

SECTION

SR

SRS AIRBAG

A  
B  
C  
D  
E  
F  
G  
SR  
I  
J  
K  
L  
M  
N  
O  
P

CONTENTS

<b>PRECAUTION .....</b>	<b>2</b>	<b>FRONT PASSENGER AIR BAG MODULE .....</b>	<b>11</b>
<b>PRECAUTIONS .....</b>	<b>2</b>	Exploded View .....	11
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....	2	Removal and Installation .....	11
Precaution Necessary for Steering Wheel Rotation after Battery Disconnect .....	2	<b>SIDE CURTAIN AIR BAG MODULE .....</b>	<b>13</b>
Precaution for Battery Service .....	3	Exploded View .....	13
Occupant Classification System .....	3	Removal and Installation .....	13
Service .....	3	<b>CRASH ZONE SENSOR .....</b>	<b>15</b>
<b>PREPARATION .....</b>	<b>4</b>	Exploded View .....	15
<b>PREPARATION .....</b>	<b>4</b>	Removal and Installation .....	15
Commercial Service Tools .....	4	<b>SIDE AIR BAG (SATELLITE) SENSOR .....</b>	<b>17</b>
<b>ON-VEHICLE REPAIR .....</b>	<b>5</b>	Exploded View .....	17
<b>DRIVER AIR BAG MODULE .....</b>	<b>5</b>	Removal and Installation .....	17
Exploded View .....	5	<b>DIAGNOSIS SENSOR UNIT .....</b>	<b>19</b>
Removal and Installation .....	5	Exploded View .....	19
<b>SPIRAL CABLE .....</b>	<b>8</b>	Removal and Installation .....	19
Exploded View .....	8	<b>SEAT BELT PRE-TENSIONER .....</b>	<b>21</b>
Removal and Installation .....	8	Removal and Installation .....	21
		<b>OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT .....</b>	<b>22</b>
		Removal and Installation .....	22

# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

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

INFOID:000000004422367

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 AIRBAG" 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 AIRBAG".
- Never 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

When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors while ignition switch is ON or engine is running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration may activate the sensor(s), deploy the airbag(s), possibly cause serious injury. When using air or electric power tools or hammers, always turn OFF ignition switch, disconnect the battery, and wait 3 minutes or more before performing any service.

#### Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000004422368

#### **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.
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.

# PRECAUTIONS

< PRECAUTION >

## Precaution for Battery Service

INFOID:000000004678860

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

## Occupant Classification System

INFOID:000000004422369

Replace occupant classification system control unit and passenger front seat cushion as an assembly. Refer to [SE-23. "Exploded View"](#).

## Service

INFOID:000000004422370

- 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.  
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.
- 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 front instrument panel assembly should be replaced if damaged.
- Always replace instrument panel pad following front passenger air bag deployment.

A  
B  
C  
D  
E  
F  
G  
SR  
I  
J  
K  
L  
M  
N  
O  
P

# PREPARATION

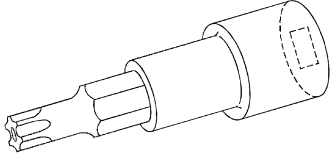
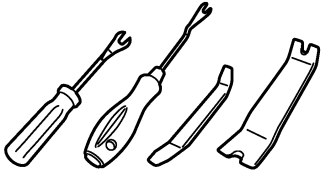
< PREPARATION >

## PREPARATION

### PREPARATION

#### Commercial Service Tools

INFOID:000000004422371

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

# DRIVER AIR BAG MODULE

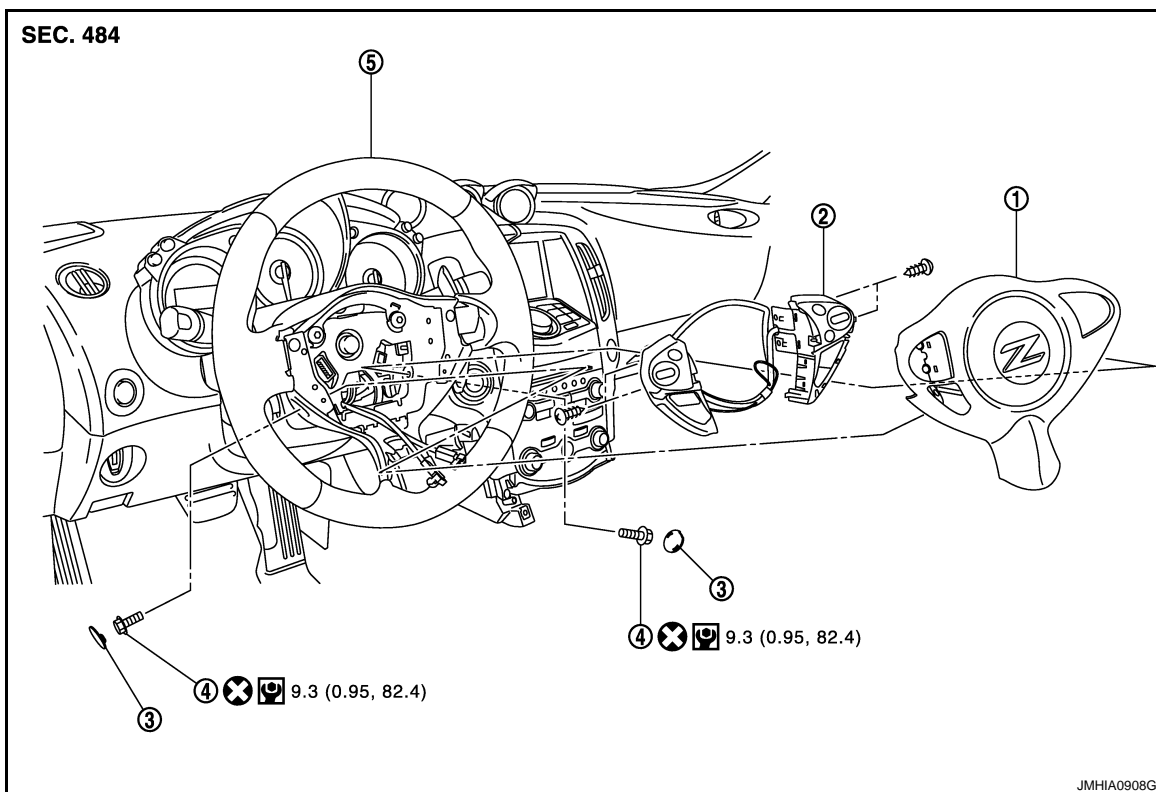
< ON-VEHICLE REPAIR >

## ON-VEHICLE REPAIR

### DRIVER AIR BAG MODULE

#### Exploded View

INFOID:000000004422373



#### Removal and Installation

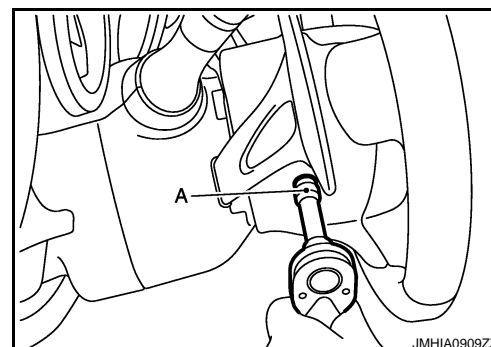
INFOID:000000004422374

#### **WARNING:**

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes.
- 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

1. Remove the side lids (LH/RH).
2. Remove the TORX bolts (LH/RH) from the steering wheel lower side using TORX bit (A).



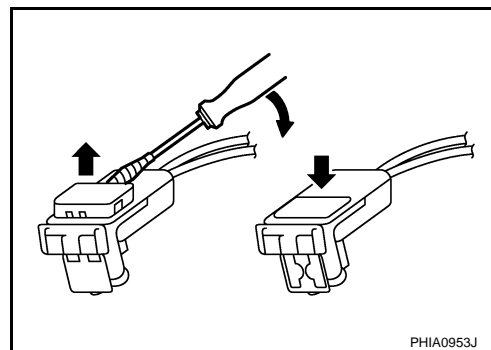
## DRIVER AIR BAG MODULE

### < ON-VEHICLE REPAIR >

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

**NOTE:**

- 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.

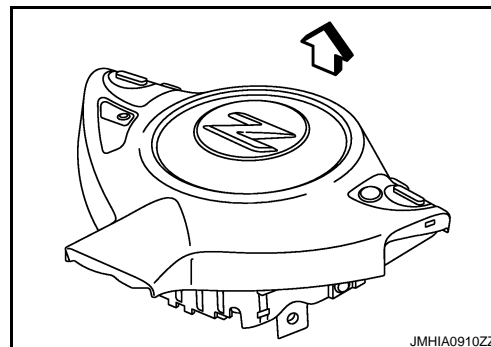


5. Remove the driver air bag module.

**CAUTION:**

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

⇐ : Upward



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



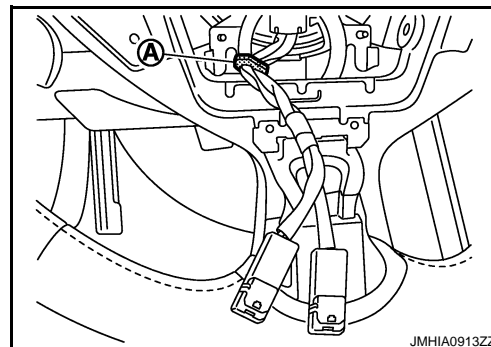
- Never insert any foreign objects (screwdriver, etc.) into driver air bag module.
- Never disassemble driver air bag module.
- Never expose the driver air bag module to temperatures exceeding 90 °C (194 °F).
- Never allow oil, grease, detergent, or water to come in contact with the driver air bag module.

### INSTALLATION

Install in the reverse order of removal.

**CAUTION:**

- Never use the old TORX bolts after removal, replace with the new bolts.
- Fix the driver air bag module harness to the harness fixing hook (A).



## DRIVER AIR BAG MODULE

### < ON-VEHICLE REPAIR >

---

- Never damage the harness while installing.
- Tighten the TORX bolts after completely adjusting the centers of fixing holes on the driver air bag module side and the steering wheel side. If the holes are misaligned, the bolt threads are damaged and the module is not installed securely.
- 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-19, "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

A

B

C

D

E

F

G

SR

I

J

K

L

M

N

O

P

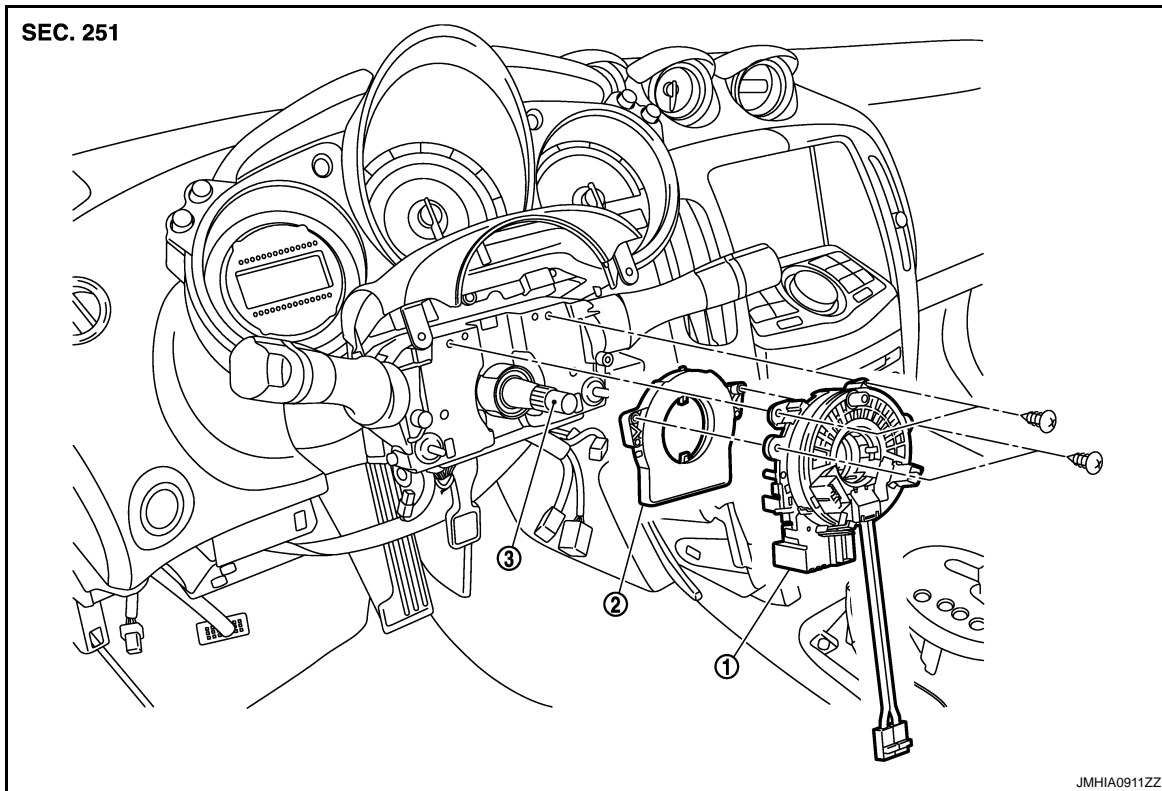
# SPIRAL CABLE

< ON-VEHICLE REPAIR >

## SPIRAL CABLE

### Exploded View

INFOID:000000004422375



1. Spiral cable

2. Steering angle sensor

3. Steering column assembly

### Removal and Installation

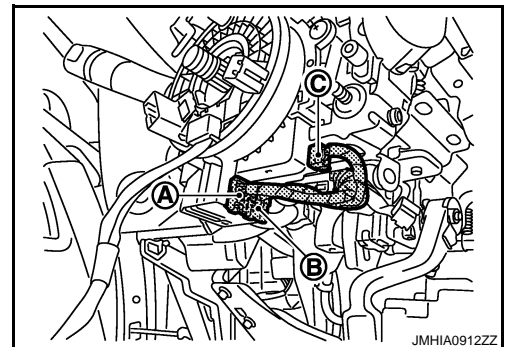
INFOID:000000004422376

#### **WARNING:**

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes.
- 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-12, "Removal and Installation"](#).
3. Remove the steering column lower cover. Refer to [IP-12, "Removal and Installation"](#).
4. Remove the paddle shifter (7AT models). Refer to [TM-291, "Removal and Installation"](#).
5. Remove the combination meter mounting bolts, and then keep it lifted.
6. Disconnect the spiral cable body side harness connectors (A) and (B).
7. Disconnect the steering angle sensor harness connectors (C).





## SPIRAL CABLE

### < ON-VEHICLE REPAIR >

8. Remove the spiral cable fixing screws.
9. Pull out forward the spiral cable and steering angle sensor.

#### CAUTION:

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



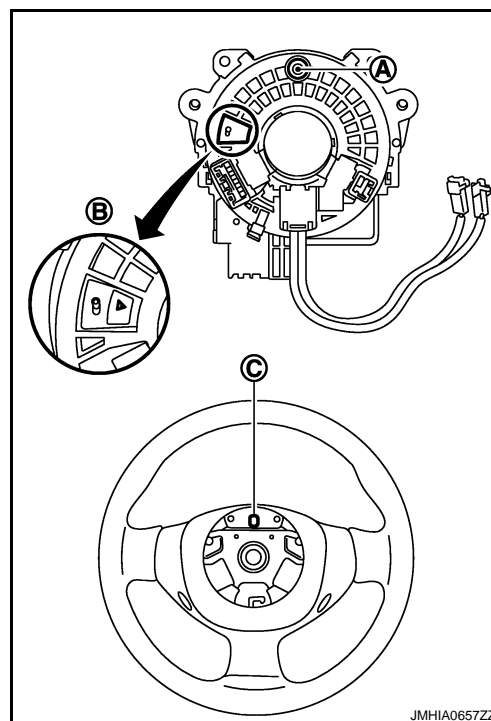
- Never disassemble the spiral cable.
- Never apply lubricant to the spiral cable.
- Never allow oil, grease, detergent, or water to come in contact with the spiral cable.

### INSTALLATION

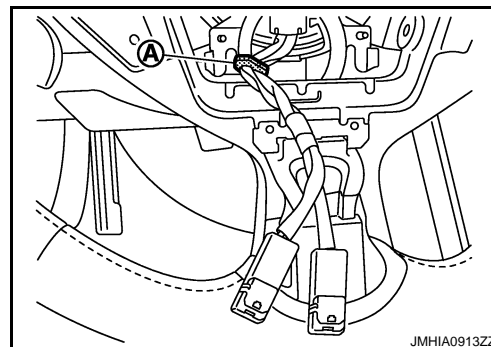
Install in the reverse order of removal.

#### CAUTION:

- 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 harness to the harness fixing hook (A).



## SPIRAL CABLE

### < ON-VEHICLE REPAIR >

---

- 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-19, "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

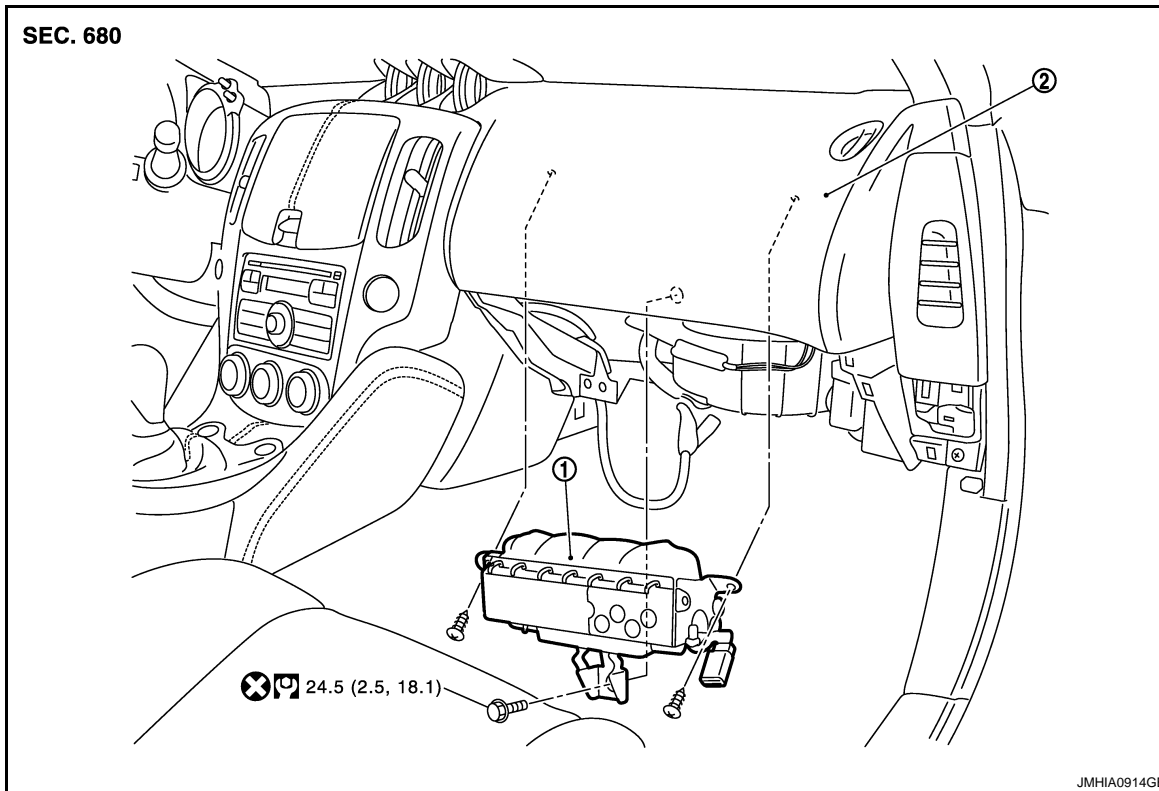
# FRONT PASSENGER AIR BAG MODULE

< ON-VEHICLE REPAIR >

## FRONT PASSENGER AIR BAG MODULE

### Exploded View

INFOID:000000004422377



1. Passenger air bag module
2. Instrument panel assembly

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

### Removal and Installation

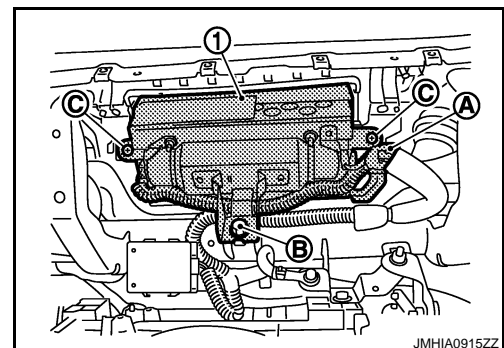
INFOID:000000004422378

#### **WARNING:**

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes.
- 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

1. Remove the glove box assembly. Refer to [IP-12, "Removal and Installation"](#).
2. Remove the Instrument lower panel RH. Refer to [IP-12, "Removal and Installation"](#).
3. Disconnect the front passenger air bag module harness connector (A) from front passenger air bag module (1).
4. Remove the front passenger air bag module fixing bolt (B) and screws (C).

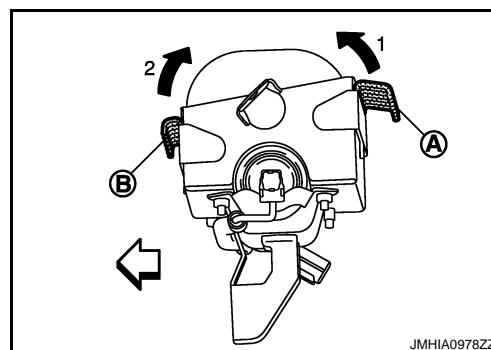


## FRONT PASSENGER AIR BAG MODULE

### < ON-VEHICLE REPAIR >

5. Disconnect the pawls (A), (B) and then remove the front passenger air bag module.

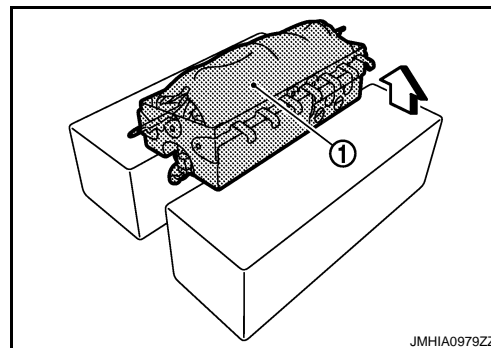
⇐ : Vehicle front



### 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:

- 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-19, "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

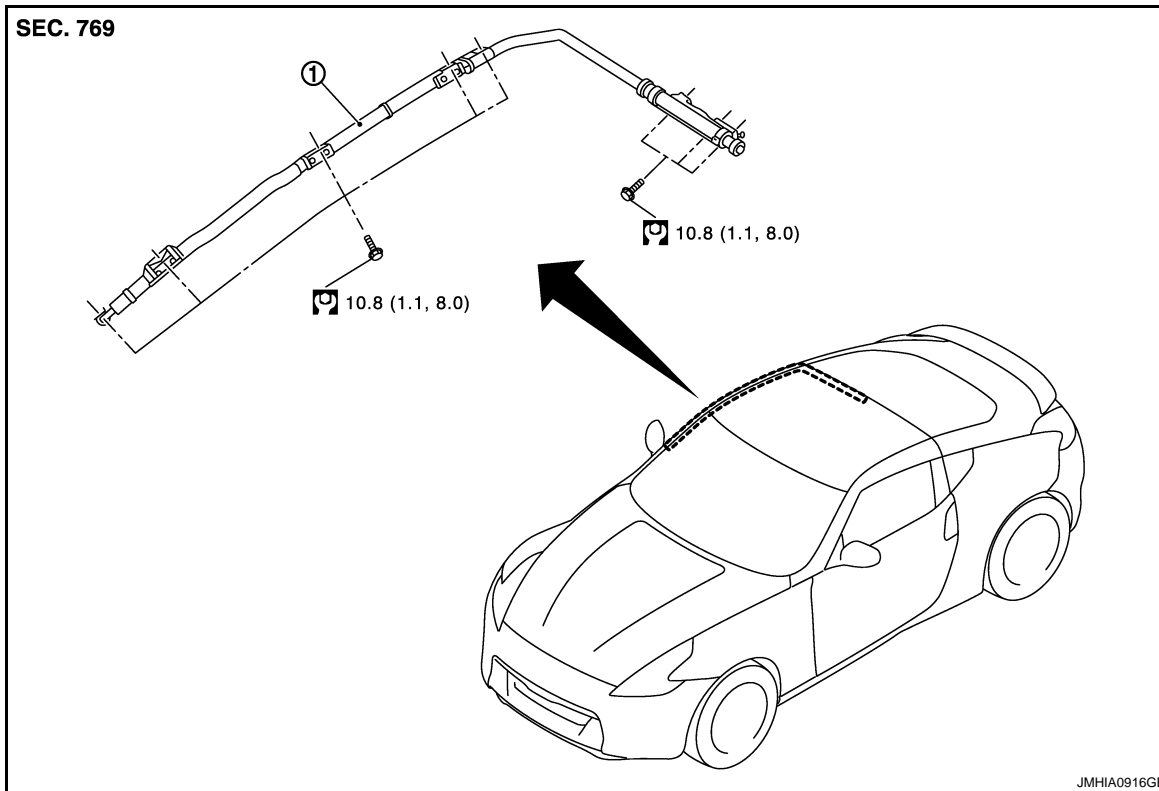
# SIDE CURTAIN AIR BAG MODULE

< ON-VEHICLE REPAIR >

## SIDE CURTAIN AIR BAG MODULE

### Exploded View

INFOID:000000004422379



1. Side curtain air bag

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

### Removal and Installation

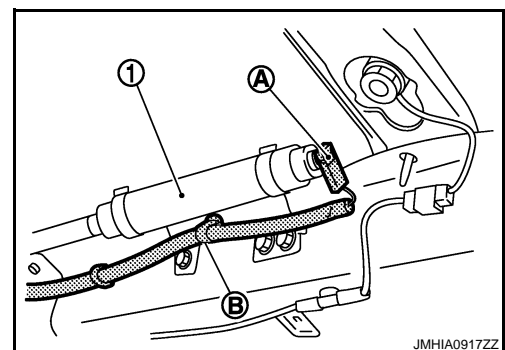
INFOID:000000004422380

#### **WARNING:**

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes.
- 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-22, "Removal and Installation"](#).
2. Disconnect the side curtain air bag module (1) harness connector (A), and then remove harness clip (B).

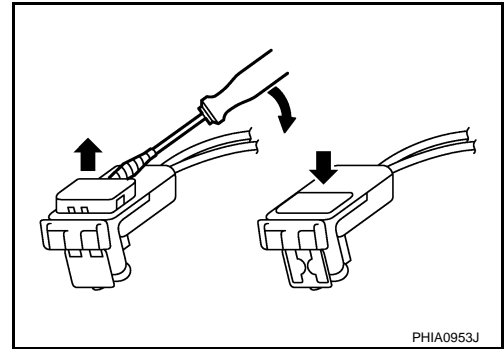


#### NOTE:

## SIDE CURTAIN AIR BAG MODULE

### < ON-VEHICLE REPAIR >

- 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.



3. 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:**

- **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-19, "CONSULT-III Function"](#).**
- **After the work is completed, check that no system malfunction is detected by air bag warning lamp.**

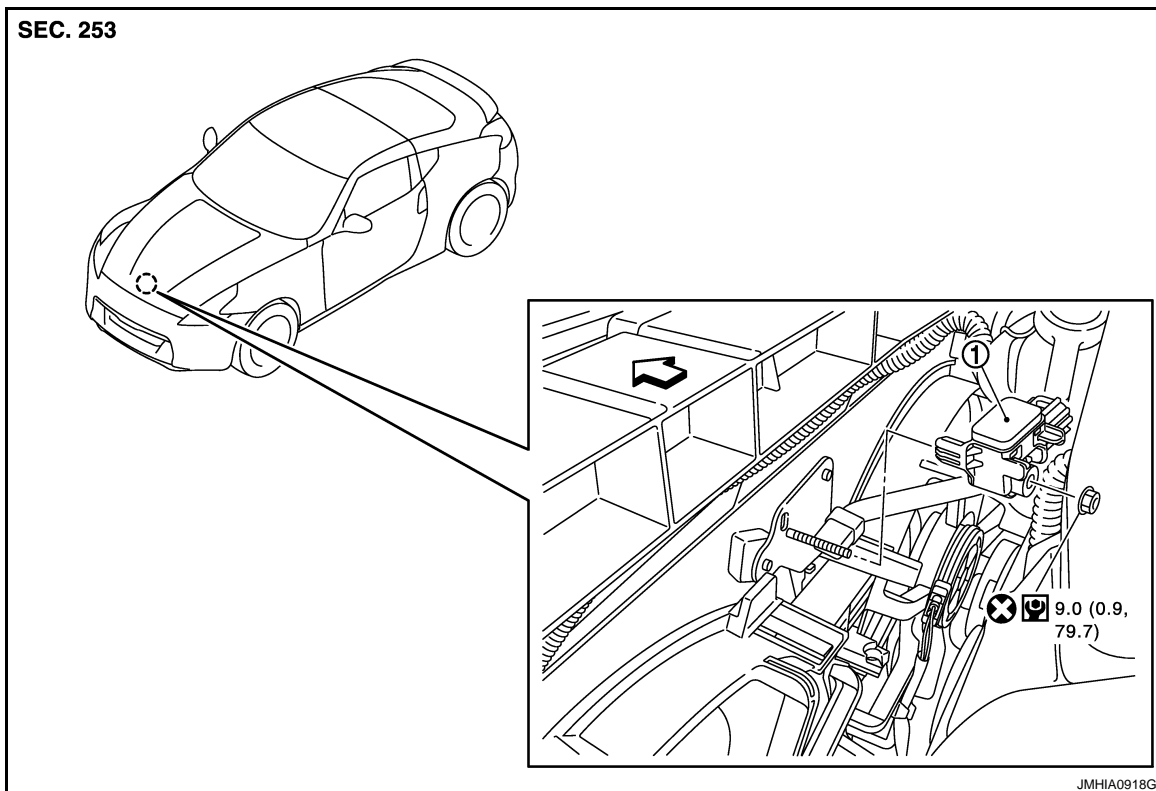
# CRASH ZONE SENSOR

< ON-VEHICLE REPAIR >

## CRASH ZONE SENSOR

### Exploded View

INFOID:000000004422383



### Removal and Installation

INFOID:000000004422384

#### **WARNING:**

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

#### REMOVAL

1. Remove the reservoir tank. Refer to [CO-13. "Exploded View"](#).
2. Remove the crash zone sensor fixing nut.
3. Disconnect the crash zone sensor harness connector.

#### **CAUTION:**

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



## CRASH ZONE SENSOR

### < ON-VEHICLE REPAIR >

---

- 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.
- 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-19. "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.



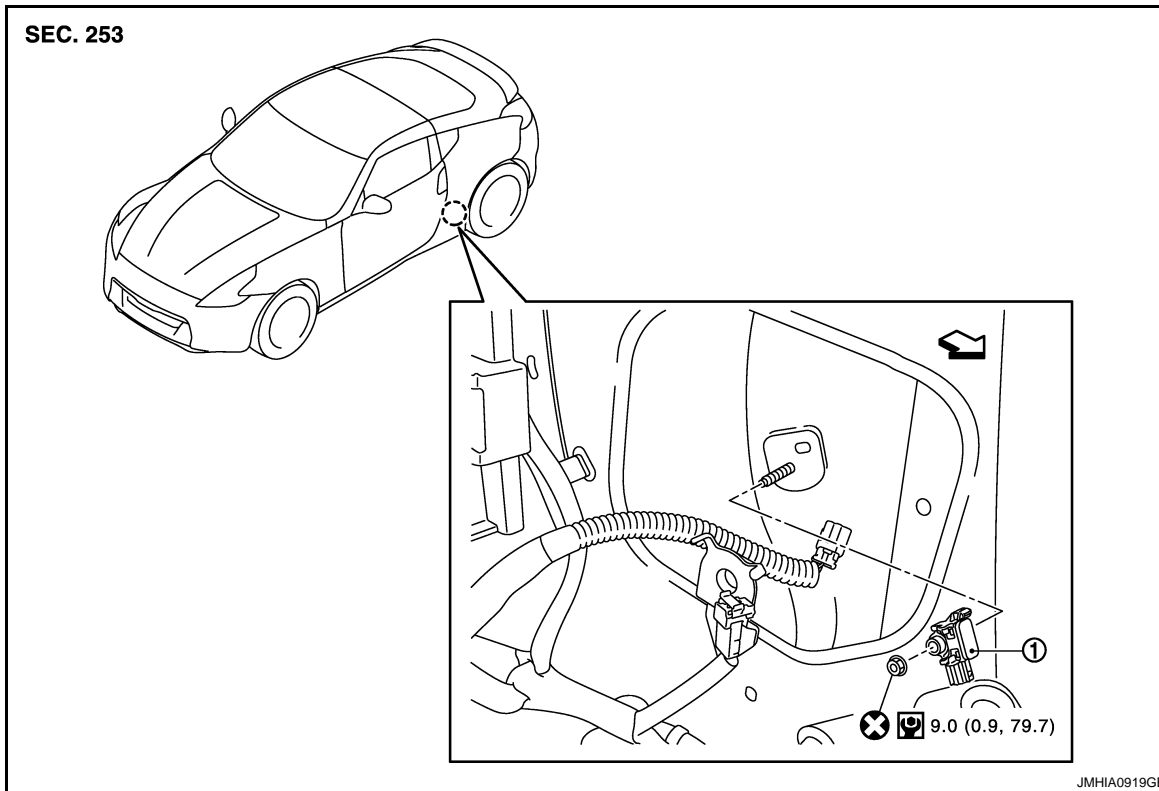
# SIDE AIR BAG (SATELLITE) SENSOR

< ON-VEHICLE REPAIR >

## SIDE AIR BAG (SATELLITE) SENSOR

### Exploded View

INFOID:000000004422385



1. Satellite sensor

↖ : Vehicle front

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

### Removal and Installation

INFOID:000000004422386

#### **WARNING:**

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

#### REMOVAL

1. Remove the front seat belt retractor. Refer to [SB-6. "SEAT BELT RETRACTOR : Removal and Installation"](#).
2. Remove the satellite sensor fixing nut.
3. Disconnect the harness connector and then remove the satellite sensor.

#### **CAUTION:**

## SIDE AIR BAG (SATELLITE) SENSOR

### < ON-VEHICLE REPAIR >

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



- Replace the 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.
- 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-19, "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

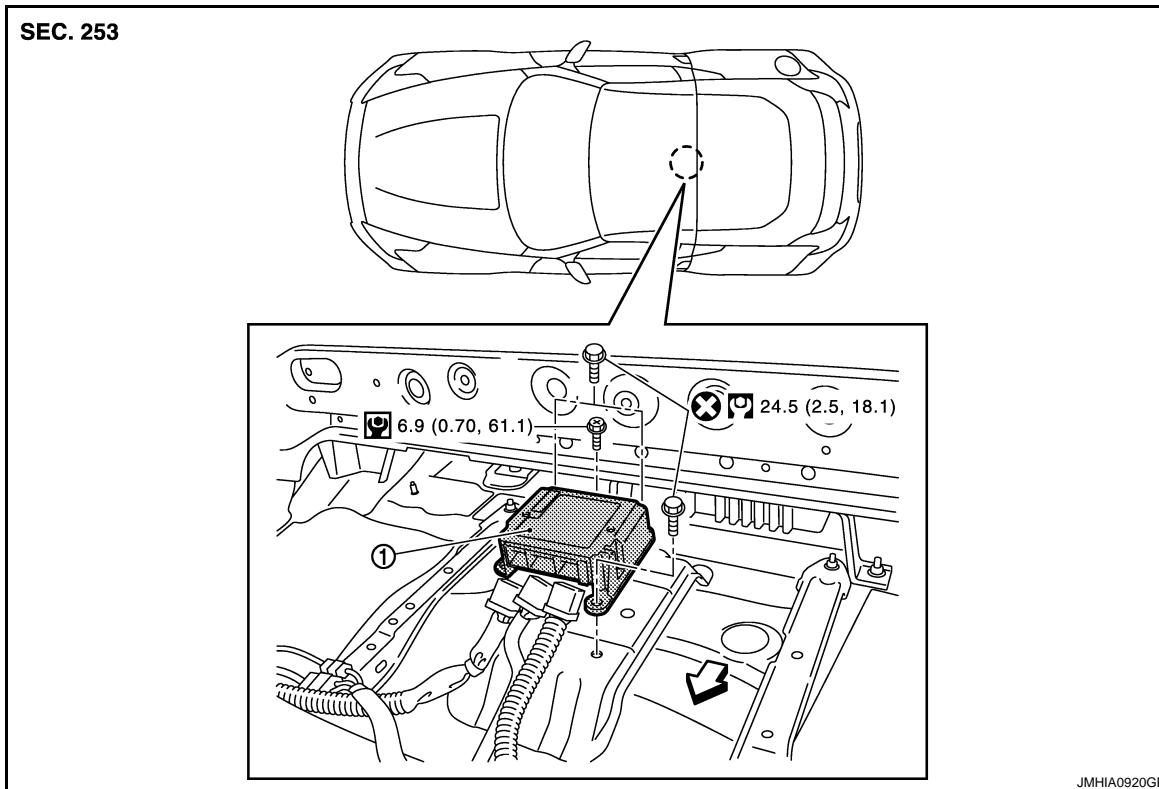
# DIAGNOSIS SENSOR UNIT

< ON-VEHICLE REPAIR >

## DIAGNOSIS SENSOR UNIT

### Exploded View

INFOID:000000004422387



1. Diagnosis sensor unit

⇐ : Vehicle front

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

### Removal and Installation

INFOID:000000004422388

#### **WARNING:**

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes.
- 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.

#### REMOVAL

1. Disconnect the each connector of all air bag modules and pre-tensioner seat belts.
2. Remove the center console assembly. Refer to [IP-23, "Removal and Installation"](#).
3. Remove the tonneau cover assembly. Refer to [INT-17, "Exploded View"](#).
4. Remove the luggage rear plate, luggage side finisher LH/RH. Refer to [INT-26, "Removal and Installation"](#).
5. Remove the kicking plate inner (LH/RH), rear side finisher (LH/RH). Refer to [INT-14, "Removal and Installation"](#).
6. Remove the rear parcel shelf holder finisher, rear parcel shelf cover (LH/RH), seatback center finisher, rear parcel shelf finisher. Refer to [INT-18, "Removal and Installation"](#).
7. Disconnect the diagnosis sensor unit harness connectors.
8. Remove the diagnosis sensor unit mounting bolts, and then remove the diagnosis sensor unit.

#### **CAUTION:**

## DIAGNOSIS SENSOR UNIT

### < ON-VEHICLE REPAIR >

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



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

### INSTALLATION

Install 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-19, "CONSULT-III Function"](#).**
- **After the work is completed, check that no system malfunction is detected by air bag warning lamp.**

### ECU DISCRIMINATED NO.

After replacing the diagnosis sensor unit, confirm that the diagnosis sensor unit identification is correct for the vehicle as equipped.

Specification	ECU DISCRIMINATED No.
Driver and passenger air bag, front seat belt pre-tensioner, front side air bag and side curtain air bag	FF00

SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

SEAT BELT PRE-TENSIONER

Removal and Installation

INFOID:000000004422389

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

- A
- B
- C
- D
- E
- F
- G
- SR
- I
- J
- K
- L
- M
- N
- O
- P

# OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

< ON-VEHICLE REPAIR >

---

## OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

### Removal and Installation

INFOID:000000004427354

For removal and installation

The occupant classification system control unit and the seat sensor mat are an integral part of the front passenger seat cushion and are replaced as an assembly. Refer to [SE-23, "Exploded View"](#).