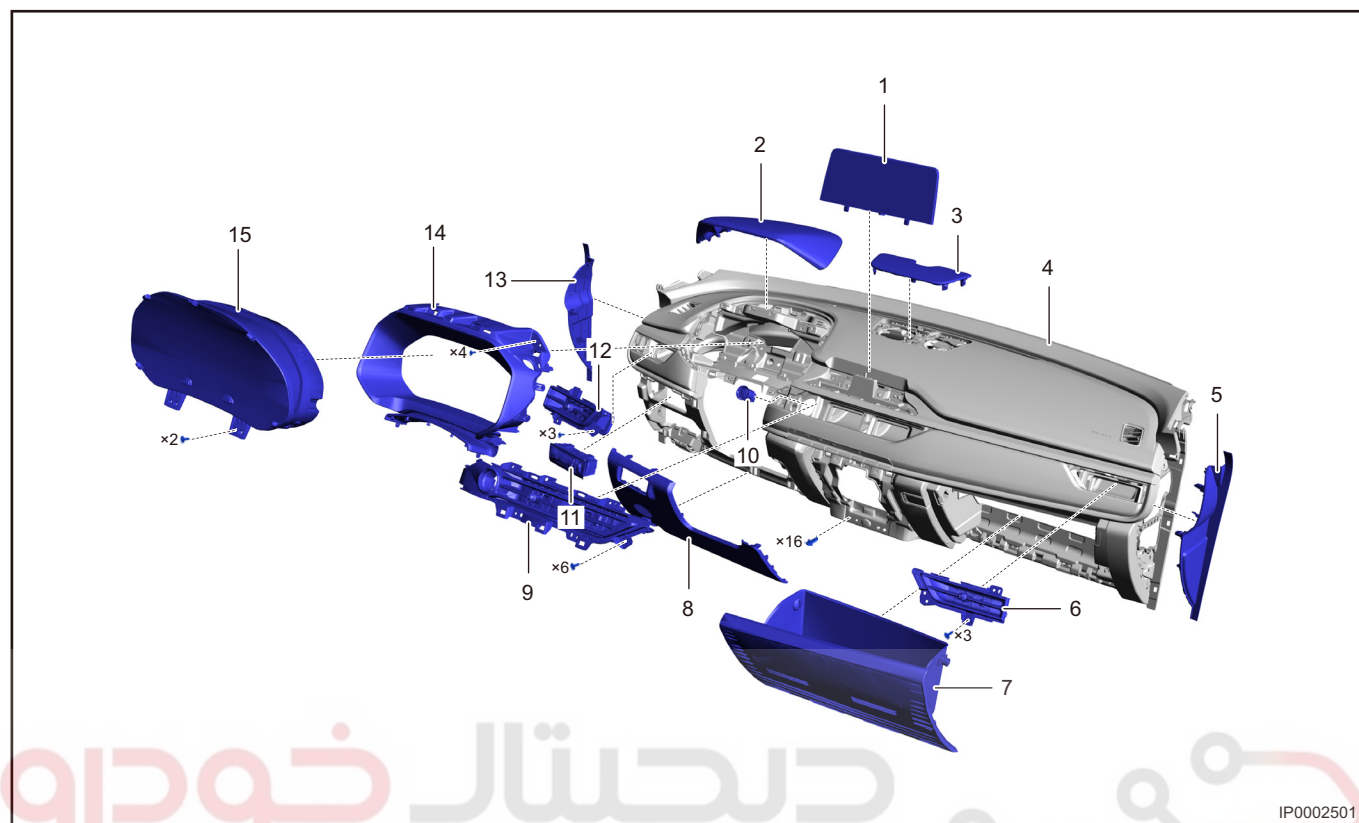


IP0001501

42

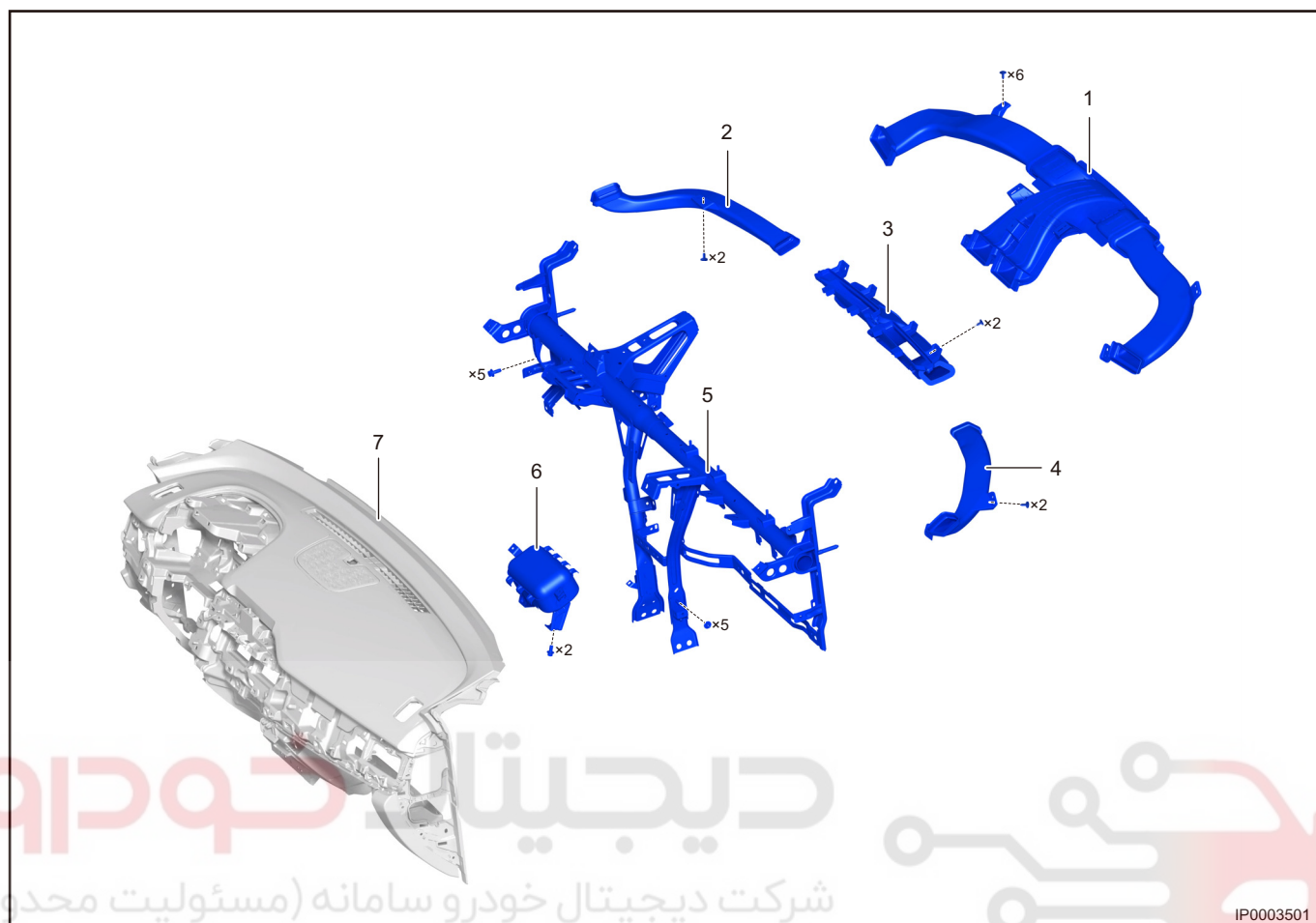
1 - Shift Knob	2 - Power Save Mode Switch
3 - Auxiliary Fascia Console Switch	4 - Auxiliary Fascia Console Finish Assembly
5 - EPB Switch Assembly	6 - Gear Display Panel
7 - ENGINE START STOP Switch Assembly	8 - Front Storage Box Body
9 - Auxiliary Fascia Console Front Left Protector Assembly	10 - Auxiliary Fascia Console Front Right Protector Assembly
11 - Auxiliary Fascia Console Assembly	12 - Cup Holder Assembly
13 - Retractable Panel Assembly	14 - Auxiliary Fascia Gasket
15 - Auxiliary Fascia Console Rear Panel 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 - Air Conditioning Right Outlet
7 - Glove Box Assembly	8 - Instrument Panel Lower Left Protector Assembly
9 - Air Conditioning Central Outlet	10 - Ignition Switch
11 - Adjustment Switch Assembly	12 - Air Conditioning 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	

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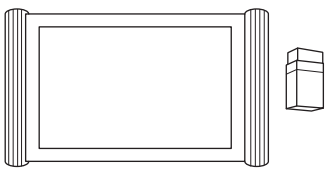
Specifications

Torque Specifications

Description	Torque (N•m)
Instrument Cluster Trim Frame Assembly Fixing Bolt	1.5 ± 0.5
Middle Passage Connecting Bracket Fixing Bolt	7 ± 1
Combination Switch Lower Cover Fixing Screw	1.5 ± 0.5
Front Extension Panel 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

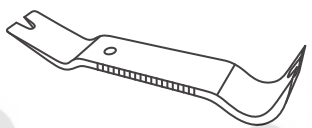
Tools

Special Tool

Tool Name	Part No.	Tool Drawing
Steering Wheel Remover	CH-30003-A	 001

Tool

General Tool

Interior Crow Plate	 025
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Auxiliary Fascia Console Assembly

Removal

WARNING: اولین سامانه دیجیتال تعمیرکاران خودرو

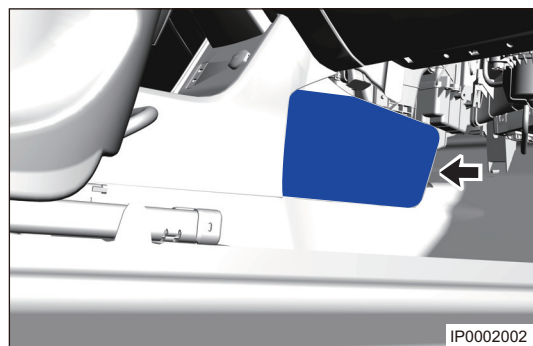
42

- 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 up the plug (arrow) of auxiliary fascia console front right extension panel and remove the fixing bolt (1) from auxiliary fascia console front right protector.

Tightening torque

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

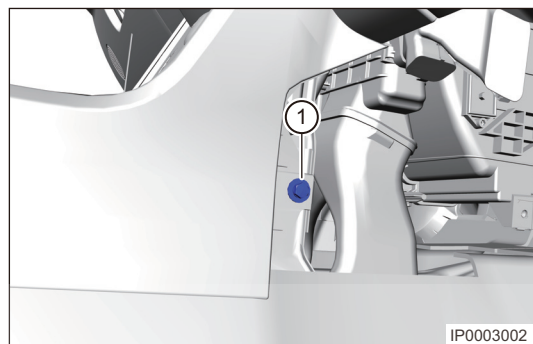

- (b) Remove the auxiliary fascia console front right protector (arrow).



4. Remove 1 fixing bolt (1) from auxiliary fascia console.

Tightening torque

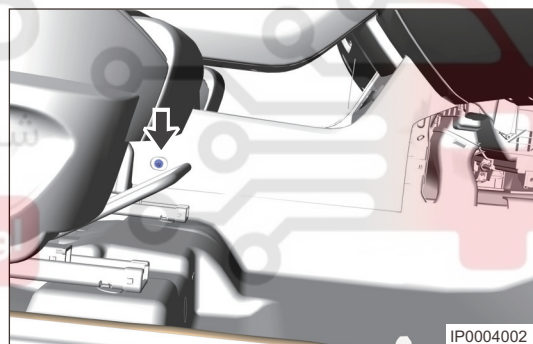
$5 \pm 1 \text{ N}\cdot\text{m}$



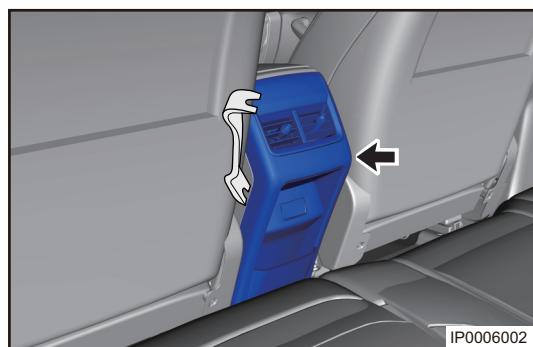
5. Remove 1 fixing screw (arrow) from central part of auxiliary fascia console.

Tightening torque

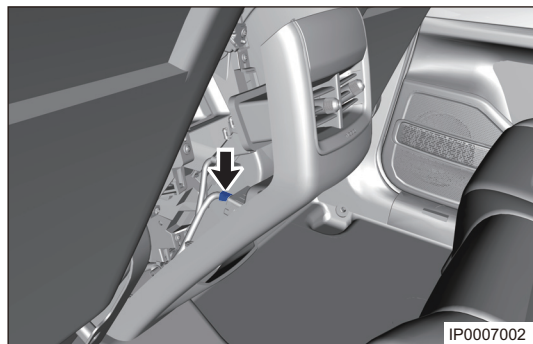
$1.5 \pm 0.5 \text{ N}\cdot\text{m}$



6. Pry off the rear outlet panel (arrow) with interior crow plate.

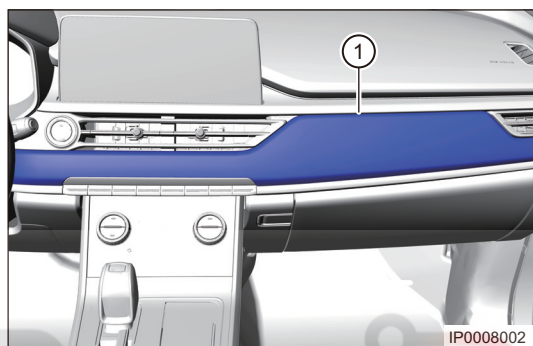


7. Disconnect the USB charging module connector (arrow).



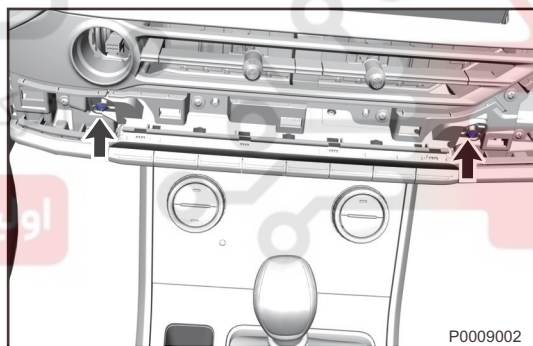
8. Remove the center console switch assembly (MT).

- (a) Using an interior crow plate, pry up center console switch assembly fixing clip and remove center console switch assembly (1).

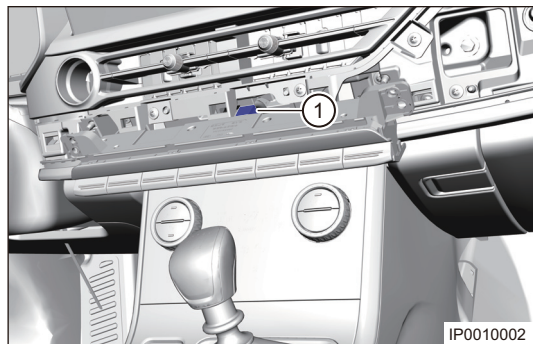


- (b) Remove 2 fixing screws (arrow) from center console switch assembly.

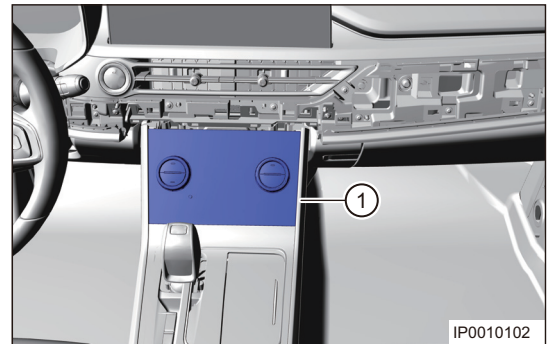
Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



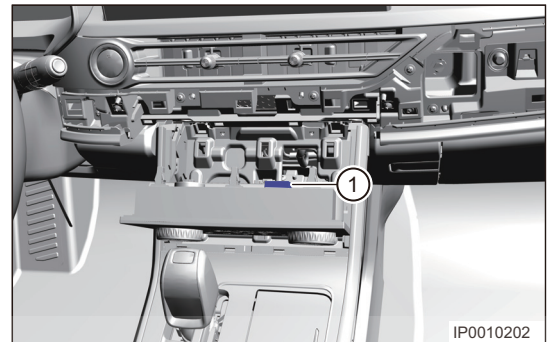
- (c) Disconnect the center console switch assembly connector (1).



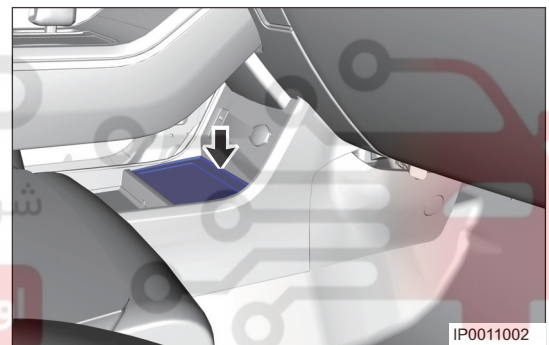
- (d) Using an interior crow plate, pry up A/C control panel (1).



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



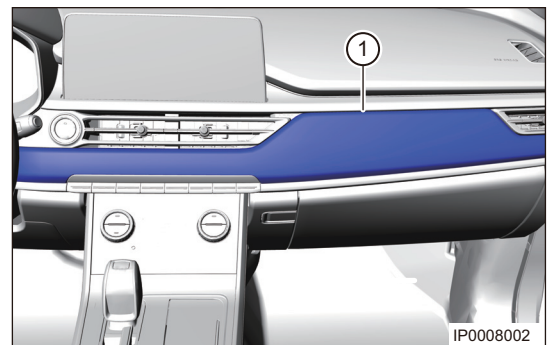
- (f) Using an interior crow plate, pry up auxiliary fascia console switch and cover plate assembly fixing clip (1).



- (g) Disconnect electric parking brake connector and remove shift lever boot.

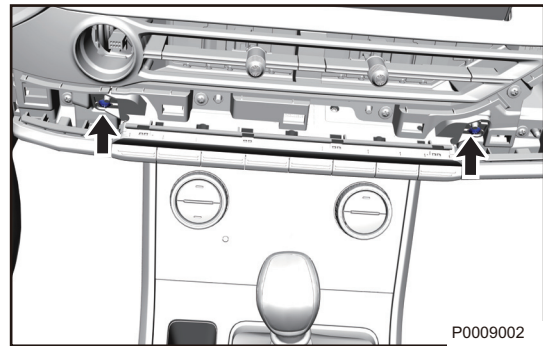
9. Remove the center console switch assembly (6 DCT).

- (a) Using an interior crow plate, pry up center console switch assembly fixing clip and remove center console switch assembly (1).

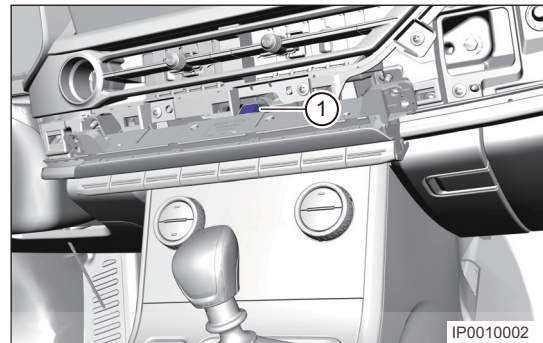


- (b) Remove 2 fixing screws (arrow) from center console switch assembly.

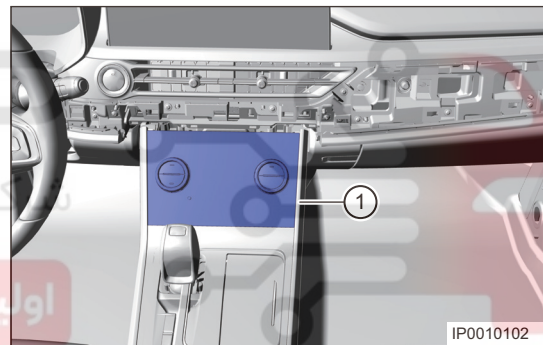
Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



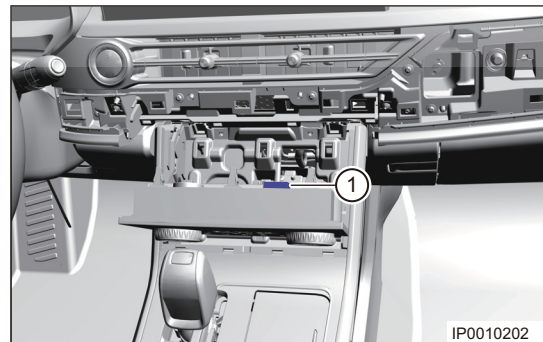
- (c) Disconnect the center console switch assembly connector (1).



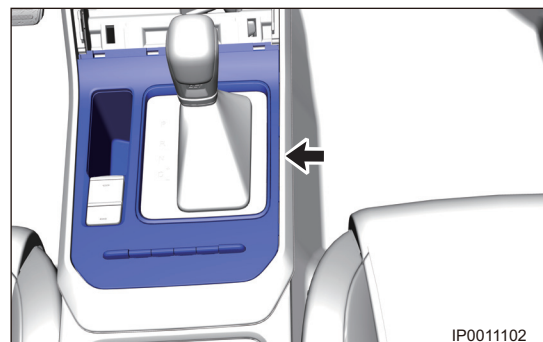
- (d) Using an interior crow plate, pry up A/C control panel (1).



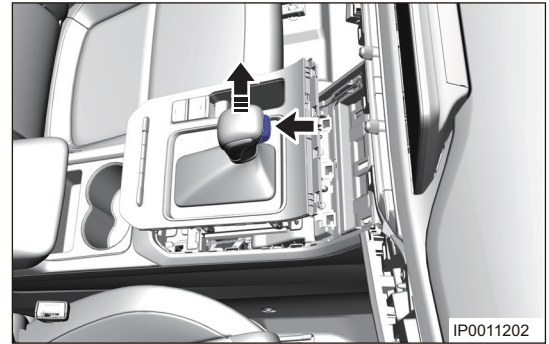
- (e) Disconnect the A/C control panel connector (1).



- (f) Using an interior crow plate, pry up auxiliary fascia console switch and cover plate fixing clip (1).



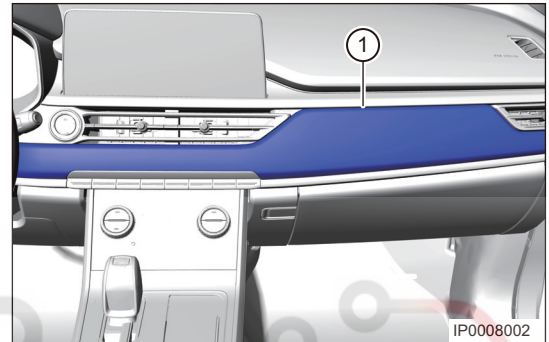
- (g) Remove shift lever boot fixing clip and disconnect gear backlight connector, press shift lever button (arrow) and lift shift lever boot up to remove it.



- (h) Disconnect electric parking brake connector and disconnect auxiliary fascia console switch connector to remove auxiliary fascia console switch and cover plate assembly.

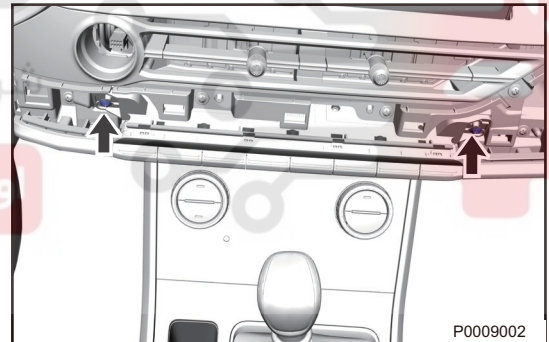
10. Remove the center console switch assembly (7 DCT).

- (a) Using an interior crow plate, pry up center console switch assembly fixing clip and remove center console switch assembly (1).

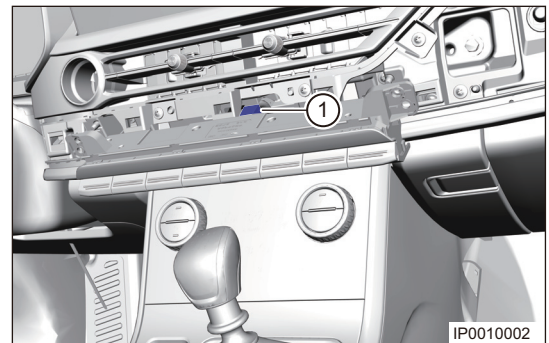


- (b) Remove 2 fixing screws (arrow) from center console switch assembly.

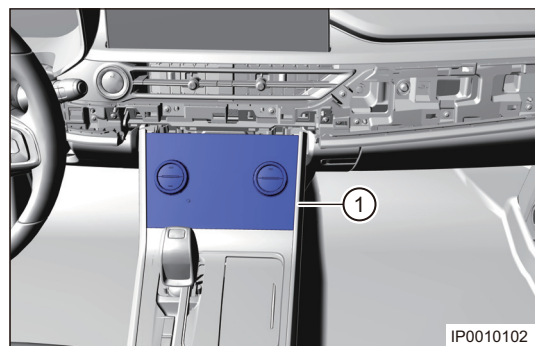
Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



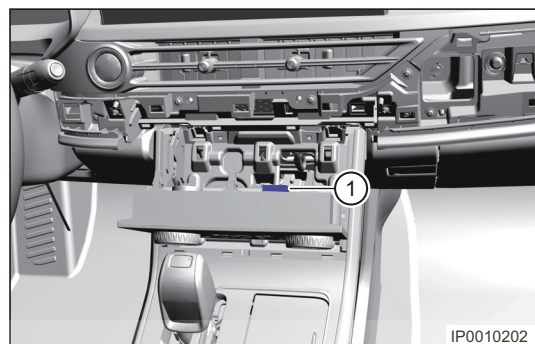
- (c) Disconnect the center console switch assembly connector (1).



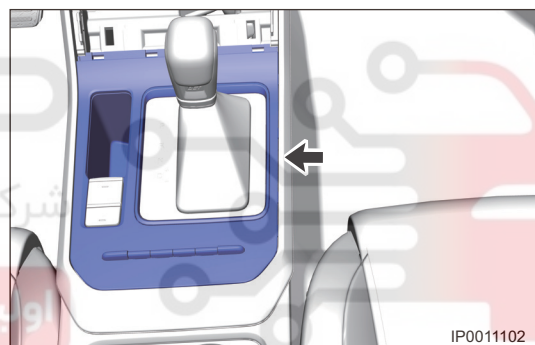
- (d) Using an interior crow plate, pry up A/C control panel (1).



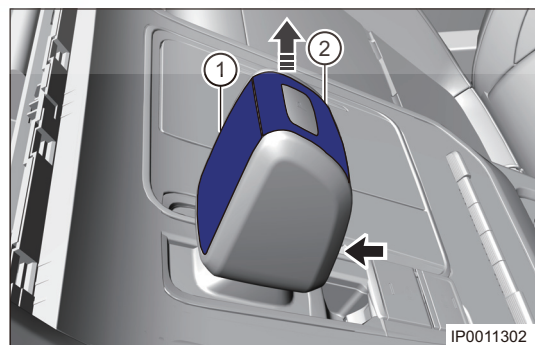
- (e) Disconnect the A/C control panel connector (1).



- (f) Using an interior crow plate, pry up auxiliary fascia console switch and cover plate fixing clip (1).



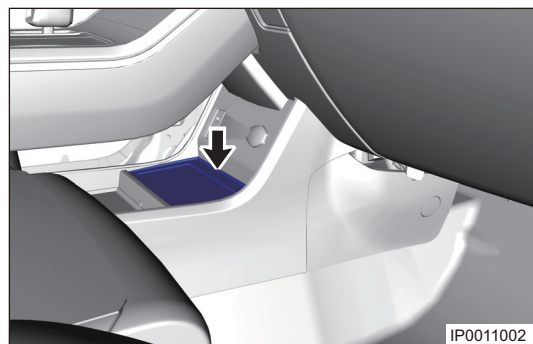
- (g) Using an interior crow plate, pry up electric shift lever front panel (1), remove rear panel (2), then remove clip (arrow) and lift electric shift lever up to remove it.



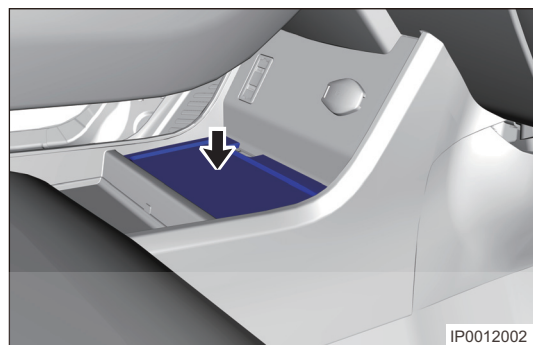
11. Pry off the fixing clip of shift lever boot (1) with interior crow plate and remove shift lever boot.

12. Remove the multi-function interface.

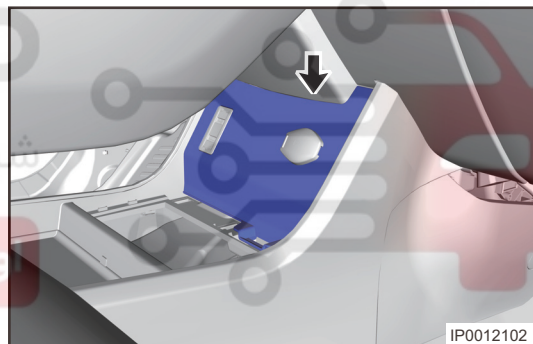
- (a) Remove the auxiliary fascia console front end storage box rubber mat (arrow).



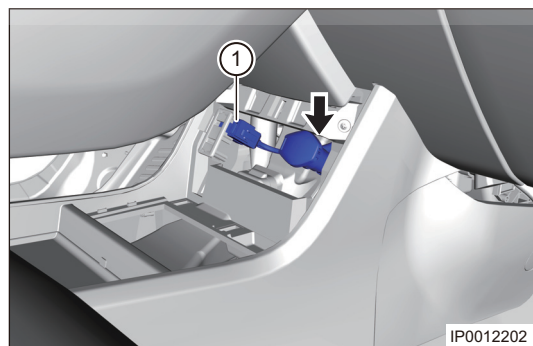
- (b) Pry off the front storage box cover plate assembly (arrow) with interior crow plate.



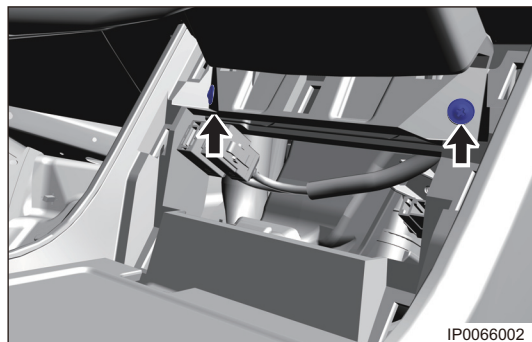
- (c) Remove the USB panel assembly.



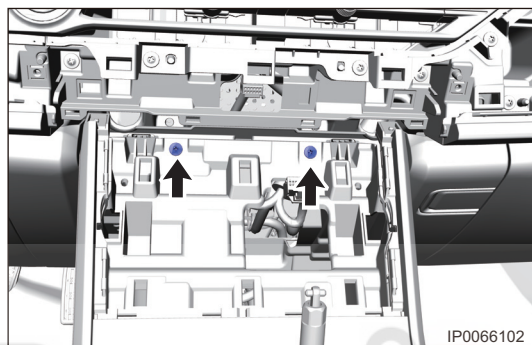
- (d) Disconnect backup power supply connector (arrow), 2 USB connectors (1).



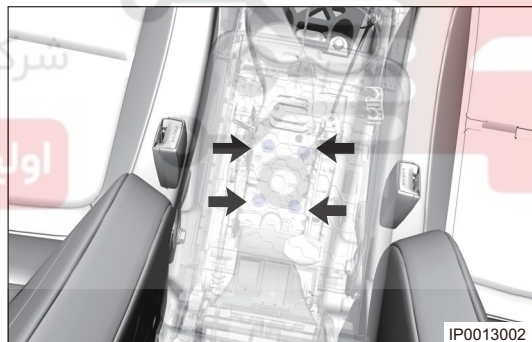
13. Remove 2 fixing screws (arrow) from auxiliary fascia console assembly.

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

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

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

15. Open armrest box and remove armrest box storage box gasket. Remove 4 fixing bolts from auxiliary fascia console.

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

16. Disconnect the immobilizer coil connector.
17. Remove the auxiliary fascia console assembly.

Installation

1. Assembly is in the reverse order of disassembly.

Instrument Panel Assembly

Removal

WARNING:

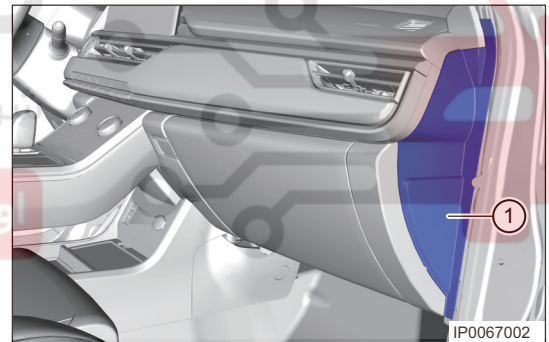
- Be sure to wear safety equipment to prevent accidents, when removing auxiliary fascia console assembly.
- All operations related with safety airbag components when removing the instrument panel should be performed after battery power supply is disconnected. Never operate it with power on. Because within 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:

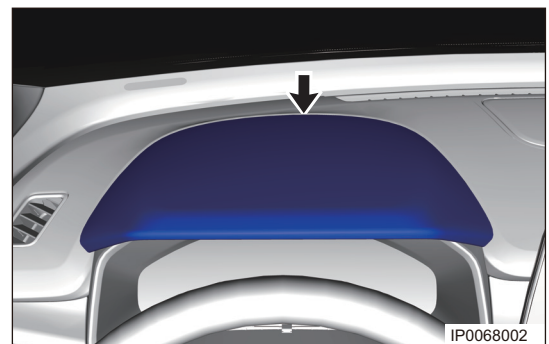
- Be sure to wear safety equipment to prevent accidents, when removing instrument panel assembly.
- DO NOT scratch interior and body paint, when removing instrument panel assembly.

1. Turn off all electrical equipment and the ignition switch.
2. Disconnect the negative battery cable.
3. Remove the combination switch cover assembly.
4. Remove the auxiliary fascia console assembly.
5. Remove the right weatherstrip assembly.
6. Remove the instrument panel right end cover assembly.

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

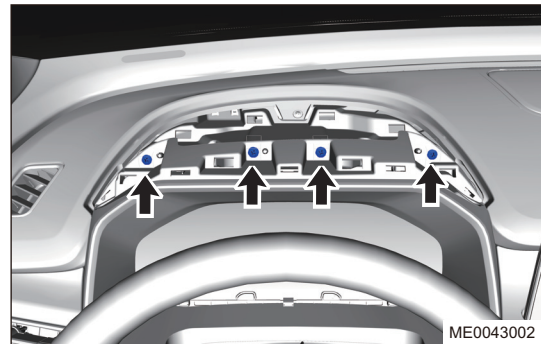


7. Remove the instrument cluster assembly.
 - (a) Using an interior crow plate, pry up and remove instrument cluster front cover (arrow).



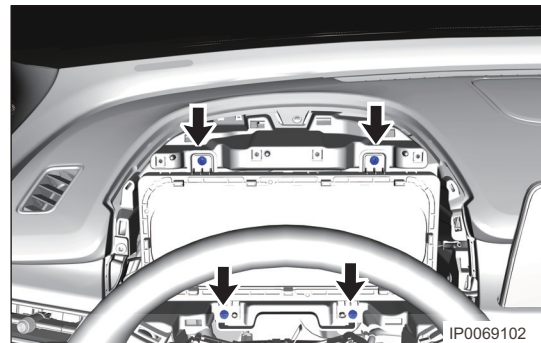
- (b) Remove 4 fixing screws (arrow) from instrument cluster trim frame assembly.

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



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

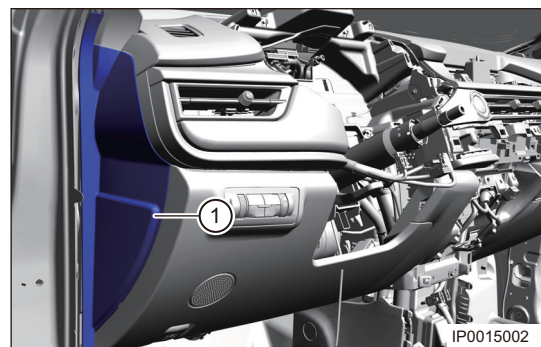
Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



- (d) Disconnect instrument cluster connector and remove instrument cluster.

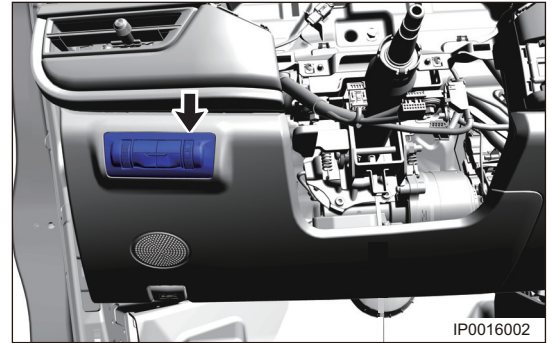
8. Remove the driver airbag assembly.
9. Remove the steering wheel assembly.
10. Remove the spiral cable.
11. Remove the wiper switch assembly.
12. Remove the combination light switch assembly.
13. Remove the A-pillar upper protector assembly.
14. Remove the A-pillar lower protector assembly.
15. Remove the A/C control panel assembly.
16. Remove the No Disc DVD display.
17. Remove the instrument panel left end cover assembly.

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



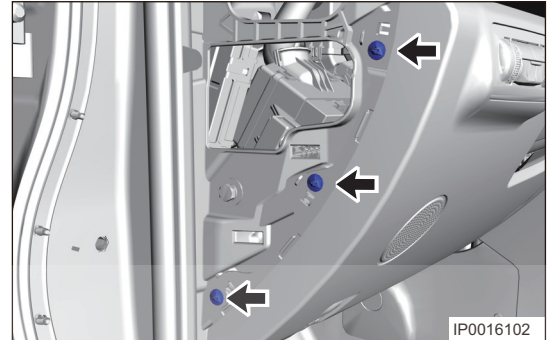
18. Remove the instrument panel left lower protector assembly.

(a) Remove the adjustment switch assembly (arrow).



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

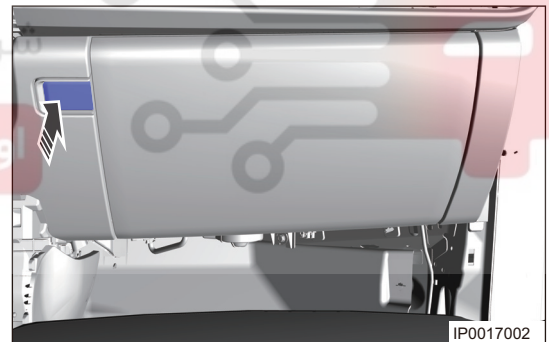
Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



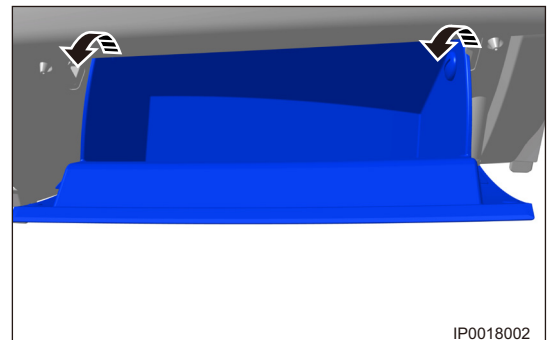
(c) Using a screwdriver wrapped with protective tape, pry off and remove the instrument panel left lower protector.

19. Remove the glove box assembly.

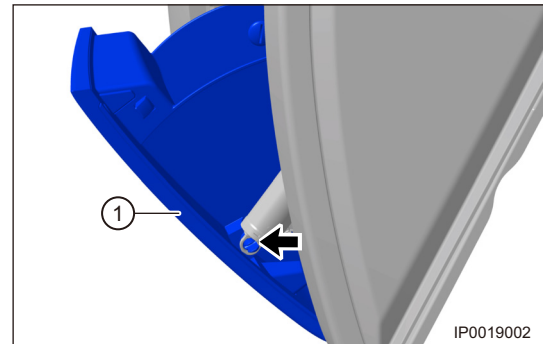
(a) Press glove box switch and open glove box assembly in direction of arrow as shown in illustration.



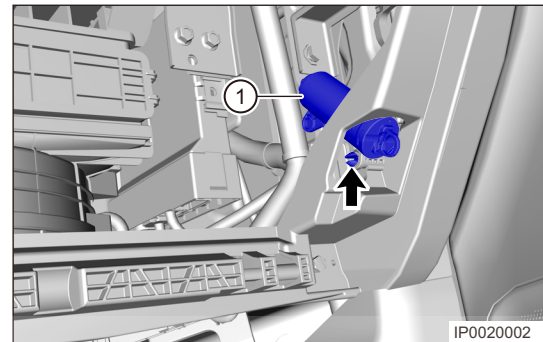
(b) Rotate lock knob in direction of arrow as shown in illustration to remove it.



- (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).

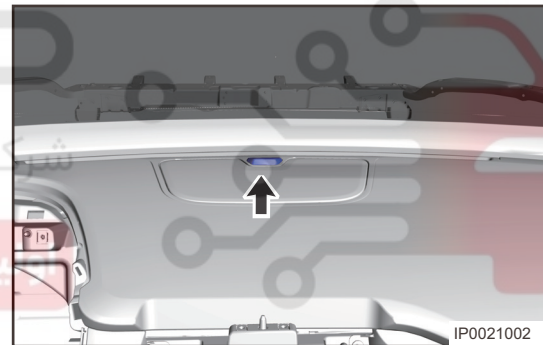


- (d) Detach the coupling clips between instrument panel and damper, detach claws from lower side of instrument panel assembly, and remove damper assembly (1).



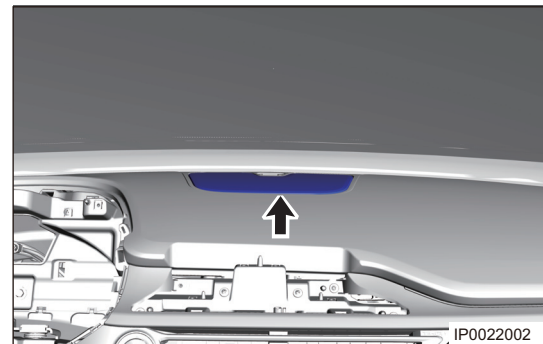
20. Remove the solar sensor.

- (a) Using an interior crow plate, pry up solar sensor (arrow) and disconnect solar sensor connector.



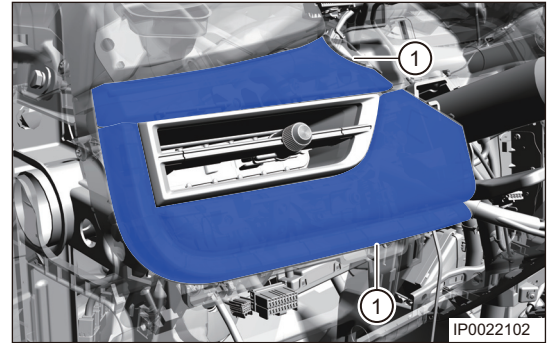
21. Remove the speaker cover assembly.

- (a) Using an interior crow plate, pry up speaker cover assembly fixing clip and remove speaker cover assembly (arrow).



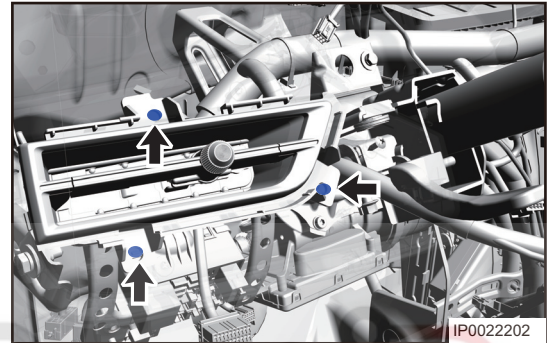
22. Remove the A/C left outlet assembly.

- (a) Using an interior crow plate, pry up upper trim panel (1) and lower trim panel (2) of instrument panel left outlet.



- (b) Disconnect atmosphere light connector and remove upper and lower trim panel of left outlet.
(c) Remove 3 fixing screws (arrow) from A/C left outlet.

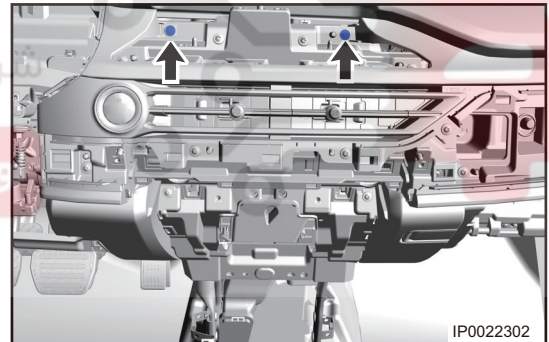
Tightening torque
 $1.5 \pm 0.5 \text{ N}\cdot\text{m}$



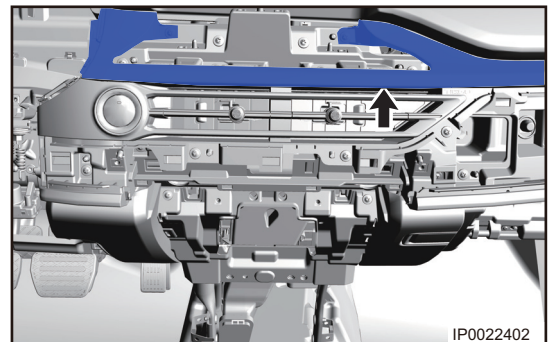
23. Remove the A/C central outlet assembly.

- (a) Remove 2 fixing screws (arrow) from no disc DVD display lower trim panel.

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



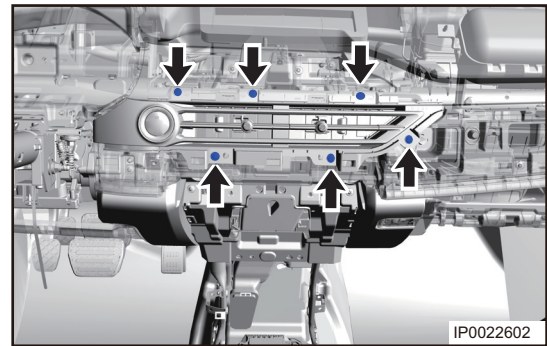
- (b) Using an interior crow plate, pry up no disc DVD display lower trim panel fixing clip, disconnect ENGINE START STOP switch connector and remove no disc DVD display lower trim panel (arrow).



- (c) Remove 6 fixing screws (arrow) from A/C central outlet.

Tightening torque

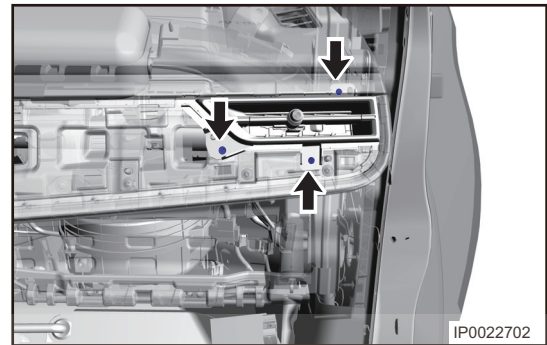
$1.5 \pm 0.5 \text{ N}\cdot\text{m}$



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

Tightening torque

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



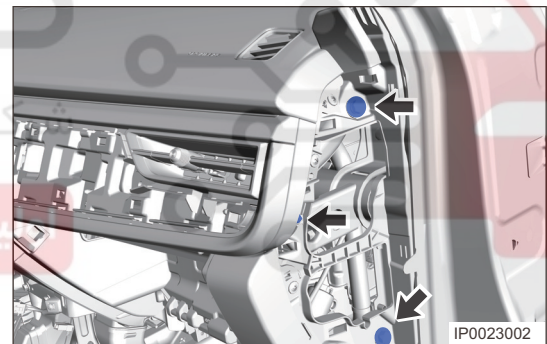
- (e) Remove the A/C right outlet.

24. Remove the instrument panel assembly.

- (a) Remove 3 fixing bolts (arrow) from right instrument panel assembly (the right side is the same as the left side).

Tightening torque

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



- (b) Remove 1 fixing bolt (arrow) from upper right instrument panel assembly (the right side is the same as the left side)

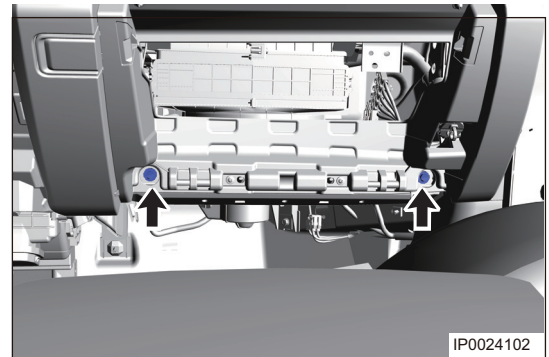
Tightening torque

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



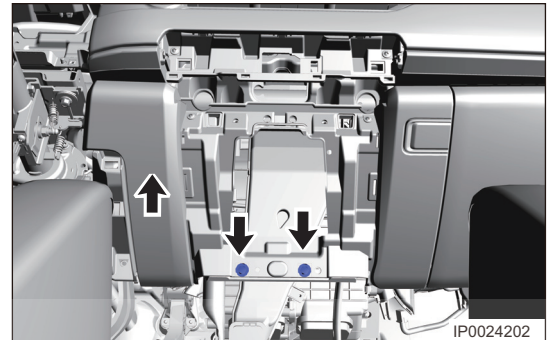
- (c) Remove 2 fixing bolts (arrow) between lower right part of instrument panel and crossmember.

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



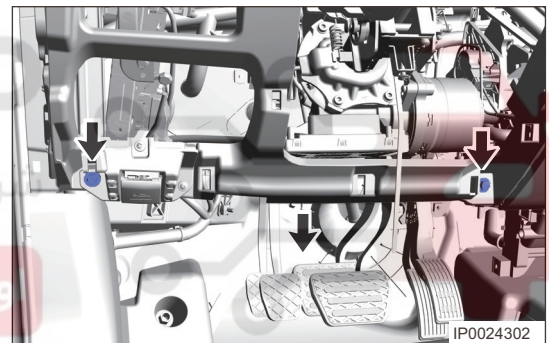
- (d) Remove 2 fixing bolts (arrow) between lower central part of instrument panel and crossmember.

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



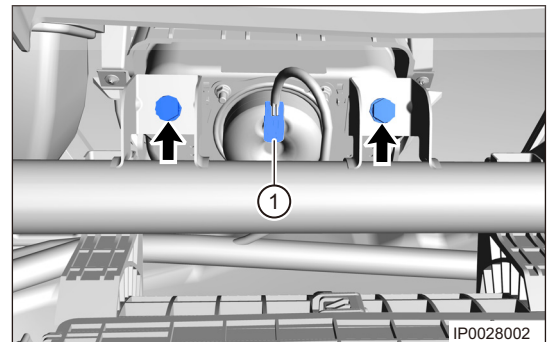
- (e) Remove 2 fixing bolts (arrow) between lower left part of instrument panel and crossmember.

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



- (f) Disconnect the passenger side safety airbag connector (1). Remove 2 fixing bolts (arrow) between passenger side safety airbag and crossmember.

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



- (g) Remove wire harness fixing clip from instrument panel.
(h) Remove the instrument panel assembly.

Installation

1. Assembly is in the reverse order of disassembly.

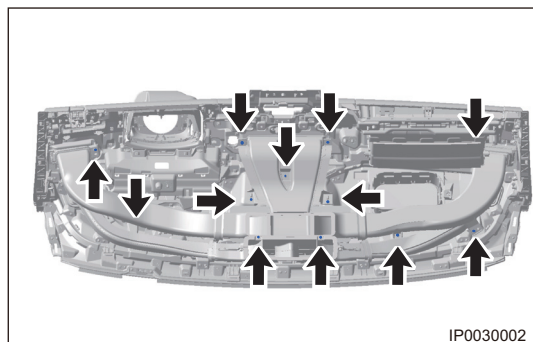
Disassembly

1. Remove the central air duct.

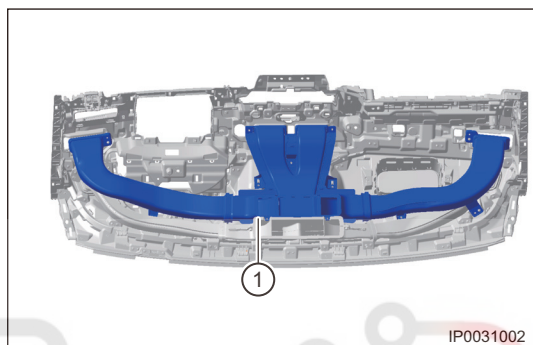
- (a) Remove 12 fixing screws (arrow) from central air duct.

Tightening torque

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



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

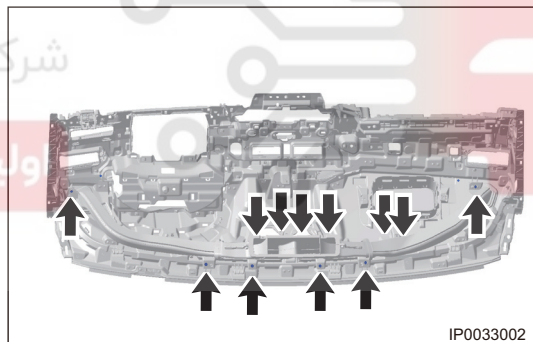


2. Remove the central defroster duct.

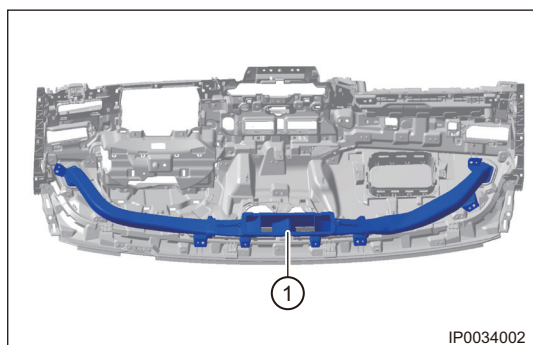
- (a) Remove 12 fixing screws (arrow) from central defroster duct.

Tightening torque

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



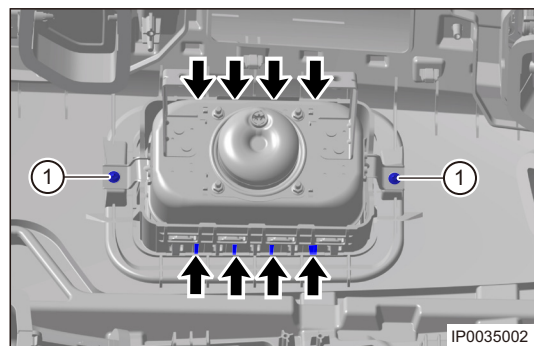
- (b) Remove the central defroster duct (1).



3. Remove the front passenger airbag assembly.

- (a) Remove 2 fixing screws (1) from front passenger airbag assembly.

- (b) Disengage 8 fixing clips 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.

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران



Instrument Panel Crossmember Assembly

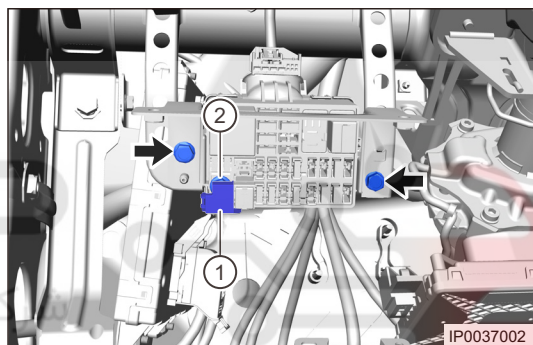
Removal

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.
 4. Remove the front windshield lower support assembly.
 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 and relay box and remove power supply cable fixing nut (2).
 - (b) Remove 2 fixing bolts (arrow) from instrument panel and relay box.

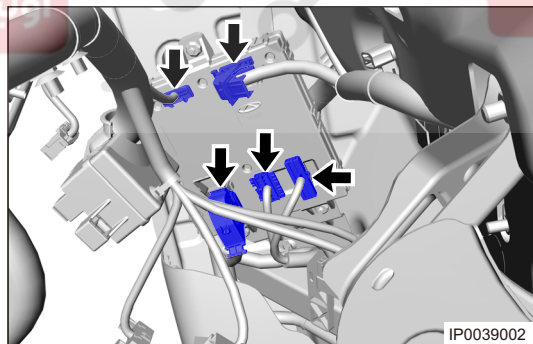
Tightening torque

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



8. Remove the Body Control Module (BCM).

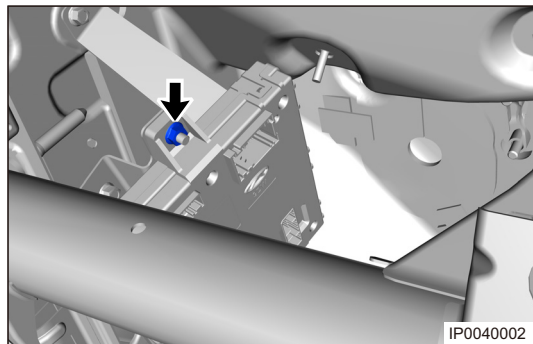
- (a) Disconnect 5 connectors (arrow) from Body Control Module (BCM).



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

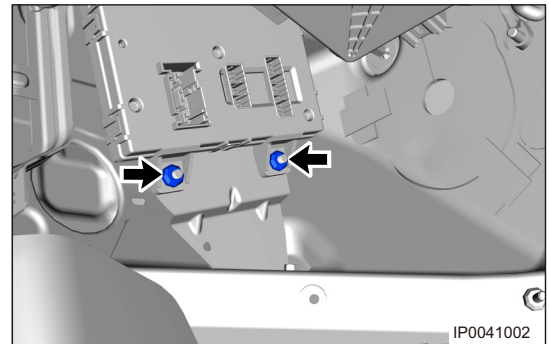
Tightening torque

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

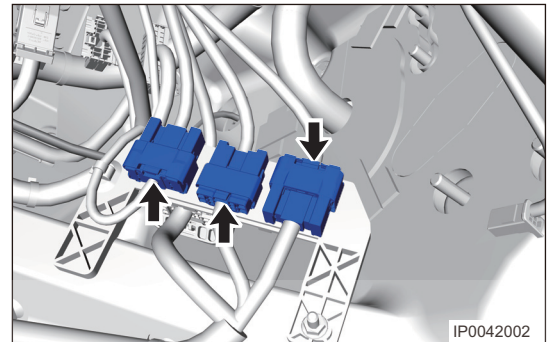


- (c) Remove 2 fixing nuts (arrow) from Body Control Module (BCM).

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

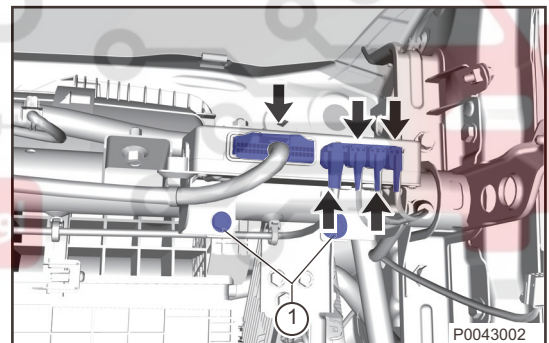


9. Disconnect 3 connectors (arrow) between instrument panel wire harness and interior wire harness.



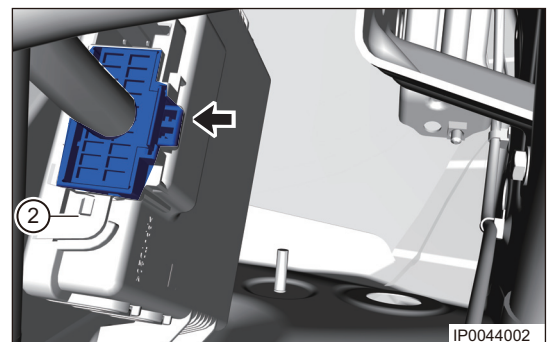
10. Remove the wireless communication module (TBOX).

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

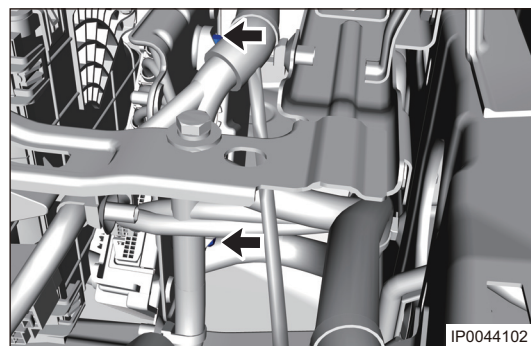


11. Remove the center gateway module.

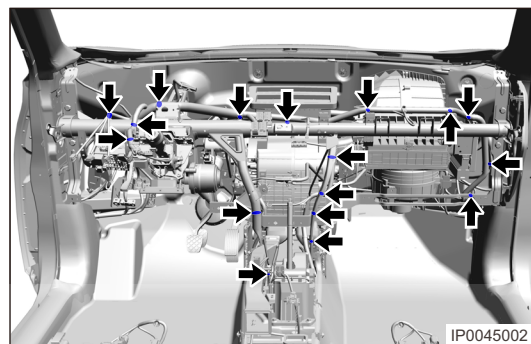
- (a) Disconnect the gateway module connector (arrow).



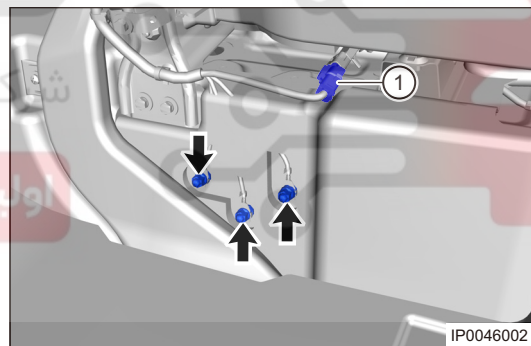
- (b) Remove 2 fixing nuts (arrow 1) from gateway module.



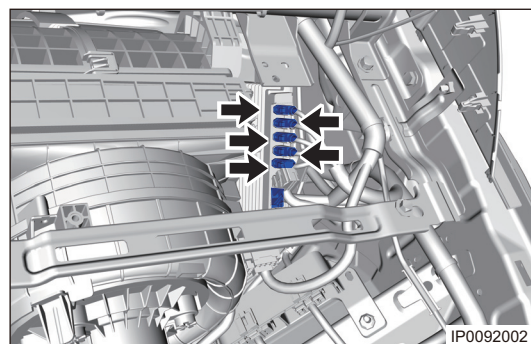
12. Disconnect all wire harness fixing clips from instrument panel crossmember.



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



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

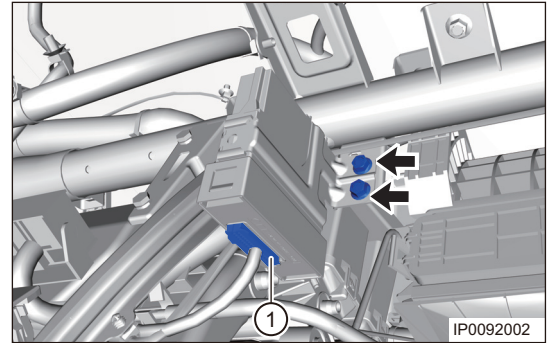


15. Remove the PEPS module.

- (a) Disconnect 1 connector (1) from PEPS module and remove 2 fixing bolts (arrow) from PEPS.

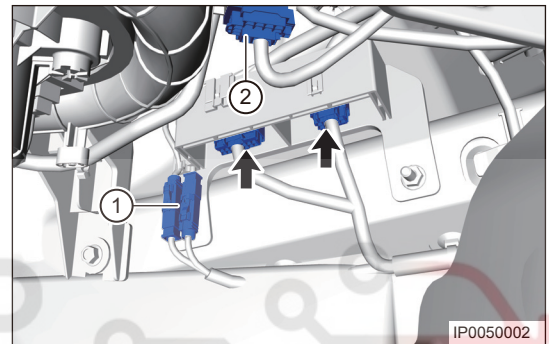
Tightening torque

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

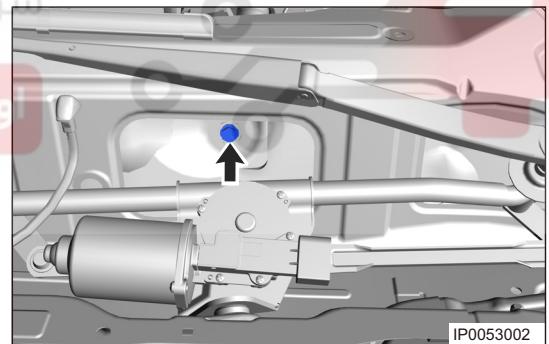


- (b) Remove the PEPS control module.

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



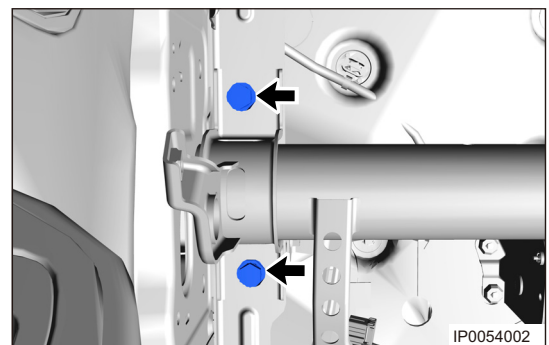
17. Remove 1 fixing bolt (arrow) under front windshield lower trim board outside the instrument panel.



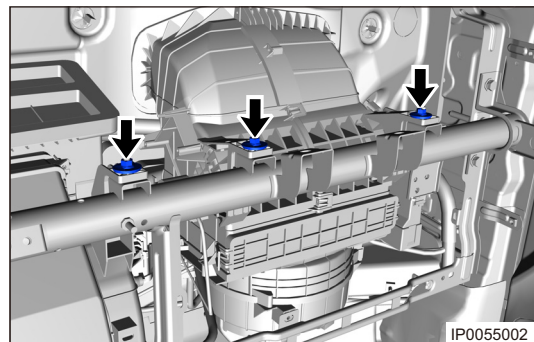
18. Remove 2 fixing bolts (arrow) from instrument panel crossmember (take left side as an example).

Tightening torque

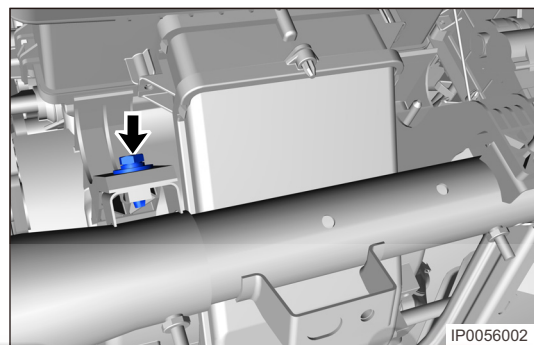
$25 \pm 3.5 \text{ N}\cdot\text{m}$



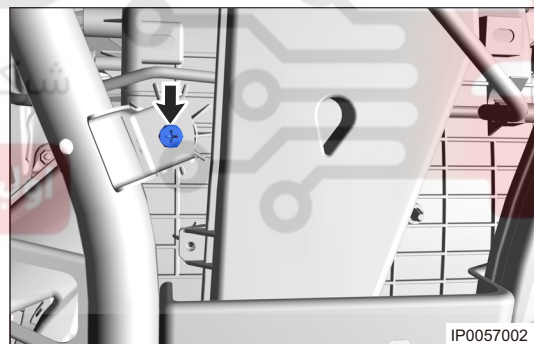
19. Remove 3 fixing nuts (arrow) between HVAC assembly and instrument panel crossmember.

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

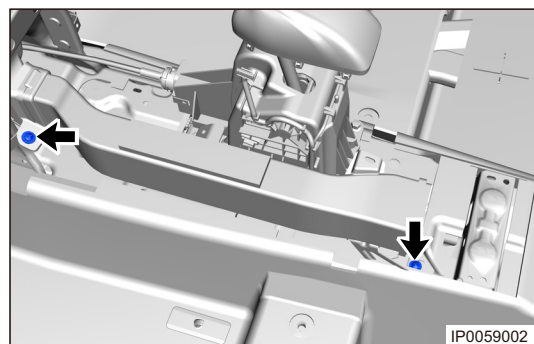
20. Remove 1 fixing bolt (arrow) between HVAC assembly and instrument panel crossmember.
(Tightening torque: $5 \pm 1 \text{ N}\cdot\text{m}$)



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

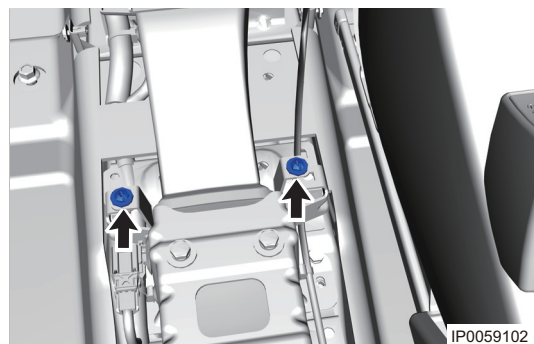
Tightening torque $2.5 \pm 0.5 \text{ N}\cdot\text{m}$ 

22. Remove 1 fixing screws (arrow) from front part of rear face air duct.

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

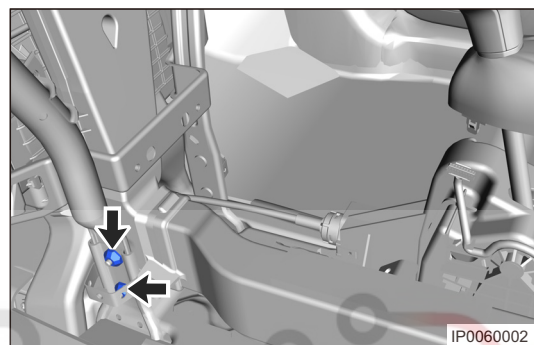
23. Remove 2 fixing screws (arrow) from front part of rear face air duct.

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



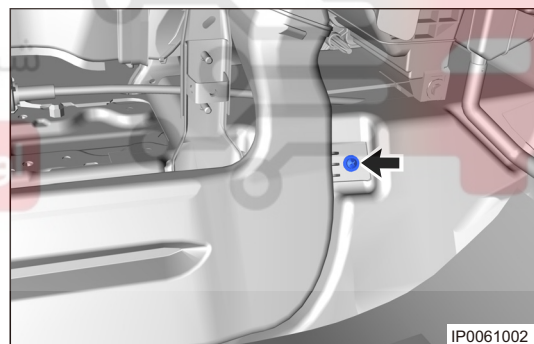
24. Remove 2 fixing nuts (arrow) from lower part of instrument panel crossmember (take left side as an example).

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



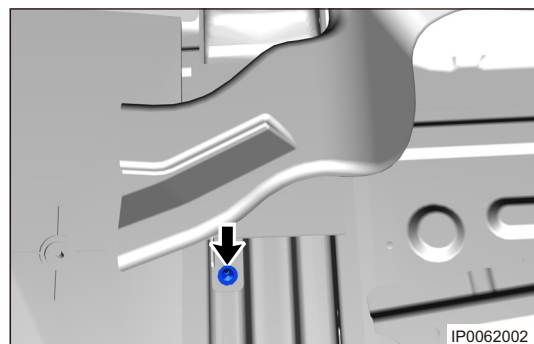
25. Fold back the front passenger carpet to remove 1 fixing screw (arrow) from right foot duct.

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

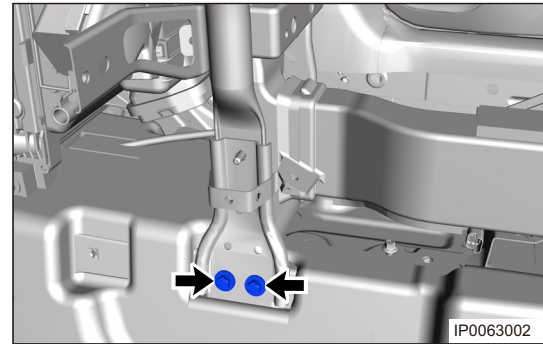


26. Fold back the front passenger carpet to remove 1 fixing screw (arrow) from right foot duct and take away the right foot duct.

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



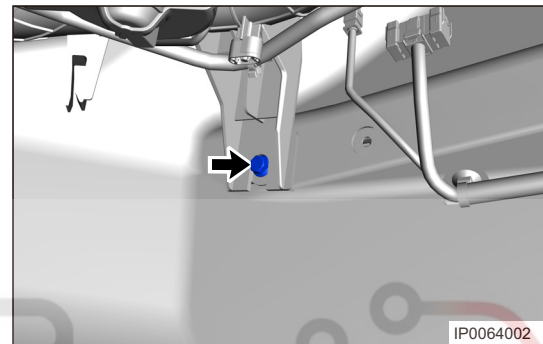
27. Remove 2 fixing bolts (arrow) from instrument panel crossmember fixing bracket (take left side as an example).



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

Tightening torque

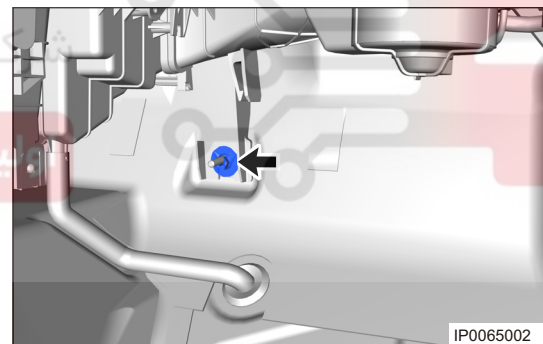
$5 \pm 1 \text{ N}\cdot\text{m}$



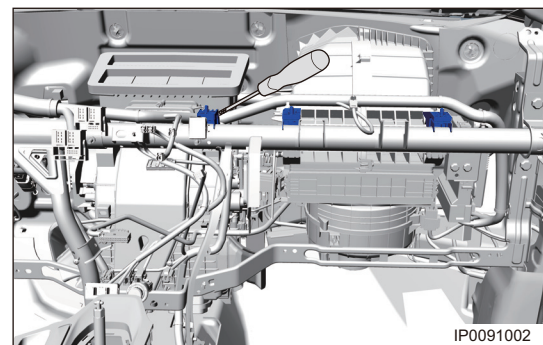
29. Remove 1 fixing nut (arrow) between HVAC assembly and body.

Tightening torque

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



30. Using a flat tip screwdriver, detach HVAC assembly from instrument panel crossmember assembly.



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



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