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## **PRECAUTION**

## **PRECAUTIONS**

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

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.

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- 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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never 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.

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- Do not 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
  - For approximately 3 minutes after the battery negative terminal is removed, it is still possible for the air bag and seat belt pre-tensioner to deploy. Therefore, do not 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. Do not 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.

## Occupant Classification System

 Replace occupant classification system control unit and passenger front seat cushion as an assembly. Refer to SE-97, "Removal and Installation".

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## **PREPARATION**

## **PREPARATION**

## **Commercial Service Tools**

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	Tool name	Description
Tamper resistant TORX bit	S-NT757	Removes driver air bag module
Remover tool	JMKIA3050ZZ	Removes clips, pawls, and metal clip

#### [FOR USA AND CANADA]

## **BASIC INSPECTION**

# COLLISION DIAGNOSIS FOR FRONTAL COLLISION

FOR FRONTAL COLLISION: When SRS is activated in a collision

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#### **CAUTION:**

Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.

#### **WORK PROCEDURE**

- 1. Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
- 2. Replace the diagnosis sensor unit.
- 3. Remove the front air bag modules, crash zone sensor, bracket and seat belt pre-tensioner assemblies.
- 4. Check the SRS components using the table below:
  Replace any SRS components showing visible signs of damage. (dents, cracks and deformation, etc.)
- 5. Install new front air bag modules, crash zone sensor assembly, bracket and seat belt pre-tensioner assemblies.
- 6. Perform self-diagnosis using CONSULT-III or air bag warning lamp. Refer to <u>SRC-17</u>, "<u>Diagnosis Description</u>" for details. Ensure entire SRS operates properly.
- 7. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to <a href="SRC-17">SRC-17</a>, "Diagnosis Description".

## SRS INSPECTION (FOR FRONTAL COLLISION)

Part	Inspection
Driver air bag module	If the driver air bag has deployed: REPLACE Install with new fasteners.
Front passenger air bag module (if equipped)	If the front passenger air bag has deployed: REPLACE Install with new fasteners.
Crash zone sensor	If any of the front air bags or seat belt pre-tensioners* have been activated: REPLACE the crash zone sensor and bracket with new fasteners. *: Confirm seat belt pre-tensioner activation using CONSULT-III only.
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	If either the driver or passenger seat belt pre-tensioner* has been activated: REPLACE all seat belt pre-tensioner assemblies with new fasteners. *: Confirm seat belt pre-tensioner activation using CONSULT-III only.
Diagnosis sensor unit	If any of the SRS components have been activated: REPLACE the diagnosis sensor unit. Install with new fasteners.
Steering wheel	<ol> <li>Visually check steering wheel for deformities.</li> <li>Check harness (built into steering wheel) and connectors for damage, and terminals for deformities.</li> <li>Install driver air bag module into the steering wheel to check fit and alignment with the wheel.</li> <li>Check steering wheel for excessive free play.</li> <li>If no damage is found, reinstall.</li> <li>If damaged – REPLACE.</li> </ol>
Spiral cable	If the driver front air bag has deployed: REPLACE the spiral cable.
Occupant classification system (Passenger seat)	<ol> <li>Remove passenger seat assembly.</li> <li>Check control unit case for dents, cracks of deformities.</li> <li>Check connectors and pressure sensor tube for damage, and terminals for deformities.</li> <li>Check seat frame and cushion pan for dents or deformities.</li> <li>If no damage is found, reinstall seat with new fasteners.</li> <li>If damaged – REPLACE seat cushion assembly with new fasteners.</li> </ol>

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## < BASIC INSPECTION >

#### [FOR USA AND CANADA]

Part	Inspection
Harness and connectors	<ol> <li>Check connectors for poor connection, damage, and terminals for deformities.</li> <li>Check harness for binding, chafing, cuts, or deformities.</li> <li>If no damage is found, reinstall the harness and connectors.</li> <li>If damaged – REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness.</li> </ol>
Instrument panel assembly	If the front passenger air bag has deployed: REPLACE the instrument panel assembly. (integrated type)

## FOR FRONTAL COLLISION: When SRS is not activated in a collision

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#### **CAUTION:**

Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.

#### **WORK PROCEDURE**

- Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
- 2. Check the SRS components using the table below:
  Replace any SRS components showing visible signs of damage. (dents, cracks and deformation, etc.)
- Perform self-diagnosis using CONSULT-III or air bag warning lamp. Refer to <u>SRC-17</u>, "<u>Diagnosis Description</u>" for details. Ensure entire SRS operates properly.
- 4. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to SRC-17, "Diagnosis Description".

## SRS INSPECTION (FOR FRONTAL COLLISION)

Part	Inspection
Driver air bag module	<ol> <li>If the driver air bag has NOT been deployed:</li> <li>Remove driver air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding.</li> <li>Install driver air bag module into the steering wheel to check fit and alignment with the wheel.</li> <li>If no damage is found, reinstall with new fasteners.</li> <li>If damaged – REPLACE. Install driver air bag module with new fasteners.</li> </ol>
Front passenger air bag module (if equipped)	<ol> <li>If the front passenger air bag has NOT been deployed:</li> <li>Remove front passenger air bag module. Check harness cover and connectors for damage, ter minals for deformities, and harness for binding.</li> <li>Install front passenger air bag module into the instrument panel to check fit with the instrument panel.</li> <li>If no damage is found, reinstall with new fasteners.</li> <li>If damaged – REPLACE. Install front passenger air bag modules with new fasteners.</li> </ol>
Crash zone sensor	<ol> <li>If the front air bags or seat belt pre-tensioners have NOT been activated:</li> <li>Remove the crash zone sensor. Check harness connectors for damage, terminals for deformities, and harness for binding.</li> <li>Check for visible signs of damage (dents, cracks, deformation, etc.) of the crash zone sensor and bracket.</li> <li>Install the crash zone sensor to check fit.</li> <li>If no damage is found, reinstall with new fasteners.</li> <li>If damaged – REPLACE the crash zone sensor and bracket with new fasteners.</li> </ol>
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	<ol> <li>If the pre-tensioners have NOT been activated:</li> <li>Remove seat belt pre-tensioners.         Check harness cover and connectors for damage, terminals for deformities, and harness for binding.     </li> <li>Check belts for damage and anchors for loose mounting.</li> <li>Check retractor for smooth operation.</li> <li>Check seat belt adjuster for damage.</li> <li>Check for deformities of the center pillar inner.</li> <li>If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly.</li> <li>If no damage is found, reinstall seat belt pre-tensioners with new fasteners.</li> </ol>

## < BASIC INSPECTION >

#### [FOR USA AND CANADA]

Part	Inspection
	If none of the SRS components have been activated:  1. Check case for dents, cracks or deformities.
Diagnosis sensor unit	2. Check connectors for damage, and terminals for deformities.
	<ol> <li>If no damage is found, reinstall with new fasteners.</li> <li>If damaged – REPLACE. Install diagnosis sensor unit with new fasteners.</li> </ol>
	<ol> <li>Visually check steering wheel for deformities.</li> <li>Check harness (built into steering wheel) and connectors for damage, and terminals for deformities.</li> </ol>
Steering wheel	<ol> <li>Install driver air bag module into the steering wheel to check fit and alignment with the wheel.</li> <li>Check steering wheel for excessive free play.</li> </ol>
	If no damage is found, reinstall.     If damaged – REPLACE.
Spiral cable	If the driver front air bag has not deployed:  1. Visually check spiral cable and combination switch for damage.  2. Check connectors and protective tape for damage.
	<ol> <li>Check steering wheel for noise, binding or heavy operation.</li> <li>If no damage is found, reinstall.</li> <li>If damaged – REPLACE.</li> </ol>
Occupant classification system	<ol> <li>Remove passenger seat assembly.</li> <li>Check control unit case for dents, cracks of deformities.</li> <li>Check connectors and pressure sensor tube for damage, and terminals for deformities.</li> </ol>
(	<ol> <li>Check seat frame and cushion pan for dents or deformities.</li> <li>If no damage is found, reinstall seat with new fasteners.</li> <li>If damaged – REPLACE seat cushion assembly with new fasteners.</li> </ol>
	<ol> <li>Check connectors for poor connection, damage, and terminals for deformities.</li> <li>Check harness for binding, chafing, cuts, or deformities.</li> </ol>
	<ol> <li>If no damage is found, reinstall the harness and connectors.</li> <li>If damaged – REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness.</li> </ol>
	If the front passenger air bag has NOT deployed:  1. Visually check instrument panel assembly for damage.
Instrument panel assembly	2. If no damage is found, reinstall the instrument panel assembly.  3. If damaged – REPLACE the instrument panel assembly.

## FOR SIDE AND ROLLOVER COLLISION: When SRS is activated in a collision

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#### **CAUTION:**

Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.

#### **WORK PROCEDURE**

- 1. Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
- 2. Replace the following components:
  - Front seat back assembly (on the side on which side air bag is activated)
  - Door finisher (on the side on which door-mounted curtain air bag is activated)
  - Pop-up roll bar assemblies and pop-up roll bar covers
  - Side air bag (satellite) sensor LH/RH (on the side on which side air bag is activated)
  - · Diagnosis sensor unit
  - Seat belt pre-tensioner assemblies
- 3. Check the SRS components and the related parts using the following table. Replace any SRS components and the related parts showing visible signs of damage. (dents, cracks, deformation, etc.)
- 4. Perform self-diagnosis using CONSULT-III and "AIR BAG" warning lamp. Refer to SRC-17, "Diagnosis Description" for details. Make sure entire SRS operates properly.
- 5. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to SRC-17, "Diagnosis Description".

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## SRS INSPECTION (FOR SIDE AND ROLLOVER COLLISION)

Part	Inspection
Side curtain air bag module LH	If the side curtain air bag LH has deployed: REPLACE the side curtain air bag module LH. Install with new fasteners.
Side curtain air bag module RH	If the side curtain air bag RH has deployed: REPLACE the side curtain air bag module RH. Install with new fasteners.
Front side air bag module LH	If the front side air bag LH has deployed: REPLACE front seatback assembly LH.
Front side air bag module RH	If the front side air bag RH has deployed: REPLACE front seatback assembly RH.
Side air bag (satellite) sensor (LH or RH)	If any of the SRS components have deployed: REPLACE the side air bag (satellite) sensor on the collision side with new fasteners.
Diagnosis sensor unit	If any of the SRS components have deployed: REPLACE the diagnosis sensor unit with new fasteners.
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	If either the driver or passenger seat belt pre-tensioner* has been activated: REPLACE all seat belt pre-tensioner assemblies with new fasteners. *: Confirm seat belt pre-tensioner activation using CONSULT-III only.
Center inner pillar	<ol> <li>Check the center inner pillar on the collision side for damage (dents, cracks, deformation, etc.).</li> <li>If damaged – REPAIR the center inner pillar.</li> </ol>
Trim/headlining	<ol> <li>Check for visible signs of damage (dents, cracks, deformation, etc.) of the interior trim on the collision side.</li> <li>If damaged – REPLACE the damaged trim parts.</li> </ol>
Door-mounted curtain air bag module LH	If the door-mounted curtain air bag module LH has deployed: REPLACE the door finisher LH and door-mounted curtain air bag module. Install with new fasteners.
Door-mounted curtain air bag module RH	If the door-mounted curtain air bag module RH has deployed: REPLACE the door finisher RH and door-mounted curtain air bag module. Install with new fasteners.
Pop-up roll bar assemblies	If the pop-up roll bar has deployed: REPLACE pop-up roll bar assemblies and pop-up roll bar covers. Install with new fasteners.

FOR SIDE AND ROLLOVER COLLISION: When SRS is not activated in a collision

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#### **CAUTION:**

Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.

## **WORK PROCEDURE**

- Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
- 2. Check the SRS components and the related parts using the following table.
  - If the front seat back assembly is damaged, the front seat back assembly must be replaced.
  - If the door finisher assembly is damaged, the door finisher assembly and door-mounted curtain air bag module must be replaced.
- 3. Perform self-diagnosis using CONSULT-III and "AIR BAG" warning lamp. Refer to <u>SRC-17, "Diagnosis Description"</u> for details. Make sure entire SRS operates properly.
- 4. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to SRC-17, "Diagnosis Description".

SRS INSPECTION (FOR SIDE AND ROLLOVER COLLISION)

< BASIC INSPECTION >

[FOR USA AND CANADA]

Part	Inspection
Side curtain air bag module LH	<ol> <li>If the side curtain air bag LH has NOT deployed:</li> <li>Check for visible signs of damage (dents, tears, deformation, etc.) of the center pillar on the collision side.</li> <li>If damaged – Remove the side curtain air bag module LH.</li> <li>Check for visible signs of damage (tears etc.) of the side curtain air bag module LH.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If no damage is found, reinstall the side curtain air bag module LH with new fasteners.</li> <li>If damaged – REPLACE the side curtain air bag module LH with new fasteners.</li> </ol>
Side curtain air bag module RH	<ol> <li>If the side curtain air bag RH has NOT deployed:</li> <li>Check for visible signs of damage (dents, tears, deformation, etc.) of the center pillar on the collision side.</li> <li>If damaged – Remove the side curtain air bag module RH.</li> <li>Check for visible signs of damage (tears etc.) of the side curtain air bag module RH.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If no damage is found, reinstall the side curtain air bag module RH with new fasteners.</li> <li>If damaged – REPLACE the side curtain air bag module RH with new fasteners.</li> </ol>
Front side air bag module LH	<ol> <li>If the front side air bag LH has NOT deployed:</li> <li>Check for visible signs of damage (dents, tears, deformation, etc.) of the seat back on the collision side.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If damaged – REPLACE the front seatback assembly LH.</li> </ol>
Front side air bag module RH	<ol> <li>If the front side air bag RH has NOT deployed:</li> <li>Check for visible signs of damage (dents, tears, deformation, etc.) of the seat back on the collision side.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If damaged – REPLACE the front seatback assembly RH.</li> </ol>
Side air bag (satellite) sensor (LH or RH)	<ol> <li>If none of the SRS components have been activated:</li> <li>Remove the side air bag (satellite) sensor (LH or RH) on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding.</li> <li>Check for visible signs of damage (dents, cracks, deformation, etc.) of the side air bag (satellite) sensor (LH or RH).</li> <li>Install the side air bag (satellite) sensor (LH or RH) to check fit.</li> <li>If no damage is found, reinstall the side sir bag (satellite) sensor (LH or RH) with new fasteners.</li> <li>If damaged – REPLACE the side air bag (satellite) sensor (LH or RH) with new fasteners.</li> </ol>
Diagnosis sensor unit	If none of the SRS components have been activated:  Check case and bracket for dents, cracks or deformities.  Check connectors for damage, and terminals for deformities.  If no damage is found, reinstall the diagnosis sensor unit with new fasteners.  If damaged – REPLACE the diagnosis sensor unit with new fasteners.
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	<ol> <li>If the pre-tensioners have NOT been activated:</li> <li>Remove seat belt pre-tensioners.         Check harness cover and connectors for damage, terminals for deformities, and harness for binding.</li> <li>Check belts for damage and anchors for loose mounting.</li> <li>Check retractor for smooth operation.</li> <li>Check seat belt adjuster for damage.</li> <li>Check for deformities of the center pillar inner.</li> <li>If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly.</li> <li>If no damage is found, reinstall seat belt pre-tensioners with new fasteners.</li> </ol>
Seat (with front side air bag)	If the front LH or front RH side air bag modules have NOT deployed:  1. Visually check the seat on the collision side.  2. Remove the seat on the collision side and check the following for damage and deformities.  - Harness, connectors and terminals  - Frame and recliner (for front and rear seat), and also adjuster and slides (for front seat)  3. If no damage is found, reinstall the seat.  4. If damaged – REPLACE the damaged seat parts using new fasteners. If the front seat back is damaged, the front seat back assembly must be replaced.
Center inner pillar	<ol> <li>Check the center inner pillar on the collision side for damage (dents, cracks, deformation, etc.).</li> <li>If damaged – REPAIR the center inner pillar.</li> </ol>

## < BASIC INSPECTION >

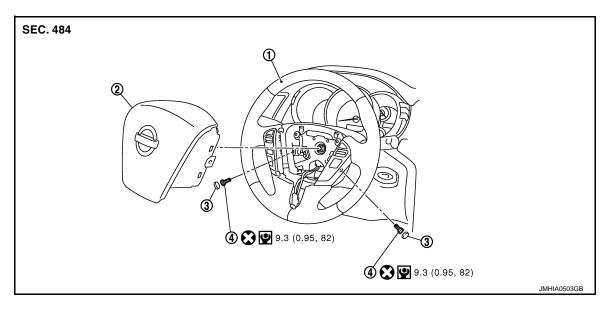
## [FOR USA AND CANADA]

Part	Inspection
Trim/headlining	<ol> <li>Check for visible signs of damage (dents, cracks, deformation, etc.) of the interior trim on the collision side.</li> <li>If damaged – REPLACE the damaged trim parts.</li> </ol>
Door-mounted curtain air bag module LH	<ol> <li>If the door-mounted curtain air bag LH has NOT deployed:</li> <li>Check for visible signs of damage (dents, tears, deformation, etc.) of the door finisher on the collision side.</li> <li>If damaged – REPLACE the door finisher LH with new fasteners.</li> <li>Check for visible signs of damaged (tears etc.) of the door-mounted curtain air bag module LH.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If no damage is found, reinstall door finisher.         CAUTION:         When removing door-mounted curtain air bag module from door finisher, never reuse door finisher.     </li> <li>If damaged – REPLACE the door finisher LH and door-mounted curtain air bag module LH with new fasteners.</li> </ol>
Door-mounted curtain air bag module RH	<ol> <li>If the door-mounted curtain air bag RH has NOT deployed:</li> <li>Check for visible signs of damage (dents, tears, deformation, etc.) of the door finisher on the collision side.</li> <li>If damaged – REPLACE the door finisher RH with new fasteners.</li> <li>Check for visible signs of damage (tears etc.) of the door-mounted curtain air bag module RH.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If no damage is found, reinstall door finisher.</li> <li>CAUTION:         <ul> <li>When removing door-mounted curtain air bag module from door finisher, never reuse door finisher.</li> </ul> </li> <li>If damaged – REPLACE the door finisher RH and door-mounted curtain air bag module RH with new fasteners.</li> </ol>
Pop-up roll bar	<ol> <li>If the pop-up roll bar has NOT deployed:</li> <li>Check for visible signs of damage (dents, tears, deformation, etc.) of the pop-up roll bar.</li> <li>If damaged – REPLACE the pop-up roll bar with new fasteners.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If no damage is found, reinstall the pop-up roll bar with new fasteners.</li> <li>Check for visible signs of damage (dents, cracks, deformation, etc.) of the seatback support brace assembly.</li> <li>If damaged – REPAIR the seatback support brace assembly.</li> </ol>

## REMOVAL AND INSTALLATION

## DRIVER AIR BAG MODULE

Exploded View



1. Steering wheel

- 2. Driver air bag module
- 3. Side lid (LH/RH)

- 4. TORX bolt (LH/RH)
- : Always replace after every disassembly.
- : N-m (kg-m, in-lb)

## Removal and Installation

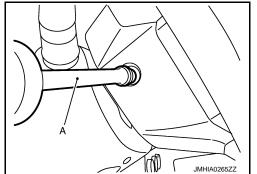
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#### **WARNING:**

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

#### REMOVAL

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



3. Pull out the driver air bag module.

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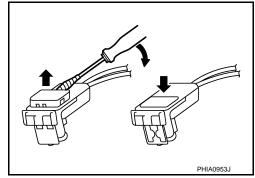
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#### < REMOVAL AND INSTALLATION >

- 4. Disconnect the driver air bag harness connector.
  - **CAUTION:**
  - For installing/removing the driver air bag 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.

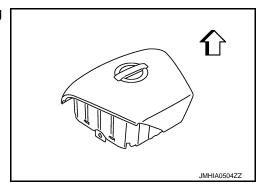


5. Remove the driver air bag module.

#### **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.



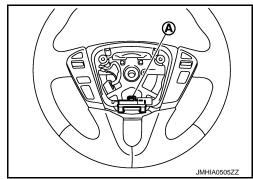
- Never insert any foreign objects (screwdriver, etc.) into the driver air bag module.
- Never disassemble the driver air bag module.
- Never expose the driver air bag module to temperatures exceeding 90 °C (194 °F).
- Never allow oil, grease, detergent, or water to come in contact with the driver air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

#### **INSTALLATION**

Install in the reverse order of removal.

#### **CAUTION:**

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



## **DRIVER AIR BAG MODULE**

## < REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

- 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 <a href="SRC-17">SRC-17</a>, "Diagnosis Description".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

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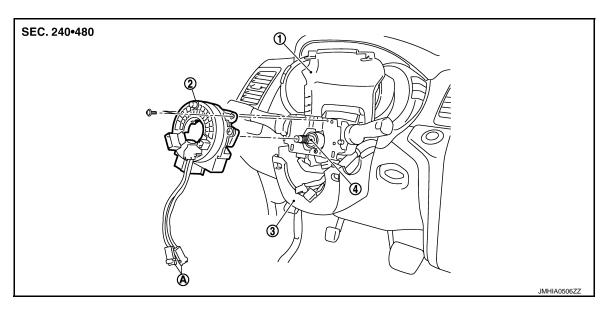
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## SPIRAL CABLE

Exploded View



- 1. Steering column cover (upper)
- 2. Spiral cable

3. Steering column cover (lower)

- 4. Steering column assembly
- A : Driver air bag harness connector

#### Removal and Installation

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#### **WARNING:**

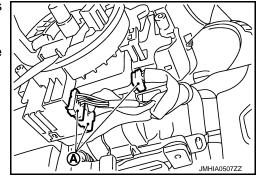
- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- · Never use the air tools or electric tools for servicing.

#### **REMOVAL**

- 1. Remove the driver air bag module. Refer to SR-11, "Removal and Installation".
- Remove the steering wheel. Refer to <u>ST-34, "Removal and Installation"</u>.
- 3. Remove the steering column cover (upper/lower). Refer to IP-12. "Exploded View".
- 4. Disconnect the spiral cable and steering angle sensor harness connectors (A).

#### NOTE:

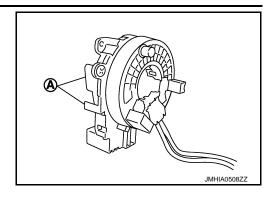
Disconnect the spiral cable and steering angle sensor body side harness connectors after removing the spiral cable.



Remove the spiral cable fixing screws.

#### < REMOVAL AND INSTALLATION >

Remove the spiral cable side pawls (A).



- 7. Pull out forward the spiral cable.
- Remove the steering angle sensor. Refer to BRC-125, "Removal and Installation".

#### **CAUTION:**

- Never impact the spiral cable.
- Never impact the spiral cable by dropping, etc. 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.

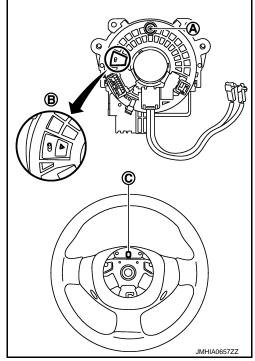
#### INSTALLATION

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 position is not as part to following.
  - The neutral position is set as per the following.
- Turn carefully 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 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).



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## **SPIRAL CABLE**

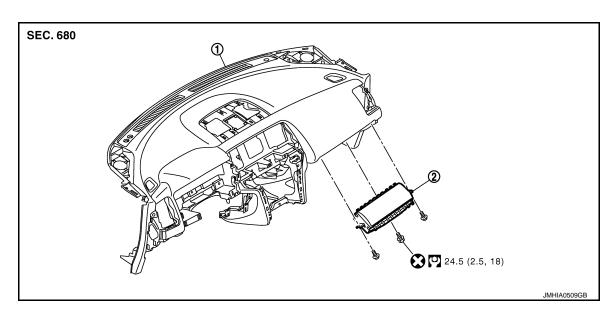
## < REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

- 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 <a href="SRC-17">SRC-17</a>, "Diagnosis Description".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

## FRONT PASSENGER AIR BAG MODULE

**Exploded View** INFOID:0000000006262767



Instrument panel assembly

Front passenger air bag module

: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

## Removal and Installation

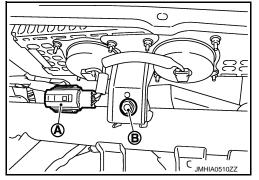
#### **WARNING:**

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 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 lid assembly. Refer to IP-13, "Removal and Installation".
- Remove the Instrument lower assist panel. Refer to IP-13, "Removal and Installation".
- Disconnect the front passenger air bag harness connector (A).
- Remove the front passenger air bag module fixing bolt (B). 4. NOTE:

The figure shows the installed front passenger air bag module. (Under view of the module installed without glove box cover.)



Remove the instrument panel assembly (1). Refer to IP-13, "Removal and Installation".

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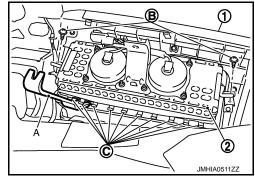
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#### FRONT PASSENGER AIR BAG MODULE

#### < REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

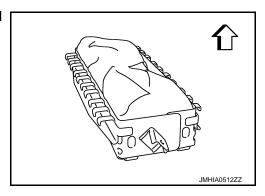
- 6. Remove the front passenger air bag module fixing screws (B).
- 7. Disconnect the pawls (C) by using remover tool (A), and then remove the front passenger air bag module (2) from instrument panel.



#### **CAUTION:**

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





- Never impact the 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 front passenger air bag module.
- Never disassembly 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

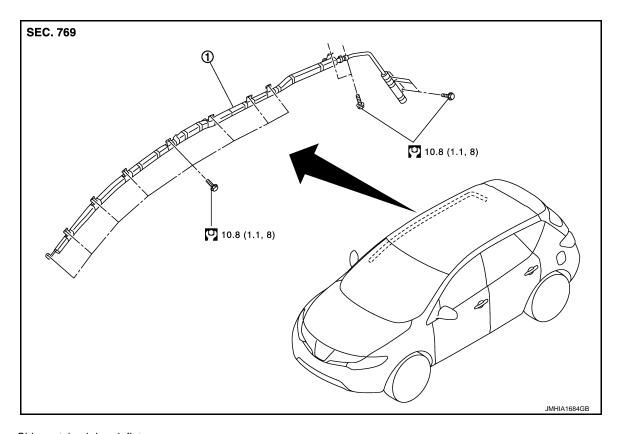
Install in the reverse order of removal.

#### **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 <a href="SRC-17">SRC-17</a>, "Diagnosis Description".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

## SIDE CURTAIN AIR BAG MODULE

Exploded View



Side curtain air bag inflator

: N·m (kg-m, ft-lb)

## Removal and Installation

#### **WARNING:**

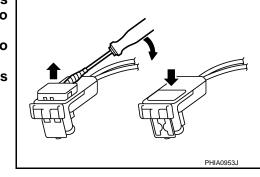
- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Always work from the side of air bag module. Never work in front of it.
- Never use air tools or electric tools for servicing.

#### **REMOVAL**

- Remove the headlining.
  - Normal roof models: Refer to <u>INT-27</u>, "NORMAL ROOF: Removal and Installation".
  - Sunroof models: Refer to <u>INT-30</u>, "SUNROOF: Removal and Installation".
- 2. Remove the side curtain air bag harness connector.

#### **CAUTION:**

- For installing/removing the side curtain air bag 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.



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## SIDE CURTAIN AIR BAG MODULE

## < REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

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**

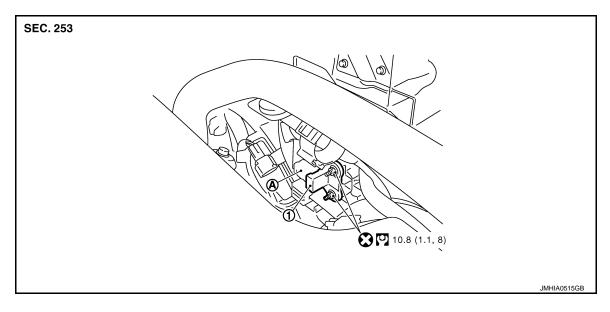
Install in the reverse order of removal.

#### **CAUTION:**

- 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 <a href="SRC-19">SRC-19</a>, "CONSULT-III Function".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

## **CRASH ZONE SENSOR**

Exploded View



1. Crash zone sensor

A : Crash zone sensor harness connector

: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

## Removal and Installation

WARNING:

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

## **REMOVAL**

- 1. Remove the radiator cover grill (RH). Refer to EM-31, "Exploded View".
- Remove the air duct (inlet). Refer to <u>EM-31, "Exploded View"</u>.
- 3. Remove the crash zone sensor fixing nuts.
- 4. Disconnect the crash zone sensor harness connector, and then remove the crash zone sensor.

#### CAUTION:

- 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** 

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## **CRASH ZONE SENSOR**

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

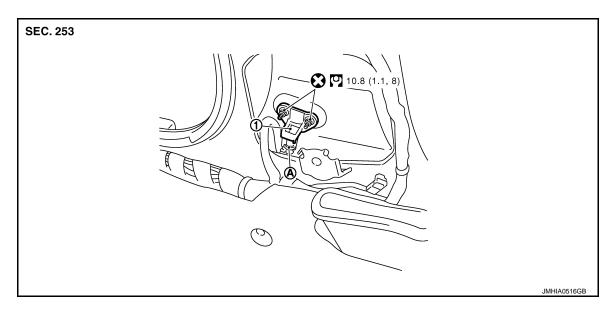
Install in the reverse order of removal.

#### **CAUTION:**

- · Never use the old fixing nuts after removal, replace with the new nuts.
- 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 <a href="SRC-17">SRC-17</a>, "Diagnosis Description".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

## SIDE AIR BAG (SATELLITE) SENSOR

Exploded View



1. Side air bag (satellite) sensor

A : Side air bag (satellite) sensor harness connector

: Always replace after every disassembly.

: N-m (kg-m, ft-lb)

## Removal and Installation

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 seat belt. Refer to SB-7, "SEAT BELT RETRACTOR: Removal and Installation".
- 2. Remove the side air bag (satellite) sensor fixing nuts.
- 3. Disconnect the side air bag (satellite) sensor 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.



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

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## SIDE AIR BAG (SATELLITE) SENSOR

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

#### **INSTALLATION**

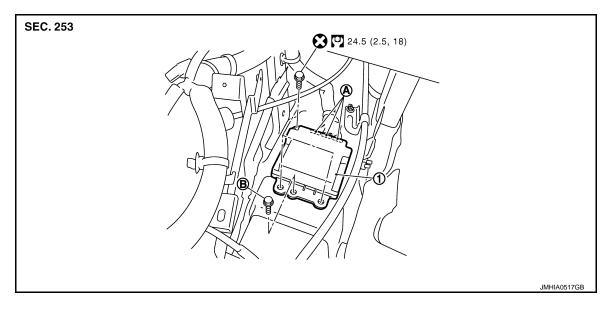
Install in the reverse order of removal.

#### **CAUTION:**

- Never use the old fixing nuts after removal, replace with the new nuts.
- 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 <a href="SRC-17">SRC-17</a>, "Diagnosis Description".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

## **DIAGNOSIS SENSOR UNIT**

Exploded View



Diagnosis sensor unit

A : Diagnosis sensor unit harness connector

B : Ground bolt

: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

## Removal and Installation

#### **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

- 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 instrument lower cover (LH and RH). Refer to IP-20, "Exploded View".
- 4. Remove the rear foot duct 1 (LH and RH). Refer to VTL-123, "REAR FOOT DUCT 1: Exploded View".
- 5. Remove the instrument stay LH. Refer to IP-20, "Exploded View".
- 6. Remove the front console bracket. Refer to IP-20, "Exploded View".
- 7. Disconnect the diagnosis sensor unit harness connectors.
- Remove the fixing bolts, ground bolt, and then remove the diagnosis sensor unit.

#### **CAUTION:**

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## DIAGNOSIS SENSOR UNIT

#### < REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

 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 pretensioner.

#### INSTALLATION

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

#### **CAUTION:**

- Never use the old fixing bolts after removal, replace with the new fixing bolts.
- 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 <a href="SRC-17">SRC-17</a>, "Diagnosis Description".
- 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 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.

## FRONT SEAT BELT PRE-TENSIONER

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

## FRONT SEAT BELT PRE-TENSIONER

## Removal and Installation

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For removal and installation procedures, refer to <u>SB-7, "SEAT BELT RETRACTOR: Removal and Installation"</u>.

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## **OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT**

< REMOVAL AND INSTALLATION >

[FOR USA AND CANADA]

## OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

## Removal and Installation

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For removal and installation

The occupant classification system control unit and seat sensor mat are an integral part of the front passenger seat cushion and are replaced as an assembly. Refer to <u>SE-97</u>, "Removal and Installation".

## **PRECAUTIONS**

< PRECAUTION > [FOR MEXICO]

## **PRECAUTION**

## **PRECAUTIONS**

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

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. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### **WARNING:**

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- 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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the
  ignition ON or engine running, never 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.

Service (INFOID:0000000000262780

- Do not 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 battery negative terminal is removed, it is still possible for the air bag and seat belt pre-tensioner to deploy. Therefore, do not 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. Do not 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.

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< PREPARATION > [FOR MEXICO]

## **PREPARATION**

## **PREPARATION**

## **Commercial Service Tools**

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	Tool name	Description
Tamper resistant TORX bit	S-NT767	Removes driver air bag module
Remover tool	JMKIA3050ZZ	Removes clips, pawls, and metal clip

< BASIC INSPECTION > [FOR MEXICO]

## **BASIC INSPECTION**

# COLLISION DIAGNOSIS FOR FRONTAL COLLISION

FOR FRONTAL COLLISION: When SRS is activated in a collision

#### INFOID:0000000006262782

#### **CAUTION:**

Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.

#### **WORK PROCEDURE**

- 1. Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
- 2. Replace the diagnosis sensor unit.
- 3. Remove the front air bag modules, crash zone sensor, bracket and seat belt pre-tensioner assemblies.
- 4. Check the SRS components using the table below: Replace any SRS components showing visible signs of damage. (dents, cracks and deformation, etc.)
- Install new front air bag modules, crash zone sensor assembly, bracket and seat belt pre-tensioner assemblies.
- 6. Perform self-diagnosis using CONSULT-III or air bag warning lamp. Refer to <a href="SRC-186">SRC-186</a>, "Diagnosis Description" for details. Ensure entire SRS operates properly.
- 7. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to <a href="SRC-186">SRC-186</a>, "Diagnosis Description".

## SRS INSPECTION (FOR FRONTAL COLLISION)

Part	Inspection
Driver air bag module	If the driver air bag has deployed: REPLACE Install with new fasteners.
Front passenger air bag module (if equipped)	If the front passenger air bag has deployed: REPLACE Install with new fasteners.
Crash zone sensor	If any of the front air bags or seat belt pre-tensioners* have been activated:  REPLACE the crash zone sensor and bracket with new fasteners.  *: Confirm seat belt pre-tensioner activation using CONSULT-III only.
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	If either the driver or passenger seat belt pre-tensioner* has been activated: REPLACE all seat belt pre-tensioner assemblies with new fasteners. *: Confirm seat belt pre-tensioner activation using CONSULT-III only.
Diagnosis sensor unit	If any of the SRS components have been activated: REPLACE the diagnosis sensor unit. Install with new fasteners.
Steering wheel	<ol> <li>Visually check steering wheel for deformities.</li> <li>Check harness (built into steering wheel) and connectors for damage, and terminals for deformities.</li> <li>Install driver air bag module into the steering wheel to check fit and alignment with the wheel.</li> <li>Check steering wheel for excessive free play.</li> <li>If no damage is found, reinstall.</li> <li>If damaged – REPLACE.</li> </ol>
Spiral cable	If the driver front air bag has deployed: REPLACE the spiral cable.
Occupant classification system (Passenger seat)	<ol> <li>Remove passenger seat assembly.</li> <li>Check control unit case for dents, cracks of deformities.</li> <li>Check connectors and pressure sensor tube for damage, and terminals for deformities.</li> <li>Check seat frame and cushion pan for dents or deformities.</li> <li>If no damage is found, reinstall seat with new fasteners.</li> <li>If damaged – REPLACE seat cushion assembly with new fasteners.</li> </ol>

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< BASIC INSPECTION > [FOR MEXICO]

Part	Inspection
Harness and connectors	<ol> <li>Check connectors for poor connection, damage, and terminals for deformities.</li> <li>Check harness for binding, chafing, cuts, or deformities.</li> <li>If no damage is found, reinstall the harness and connectors.</li> <li>If damaged – REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness.</li> </ol>
Instrument panel assembly	If the front passenger air bag has deployed: REPLACE the instrument panel assembly. (integrated type)

## FOR FRONTAL COLLISION: When SRS is not activated in a collision

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#### **CAUTION:**

Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.

#### **WORK PROCEDURE**

- Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
- 2. Check the SRS components using the table below:
  Replace any SRS components showing visible signs of damage. (dents, cracks and deformation, etc.)
- 3. Perform self-diagnosis using CONSULT-III or air bag warning lamp. Refer to <a href="SRC-186">SRC-186</a>, "Diagnosis Description" for details. Ensure entire SRS operates properly.
- 4. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to SRC-186, "Diagnosis Description".

## SRS INSPECTION (FOR FRONTAL COLLISION)

Part	Inspection
Driver air bag module	<ol> <li>If the driver air bag has NOT been deployed:</li> <li>Remove driver air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding.</li> <li>Install driver air bag module into the steering wheel to check fit and alignment with the wheel.</li> <li>If no damage is found, reinstall with new fasteners.</li> <li>If damaged – REPLACE. Install driver air bag module with new fasteners.</li> </ol>
Front passenger air bag module (if equipped)	<ol> <li>If the front passenger air bag has NOT been deployed:</li> <li>Remove front passenger air bag module. Check harness cover and connectors for damage, ter minals for deformities, and harness for binding.</li> <li>Install front passenger air bag module into the instrument panel to check fit with the instrument panel.</li> <li>If no damage is found, reinstall with new fasteners.</li> <li>If damaged – REPLACE. Install front passenger air bag modules with new fasteners.</li> </ol>
Crash zone sensor	<ol> <li>If the front air bags or seat belt pre-tensioners have NOT been activated:</li> <li>Remove the crash zone sensor. Check harness connectors for damage, terminals for deformities, and harness for binding.</li> <li>Check for visible signs of damage (dents, cracks, deformation, etc.) of the crash zone sensor and bracket.</li> <li>Install the crash zone sensor to check fit.</li> <li>If no damage is found, reinstall with new fasteners.</li> <li>If damaged – REPLACE the crash zone sensor and bracket with new fasteners.</li> </ol>
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	<ol> <li>If the pre-tensioners have NOT been activated:</li> <li>Remove seat belt pre-tensioners.         Check harness cover and connectors for damage, terminals for deformities, and harness for binding.     </li> <li>Check belts for damage and anchors for loose mounting.</li> <li>Check retractor for smooth operation.</li> <li>Check seat belt adjuster for damage.</li> <li>Check for deformities of the center pillar inner.</li> <li>If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly.</li> <li>If no damage is found, reinstall seat belt pre-tensioners with new fasteners.</li> </ol>

[FOR MEXICO] < BASIC INSPECTION >

Part	Inspection
Diagnosis sensor unit	If none of the SRS components have been activated:  1. Check case for dents, cracks or deformities.  2. Check connectors for damage, and terminals for deformities.  3. If no damage is found, reinstall with new fasteners.  4. If damaged – REPLACE. Install diagnosis sensor unit with new fasteners.
Steering wheel	<ol> <li>Visually check steering wheel for deformities.</li> <li>Check harness (built into steering wheel) and connectors for damage, and terminals for deformities.</li> <li>Install driver air bag module into the steering wheel to check fit and alignment with the wheel.</li> <li>Check steering wheel for excessive free play.</li> <li>If no damage is found, reinstall.</li> <li>If damaged – REPLACE.</li> </ol>
Spiral cable	If the driver front air bag has not deployed:  1. Visually check spiral cable and combination switch for damage.  2. Check connectors and protective tape for damage.  3. Check steering wheel for noise, binding or heavy operation.  4. If no damage is found, reinstall.  5. If damaged – REPLACE.
Occupant classification system (Passenger seat)	<ol> <li>Remove passenger seat assembly.</li> <li>Check control unit case for dents, cracks of deformities.</li> <li>Check connectors and pressure sensor tube for damage, and terminals for deformities.</li> <li>Check seat frame and cushion pan for dents or deformities.</li> <li>If no damage is found, reinstall seat with new fasteners.</li> <li>If damaged – REPLACE seat cushion assembly with new fasteners.</li> </ol>
Harness and connectors	<ol> <li>Check connectors for poor connection, damage, and terminals for deformities.</li> <li>Check harness for binding, chafing, cuts, or deformities.</li> <li>If no damage is found, reinstall the harness and connectors.</li> <li>If damaged – REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness.</li> </ol>
Instrument panel assembly	If the front passenger air bag has NOT deployed:  1. Visually check instrument panel assembly for damage.  2. If no damage is found, reinstall the instrument panel assembly.  3. If damaged – REPLACE the instrument panel assembly.  LLOVER COLLISION

## FOR SIDE AND ROLLOVER COLLISION

## FOR SIDE AND ROLLOVER COLLISION: When SRS is activated in a collision

INFOID:0000000006262784

#### **CAUTION:**

Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.

#### **WORK PROCEDURE**

1. Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.

2. Replace the following components:

- Front seat back assembly (on the side on which side air bag is activated)
- Door finisher (on the side on which door-mounted curtain air bag is activated)
- Pop-up roll bar assemblies and pop-up roll bar covers
- Side air bag (satellite) sensor LH/RH (on the side on which side air bag is activated)
- · Diagnosis sensor unit
- Seat belt pre-tensioner assemblies
- 3. Check the SRS components and the related parts using the following table. Replace any SRS components and the related parts showing visible signs of damage. (dents, cracks, deformation, etc.)
- 4. Perform self-diagnosis using CONSULT-III and "AIR BAG" warning lamp. Refer to SRC-186, "Diagnosis <u>Description</u>" for details. Make sure entire SRS operates properly.
- 5. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to SRC-186, "Diagnosis Description".

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## SRS INSPECTION (FOR SIDE AND ROLLOVER COLLISION)

Part	Inspection
Side curtain air bag module LH	If the side curtain air bag LH has deployed: REPLACE the side curtain air bag module LH. Install with new fasteners.
Side curtain air bag module RH	If the side curtain air bag RH has deployed: REPLACE the side curtain air bag module RH. Install with new fasteners.
Front side air bag module LH	If the front side air bag LH has deployed: REPLACE front seatback assembly LH.
Front side air bag module RH	If the front side air bag RH has deployed: REPLACE front seatback assembly RH.
Side air bag (satellite) sensor (LH or RH)	If any of the SRS components have deployed: REPLACE the side air bag (satellite) sensor on the collision side with new fasteners.
Diagnosis sensor unit	If any of the SRS components have deployed: REPLACE the diagnosis sensor unit with new fasteners.
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	If either the driver or passenger seat belt pre-tensioner* has been activated: REPLACE all seat belt pre-tensioner assemblies with new fasteners. *: Confirm seat belt pre-tensioner activation using CONSULT-III only.
Center inner pillar	<ol> <li>Check the center inner pillar on the collision side for damage (dents, cracks, deformation, etc.).</li> <li>If damaged – REPAIR the center inner pillar.</li> </ol>
Trim/headlining	<ol> <li>Check for visible signs of damage (dents, cracks, deformation, etc.) of the interior trim on the collision side.</li> <li>If damaged – REPLACE the damaged trim parts.</li> </ol>
Door-mounted curtain air bag module LH	If the door-mounted curtain air bag module LH has deployed: REPLACE the door finisher LH and door-mounted curtain air bag module. Install with new fasteners.
Door-mounted curtain air bag module RH	If the door-mounted curtain air bag module RH has deployed: REPLACE the door finisher RH and door-mounted curtain air bag module. Install with new fasteners.
Pop-up roll bar assemblies	If the pop-up roll bar has deployed: REPLACE pop-up roll bar assemblies and pop-up roll bar covers. Install with new fasteners.

FOR SIDE AND ROLLOVER COLLISION: When SRS is not activated in a collision

NFOID:0000000000626278

#### **CAUTION:**

Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.

#### **WORK PROCEDURE**

- 1. Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
- Check the SRS components and the related parts using the following table.
  - If the front seat back assembly is damaged, the front seat back assembly must be replaced.
  - If the door finisher assembly is damaged, the door finisher assembly and door-mounted curtain air bag module must be replaced.
- 3. Perform self-diagnosis using CONSULT-III and "AIR BAG" warning lamp. Refer to <u>SRC-186, "Diagnosis Description"</u> for details. Make sure entire SRS operates properly.
- 4. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to SRC-186, "Diagnosis Description".

SRS INSPECTION (FOR SIDE AND ROLLOVER COLLISION)

< BASIC INSPECTION > [FOR MEXICO]

Part	Inspection
Side curtain air bag module LH	<ul><li>If the side curtain air bag LH has NOT deployed:</li><li>1. Check for visible signs of damage (dents, tears, deformation, etc.) of the center pillar on the collision side.</li></ul>
	<ol> <li>If damaged – Remove the side curtain air bag module LH.</li> <li>Check for visible signs of damage (tears etc.) of the side curtain air bag module LH.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If no damage is found, reinstall the side curtain air bag module LH with new fasteners.</li> <li>If damaged – REPLACE the side curtain air bag module LH with new fasteners.</li> </ol>
Side curtain air bag module RH	<ol> <li>If the side curtain air bag RH has NOT deployed:</li> <li>Check for visible signs of damage (dents, tears, deformation, etc.) of the center pillar on the collision side.</li> <li>If damaged – Remove the side curtain air bag module RH.</li> <li>Check for visible signs of damage (tears etc.) of the side curtain air bag module RH.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If no damage is found, reinstall the side curtain air bag module RH with new fasteners.</li> <li>If damaged – REPLACE the side curtain air bag module RH with new fasteners.</li> </ol>
Front side air bag module LH	<ol> <li>If the front side air bag LH has NOT deployed:</li> <li>Check for visible signs of damage (dents, tears, deformation, etc.) of the seat back on the collision side.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If damaged – REPLACE the front seatback assembly LH.</li> </ol>
Front side air bag module RH	<ol> <li>If the front side air bag RH has NOT deployed:</li> <li>Check for visible signs of damage (dents, tears, deformation, etc.) of the seat back on the collision side.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If damaged – REPLACE the front seatback assembly RH.</li> </ol>
Side air bag (satellite) sensor (LH or RH)	<ol> <li>If none of the SRS components have been activated:</li> <li>Remove the side air bag (satellite) sensor (LH or RH) on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding.</li> <li>Check for visible signs of damage (dents, cracks, deformation, etc.) of the side air bag (satellite) sensor (LH or RH).</li> <li>Install the side air bag (satellite) sensor (LH or RH) to check fit.</li> <li>If no damage is found, reinstall the side sir bag (satellite) sensor (LH or RH) with new fasteners.</li> <li>If damaged – REPLACE the side air bag (satellite) sensor (LH or RH) with new fasteners.</li> </ol>
Diagnosis sensor unit	If none of the SRS components have been activated:  Check case and bracket for dents, cracks or deformities.  Check connectors for damage, and terminals for deformities.  If no damage is found, reinstall the diagnosis sensor unit with new fasteners.  If damaged – REPLACE the diagnosis sensor unit with new fasteners.
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	<ol> <li>If the pre-tensioners have NOT been activated:</li> <li>Remove seat belt pre-tensioners.         Check harness cover and connectors for damage, terminals for deformities, and harness for binding.     </li> <li>Check belts for damage and anchors for loose mounting.</li> <li>Check retractor for smooth operation.</li> <li>Check seat belt adjuster for damage.</li> <li>Check for deformities of the center pillar inner.</li> <li>If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly.</li> <li>If no damage is found, reinstall seat belt pre-tensioner swith new fasteners.</li> </ol>
Seat (with front side air bag)	<ol> <li>If damaged – REPLACE. Install the seat belt pre-tensioners with new fasteners.</li> <li>If the front LH or front RH side air bag modules have NOT deployed:         <ol> <li>Visually check the seat on the collision side.</li> <li>Remove the seat on the collision side and check the following for damage and deformities.</li> <li>Harness, connectors and terminals</li> <li>Frame and recliner (for front and rear seat), and also adjuster and slides (for front seat)</li> </ol> </li> <li>If no damage is found, reinstall the seat.</li> <li>If damaged – REPLACE the damaged seat parts using new fasteners. If the front seat back is damaged, the front seat back assembly must be replaced.</li> </ol>
Center inner pillar	<ol> <li>Check the center inner pillar on the collision side for damage (dents, cracks, deformation, etc.).</li> <li>If damaged – REPAIR the center inner pillar.</li> </ol>

< BASIC INSPECTION >

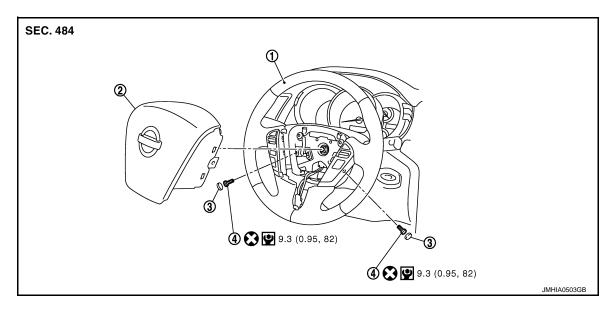
[FOR MEXICO]

Part	Inspection
Trim/headlining	<ol> <li>Check for visible signs of damage (dents, cracks, deformation, etc.) of the interior trim on the collision side.</li> <li>If damaged – REPLACE the damaged trim parts.</li> </ol>
Door-mounted curtain air bag module LH	<ol> <li>If the door-mounted curtain air bag LH has NOT deployed:</li> <li>Check for visible signs of damage (dents, tears, deformation, etc.) of the door finisher on the collision side.</li> <li>If damaged – REPLACE the door finisher LH with new fasteners.</li> <li>Check for visible signs of damaged (tears etc.) of the door-mounted curtain air bag module LH.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If no damage is found, reinstall door finisher.         CAUTION:         When removing door-mounted curtain air bag module from door finisher, never reuse door finisher.     </li> <li>If damaged – REPLACE the door finisher LH and door-mounted curtain air bag module LH with new fasteners.</li> </ol>
Door-mounted curtain air bag module RH	<ol> <li>If the door-mounted curtain air bag RH has NOT deployed:</li> <li>Check for visible signs of damage (dents, tears, deformation, etc.) of the door finisher on the collision side.</li> <li>If damaged – REPLACE the door finisher RH with new fasteners.</li> <li>Check for visible signs of damage (tears etc.) of the door-mounted curtain air bag module RH.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If no damage is found, reinstall door finisher.</li> <li>CAUTION:         <ul> <li>When removing door-mounted curtain air bag module from door finisher, never reuse door finisher.</li> </ul> </li> <li>If damaged – REPLACE the door finisher RH and door-mounted curtain air bag module RH with new fasteners.</li> </ol>
Pop-up roll bar	<ol> <li>If the pop-up roll bar has NOT deployed:</li> <li>Check for visible signs of damage (dents, tears, deformation, etc.) of the pop-up roll bar.</li> <li>If damaged – REPLACE the pop-up roll bar with new fasteners.</li> <li>Check harness and connectors for damage, and terminals for deformities.</li> <li>If no damage is found, reinstall the pop-up roll bar with new fasteners.</li> <li>Check for visible signs of damage (dents, cracks, deformation, etc.) of the seatback support brace assembly.</li> <li>If damaged – REPAIR the seatback support brace assembly.</li> </ol>

# REMOVAL AND INSTALLATION

## DRIVER AIR BAG MODULE

Exploded View



1. Steering wheel

TORX bolt (LH/RH)

: Do not reuse

: N·m (kg-m, in-lb)

2. Driver air bag module

3. Side lid (LH/RH)

### Removal and Installation

**WARNING:** 

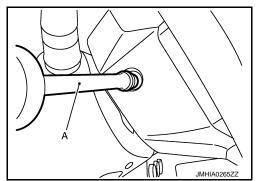
 Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.

**SR-37** 

- 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**

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



3. Pull out the driver air bag module.

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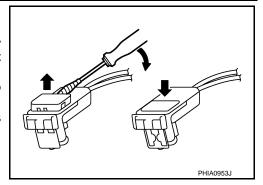
2011 MURANO

### < REMOVAL AND INSTALLATION >

4. Disconnect the driver air bag harness connector.

### **CAUTION:**

- For installing/removing the driver air bag 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.

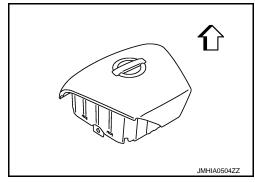


5. Remove the driver air bag module.

#### **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.

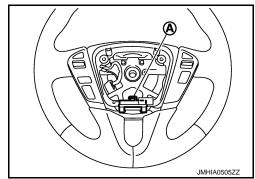


- Never insert any foreign objects (screwdriver, etc.) into the driver air bag module.
- Never disassemble the driver air bag module.
- Never expose the driver air bag module to temperatures exceeding 90 °C (194 °F).
- Never allow oil, grease, detergent, or water to come in contact with the driver air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

### **INSTALLATION**

Install in the reverse order of removal.

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



## **DRIVER AIR BAG MODULE**

## < REMOVAL AND INSTALLATION >

[FOR MEXICO]

- 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 <a href="SRC-17">SRC-17</a>, "Diagnosis Description".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

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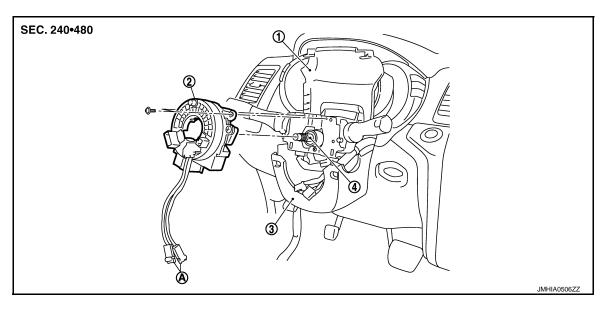
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## SPIRAL CABLE

Exploded View



- 1. Steering column cover (upper)
- 2. Spiral cable

3. Steering column cover (lower)

- Steering column assembly
- A. Driver air bag harness connector

### Removal and Installation

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#### **WARNING:**

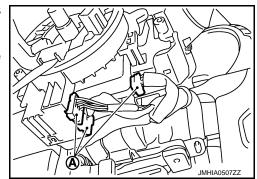
- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Never use the air tools or electric tools for servicing.

### **REMOVAL**

- 1. Remove the driver air bag module. Refer to SR-37, "Removal and Installation".
- Remove the steering wheel. Refer to <u>ST-34, "Removal and Installation"</u>.
- 3. Remove the steering column cover (upper/lower). Refer to IP-12, "Exploded View".
- 4. Disconnect the spiral cable and steering angle sensor harness connectors (A).

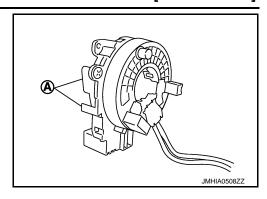
### NOTE:

Disconnect the spiral cable and steering angle sensor body side harness connectors after removing the spiral cable.



5. Remove the spiral cable fixing screws.

6. Remove the spiral cable side pawls (A).



- 7. Pull out forward the spiral cable.
- Remove the steering angle sensor. Refer to BRC-125, "Removal and Installation".

#### **CAUTION:**

- Never impact the spiral cable.
- Never impact the spiral cable by dropping, etc. 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.

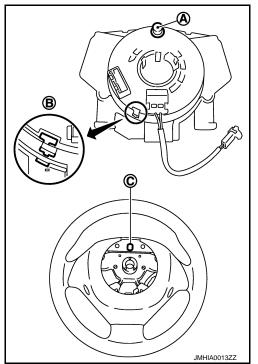
#### INSTALLATION

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 pourtal position is not as par the following.
  - The neutral position is set as per the following.
- Turn carefully 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 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).



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## **SPIRAL CABLE**

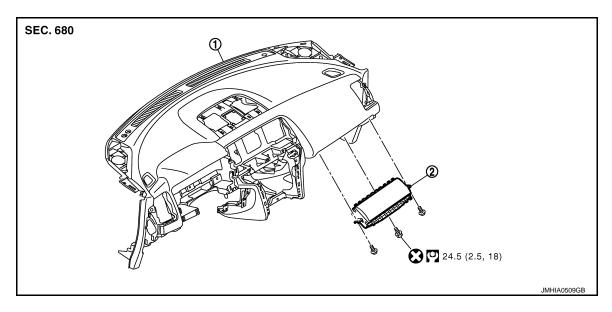
### < REMOVAL AND INSTALLATION >

[FOR MEXICO]

- 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 <a href="SRC-17">SRC-17</a>, "Diagnosis Description".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

## FRONT PASSENGER AIR BAG MODULE

**Exploded View** INFOID:0000000006262790



Instrument panel assembly

Front passenger air bag module

: Do not reuse

: N-m (kg-m, ft-lb)

## Removal and Installation

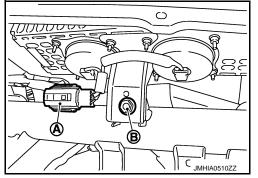
**WARNING:** 

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 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 lid assembly. Refer to IP-13, "Removal and Installation".
- Remove the Instrument lower assist panel. Refer to IP-13, "Removal and Installation".
- Disconnect the front passenger air bag harness connector (A).
- Remove the front passenger air bag module fixing bolt (B). 4. NOTE:

The figure shows the installed front passenger air bag module. (Under view of the module installed without glove box cover.)



Remove the instrument panel assembly (1). Refer to IP-13, "Removal and Installation".

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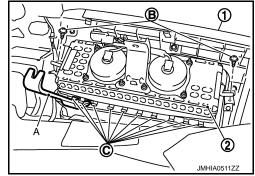
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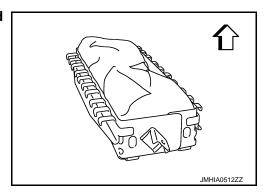
- Remove the front passenger air bag module fixing screws (B).
- 7. Disconnect the pawls (C) by using remover tool (A), and then remove the front passenger air bag module (2) from instrument panel.



#### **CAUTION:**

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





- Never impact the 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 front passenger air bag module.
- Never disassembly 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.

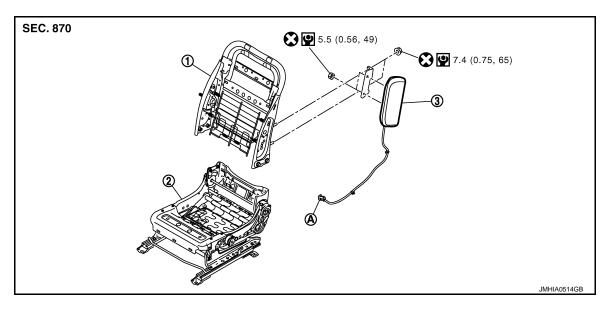
#### INSTALLATION

Install in the reverse order of removal.

- 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 <a href="SRC-17">SRC-17</a>, "Diagnosis Description".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

## FRONT SIDE AIR BAG MODULE

Exploded View



Seatback flame

2. Seat cushion flame

3. Front side air bag module

A. Front side air bag harness connector

: Do not reuse

: N·m (kg-m, in-lb)

## Removal and Installation

INFOID:0000000006262793

### **REMOVAL**

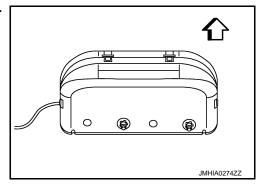
#### **WARNING:**

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes.
- Always work from the rear of the front side air bag module.
- Never use the air tools or electric tools for servicing.
- 1. Remove the front seat. Refer to <u>SE-97, "Removal and Installation"</u>.
- Remove the seatback board. Refer to <u>SE-90, "Exploded View"</u>.
- Remove the front side air bag module fixing nuts, and/or harness connector.
- 4. Remove the front side air bag module.

#### **CAUTION:**

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

< > : Upward



Never impact the front side air bag module.

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## FRONT SIDE AIR BAG MODULE

### < REMOVAL AND INSTALLATION >

[FOR MEXICO]

 Replace the front side air bag module if it has been dropped or sustained an impact.



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

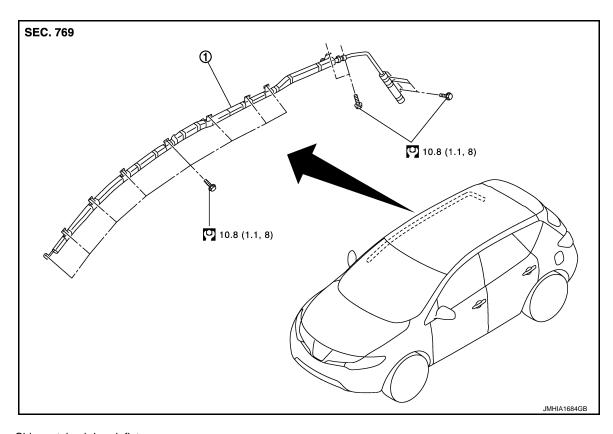
## **INSTALLATION**

Install in the reverse order of removal.

- Never use the old fixing nuts after removal, replace with the new nuts.
- 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 <a href="SRC-186">SRC-186</a>, "Diagnosis Description".
- After the work is completed, check that no malfunctioning system is detected by air bag warning lamp.

## SIDE CURTAIN AIR BAG MODULE

Exploded View



1. Side curtain air bag inflator

: N·m (kg-m, ft-lb)

### Removal and Installation

### **WARNING:**

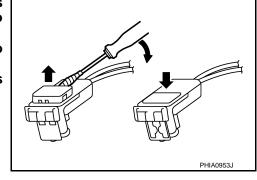
- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Never use air tools or electric tools for servicing.

## REMOVAL

- 1. Remove the headlining.
  - Normal roof models: Refer to INT-27, "NORMAL ROOF: Removal and Installation".
  - Sunroof models: Refer to <a href="INT-30">INT-30</a>, "SUNROOF: Removal and Installation".
- 2. Disconnect the side curtain air bag harness connector.

#### **CAUTION:**

- For installing/removing the side curtain air bag 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.



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## SIDE CURTAIN AIR BAG MODULE

< REMOVAL AND INSTALLATION >

[FOR MEXICO]

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.

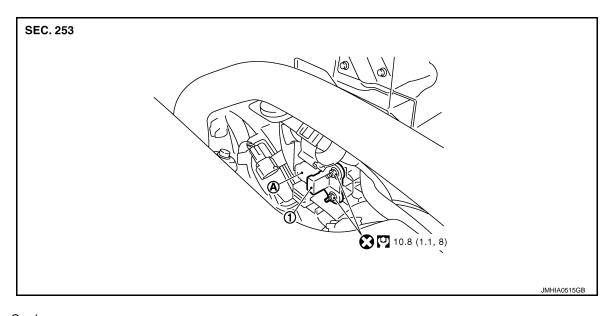
### **INSTALLATION**

Install in the reverse order of removal.

- 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 <a href="SRC-17">SRC-17</a>, "Diagnosis Description".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

## **CRASH ZONE SENSOR**

Exploded View



Crash zone sensor

Crash zone sensor harness connector

: Do not reuse

: N·m (kg-m, ft-lb)

### Removal and Installation

WARNING:

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

**REMOVAL** 

- Remove the radiator cover grill (RH). Refer to <u>EM-31, "Exploded View"</u>.
- Remove the air duct (inlet). Refer to <u>EM-31, "Exploded View"</u>.
- 3. Remove the crash zone sensor fixing nuts.
- 4. Disconnect the crash zone sensor harness connector, and then remove the crash zone sensor.

CAUTION:

- 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** 

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## **CRASH ZONE SENSOR**

< REMOVAL AND INSTALLATION >

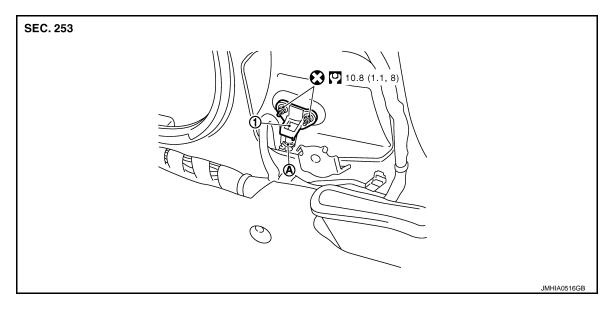
[FOR MEXICO]

Install in the reverse order of removal.

- · Never use the old fixing nuts after removal, replace with the new nuts.
- 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 <a href="SRC-17">SRC-17</a>, "Diagnosis Description".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

## SIDE AIR BAG (SATELLITE) SENSOR

Exploded View



Side air bag (satellite) sensor

A. Side air bag (satellite) sensor harness connector

: Do not reuse

: N-m (kg-m, ft-lb)

### Removal and Installation

#### **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 seat belt. Refer to SB-7, "SEAT BELT RETRACTOR: Removal and Installation".
- 2. Remove the side air bag (satellite) sensor fixing nuts.
- 3. Disconnect the side air bag (satellite) sensor 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.



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

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## SIDE AIR BAG (SATELLITE) SENSOR

< REMOVAL AND INSTALLATION >

[FOR MEXICO]

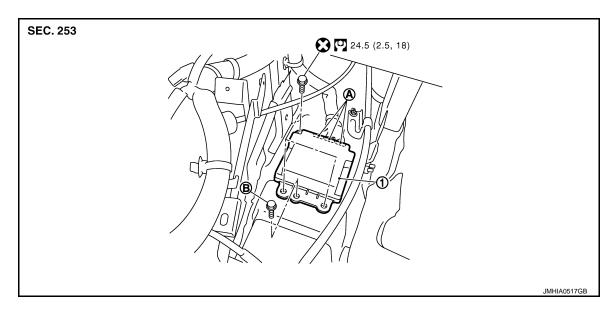
### **INSTALLATION**

Install in the reverse order of removal.

- Never use the old fixing nuts after removal, replace with the new nuts.
- 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 <a href="SRC-17">SRC-17</a>, "Diagnosis Description".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

## **DIAGNOSIS SENSOR UNIT**

Exploded View



Diagnosis sensor unit

A. Diagnosis sensor unit harness connector

B. Ground bolt

: Do not reuse

: N·m (kg-m, ft-lb)

## Removal and Installation

#### **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

- 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 instrument lower cover (LH and RH). Refer to IP-20, "Exploded View".
- 4. Remove the rear foot duct 1 (LH and RH). Refer to VTL-123, "REAR FOOT DUCT 1: Exploded View".
- 5. Remove the instrument stay LH. Refer to IP-20, "Exploded View".
- 6. Remove the front console bracket. Refer to IP-20, "Exploded View".
- 7. Disconnect the diagnosis sensor unit harness connectors.
- Remove the fixing bolts, ground bolt, and then remove the diagnosis sensor unit.

#### **CAUTION:**

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### DIAGNOSIS SENSOR UNIT

#### < REMOVAL AND INSTALLATION >

[FOR MEXICO]

 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 pretensioner.

#### INSTALLATION

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

#### **CAUTION:**

- Never use the old fixing bolts after removal, replace with the new fixing bolts.
- 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 <a href="SRC-17">SRC-17</a>, "Diagnosis Description".
- 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 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.

## FRONT SEAT BELT PRE-TENSIONER

< REMOVAL AND INSTALLATION >

[FOR MEXICO]

## FRONT SEAT BELT PRE-TENSIONER

## Removal and Installation

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For removal and installation procedures, refer to <u>SB-7, "SEAT BELT RETRACTOR: Removal and Installation"</u>.

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