
INSTRUMENT PANEL

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50.1 Warning and Precautions

1 Precautions

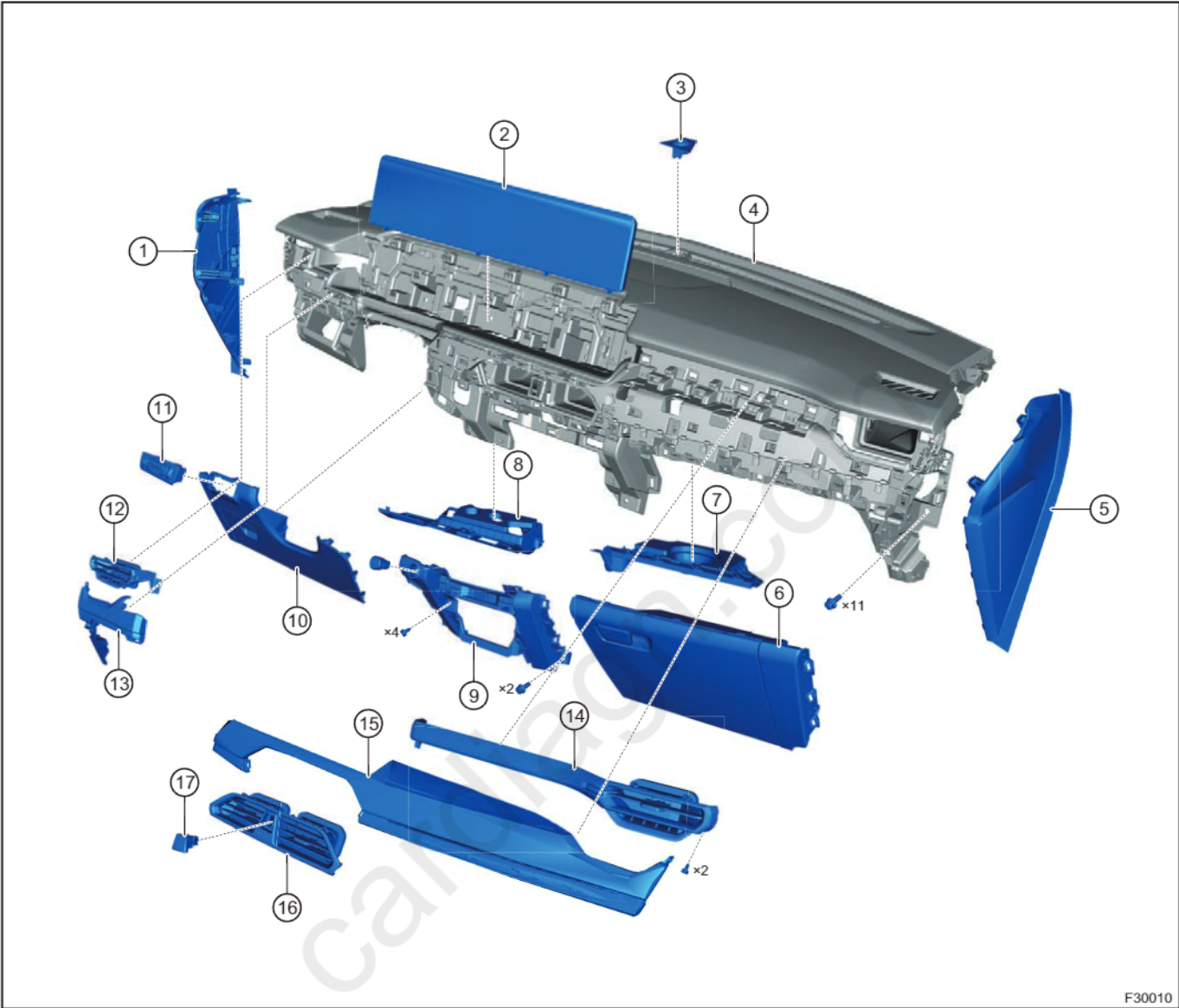
In order to avoid possible property loss, personal injury or death, please observe the following instructions before repair.

- (1) Be sure to wear safety equipment to prevent accidents, when removing instrument panel assembly.
- (2) Appropriate force should be applied, when removing instrument panel assembly. Be careful not to operate roughly.
- (3) DO NOT scratch interior and body paint, when removing instrument panel assembly.

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50.2 System Overview

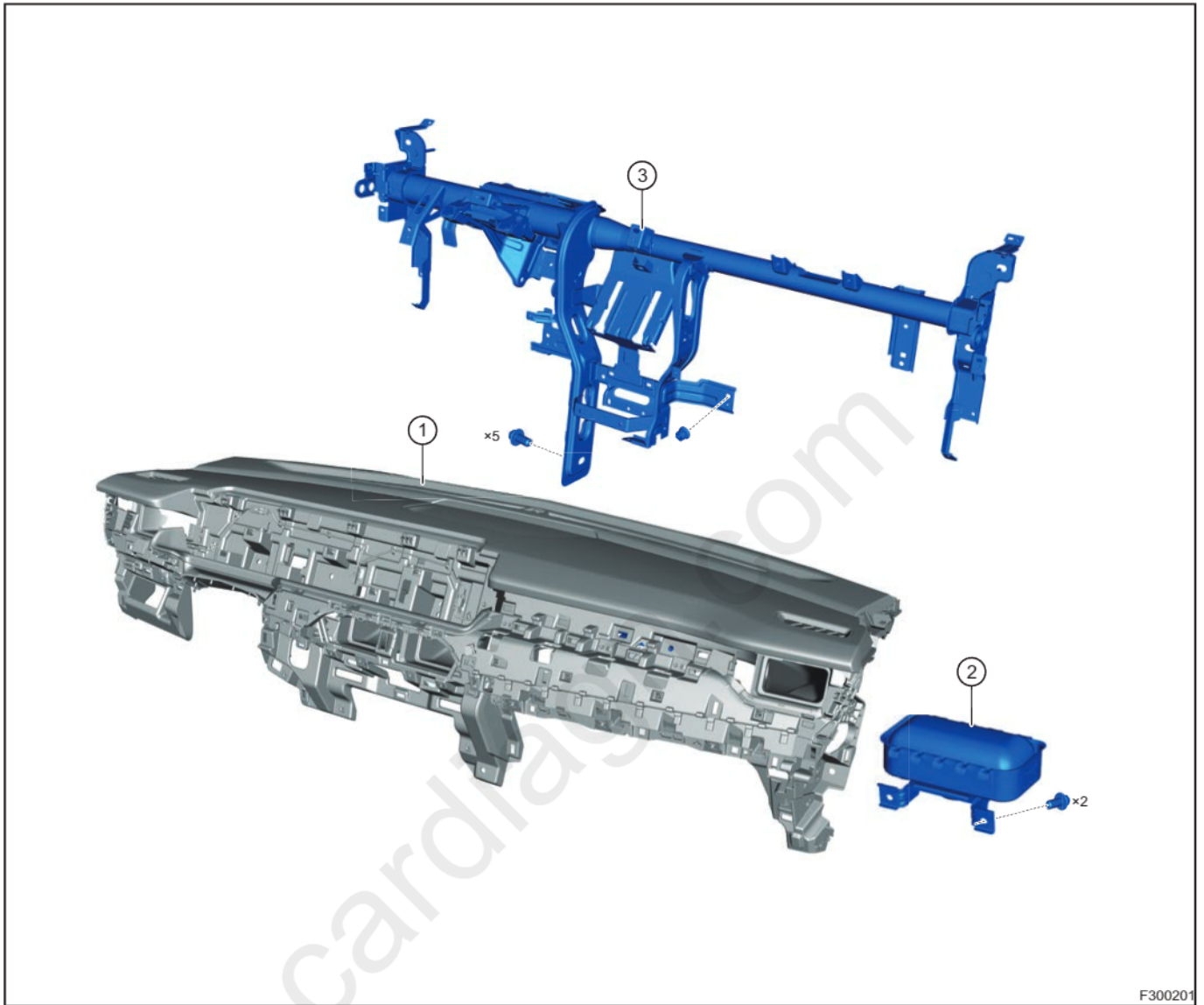
1 System Components Diagram



F30010

1	Left End Panel Assembly	10	Left Lower Protector Body
2	Dual LCD	11	Headlight Leveling Switch
3	Solar Sensor Assembly	12	Instrument Panel Left Outlet Assembly
4	Instrument Panel Body	13	Instrument Panel Left Trim Board Assembly
5	Right End Panel Assembly	14	Instrument Panel Right Outlet Assembly
6	Glove Box Body Assembly	15	Instrument Panel Right Trim Board Assembly
7	Instrument Panel Right Soundproof Board Assembly	16	Central A/C Outlet Assembly

8	Drive Side Soundproof Board	17	Warning Light Switch
9	Center Lower Protector Body		

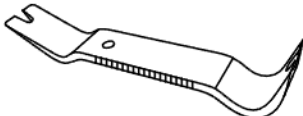


F300201

1	Instrument Panel Assembly	3	Instrument Panel Crossmember Assembly
2	Front Passenger Airbag Assembly		

50.3 On-vehicle Service

1 Tools

Tool Name	Tool Drawing
Interior Crow Plate	 S00020

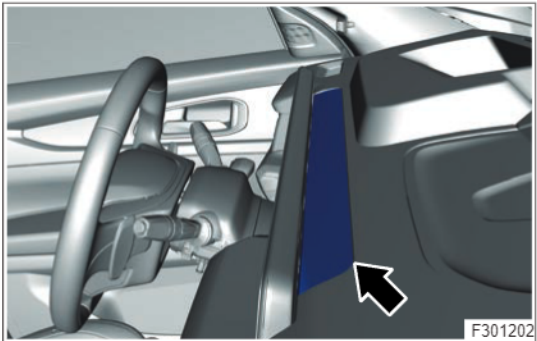
2 Replacement of Instrument Panel

2.1 Removal

 **Caution**

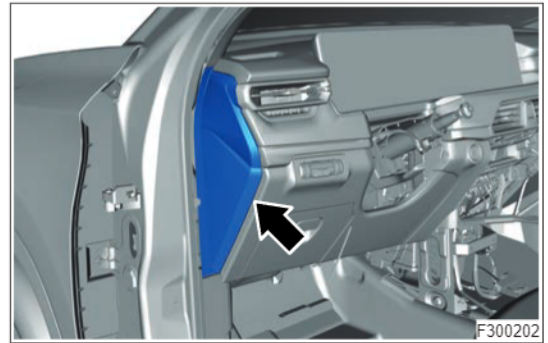
- **Be sure to wear safety equipment to prevent accidents, when removing instrument panel.**
- **Appropriate force should be applied, when removing instrument panel. Be careful not to operate roughly.**

- (1) Turn off all electrical equipment and ENGINE START STOP switch.
- (2) Disconnect the negative battery cable.
- (3) Remove the auxiliary fascia console assembly.
- (4) Remove the steering wheel assembly.
- (5) Remove the spiral cable assembly.
- (6) Remove the instrument cluster plug (behind dual displays).



- (7) Remove the dual LCD.
- (8) Remove the A-pillar upper protector assembly.

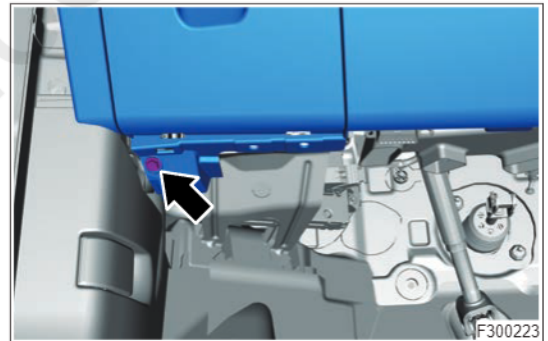
- (9) Using an interior crow plate, remove the instrument panel left end panel assembly.



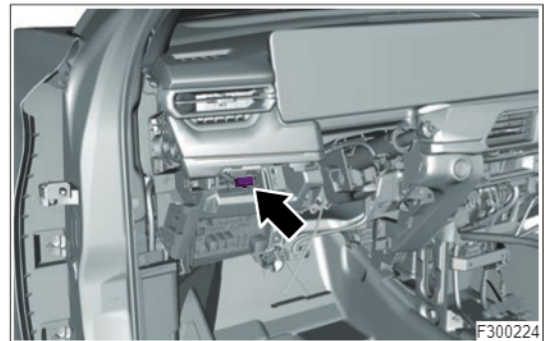
- (10) Remove 2 fixing screws from instrument panel lower left protector assembly.



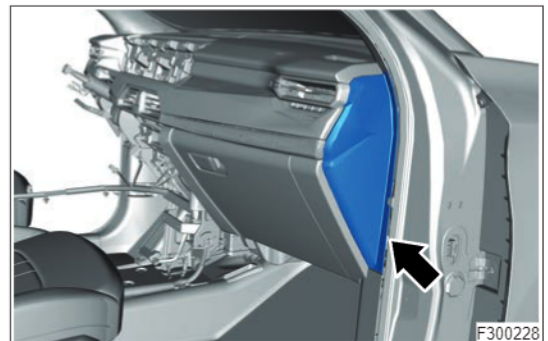
- (11) Remove fixing bolt from lower side of instrument panel lower left protector assembly.



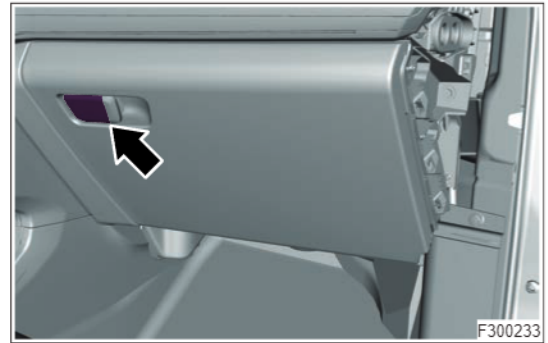
- (12) Using an interior crow plate, remove instrument panel left lower protector assembly, and disconnect headlight leveling switch connector.



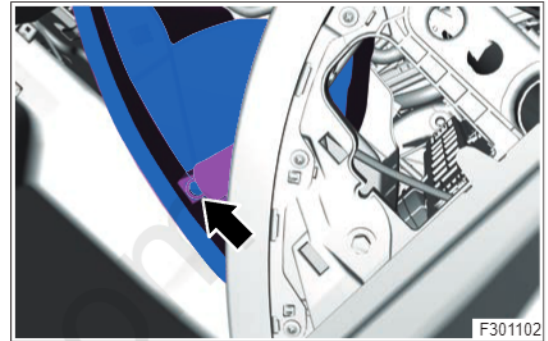
- (13) Using an interior crow plate, remove the instrument panel right end panel assembly.



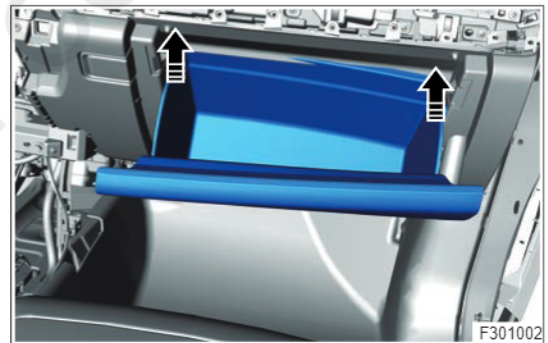
(14) Press glove box lock button to open glove box.



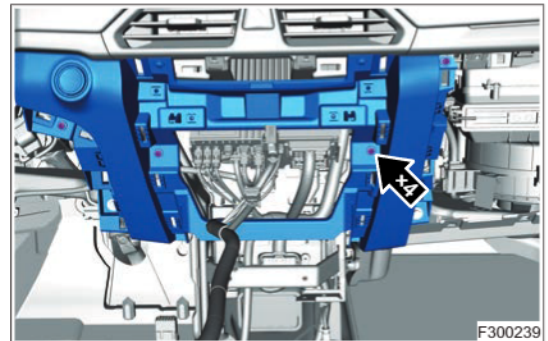
(15) Disengage fixing clip of air damper from glove box to remove glove box assembly.



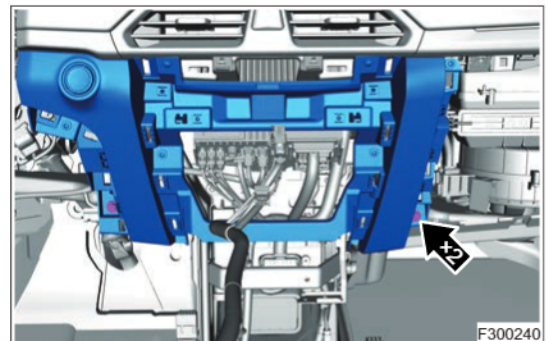
(16) Pull upward in direction of arrow to remove glove box.



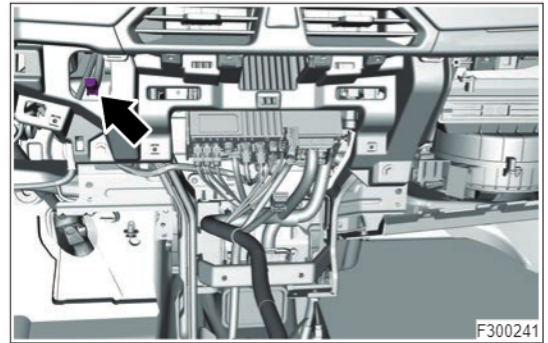
(17) Remove 4 fixing screws from center lower protector body.



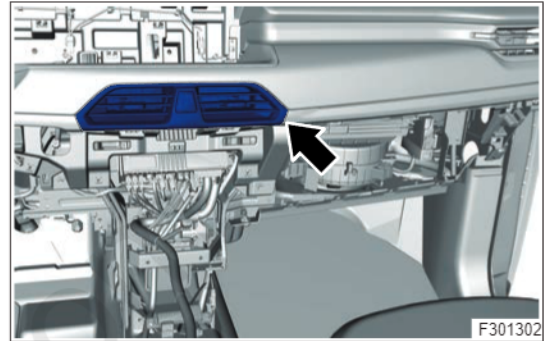
(18) Remove 2 fixing bolts from center lower protector body.



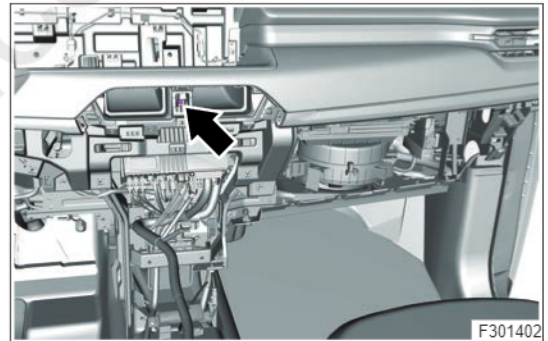
- (19) Using an interior crow plate, remove center lower protector body, and disconnect ENGINE START STOP switch connector.



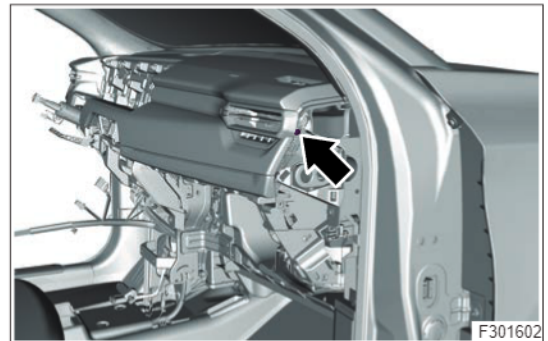
- (20) Using an interior crow plate, pry off central A/C outlet assembly carefully.



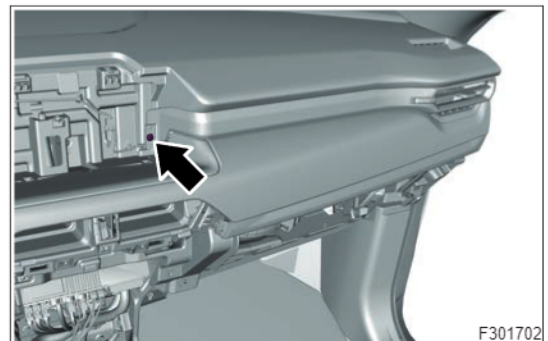
- (21) Disconnect warning light switch connector, and remove central A/C outlet assembly.



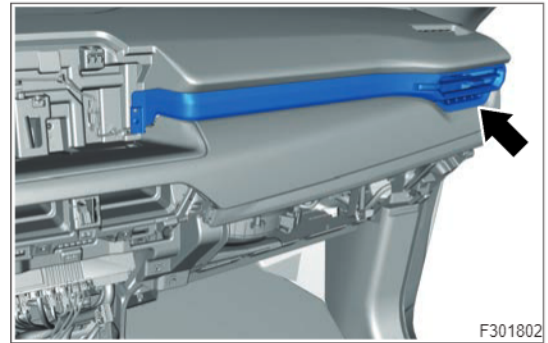
- (22) Remove 1 fixing screw from instrument panel right outlet assembly.



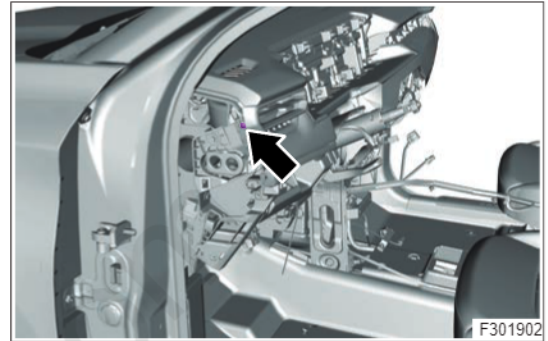
- (23) Remove 1 fixing screw from instrument panel right outlet assembly.



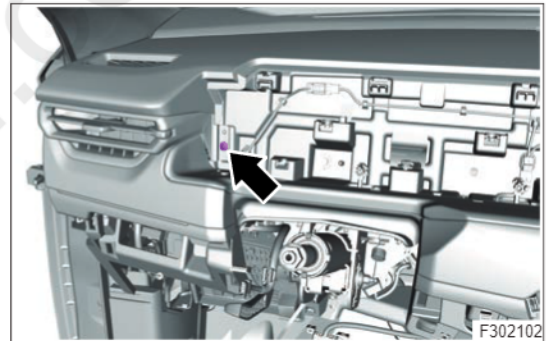
- (24) Using an interior crow plate, pry off instrument panel right outlet assembly carefully.



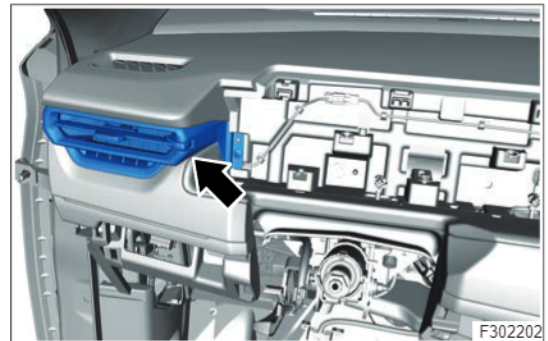
- (25) Remove 1 fixing screw from instrument panel left outlet assembly.



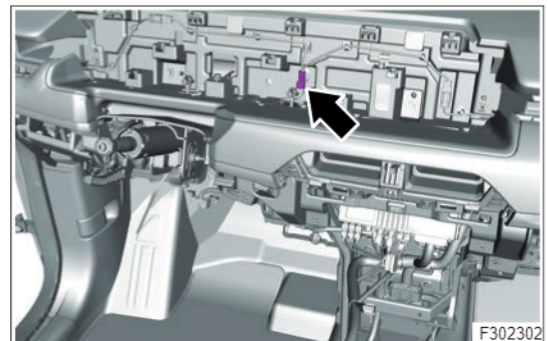
- (26) Remove 1 fixing screw from instrument panel left outlet assembly.



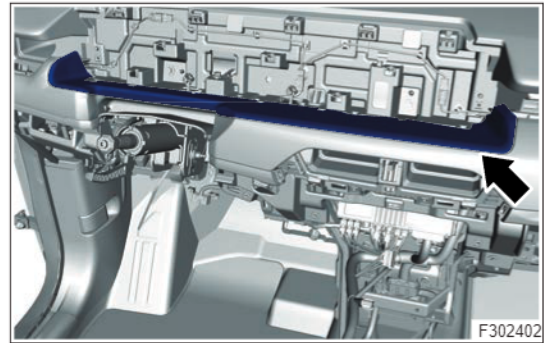
- (27) Using an interior crow plate, pry off instrument panel left outlet assembly carefully.



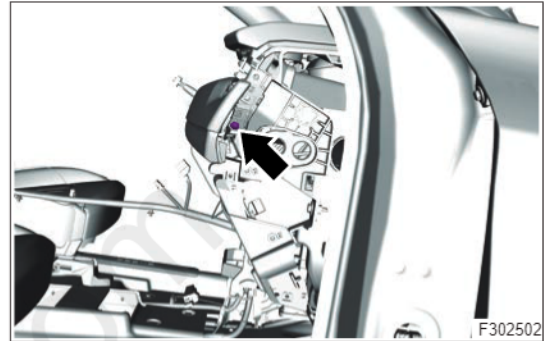
- (28) Disconnect the ambient light connector.



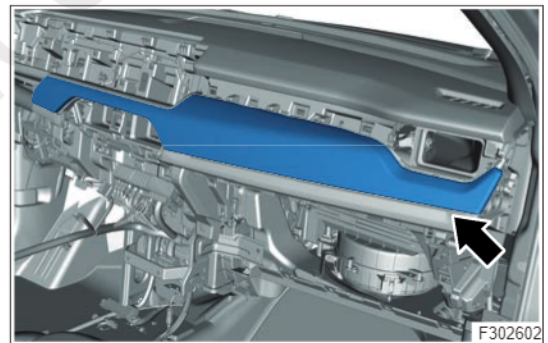
(29) Remove the large display lower finish panel.



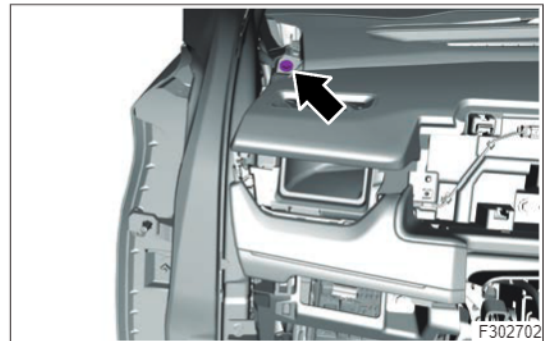
(30) Remove 1 fixing screw from instrument panel right trim board assembly.



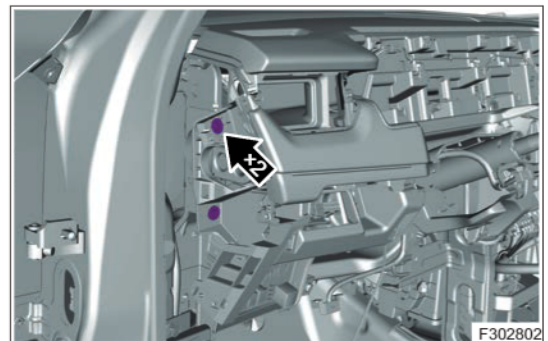
(31) Using an interior crow plate, pry off instrument panel right trim board assembly carefully.



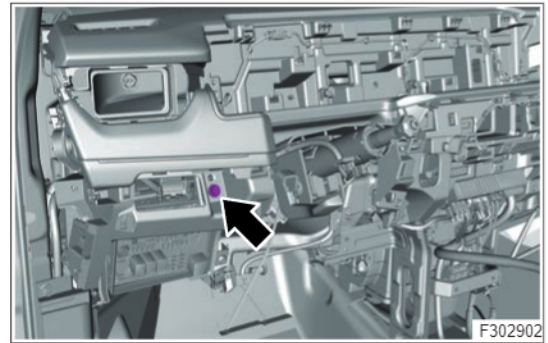
(32) Remove 1 fixing bolt from rear side of left A-pillar upper protector.



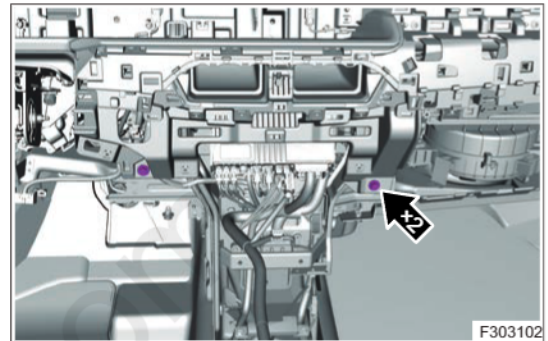
(33) Remove 2 fixing bolts from left side of instrument panel assembly.



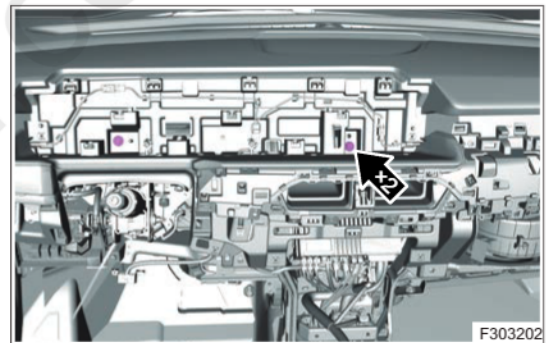
- (34) Remove 1 fixing bolt from left side of instrument panel assembly.



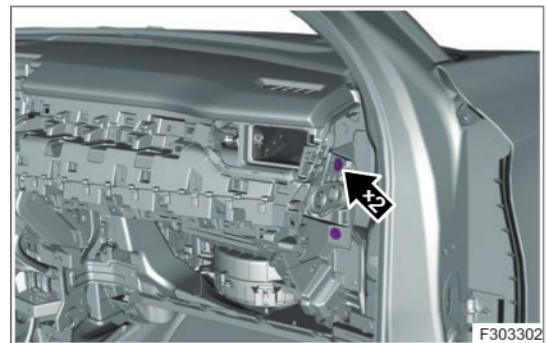
- (35) Remove 2 fixing bolts from middle of instrument panel assembly.



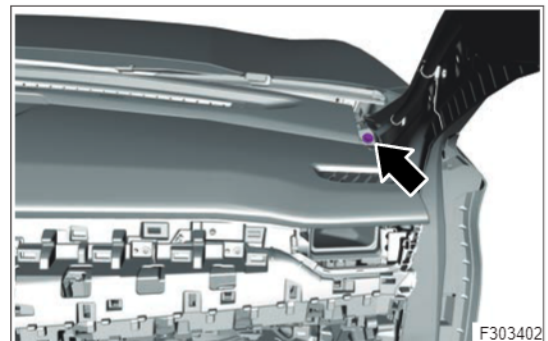
- (36) Remove 2 fixing bolts from rear side of instrument panel assembly.



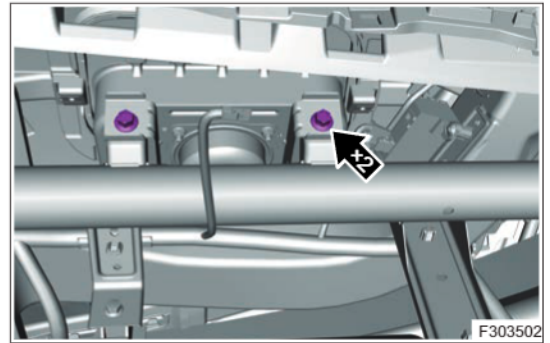
- (37) Remove 2 fixing bolts from right side of instrument panel assembly.



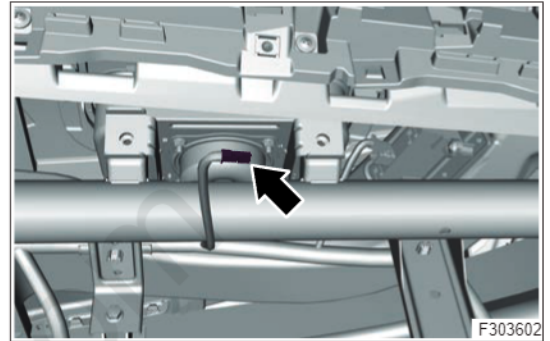
- (38) Remove 1 fixing bolt from rear side of right A-pillar upper protector.



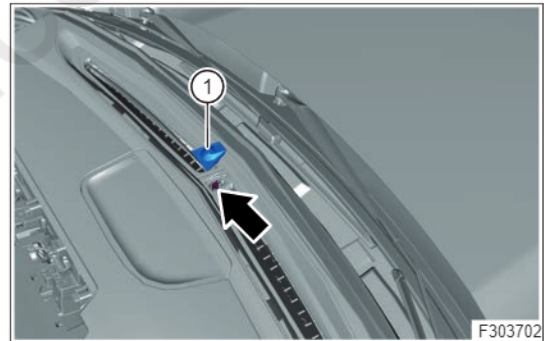
- (39) Remove 2 fixing bolts between passenger side airbag and crossmember.



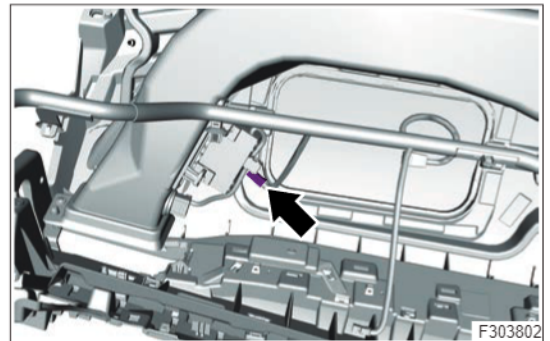
- (40) Disconnect the passenger side airbag connector.



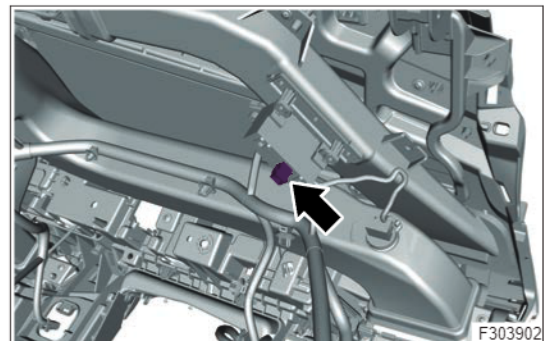
- (41) Using an interior crow plate, pry off solar sensor (1), and disconnect solar sensor connector.



- (42) Disconnect the right negative ion generator connector.



- (43) Disconnect the left negative ion generator connector.



- (44) Remove wire harness clip from instrument panel and instrument panel assembly.

2.2 Installation

Caution

- **Be sure to wear safety equipment to prevent accidents, when installing instrument panel assembly.**
- **Appropriate force should be applied, when installing instrument panel assembly. Be careful not to operate roughly.**
- **DO NOT scratch interior and body paint, when installing instrument panel assembly.**

- (1) Install instrument panel assembly to a proper position of instrument panel crossmember, arrange instrument panel wire harness, and install instrument panel wire harness clip.
- (2) Connect left and right negative ion generator connectors.
- (3) Connect solar sensor connector, and install solar sensor (1).
- (4) Connect the passenger side airbag connector.
- (5) Install 2 fixing bolts between passenger side airbag and crossmember.
- (6) Install 1 fixing bolt on the rear side of right A-pillar upper protector.
Torque: 7 ± 1 N·m
- (7) Install 2 fixing bolts on the right side of instrument panel assembly.
Torque: 7 ± 1 N·m
- (8) Install 2 fixing bolts on the rear side of instrument panel assembly.
Torque: 7 ± 1 N·m
- (9) Install 2 fixing bolts on the center of instrument panel assembly.
Torque: 7 ± 1 N·m
- (10) Install 1 fixing bolt on the left side of instrument panel assembly.
Torque: 7 ± 1 N·m
- (11) Install 2 fixing bolts on the left side of instrument panel assembly.
Torque: 7 ± 1 N·m
- (12) Install 1 fixing bolt on the rear side of left A-pillar upper protector.
Torque: 7 ± 1 N·m
- (13) Install instrument panel right trim board assembly and 1 fixing screw.
- (14) Install the large display lower finish panel.
- (15) Connect the ambient light connector.
- (16) Install instrument panel left outlet assembly.
- (17) Install 2 fixing screws to instrument panel left outlet assembly.
- (18) Install the instrument panel right outlet assembly.
- (19) Install 2 fixing screws to instrument panel right outlet assembly.
- (20) Install central A/C outlet assembly, and connect warning light switch connector.
- (21) Install center lower protector body, and connect ENGINE START STOP switch connector.
- (22) Install 2 fixing bolts to center lower protector body.
- (23) Install 4 fixing screws to center lower protector body.
- (24) Install glove box and glove box air damper.
- (25) Install the instrument panel right end panel assembly.
- (26) Install instrument panel left lower protector assembly, and connect headlight leveling switch connector.
- (27) Install fixing screw on the lower side of instrument panel left lower protector assembly.
- (28) Install 2 fixing screws to instrument panel left lower protector assembly.
- (29) Install the instrument panel left end panel assembly.
- (30) Install the A-pillar upper protector assembly.
- (31) Install the dual LCD.

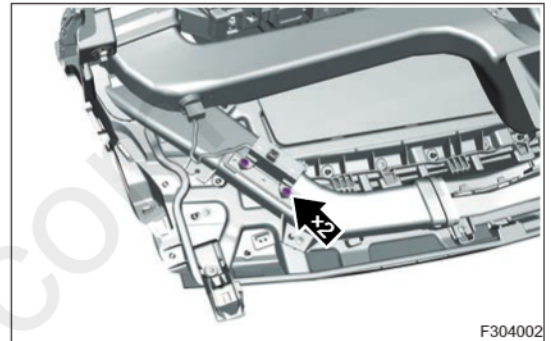
- (32) Install the instrument cluster block cover.
- (33) Install the spiral cable assembly.
- (34) Install the steering wheel assembly.
- (35) Install the auxiliary fascia console assembly.
- (36) Connect the negative battery cable.

2.3 Disassembly

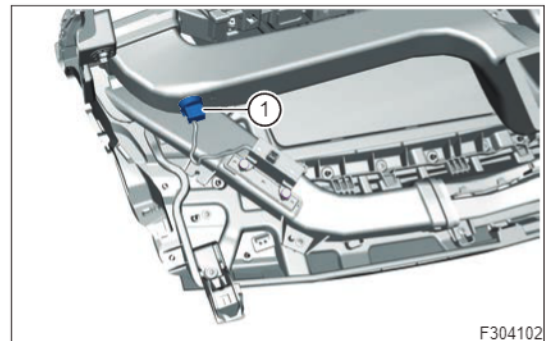
Caution

- **Be sure to wear safety equipment to prevent accidents, when disassembling instrument panel.**
- **Appropriate force should be applied, when disassembling instrument panel. Be careful not to operate roughly.**

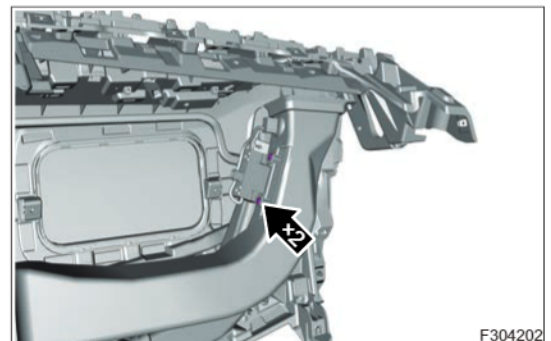
- (1) Remove 2 fixing screws from left negative ion generator.



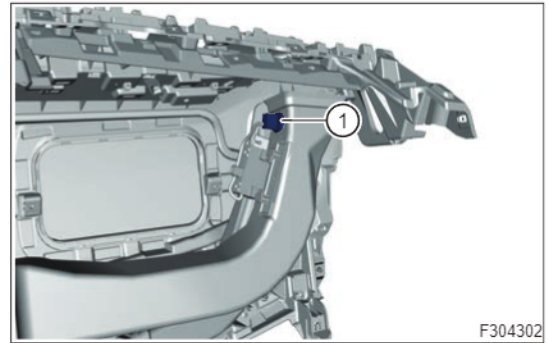
- (2) Rotate and remove negative ion generator emitter (1) from air duct.



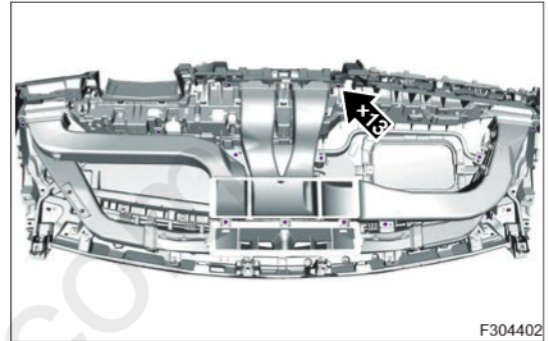
- (3) Remove the left negative ion generator.
- (4) Remove 2 fixing screws from right negative ion generator.



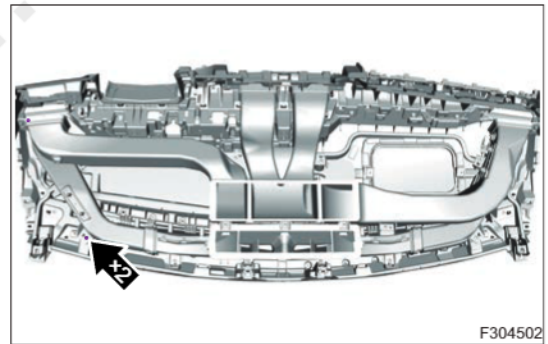
- (5) Rotate and remove negative ion generator emitter (1) from air duct.



- (6) Remove the right negative ion generator.
 (7) Remove 13 fixing screws from central air duct.



- (8) Remove the central air duct.
 (9) Remove 2 fixing screws from left defroster duct.



- (10) Remove the left defroster duct (the right side is same as left side).
 (11) Disengage 9 fixing clips from front passenger airbag assembly.
 (12) Remove the front passenger airbag assembly.

2.4 Assembly

Caution

- Be sure to wear safety equipment to prevent accidents, when assembling instrument panel assembly.
- Appropriate force should be applied, when assembling instrument panel assembly. Be careful not to operate roughly.

- (1) Install the front passenger airbag assembly.
 (2) Install 2 fixing screws and left defroster duct.
 (3) Install the right defroster duct (the right side is same as left side).
 (4) Install 13 fixing screws and central air duct.
 (5) Install the right negative ion generator.
 (6) Install the negative ion generator emitter (1).

- (7) Install 2 fixing screws to right negative ion generator.
- (8) Install the left negative ion generator.
- (9) Install the negative ion generator emitter (1).
- (10) Install 2 fixing screws to left negative ion generator.

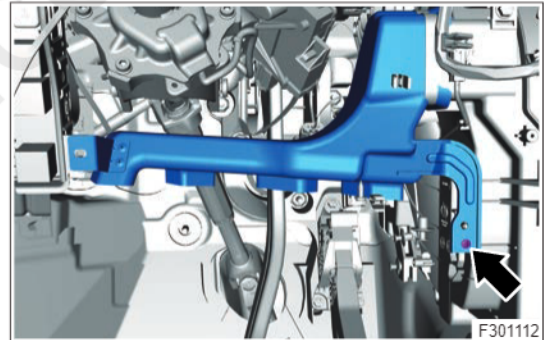
3 Replacement of A/C to Instrument Panel Left A/C Outlet Pipe Assembly

3.1 Removal

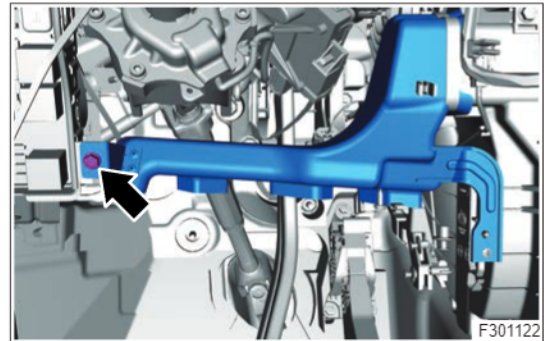
Caution

- **Be sure to wear safety equipment to prevent accidents, when removing A/C to instrument panel left A/C outlet pipe assembly.**
- **Appropriate force should be applied, when removing A/C to instrument panel left A/C outlet pipe assembly. Be careful not to operate roughly.**

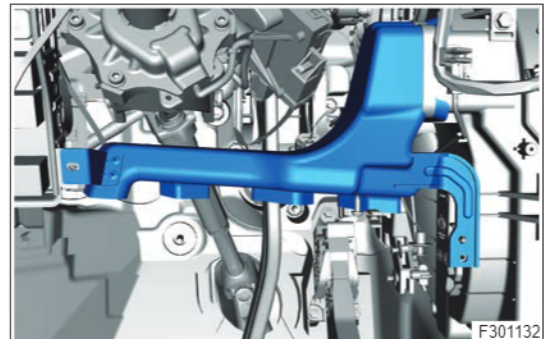
- (1) Turn off all electrical equipment and ENGINE START STOP switch.
- (2) Disconnect the negative battery cable.
- (3) Remove the instrument panel left soundproof board assembly.
- (4) Remove the left lower protector assembly.
- (5) Remove 1 fixing screw from A/C to instrument panel left A/C outlet pipe assembly.



- (6) Remove 1 fixing bolt from A/C to instrument panel left A/C outlet pipe assembly.



- (7) Remove the A/C to instrument panel left A/C outlet pipe assembly.



3.2 Installation

Caution

- **Be sure to wear safety equipment to prevent accidents, when installing A/C to instrument panel left A/C outlet pipe assembly.**
- **Appropriate force should be applied, when installing A/C to instrument panel left A/C outlet pipe assembly. Be careful not to operate roughly.**

- (1) Install A/C to instrument panel left A/C outlet pipe assembly to a proper position on body.
- (2) Install 1 fixing bolt to A/C to instrument panel left A/C outlet pipe assembly.
Torque: $7 \pm 1 \text{ N}\cdot\text{m}$
- (3) Install 1 fixing screw to A/C to instrument panel left A/C outlet pipe assembly.
Torque: $1.5 \pm 0.2 \text{ N}\cdot\text{m}$
- (4) Install the left lower protector assembly.
- (5) Install the instrument panel left soundproof board assembly.
- (6) Connect the negative battery cable.

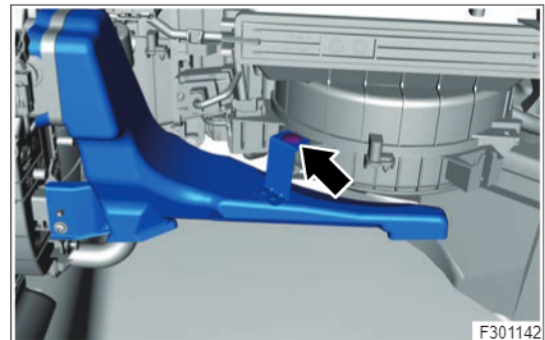
4 Replacement of A/C to Instrument Panel Right A/C Outlet Pipe Assembly

4.1 Removal

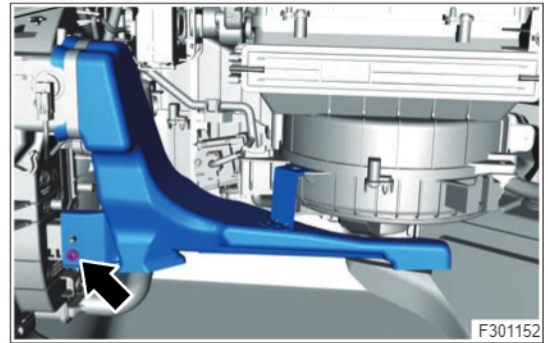
Caution

- **Be sure to wear safety equipment to prevent accidents, when removing A/C to instrument panel right A/C outlet pipe assembly.**
- **Appropriate force should be applied, when removing A/C to instrument panel right A/C outlet pipe assembly. Be careful not to operate roughly.**

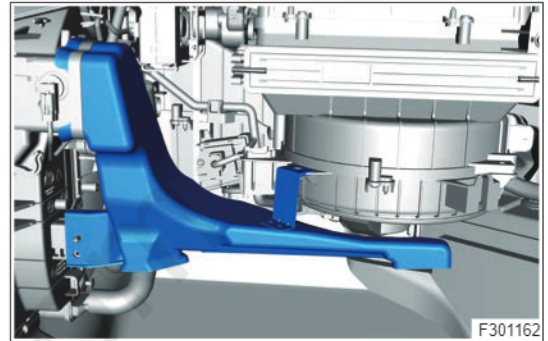
- (1) Turn off all electrical equipment and ENGINE START STOP switch.
- (2) Disconnect the negative battery cable.
- (3) Remove the instrument panel right soundproof board assembly.
- (4) Remove the glove box assembly.
- (5) Remove tree-formed fixing clip from A/C to instrument panel right A/C outlet pipe assembly.



- (6) Remove 1 fixing screw from A/C to instrument panel right A/C outlet pipe assembly.



- (7) Remove the A/C to instrument panel right A/C outlet pipe assembly.



4.2 Installation

Caution

- Be sure to wear safety equipment to prevent accidents, when installing A/C to instrument panel right A/C outlet pipe assembly.
- Appropriate force should be applied, when installing A/C to instrument panel right A/C outlet pipe assembly. Be careful not to operate roughly.

- (1) Install A/C to instrument panel right A/C outlet pipe assembly to a proper position on body.
- (2) Install 1 fixing screw to A/C to instrument panel right A/C outlet pipe assembly.
Torque: $1.5 \pm 0.2 \text{ N}\cdot\text{m}$
- (3) Install tree-formed fixing clip to A/C to instrument panel right A/C outlet pipe assembly.
- (4) Install the glove box assembly.
- (5) Install the instrument panel right soundproof board assembly.
- (6) Connect the negative battery cable.

5 Replacement of Left Front and Rear Foot Ducts

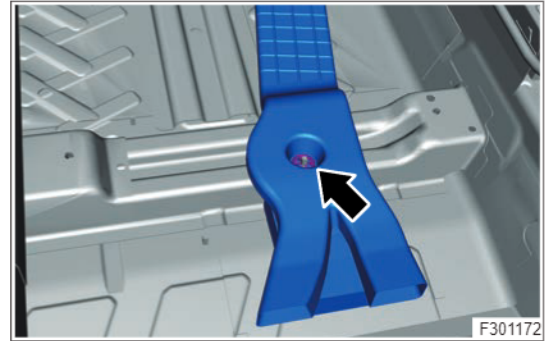
5.1 Removal

Caution

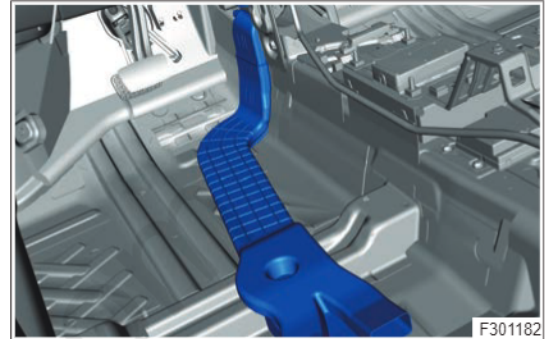
- When removing left front and rear foot ducts, be sure to wear safety equipment to prevent accidents.
- Appropriate force should be applied, when removing left front and rear foot ducts. Be careful not to operate roughly.

- (1) Turn off all electrical equipment and ENGINE START STOP switch.
- (2) Disconnect the negative battery cable.
- (3) Remove the front left seat assembly.
- (4) Remove the front carpet assembly (It is not necessary to completely remove).

- (5) Remove clamping washer from left front and rear foot ducts.



- (6) Remove the left front and rear foot ducts.



5.2 Installation

Caution

- When installing left front and rear foot ducts, be sure to wear safety equipment to prevent accidents.
- Appropriate force should be applied, when installing left front and rear foot ducts. Be careful not to operate roughly.

- (1) Install left front and rear foot ducts to a proper position on body.
- (2) Install clamping washer to left front and rear foot ducts.
- (3) Install the front carpet assembly.
- (4) Install the front left seat assembly.
- (5) Connect the negative battery cable.

6 Replacement of Right Front and Rear Foot Ducts

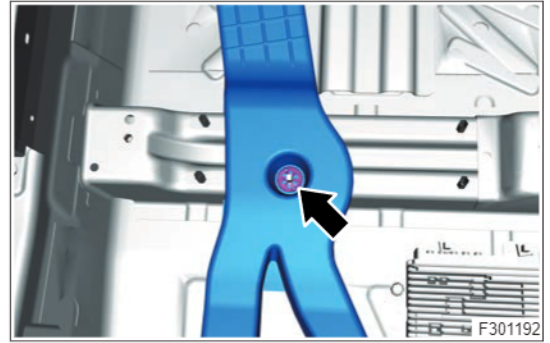
6.1 Removal

Caution

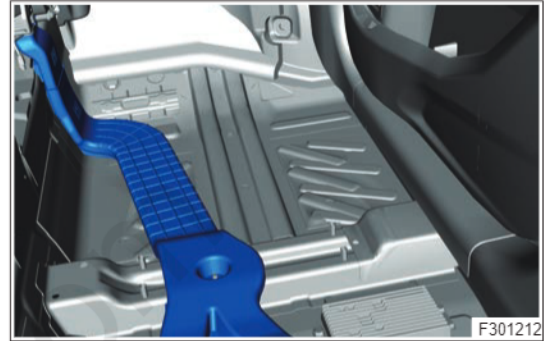
- When removing right front and rear foot ducts, be sure to wear safety equipment to prevent accidents.
- Appropriate force should be applied, when removing right front and rear foot ducts. Be careful not to operate roughly.

- (1) Turn off all electrical equipment and ENGINE START STOP switch.
- (2) Disconnect the negative battery cable.
- (3) Remove the front right seat assembly.
- (4) Remove the front carpet assembly (It is not necessary to completely remove).

- (5) Remove clamping washer from right front and rear foot ducts.



- (6) Remove the right front and rear foot ducts.



6.2 Installation

Caution

- When installing right front and rear foot ducts, be sure to wear safety equipment to prevent accidents.
- Appropriate force should be applied, when installing right front and rear foot ducts. Be careful not to operate roughly.

- (1) Install right front and rear foot ducts to a proper position on body.
- (2) Install clamping washer to right front and rear foot ducts.
- (3) Install the front carpet assembly.
- (4) Install the front right seat assembly.
- (5) Connect the negative battery cable.

7 Replacement of Instrument Panel Crossmember Assembly

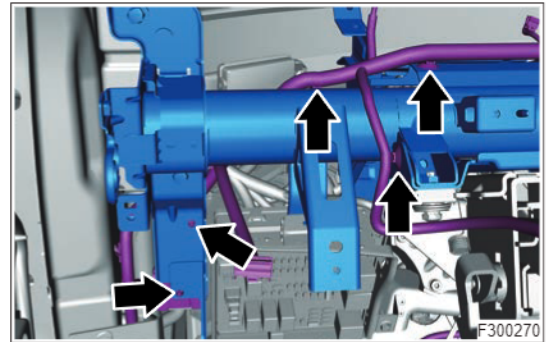
7.1 Removal

Caution

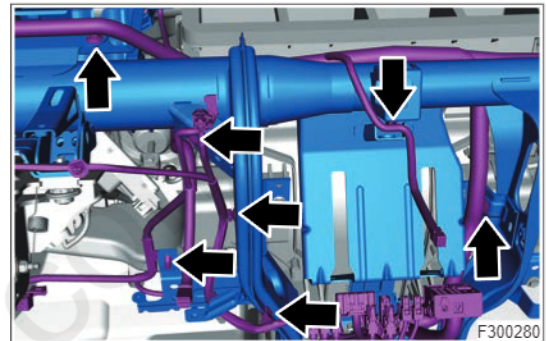
- Be sure to wear safety equipment to prevent accidents, when removing instrument panel crossmember assembly.
- Appropriate force should be applied, when removing instrument panel crossmember assembly. Be careful not to operate roughly.

- (1) Turn off all electrical equipment and ENGINE START STOP switch.
- (2) Disconnect the negative battery cable.
- (3) Remove the auxiliary fascia console assembly.
- (4) Remove the instrument panel assembly.
- (5) Remove the front windshield lower trim board body.
- (6) Remove the steering column assembly.

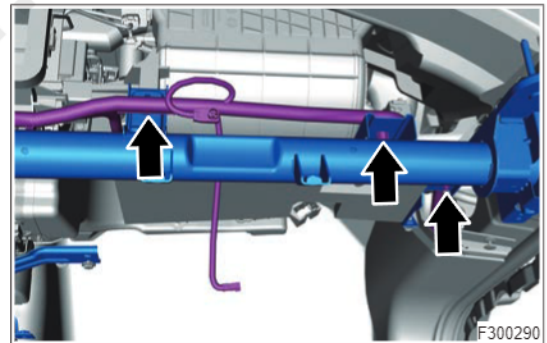
- (7) Remove the domain controller.
- (8) Remove the OBD connector.
- (9) Disengage fixing clips of instrument panel wire harness from instrument panel crossmember.



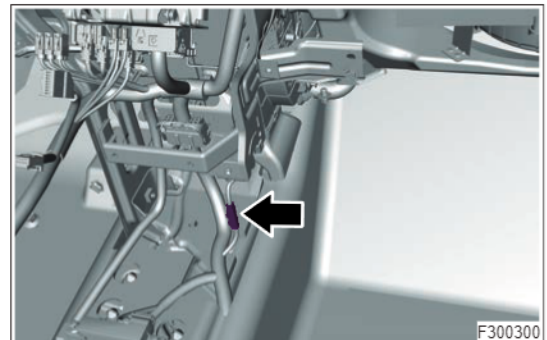
- (10) Disengage fixing clips of instrument panel wire harness from instrument panel crossmember.



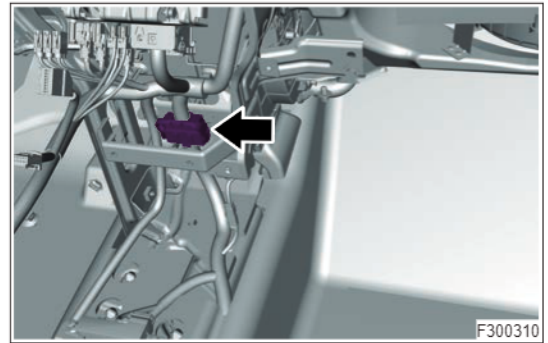
- (11) Disengage fixing clips of instrument panel wire harness from instrument panel crossmember.



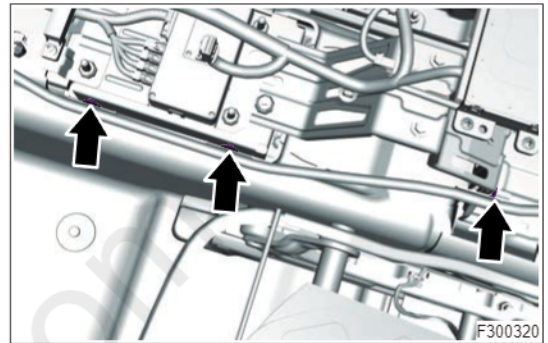
- (12) Disconnect the AM/FM/GPS connector.



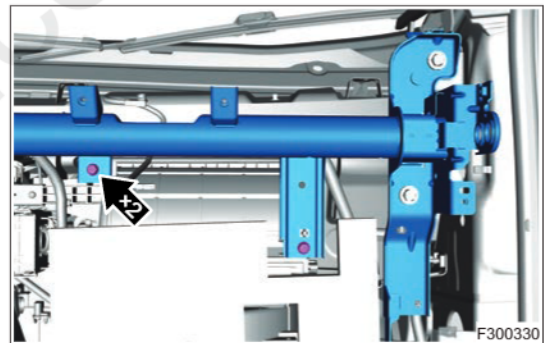
- (13) Disconnect connector between instrument cluster wire harness and central control wire harness.



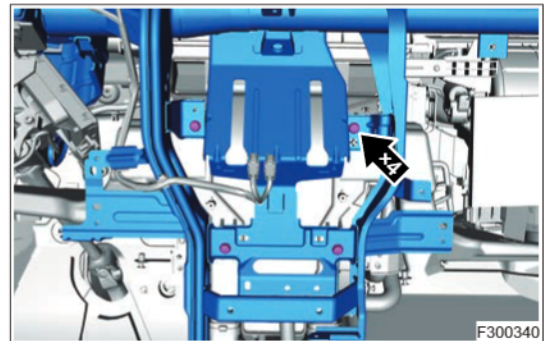
- (14) Disengage fixing clips from wire harness.



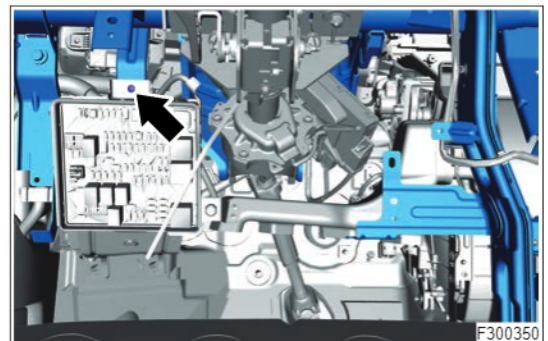
- (15) Remove 2 coupling bolts between HVAC and the right side of instrument panel crossmember.



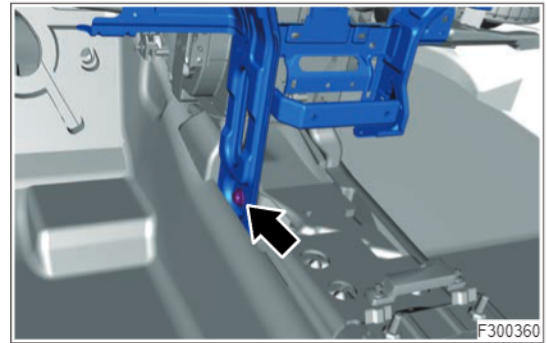
- (16) Remove 4 coupling bolts between HVAC and the middle of instrument panel crossmember.



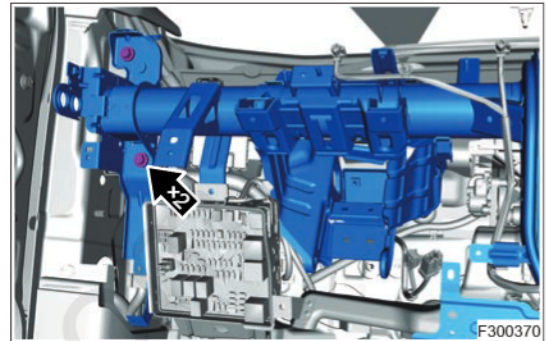
- (17) Remove 1 fixing bolt from instrument panel relay box.



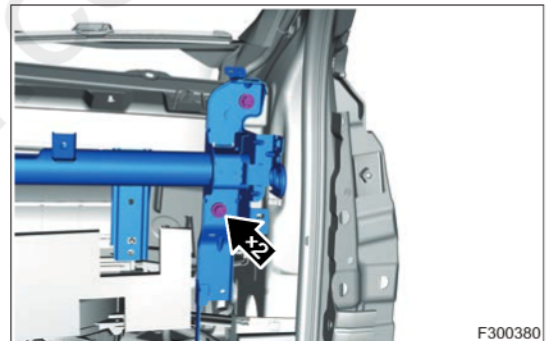
- (18) Remove 1 coupling bolt from center of instrument panel crossmember.



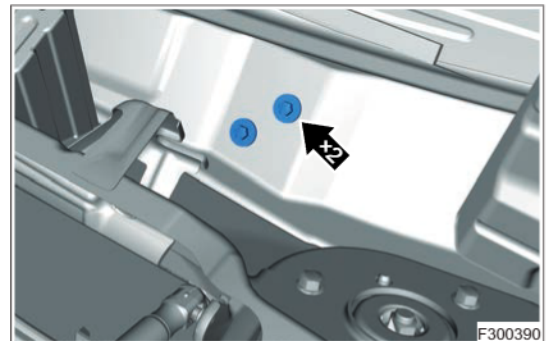
- (19) Remove 2 coupling bolts from the left side of instrument panel crossmember and body.



- (20) Remove 2 coupling bolts from the right side of instrument panel crossmember and body.



- (21) Remove 2 coupling bolts from instrument panel crossmember and cowl.



- (22) Remove the instrument panel crossmember assembly.

7.2 Installation

Caution

- **Be sure to wear safety equipment to prevent accidents, when installing instrument panel crossmember.**
- **Appropriate force should be applied, when installing instrument panel crossmember. Be careful not to operate roughly.**

- (1) Install instrument panel crossmember to a proper position on body.

- (2) Install 2 coupling bolts between instrument panel crossmember and cowl (13# socket wrench).
Torque: $23 \pm 2 \text{ N}\cdot\text{m}$
- (3) Install 2 coupling bolts between the right side of instrument panel crossmember and body (13# socket wrench).
Torque: $23 \pm 2 \text{ N}\cdot\text{m}$
- (4) Install 2 coupling bolts between the left side of instrument panel crossmember and body (13# socket wrench).
Torque: $23 \pm 2 \text{ N}\cdot\text{m}$
- (5) Install 1 coupling bolt on the middle of instrument panel crossmember (13# socket wrench).
Torque: $23 \pm 2 \text{ N}\cdot\text{m}$
- (6) Install 1 fixing bolt to instrument panel relay box (10# socket wrench).
Torque: $5 \pm 1 \text{ N}\cdot\text{m}$
- (7) Install 4 coupling bolts between HVAC and the middle of instrument panel crossmember (10# socket wrench).
Torque: $5 \pm 1 \text{ N}\cdot\text{m}$
- (8) Install 2 coupling bolts between HVAC and the right side of instrument panel crossmember (10# socket wrench).
Torque: $5 \pm 1 \text{ N}\cdot\text{m}$
- (9) Connect connector between instrument cluster wire harness and central control wire harness.
- (10) Connect the AM/FM/GPS connector.
- (11) Install all fixing clips on instrument panel wire harness.
- (12) Install the OBD connector.
- (13) Install the domain controller.
- (14) Install the steering column assembly.
- (15) Install the front windshield lower trim board body.
- (16) Install the instrument panel assembly.
- (17) Install the auxiliary fascia console assembly.
- (18) Connect the negative battery cable.