

SECTION SR

SRS AIRBAG

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:0000000005129757

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:0000000005129758

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Turn the push-button ignition switch to ACC position.

(At this time, the steering lock will be released.)

3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.

4. Perform the necessary repair operation.

PRECAUTIONS

< PRECAUTION >

5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

A

Occupant Classification System

INFOID:000000004944159

B

Replace occupant classification system control unit and passenger front seat cushion as an assembly.

Refer to [SE-11, "Exploded View"](#).

C

Service

INFOID:000000004944160

D

- Never use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes.

E

For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pretensioner to deploy. Therefore, never work on any SRS connectors or wires until at least 3 minutes have elapsed.

F

- Diagnosis sensor unit must always be installed with their arrow marks “←” pointing towards the front of the vehicle for proper operation. Also check diagnosis sensor unit for cracks, deformities or rust before installation and replace as required.
- The spiral cable must be aligned in the neutral position since its rotations are limited. Never turn steering wheel and column after removal of steering gear.
- Handle air bag module carefully. Always place driver and front passenger air bag modules with the pad side facing upward and seat mounted front side air bag module standing with the stud bolt side facing down.
- Conduct self-diagnosis to check entire SRS for proper functioning after replacing any components.
- After air bag inflates, the instrument panel assembly should be replaced if damaged.

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PREPARATION

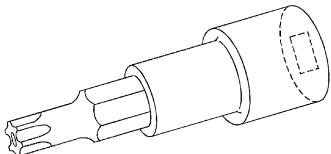
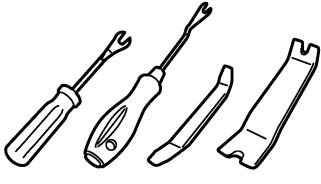
< PREPARATION >

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000004944161

Tool name	Description
Tamper resistant TORX bit  S-NT757	Removes tool of driver air bag module and/or Diagnosis sensor unit
Remover tool  JMKIA3050ZZ	Removes clips, pawls and metal clips

DRIVER AIR BAG MODULE

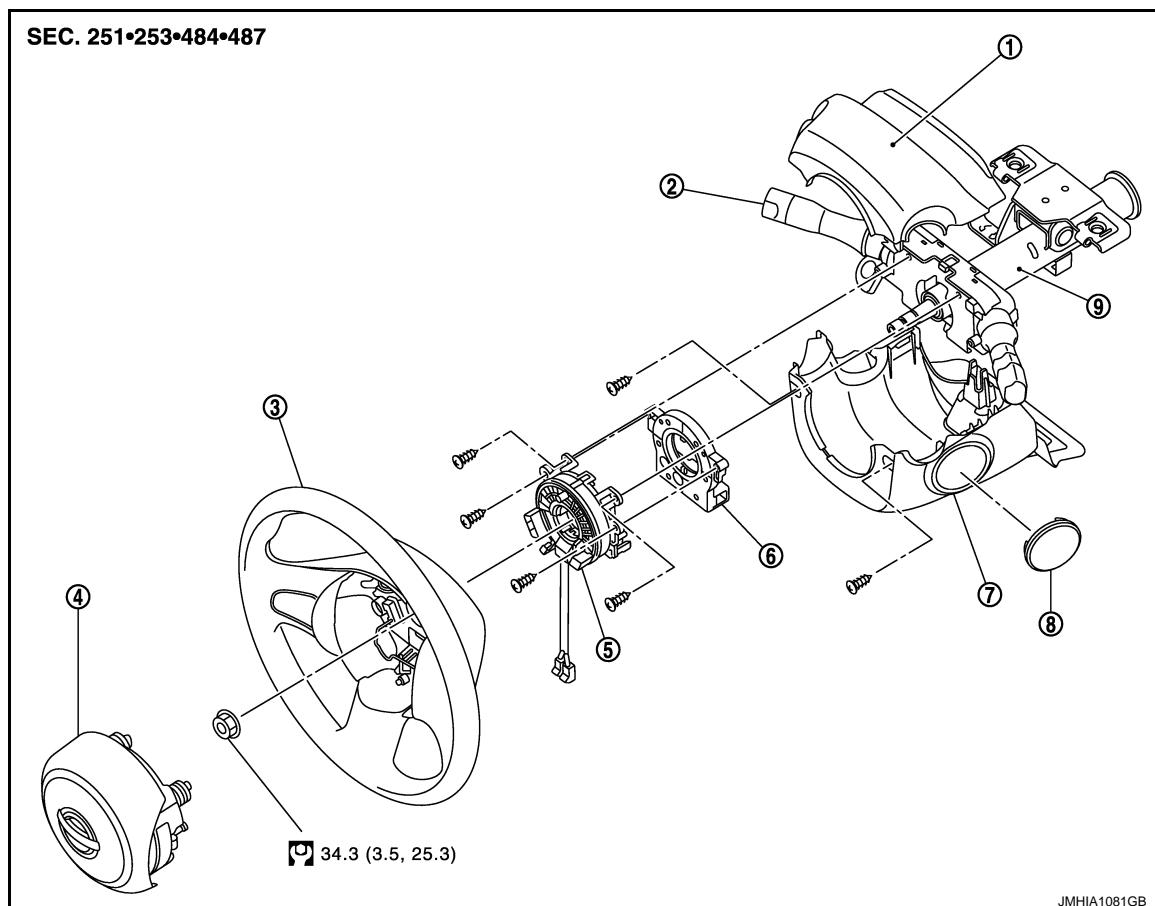
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

DRIVER AIR BAG MODULE

Exploded View

INFOID:000000004944162



1. Steering column upper cover
2. Lighting & turn signal switch
3. Steering wheel
4. Driver air bag module
5. Spiral cable
6. Steering angle sensor
7. Steering column lower cover
8. Steering lock escutcheon
9. steering column assembly

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000004944163

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Always work from the side of air bag module. Never work in front of it.
- Never use the air tools or electric tools for servicing.

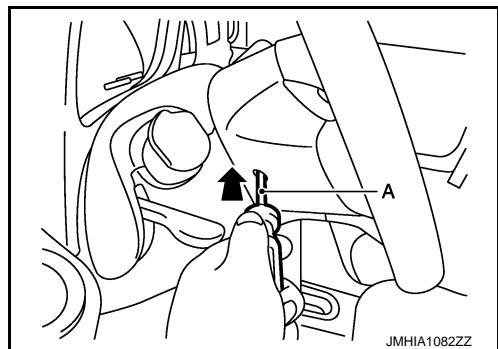
REMOVAL

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DRIVER AIR BAG MODULE

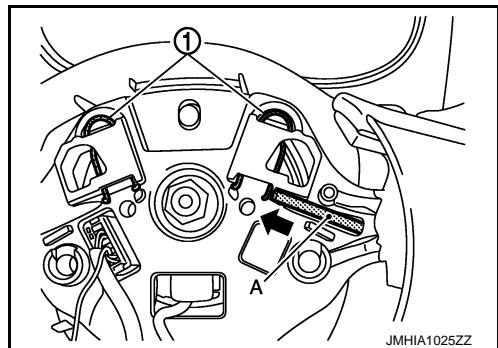
< REMOVAL AND INSTALLATION >

1. Locate retaining clip access hole (LH/RH) and insert a 5.0 mm (0.197 in) diameter, blunt-ended tool (A).



NOTE:

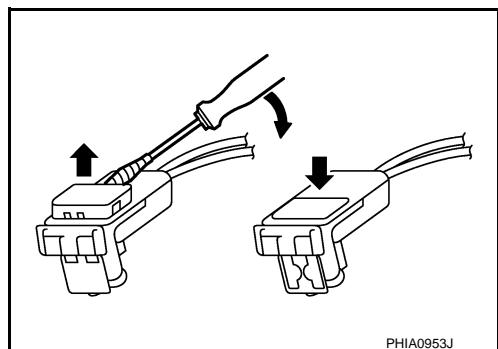
When inserting a blunt-ended tool (A), check that the tool contacts torsion spring (1). By pressing torsion spring, connection of driver air bag module is disengaged.



2. Pull out the driver air bag module assembly.
3. Disconnect the driver air bag module harness connector.

CAUTION:

- For installing/removing the driver air bag module harness connector, insert thin screwdriver wrapped in tape into notch, lift lock and remove connector.
- Install the connector with lock raised, and push lock into the connector.
- After installing the connector, check that the lock is pushed securely into it.

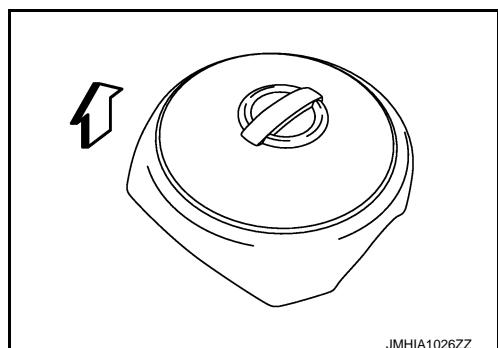


4. Remove the driver air bag module.

CAUTION:

- Always place the driver air bag module with pad side facing upward.

↑ : Upward



DRIVER AIR BAG MODULE

< REMOVAL AND INSTALLATION >

- Never impact the driver air bag module.
- Replace the driver air bag module if it has been dropped or sustained an impact.



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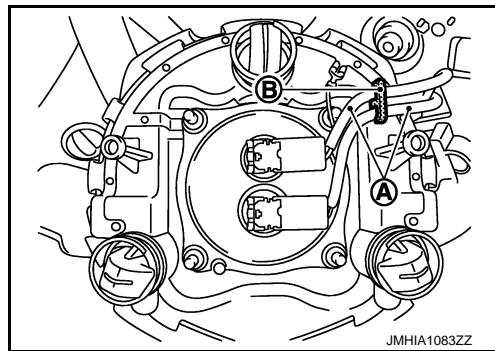
- Never insert any foreign objects (screwdriver, etc.) into the driver air bag module.
- Never disassemble the driver air bag module.
- Never expose the driver air bag module to temperatures exceeding 90 °C (194 °F).
- Never allow oil, grease, detergent, or water to come in contact with the driver air bag module.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never damage the harness while installing.
- Fix the driver air bag module harnesses (A) to the harness fixing hook (B).



JMHIA1083ZZ

- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [GI-4, "Components"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

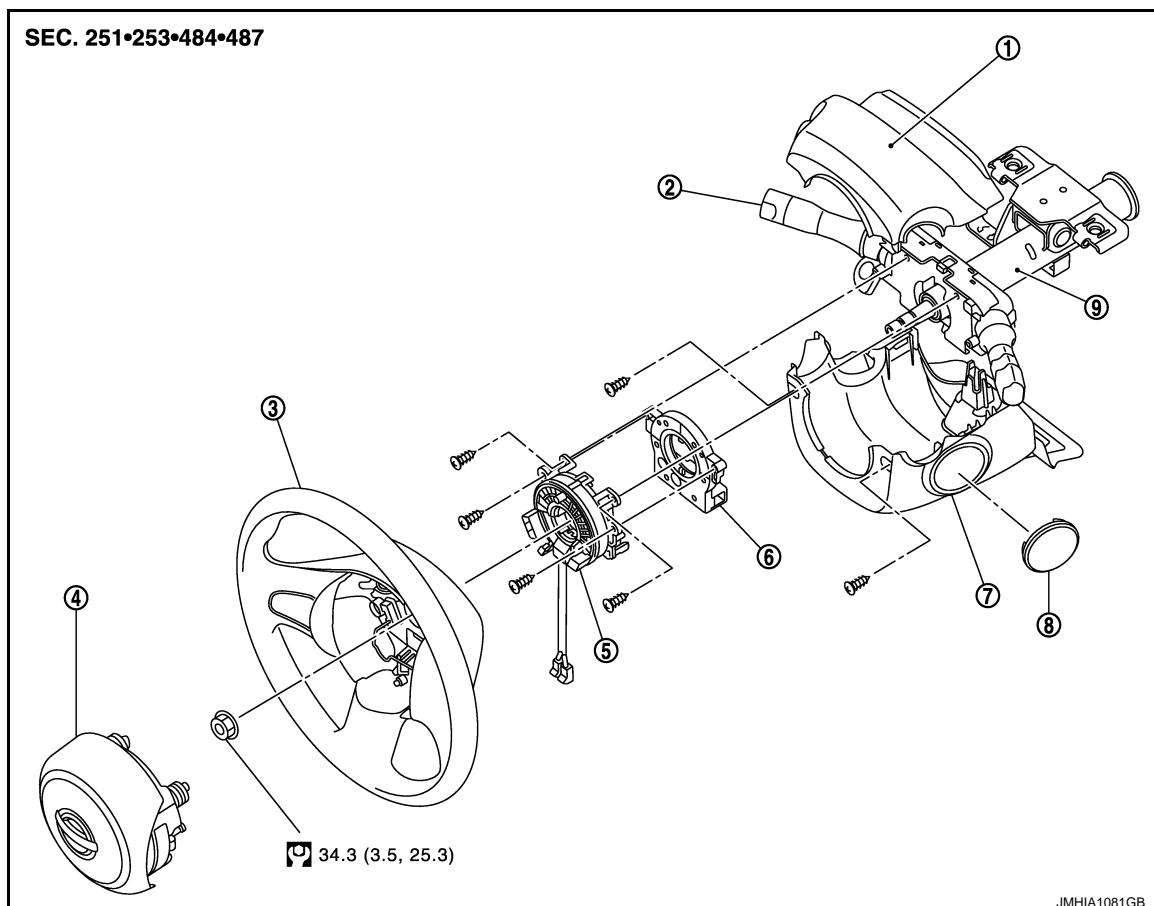
SPIRAL CABLE

< REMOVAL AND INSTALLATION >

SPIRAL CABLE

Exploded View

INFOID:000000005117433



JMHIA1081GB

1. Steering column upper cover
2. Lighting & turn signal switch
3. Steering wheel
4. Driver air bag module
5. Spiral cable
6. Steering angle sensor
7. Steering column lower cover
8. Steering lock escutcheon
9. steering column assembly

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000004944165

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Never use the air tools or electric tools for servicing.

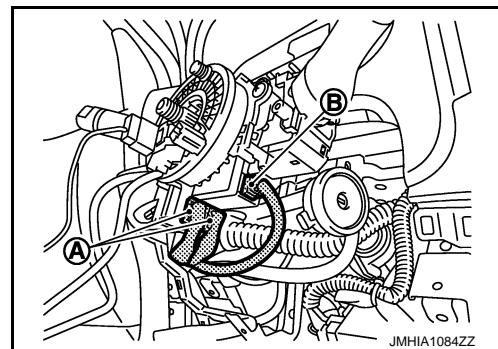
REMOVAL

1. Remove the driver air bag module. Refer to [SR-5, "Removal and Installation"](#).
2. Remove the steering wheel. Refer to [ST-9, "Removal and Installation"](#).
3. Remove the steering column cover. Refer to [IP-13, "Removal and Installation"](#).

SPIRAL CABLE

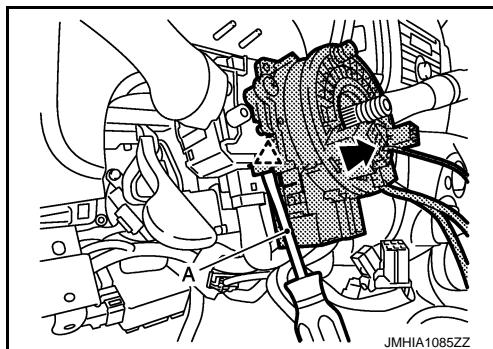
< REMOVAL AND INSTALLATION >

4. Disconnect the spiral cable body side harness connectors (A) and steering angle sensor harness connector (B).



5. Remove the spiral cable fixing screws.
6. Disengage the pawls with flat-bladed screwdriver, and then pull out forward the spiral cable and steering angle sensor.

: Pawl



CAUTION:

- Never impact the spiral cable.
- Replace the spiral cable if it has been dropped or sustained an impact.



- Never disassemble the spiral cable.
- Never apply lubricant to the spiral cable.
- Never allow oil, grease, detergent, or water to come in contact with the spiral cable.

INSTALLATION

Install in the reverse order of removal.

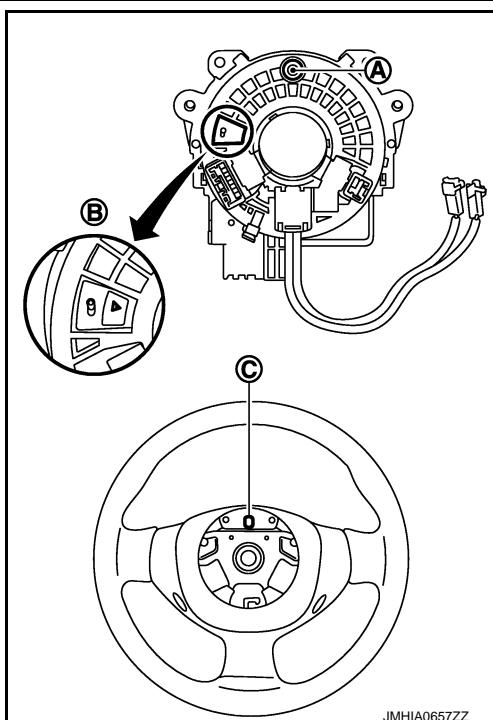
CAUTION:

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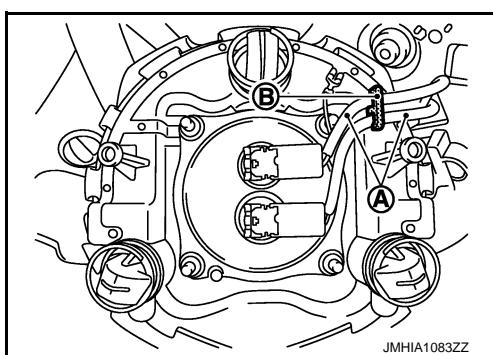
SPIRAL CABLE

< REMOVAL AND INSTALLATION >

- The spiral cable may snap during steering operation if the cable is installed in an improper position.
The neutral position is set as follows.
- Carefully turn the spiral cable clockwise to the end position. Then turn it counterclockwise (about 2 and a half turns) and stop turning at the mark (B) on which the stopper insertion holes are in the same position.
- The service part is installed in the neutral position by the stopper and can be set without adjusting after the stopper is removed.
- Never over turn the spiral cable or go beyond the number of turns required. (This will cause the cable to snap)
- Adjust the spiral cable locating pin (A) to the steering wheel locating pin hole (C).



- Fix the driver air bag module harnesses (A) to the harness fixing hook (B).



- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRC-23, "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

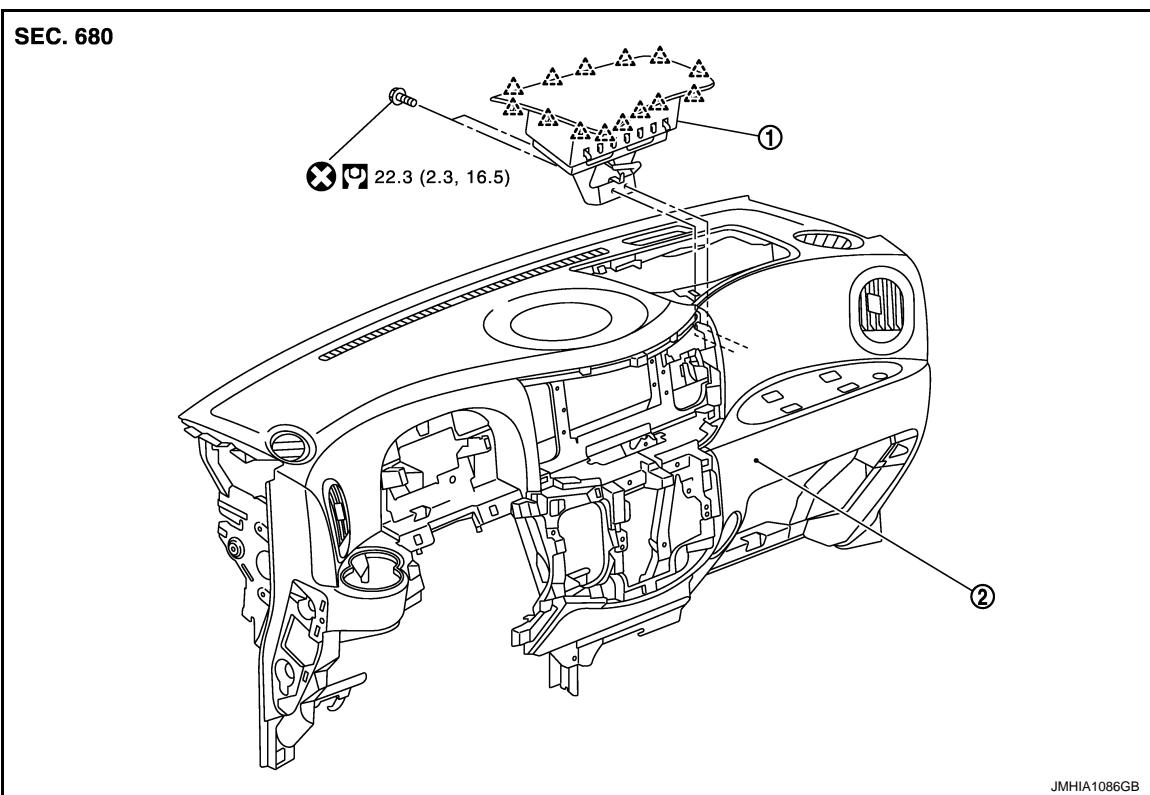
FRONT PASSENGER AIR BAG MODULE

< REMOVAL AND INSTALLATION >

FRONT PASSENGER AIR BAG MODULE

Exploded View

INFOID:0000000004944166



1. Passenger air bag module 2. Instrument panel assembly

△ : Pawl

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:0000000004944167

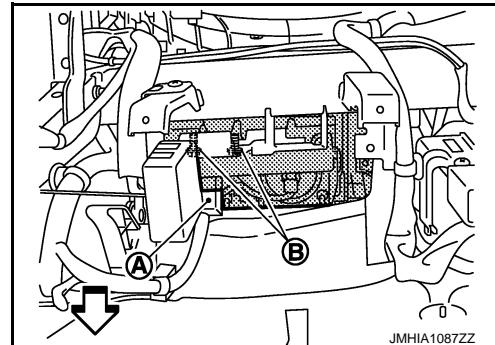
WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Always work from the side of air bag module. Never work in front of
- Never use the air tools or electric tools for servicing.

REMOVAL

1. Remove the glove box lid assembly and glove box cover assembly. Refer to [IP-13, "Removal and Installation"](#).
2. Disconnect the front passenger air bag module harness connector (A) from front passenger air bag module.
3. Remove the front passenger air bag module fixing bolts (B).

◀ : Vehicle front



FRONT PASSENGER AIR BAG MODULE

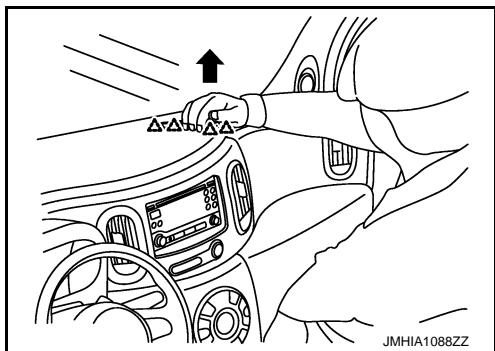
< REMOVAL AND INSTALLATION >

4. Put a hand to back of instrument panel (glove box opening), disengage connections of the passenger air bag module pawls from the inside of the vehicle toward the outside, and remove.

CAUTION:

- Never insert a remover tool between passenger air bag module and instrument panel assembly. Doing so may cause damage.
- Wear gloves.

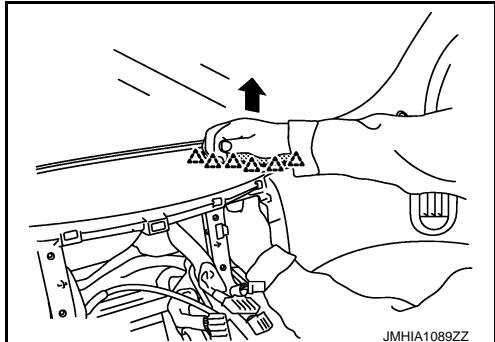
△ : Pawl



NOTE:

If the above operation is difficult, remove the cluster lid C, put a hand from center ventilator side, and disengage connections of passenger air bag module pawls. Refer to [IP-13, "Removal and Installation".](#)

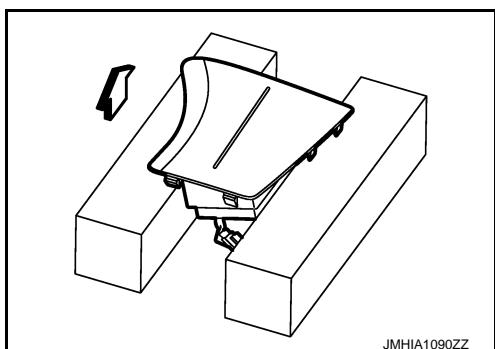
△ : Pawl



CAUTION:

- Always place the front passenger air bag module with pad side facing upward.

↑ : Upward



- Never impact the front passenger air bag module.
- Replace the front passenger air bag module if it has been dropped or sustained an impact.



- Never insert any foreign objects (screwdriver, etc.) into the front passenger air bag module.
- Never disassemble the front passenger air bag module.
- Never expose the front passenger air bag module to temperatures exceeding 90 °C (194 °F).
- Never allow oil, grease, detergent, or water to come in contact with the front passenger air bag module.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

FRONT PASSENGER AIR BAG MODULE

< REMOVAL AND INSTALLATION >

- Never use the old fixing bolts after removal, replace with the new bolts.
- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRC-23. "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

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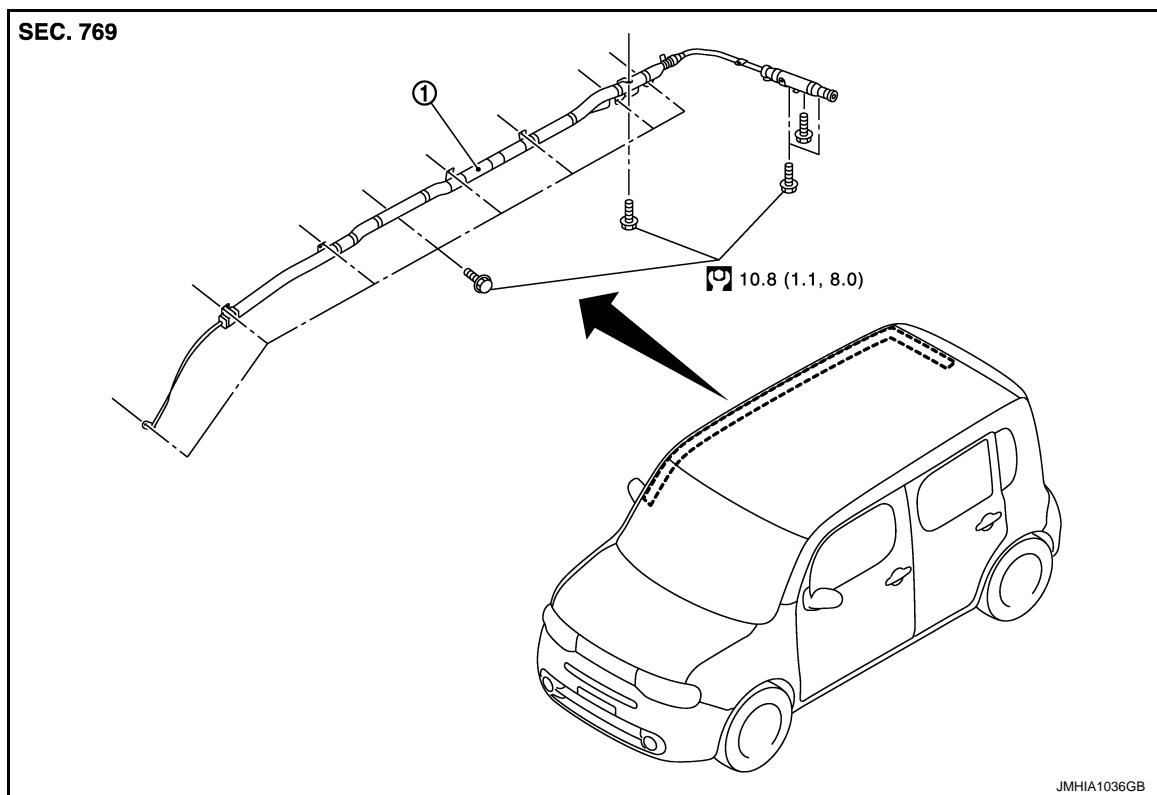
SIDE CURTAIN AIR BAG MODULE

< REMOVAL AND INSTALLATION >

SIDE CURTAIN AIR BAG MODULE

Exploded View

INFOID:0000000004944168



1. Side curtain air bag

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

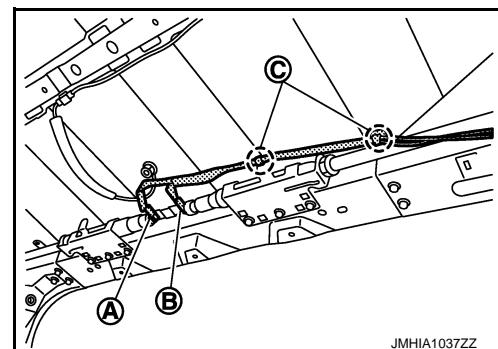
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WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Always work from the side of curtain air bag module. Never work in front of it.
- Never use the air tools or electric tools for servicing.

REMOVAL

1. Remove the headlining. Refer to [INT-20, "Exploded View"](#).
2. Disconnect harness connector (A) when removing the curtain air bag module RH.
3. Disconnect harness connector (B) and disengage harness clips (C) when removing the curtain air bag module LH.

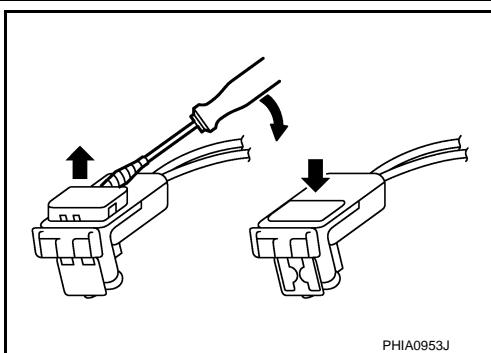


CAUTION:

SIDE CURTAIN AIR BAG MODULE

< REMOVAL AND INSTALLATION >

- For installing/removing the side curtain air bag module harness connector, insert thin screwdriver wrapped in tape into notch, lift lock and remove the connector.
- Install the connector with lock raised, and push lock into the connector.
- After installing the connector, check that the lock is pushed securely into it.



4. Remove the fixing bolts, and then remove the side curtain air bag module.

CAUTION:

- Never impact the side curtain air bag module.
- Replace the side curtain air bag module if it has been dropped or sustained an impact.



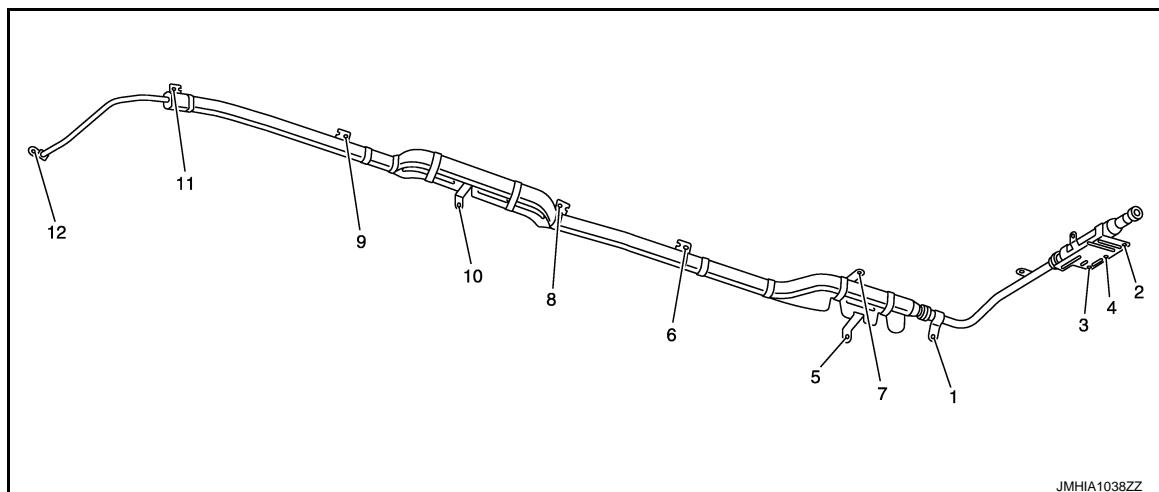
- Never insert any foreign objects (screwdriver, etc.) into the side curtain air bag module.
- Never disassemble the side curtain air bag module.
- Never expose the side curtain air bag module to temperatures exceeding 90 °C (194 °F).
- Never allow oil, grease, detergent, or water to come in contact with the side curtain air bag module.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- When installing, always be careful not to drop curtain air bag module and install mounting bolts according to the order as shown in the figure.



- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRC-23, "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

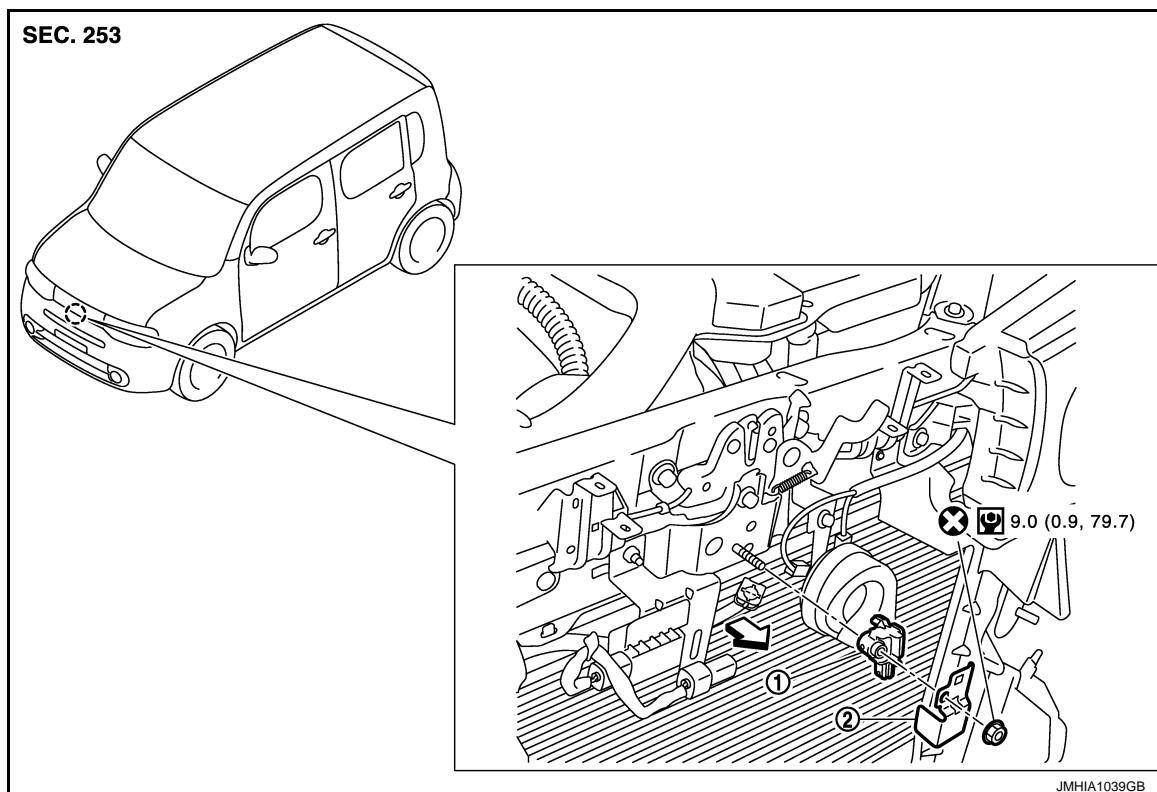
CRASH ZONE SENSOR

< REMOVAL AND INSTALLATION >

CRASH ZONE SENSOR

Exploded View

INFOID:0000000004944170



1. Crash zone sensor 2. Bracket

↖ : Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

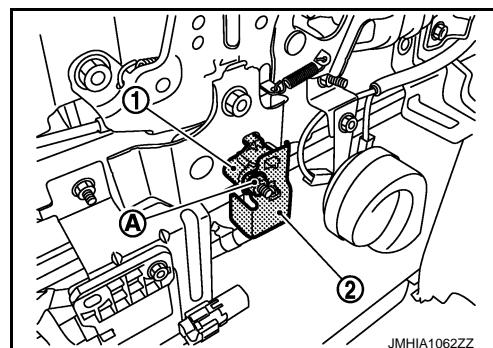
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WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Never use the air tools or electric tools for servicing.

REMOVAL

1. Remove the front bumper fascia. Refer to [EXT-12, "Exploded View"](#).
2. Remove the fixing nut (A), and pull back crash zone sensor (1) and bracket (2).



3. Disconnect the crash zone sensor harness connector.

CAUTION:

CRASH ZONE SENSOR

< REMOVAL AND INSTALLATION >

- Never impact the crash zone sensor.
- Replace the crash zone sensor if it has been dropped or sustained an impact.



- Replace the crash zone sensor of deployed SRS driver air bag and deployed SRS front passenger air bag.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never use the old fixing nut after removal, replace with the new nut.
- Never damage the harness while installing.
- Always install normally aligning to the cutout hole, because performance of the crash zone sensor excessively fluctuates according to the installation position.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRC-23. "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

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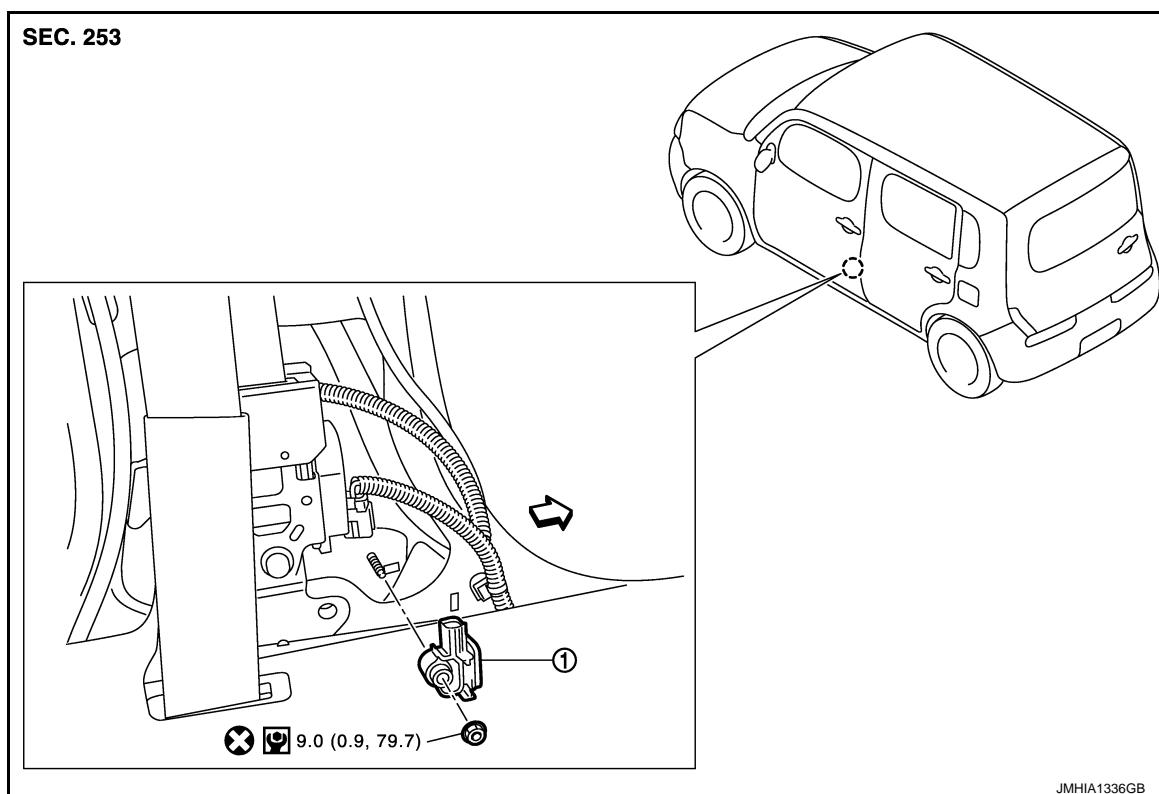
SIDE AIR BAG (SATELLITE) SENSOR

< REMOVAL AND INSTALLATION >

SIDE AIR BAG (SATELLITE) SENSOR

Exploded View

INFOID:0000000004944172



1. Satellite sensor

⇨ : Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:0000000004944173

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Never use the air tools or electric tools for servicing.

REMOVAL

1. Remove the center pillar lower garnish. Refer to [INT-15, "Exploded View"](#).
2. Remove the side air bag (satellite) sensor fixing nut.
3. Disconnect the harness connector and then remove the side air bag (satellite) sensor.

CAUTION:

- Never impact the side air bag (satellite) sensor.
- Replace the side air bag (satellite) sensor if it has been dropped or sustained an impact.



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SIDE AIR BAG (SATELLITE) SENSOR

< REMOVAL AND INSTALLATION >

- Replace the side air bag (satellite) sensor of deployed SRS front side air bag module and deployed SRS side curtain air bag module.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never use the old fixing nut after removal, replace with the new nut.
- Never damage the harness while installing.
- Always install normally aligning to the cutout hole, because performance of the side air bag (satellite) sensor excessively fluctuates according to the installation position.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRC-23, "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

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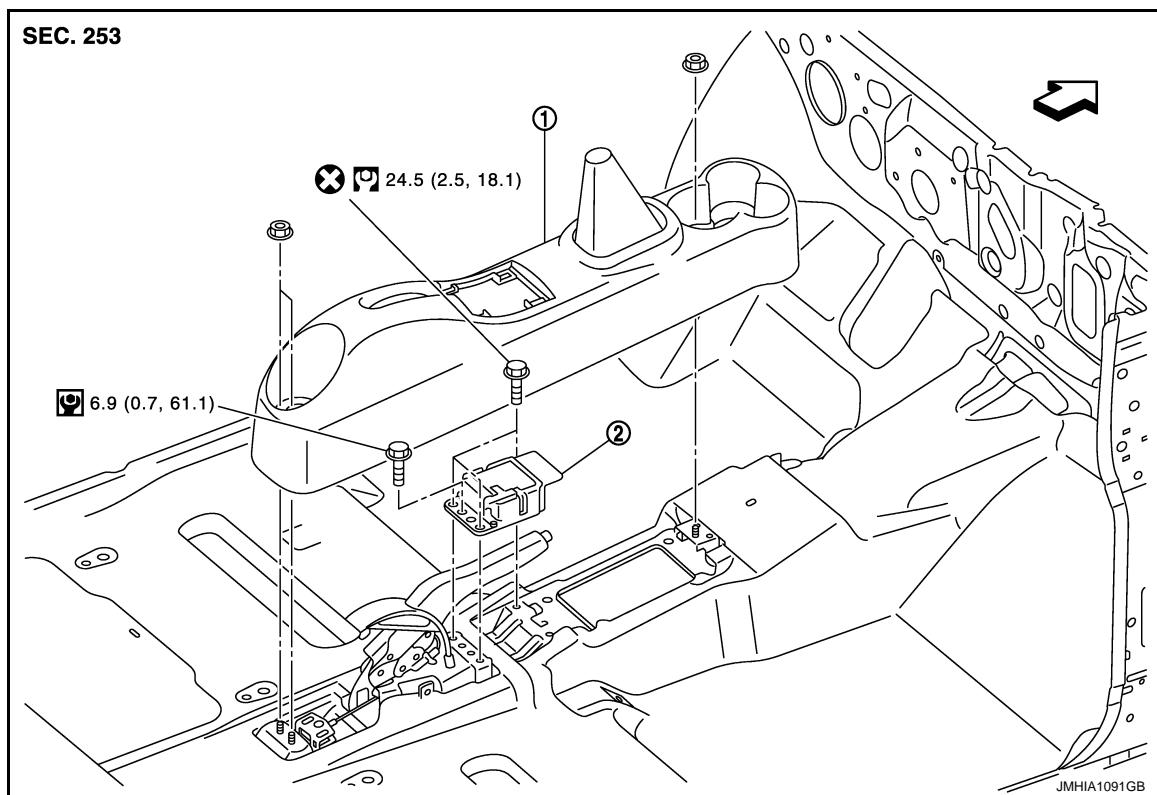
DIAGNOSIS SENSOR UNIT

< REMOVAL AND INSTALLATION >

DIAGNOSIS SENSOR UNIT

Exploded View

INFOID:0000000004944176



1. Center console assembly 2. Diagnosis sensor unit

⇨ : Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:0000000004944177

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Before disconnecting the air bag sensor unit harness connector, be sure to disconnect the each harness connector of the air bag module and pre-tensioner seat belt to prevent air bag deployment by static electricity and pre-tensioner seat belt operation.
- Never use the air tools or electric tools for servicing.
- When replacing the air bag diagnosis sensor unit, always check with the parts department for the latest parts information. Installing an incorrect air bag diagnosis sensor unit may or may not cause the air bag warning lamp to illuminate and may cause incorrect deployment of the supplemental air bags and seat belt pre-tensioners in a collision resulting in serious personal injury or death.

REMOVAL

1. Always check the air bag diagnosis sensor unit ECU discriminated number (identification number) using CONSULT-III.
2. Disconnect the each connector of all air bag modules and pre-tensioner seat belts.
3. Remove the center console assembly. Refer to [IP-22, "Exploded View"](#).
4. Disconnect the diagnosis sensor unit harness connectors.
5. Remove the diagnosis sensor unit mounting bolts, and then remove the diagnosis sensor unit.

CAUTION:

DIAGNOSIS SENSOR UNIT

< REMOVAL AND INSTALLATION >

- Never impact the diagnosis sensor unit.
- Replace the diagnosis sensor unit if it has been dropped or sustained an impact.



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- Replace the diagnosis sensor unit of deployed SRS air bag and deployed SRS front seat belt pre-tensioner.

INSTALLATION

Install air bag diagnosis sensor unit in the reverse order of removal.

CAUTION:

- Never use the old bolts after removal, replace with the new bolts.
- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRC-23, "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.
- After replacing the air bag diagnosis sensor unit, confirm using CONSULT-III that the ECU discriminated number (identification number) of the new replacement air bag diagnosis sensor unit matches the ECU discriminated number (identification number) of the replaced (old) air bag diagnosis sensor unit.

NOTE:

If the ECU discriminated number of the new replacement air bag diagnosis sensor unit differs from the ECU discriminated number of the replaced air bag diagnosis sensor unit, reconfirm the parts information and verify that the correct air bag diagnosis sensor unit was installed.

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SEAT BELT PRE-TENSIONER

< REMOVAL AND INSTALLATION >

SEAT BELT PRE-TENSIONER

Exploded View

INFOID:0000000004944174

Removal and Installation

INFOID:0000000004944175

For removal and installation procedures, refer to [SB-6, "SEAT BELT RETRACTOR : Removal and Installation".](#)

OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

< REMOVAL AND INSTALLATION >

OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

Removal and Installation

INFOID:000000005141456

For removal and installation

The occupant classification system control unit and the seat sensor are an integral part of the front passenger seat cushion and are replaced as an assembly. Refer to [SE-11, "Exploded View"](#).

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