

SECTION **SR** SRS AIRBAG

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

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

WARNING:

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.

Precautions for Removing of Battery Terminal

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- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

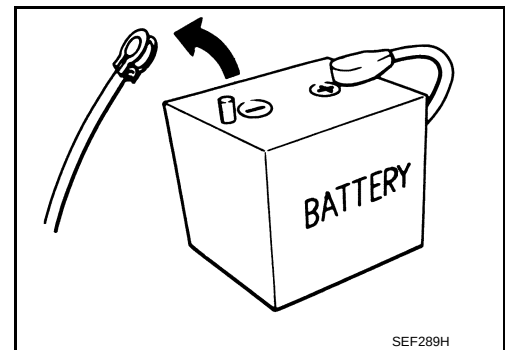
NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.



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Service

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

PRECAUTIONS

< PRECAUTION >

- For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pretensioner to deploy. Therefore, never work on any SRS connectors or wires until at least 3 minutes have elapsed.
- Diagnosis sensor unit must always be installed with their arrow marks “⇐” pointing towards the front of the vehicle for proper operation. Also check diagnosis sensor unit for cracks, deformities or rust before installation and replace as required.
- The spiral cable must be aligned in the neutral position since its rotations are limited. Never turn steering wheel and column after removal of steering gear.
- Handle air bag module carefully. Always place driver and passenger air bag modules with the pad side facing upward and seat mounted side air bag module standing with the stud bolt side facing down.
- Conduct self-diagnosis to check entire SRS for proper functioning after replacing any components.
- After air bag inflates, the instrument panel assembly should be replaced if damaged.

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PREPARATION

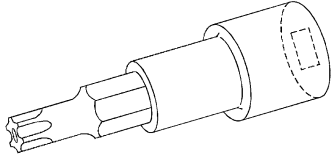
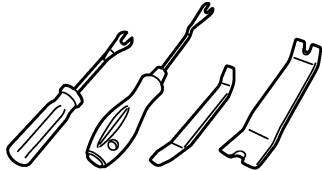
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PREPARATION

PREPARATION

Commercial Service Tools

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

COLLISION DIAGNOSIS

< BASIC INSPECTION >

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 or air bag warning lamp. Refer to [SRC-24, "CONSULT Function"](#) or [SRC-18, "Diagnosis with Air Bag Warning Lamp"](#) 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 [SRC-24, "CONSULT Function"](#).

SRS INSPECTION (FOR FRONTAL COLLISION)

Part	Inspection
Driver air bag module	If the driver air bag has deployed: REPLACE Install with new fasteners.
Passenger air bag module (if equipped)	If the 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 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 only.
Diagnosis sensor unit	If any of the SRS components have been activated: REPLACE the diagnosis sensor unit. Install with new fasteners.
Steering wheel	1. Visually check steering wheel for deformities. 2. Check harness (built into steering wheel) and connectors for damage, and terminals for deformities. 3. Install driver air bag module into the steering wheel to check fit and alignment with the wheel. 4. Check steering wheel for excessive free play. 5. If no damage is found, reinstall. 6. If damaged – REPLACE.
Spiral cable	If the driver front air bag has deployed: REPLACE the spiral cable.
Occupant classification system (Passenger seat)	1. Remove passenger seat assembly. 2. Check control unit case for dents, cracks or deformities. 3. Check connectors and pressure sensor tube for damage, and terminals for deformities. 4. Check seat frame and cushion pan for dents or deformities. 5. If no damage is found, reinstall seat with new fasteners. 6. If damaged – REPLACE seat cushion assembly with new fasteners.

COLLISION DIAGNOSIS

< BASIC INSPECTION >

Part	Inspection
Harness and connectors	1. Check connectors for poor connection, damage, and terminals for deformities. 2. Check harness for binding, chafing, cuts, or deformities. 3. If no damage is found, reinstall the harness and connectors. 4. If damaged – REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness.
Instrument panel assembly	If the passenger air bag has deployed: REPLACE the instrument panel assembly. (integrated type)

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

INFOID:000000009946899

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. 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 or air bag warning lamp. Refer to [SRC-24, "CONSULT Function"](#) or [SRC-18, "Diagnosis with Air Bag Warning Lamp"](#) 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-24, "CONSULT Function"](#).

SRS INSPECTION (FOR FRONTAL COLLISION)

Part	Inspection
Driver air bag module	If the driver air bag has NOT been deployed: 1. Remove driver air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Install driver air bag module into the steering wheel to check fit and alignment with the wheel. 3. If no damage is found, reinstall with new fasteners. 4. If damaged – REPLACE. Install driver air bag module with new fasteners.
Passenger air bag module (if equipped)	If the passenger air bag has NOT been deployed: 1. Remove passenger air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Install passenger air bag module into the instrument panel to check fit with the instrument panel. 3. If no damage is found, reinstall with new fasteners. 4. If damaged – REPLACE. Install passenger air bag modules with new fasteners.
Crash zone sensor	If the front air bags or seat belt pre-tensioners have NOT been activated: 1. Remove the crash zone sensor. Check harness connectors for damage, terminals for deformities, and harness for binding. 2. Check for visible signs of damage (dents, cracks, deformation, etc.) of the crash zone sensor and bracket. 3. Install the crash zone sensor to check fit. 4. If no damage is found, reinstall with new fasteners. 5. If damaged – REPLACE the crash zone sensor and bracket with new fasteners.
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	If the pre-tensioners have NOT been activated: 1. Remove seat belt pre-tensioners. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Check belts for damage and anchors for loose mounting. 3. Check retractor for smooth operation. 4. Check seat belt adjuster for damage. 5. Check for deformities of the center pillar inner. 6. If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly. 7. If no damage is found, reinstall seat belt pre-tensioner assembly. 8. If damaged – REPLACE. Install the seat belt pre-tensioners with new fasteners.

COLLISION DIAGNOSIS

< 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	1. Visually check steering wheel for deformities. 2. Check harness (built into steering wheel) and connectors for damage, and terminals for deformities. 3. Install driver air bag module into the steering wheel to check fit and alignment with the wheel. 4. Check steering wheel for excessive free play. 5. If no damage is found, reinstall. 6. 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. 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)	1. Remove passenger seat assembly. 2. Check control unit case for dents, cracks or deformities. 3. Check connectors and pressure sensor tube for damage, and terminals for deformities. 4. Check seat frame and cushion pan for dents or deformities. 5. If no damage is found, reinstall seat with new fasteners. 6. If damaged – REPLACE seat cushion assembly with new fasteners.
Harness and connectors	1. Check connectors for poor connection, damage, and terminals for deformities. 2. Check harness for binding, chafing, cuts, or deformities. 3. If no damage is found, reinstall the harness and connectors. 4. If damaged – REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness.
Instrument panel assembly	If the 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.

FOR SIDE AND ROLLOVER COLLISION

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
 - 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 and "AIR BAG" warning lamp. Refer to [SRC-24. "CONSULT Function"](#) or [SRC-18. "Diagnosis with Air Bag Warning Lamp"](#) 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-24. "CONSULT Function"](#).

COLLISION DIAGNOSIS

< BASIC INSPECTION >

SRS INSPECTION (FOR SIDE AND ROLLOVER COLLISION)

Part	Inspection
Curtain air bag module LH	If the curtain air bag LH has deployed: REPLACE the curtain air bag module LH. Install with new fasteners.
Curtain air bag module RH	If the curtain air bag RH has deployed: REPLACE the curtain air bag module RH. Install with new fasteners.
Side air bag module LH	If the side air bag LH has deployed: REPLACE front seatback assembly LH.
Side air bag module RH	If the side air bag RH has deployed: REPLACE front seatback assembly RH.
Satellite sensor (LH or RH)	If any of the SRS components have deployed: REPLACE the 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 only.
Center inner pillar	1. Check the center inner pillar on the collision side for damage (dents, cracks, deformation, etc.). 2. If damaged – REPAIR the center inner pillar.
Trim/headlining	1. Check for visible signs of damage (dents, cracks, deformation, etc.) of the interior trim on the collision side. 2. If damaged – REPLACE the damaged trim parts.
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.
- 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.
- Perform self-diagnosis using CONSULT and "AIR BAG" warning lamp. Refer to [SRC-24, "CONSULT Function"](#) or [SRC-18, "Diagnosis with Air Bag Warning Lamp"](#) for details. Make sure entire SRS operates properly.
- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRC-24, "CONSULT Function"](#).

SRS INSPECTION (FOR SIDE AND ROLLOVER COLLISION)

COLLISION DIAGNOSIS

< BASIC INSPECTION >

Part	Inspection	
Curtain air bag module LH	If the curtain air bag LH has NOT deployed:	A
	1. Check for visible signs of damage (dents, tears, deformation, etc.) of the center pillar on the collision side.	
	2. If damaged – Remove the curtain air bag module LH.	B
	3. Check for visible signs of damage (tears etc.) of the curtain air bag module LH.	
	4. Check harness and connectors for damage, and terminals for deformities.	
	5. If no damage is found, reinstall the curtain air bag module LH with new fasteners.	C
Curtain air bag module RH	If the curtain air bag RH has NOT deployed:	
	1. Check for visible signs of damage (dents, tears, deformation, etc.) of the center pillar on the collision side.	D
	2. If damaged – Remove the curtain air bag module RH.	
	3. Check for visible signs of damage (tears etc.) of the curtain air bag module RH.	
	4. Check harness and connectors for damage, and terminals for deformities.	E
	5. If no damage is found, reinstall the curtain air bag module RH with new fasteners.	
Side air bag module LH	If the side air bag LH has NOT deployed:	
	1. Check for visible signs of damage (dents, tears, deformation, etc.) of the seat back on the collision side.	F
	2. Check harness and connectors for damage, and terminals for deformities.	
Side air bag module RH	If the side air bag RH has NOT deployed:	G
	1. Check for visible signs of damage (dents, tears, deformation, etc.) of the seat back on the collision side.	
	2. Check harness and connectors for damage, and terminals for deformities.	SR
Satellite sensor (LH or RH)	If none of the SRS components have been activated:	
	1. Remove the satellite sensor (LH or RH) on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding.	I
	2. Check for visible signs of damage (dents, cracks, deformation, etc.) of the satellite sensor (LH or RH).	
	3. Install the satellite sensor (LH or RH) to check fit.	J
	4. If no damage is found, reinstall the satellite sensor (LH or RH) with new fasteners.	
Diagnosis sensor unit	If none of the SRS components have been activated:	
	1. Check case and bracket for dents, cracks or deformities.	K
	2. Check connectors for damage, and terminals for deformities.	
	3. If no damage is found, reinstall the diagnosis sensor unit with new fasteners.	L
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	If the pre-tensioners have NOT been activated:	
	1. Remove seat belt pre-tensioners.	M
	Check harness cover and connectors for damage, terminals for deformities, and harness for binding.	
	2. Check belts for damage and anchors for loose mounting.	
	3. Check retractor for smooth operation.	N
	4. Check seat belt adjuster for damage.	
	5. Check for deformities of the center pillar inner.	
	6. If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly.	O
Seat (with 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.	P
	- Harness, connectors and terminals	
Center inner pillar	- 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.	
	1. Check the center inner pillar on the collision side for damage (dents, cracks, deformation, etc.).	
	2. If damaged – REPAIR the center inner pillar.	

COLLISION DIAGNOSIS

< BASIC INSPECTION >

Part	Inspection
Trim/headlining	1. Check for visible signs of damage (dents, cracks, deformation, etc.) of the interior trim on the collision side. 2. If damaged – REPLACE the damaged trim parts.
Door-mounted curtain air bag module LH	If the door-mounted curtain air bag LH has NOT deployed: 1. Check for visible signs of damage (dents, tears, deformation, etc.) of the door finisher on the collision side. 2. If damaged – REPLACE the door finisher LH with new fasteners. 3. Check for visible signs of damaged (tears etc.) of the door-mounted curtain air bag module LH. 4. Check harness and connectors for damage, and terminals for deformities. 5. If no damage is found, reinstall door finisher. CAUTION: When removing door-mounted curtain air bag module from door finisher, never reuse door finisher. 6. If damaged – REPLACE the door finisher LH and door-mounted curtain air bag module LH with new fasteners.
Door-mounted curtain air bag module RH	If the door-mounted curtain air bag RH has NOT deployed: 1. Check for visible signs of damage (dents, tears, deformation, etc.) of the door finisher on the collision side. 2. If damaged – REPLACE the door finisher RH with new fasteners. 3. Check for visible signs of damage (tears etc.) of the door-mounted curtain air bag module RH. 4. Check harness and connectors for damage, and terminals for deformities. 5. If no damage is found, reinstall door finisher. CAUTION: When removing door-mounted curtain air bag module from door finisher, never reuse door finisher. 6. If damaged – REPLACE the door finisher RH and door-mounted curtain air bag module RH with new fasteners.
Pop-up roll bar	If the pop-up roll bar has NOT deployed: 1. Check for visible signs of damage (dents, tears, deformation, etc.) of the pop-up roll bar. 2. If damaged – REPLACE the pop-up roll bar with new fasteners. 3. Check harness and connectors for damage, and terminals for deformities. 4. If no damage is found, reinstall the pop-up roll bar with new fasteners. 5. Check for visible signs of damage (dents, cracks, deformation, etc.) of the seatback support brace assembly. 6. If damaged – REPAIR the seatback support brace assembly.

DRIVER AIR BAG MODULE

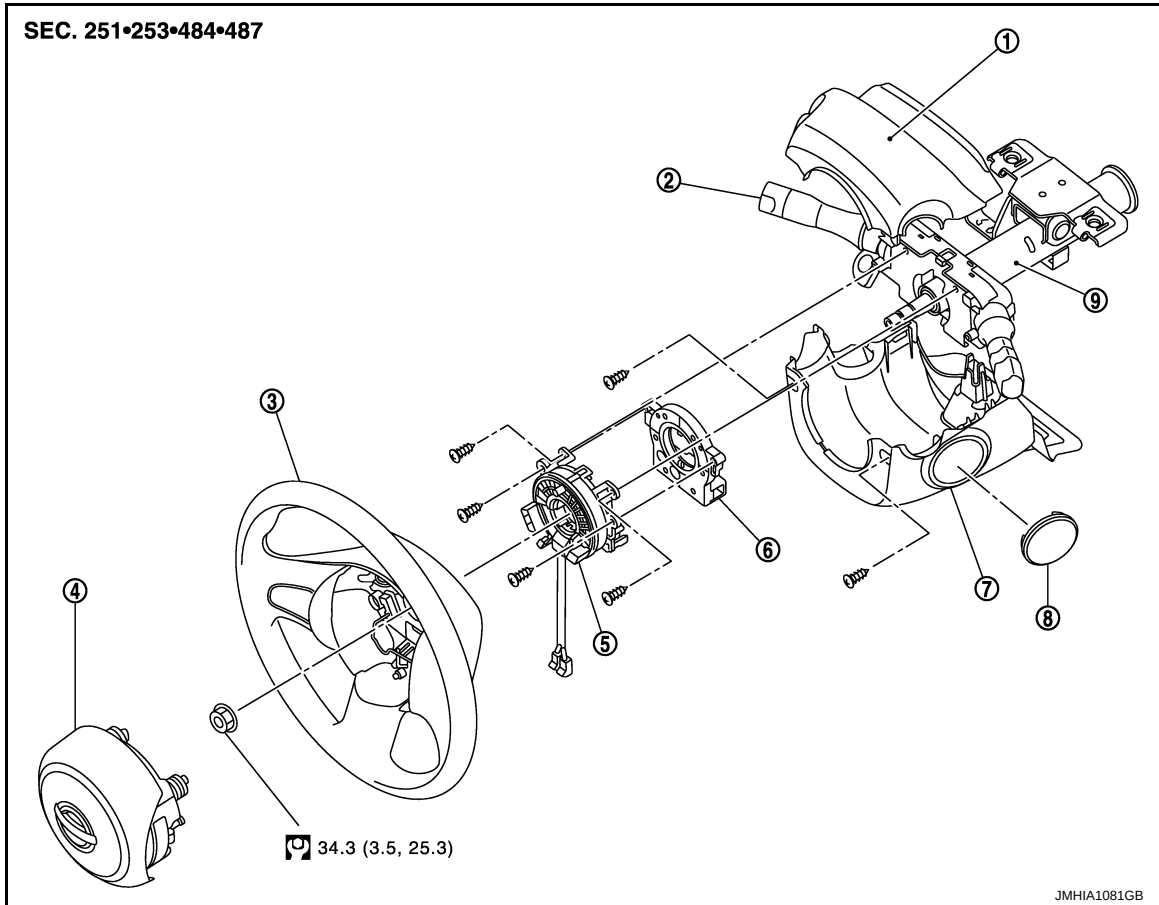
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

DRIVER AIR BAG MODULE

Exploded View

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

: N·m (kg-m, ft-lb)

Removal and Installation

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WARNING:

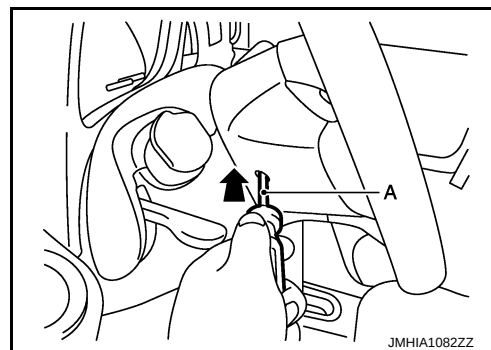
- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Always work from the side of air bag module. Never work in front of it.
- Never use the air tools or electric tools for servicing.

REMOVAL

DRIVER AIR BAG MODULE

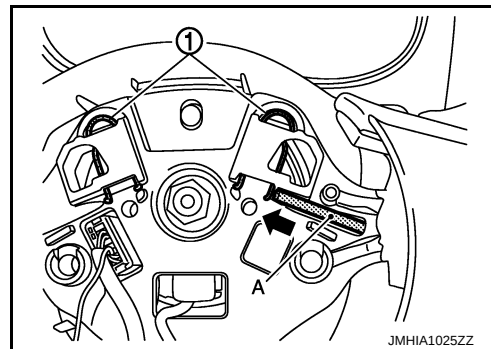
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1. Locate retaining clip access hole (LH/RH) and insert a 5.0 mm (0.197 in) diameter, blunt-ended tool (A).



NOTE:

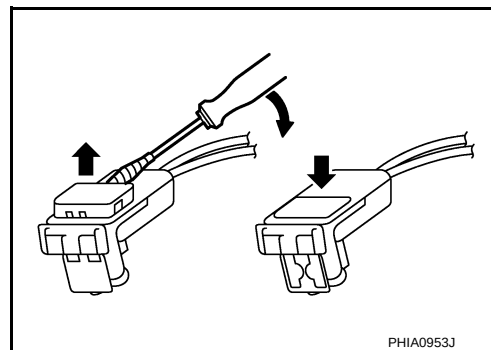
When inserting a blunt-ended tool (A), check that the tool contacts torsion spring (1). By pressing torsion spring, connection of driver air bag module is disengaged.



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

CAUTION:

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

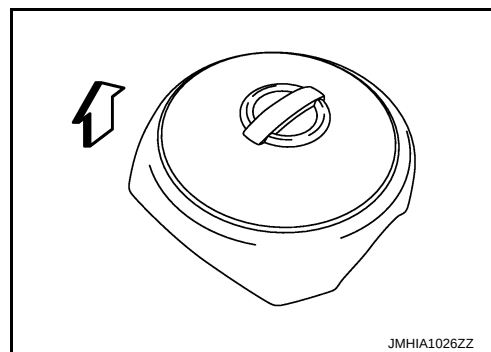


4. Remove the driver air bag module.

CAUTION:

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

↖ : Upward



DRIVER AIR BAG MODULE

< REMOVAL AND INSTALLATION >

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



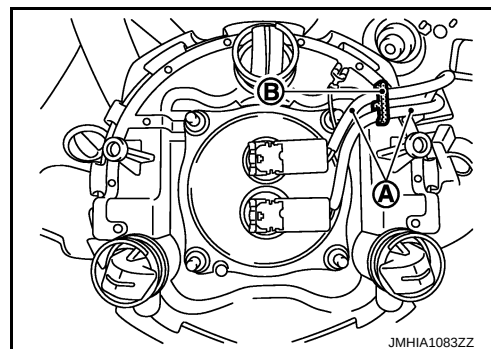
- Never insert any foreign objects (screwdriver, etc.) into the driver air bag module.
- Never disassemble the driver air bag module.
- Never expose the driver air bag module to temperatures exceeding 90 °C (194 °F).
- Never allow oil, grease, detergent, or water to come in contact with the driver air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

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

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



- 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. Refer to [GI-4, "Components"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

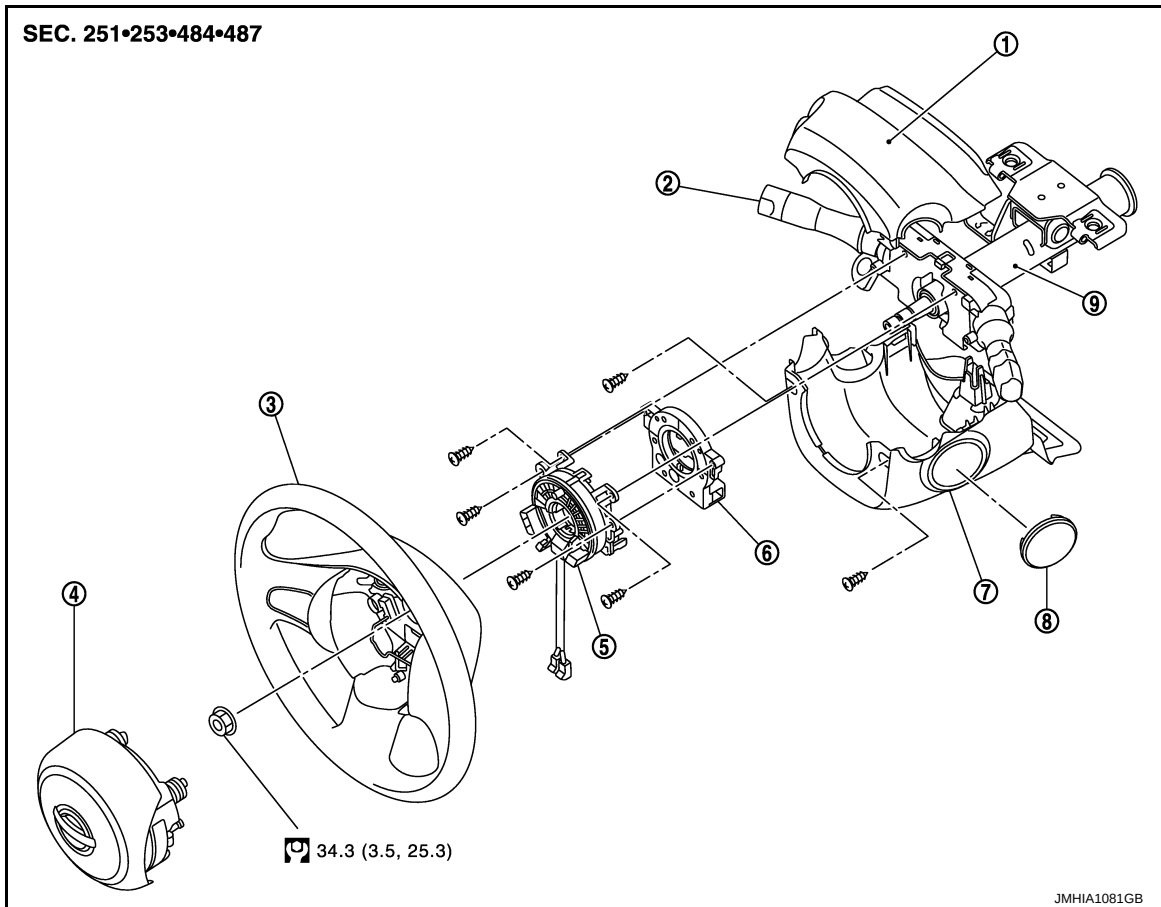
SPIRAL CABLE

< REMOVAL AND INSTALLATION >

SPIRAL CABLE

Exploded View

INFOID:000000009946904



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

: N·m (kg-m, ft-lb)

Removal and Installation

INFOID:000000009946905

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.

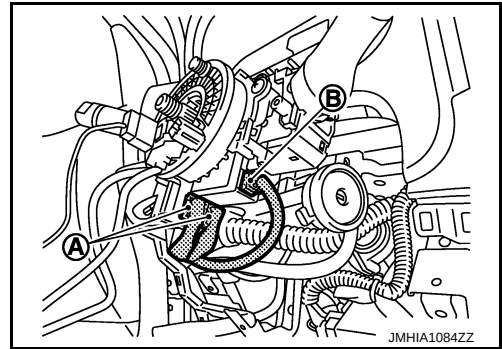
REMOVAL

1. Remove the driver air bag module. Refer to [SR-11, "Removal and Installation"](#).
2. Remove the steering wheel. Refer to [ST-9, "Removal and Installation"](#).
3. Remove the steering column cover. Refer to [IP-14, "Removal and Installation"](#).

SPIRAL CABLE

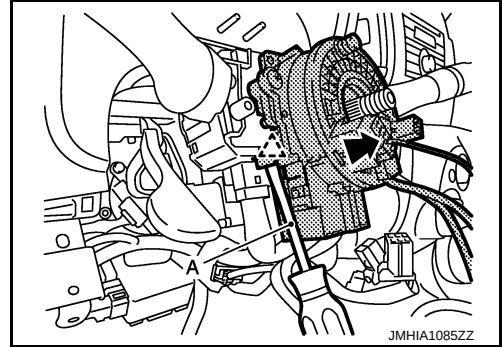
< REMOVAL AND INSTALLATION >

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



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

 : Pawl



7. Remove the steering angle sensor. Refer to [BRC-116, "Removal and Installation"](#).

CAUTION:

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



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

INSTALLATION

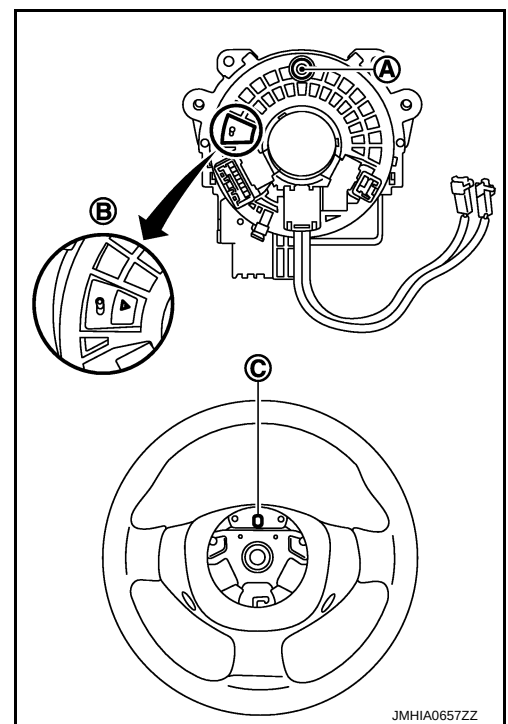
Note the following items, and then install in the reverse order of removal.

CAUTION:

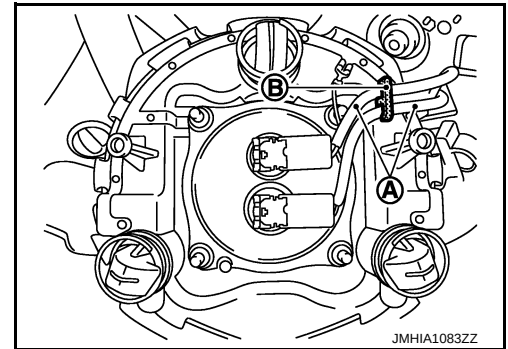
SPIRAL CABLE

< REMOVAL AND INSTALLATION >

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



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



- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to [SRC-24, "CONSULT Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

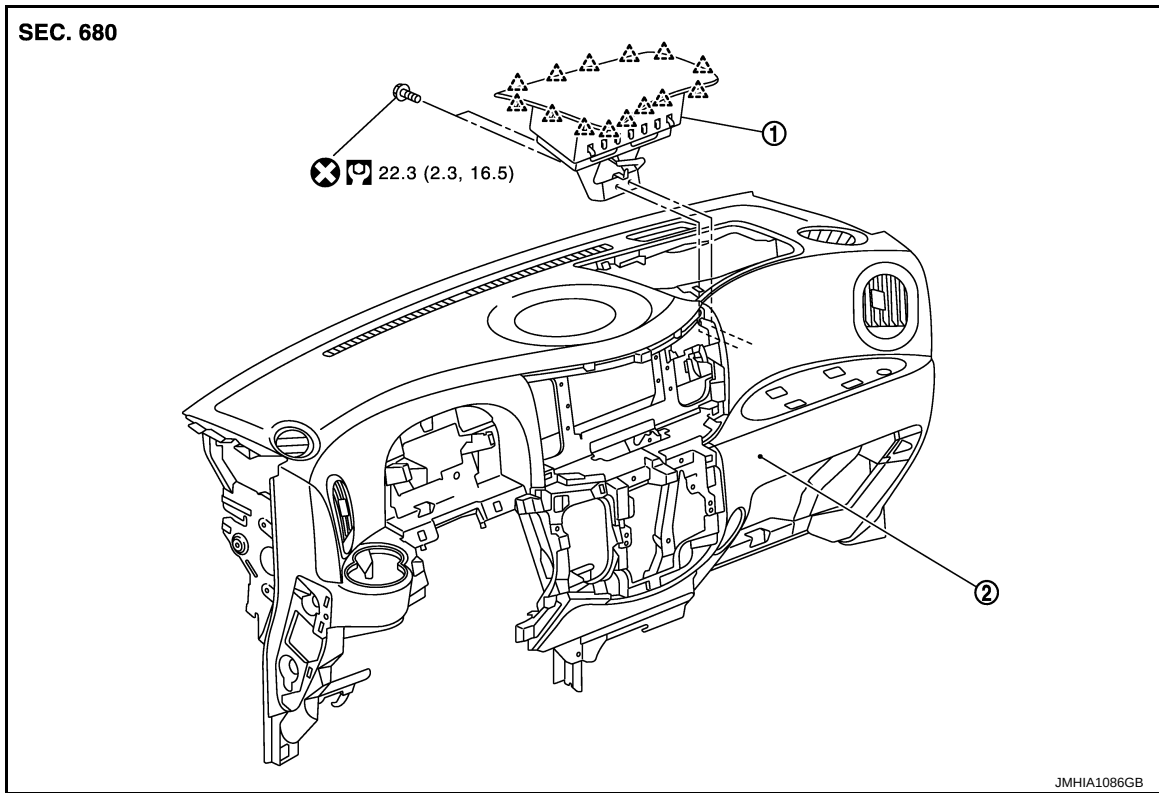
PASSENGER AIR BAG MODULE

< REMOVAL AND INSTALLATION >

PASSENGER AIR BAG MODULE

Exploded View

INFOID:000000009946906



Removal and Installation

INFOID:000000009946907

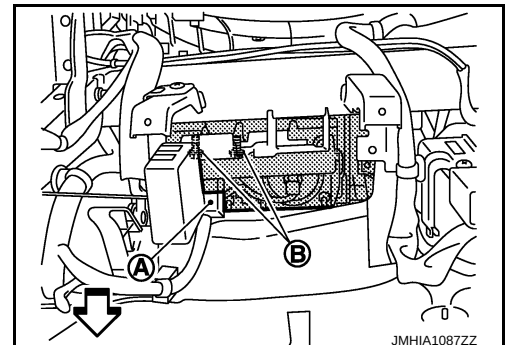
WARNING:

- 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

1. Remove the glove box lid assembly and glove box cover assembly. Refer to [IP-14, "Removal and Installation"](#).
2. Disconnect the passenger air bag module harness connector (A) from passenger air bag module.
3. Remove the passenger air bag module fixing bolts (B).

↶ : Vehicle front



PASSENGER AIR BAG MODULE

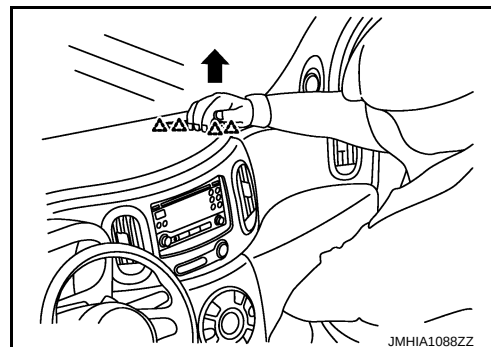
< REMOVAL AND INSTALLATION >

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

CAUTION:

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

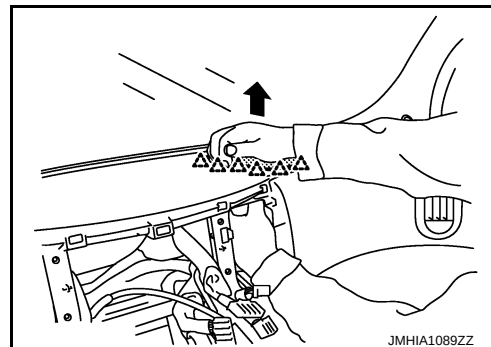
 : Pawl



NOTE:

If the above operation is difficult, remove the cluster lid C, put a hand from center ventilator side, and disengage connections of passenger air bag module pawls. Refer to [IP-14, "Removal and Installation"](#).

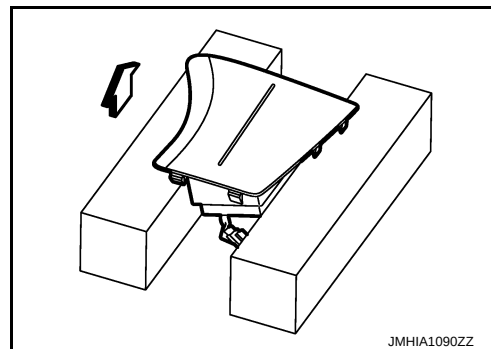
 : Pawl



CAUTION:

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

 : Upward



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



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

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never use the old fixing bolts after removal, replace with the new bolts.

PASSENGER AIR BAG MODULE

< REMOVAL AND INSTALLATION >

- 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. Refer to [SRC-24, "CONSULT Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

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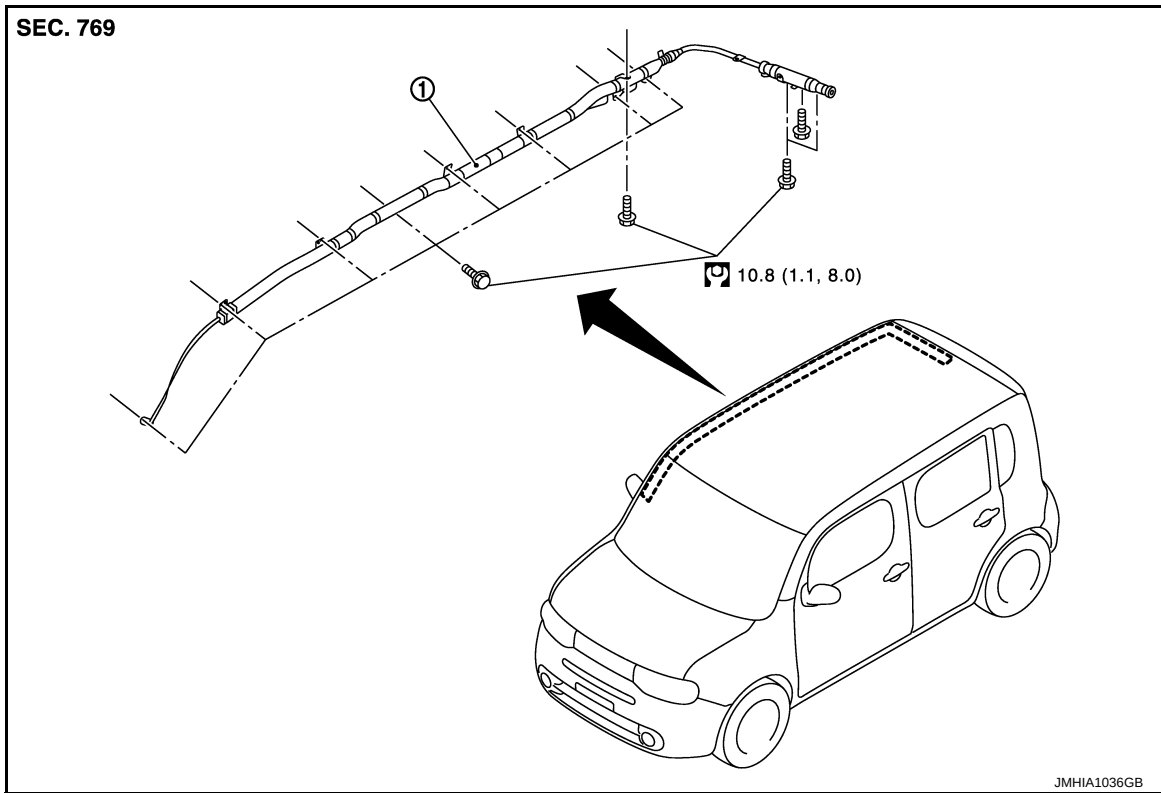
CURTAIN AIR BAG MODULE

< REMOVAL AND INSTALLATION >

CURTAIN AIR BAG MODULE

Exploded View

INFOID:000000009946908



1. Curtain air bag module



: N·m (kg-m, ft-lb)

Removal and Installation

INFOID:000000009946909

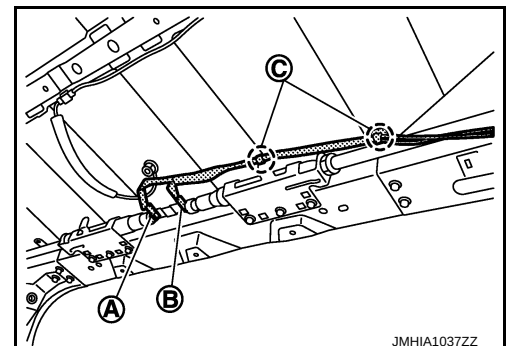
WARNING:

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

REMOVAL

1. Remove the headlining. Refer to [INT-21, "Exploded View"](#).
2. Disconnect harness connector (A) when removing the curtain air bag module RH.
3. Disconnect harness connector (B) and disengage harness clips (C) when removing the curtain air bag module LH.

: Clip

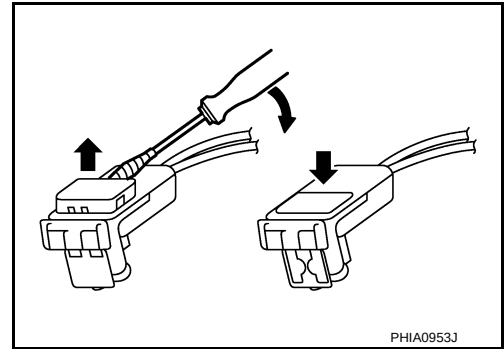


CAUTION:

CURTAIN AIR BAG MODULE

< REMOVAL AND INSTALLATION >

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



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

CAUTION:

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



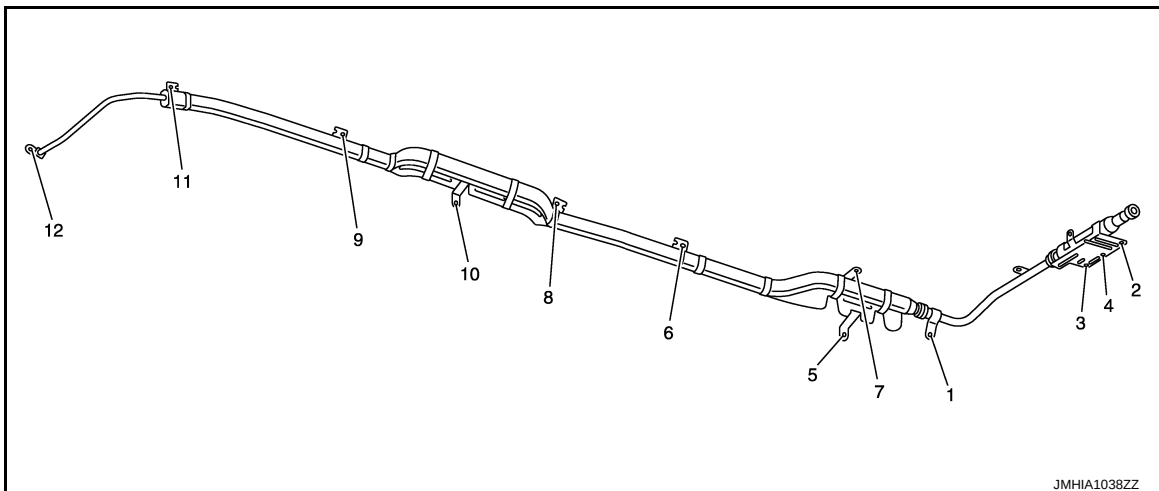
- Never insert any foreign objects (screwdriver, etc.) into the curtain air bag module.
- Never disassemble the curtain air bag module.
- Never expose the curtain air bag module to temperatures exceeding 90 °C (194 °F).
- Never allow oil, grease, detergent, or water to come in contact with the curtain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

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

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



- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to [SRC-24, "CONSULT Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

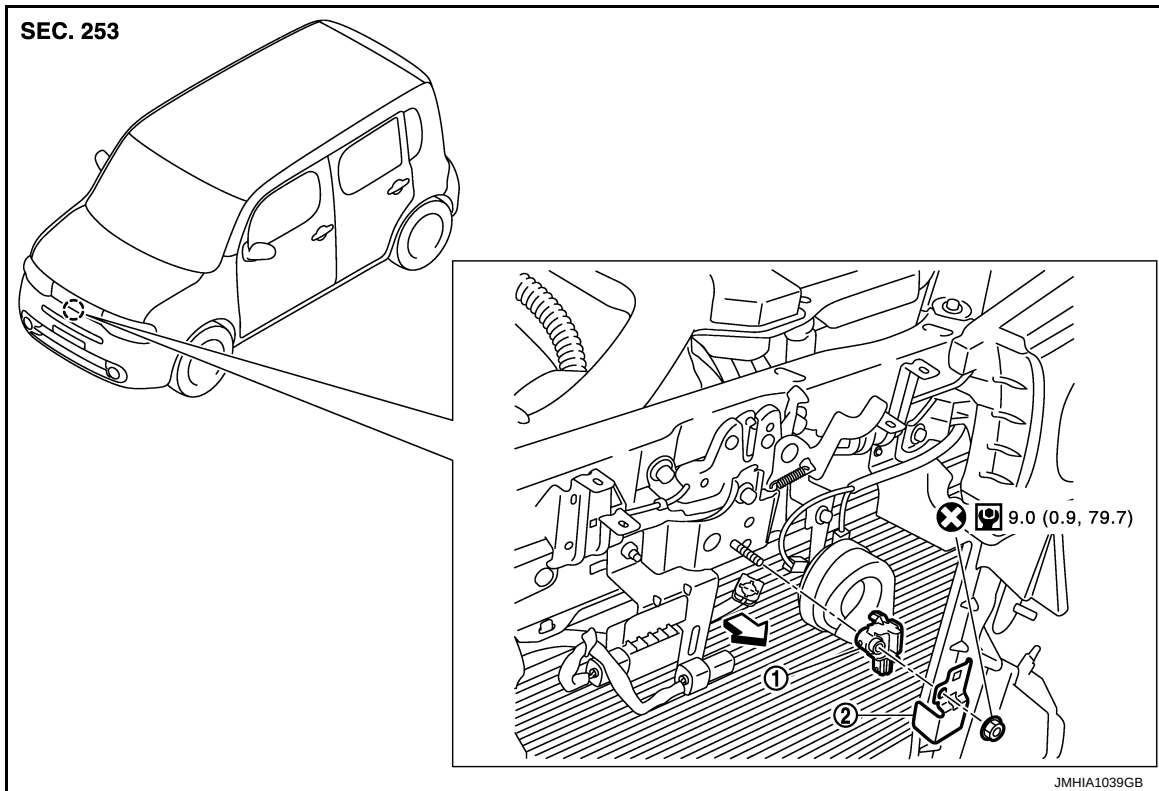
CRASH ZONE SENSOR

< REMOVAL AND INSTALLATION >

CRASH ZONE SENSOR

Exploded View

INFOID:000000009946910



1. Crash zone sensor

2. Bracket

⇐ : Vehicle front

⊗ : Always replace after every disassembly.

⌘ : N·m (kg-m, in-lb)

Removal and Installation

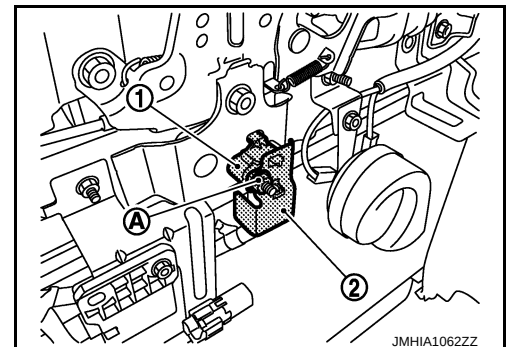
INFOID:000000009946911

WARNING:

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

REMOVAL

1. Remove the front bumper fascia. Refer to [EXT-11. "Exploded View"](#).
2. Remove the fixing nut (A), and pull back crash zone sensor (1) and bracket (2).



3. Disconnect the crash zone sensor harness connector.

CRASH ZONE SENSOR

< REMOVAL AND INSTALLATION >

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 driver air bag module, deployed passenger air bag module or seat belt pre-tensioner.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never use the old fixing nut after removal, replace with the new nut.
- Never damage the harness while installing.
- Always install normally aligning to the cutout hole, because performance of the crash zone sensor excessively fluctuates according to the installation position.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to [SRC-24, "CONSULT Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

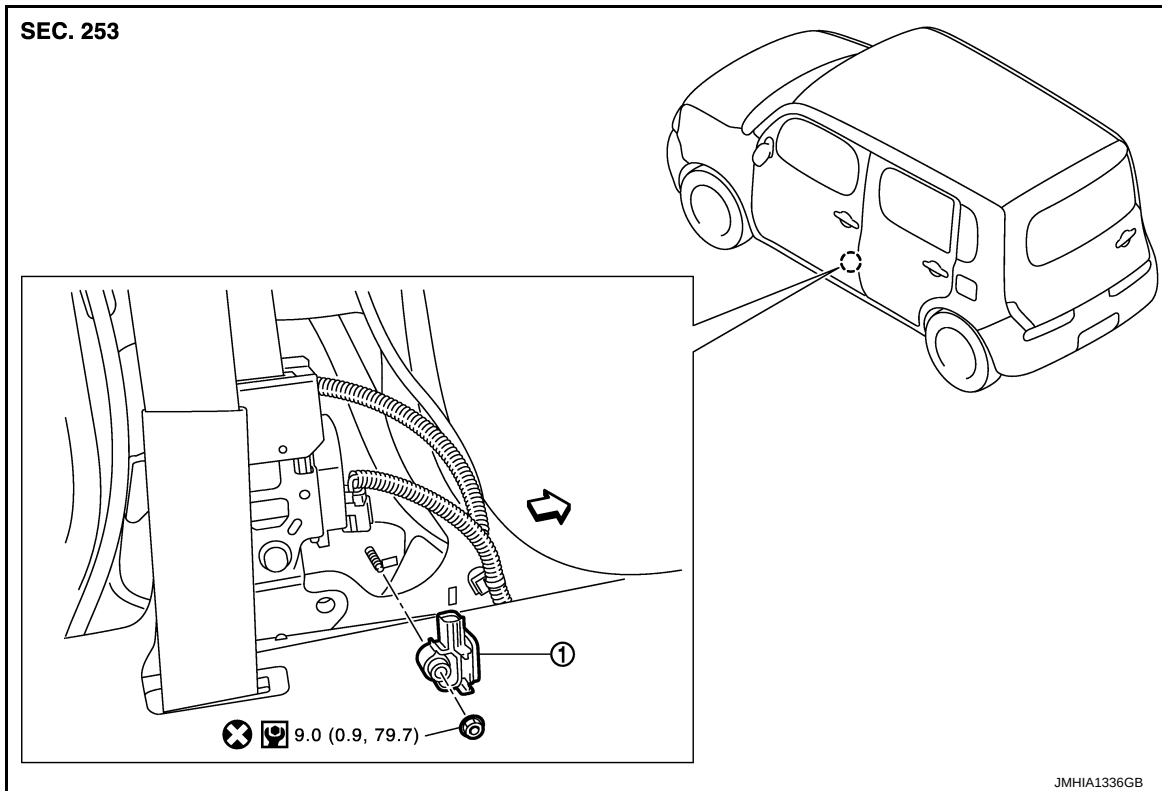
SATELLITE SENSOR

< REMOVAL AND INSTALLATION >

SATELLITE SENSOR

Exploded View

INFOID:000000009946912



1. Satellite sensor

← : Vehicle front

⊗ : Always replace after every disassembly.

Ⓐ : N·m (kg·m, in·lb)

Removal and Installation

INFOID:000000009946913

WARNING:

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

REMOVAL

1. Remove the center pillar lower garnish. Refer to [INT-16. "Exploded View"](#).
2. Remove the satellite sensor fixing nut.
3. Disconnect the harness connector and then remove the satellite sensor.

CAUTION:

SATELLITE SENSOR

< REMOVAL AND INSTALLATION >

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



- Replace the satellite sensor of deployed side air bag module and deployed curtain air bag module.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never use the old fixing nut after removal, replace with the new nut.
- Never damage the harness while installing.
- Always install normally aligning to the cutout hole, because performance of the satellite sensor excessively fluctuates according to the installation position.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to [SRC-24, "CONSULT Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

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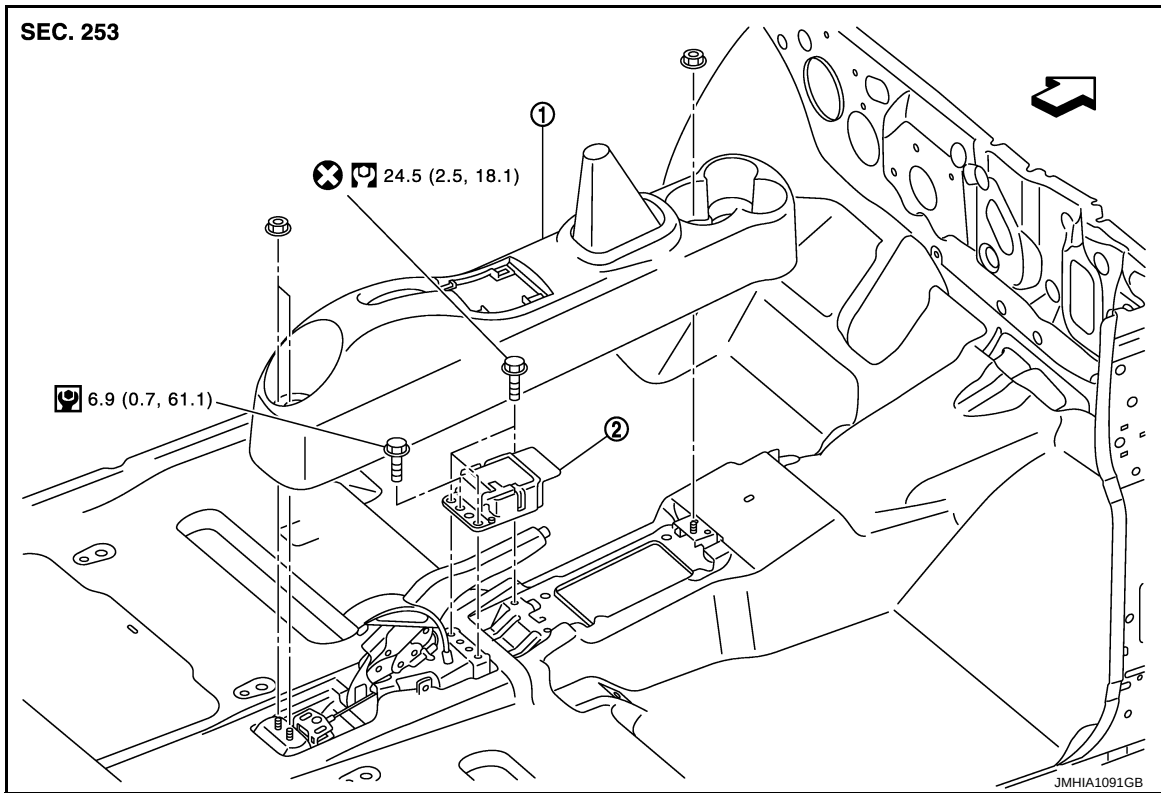
DIAGNOSIS SENSOR UNIT

< REMOVAL AND INSTALLATION >

DIAGNOSIS SENSOR UNIT

Exploded View

INFOID:000000009946914



1. Center console assembly 2. Diagnosis sensor unit

← : Vehicle front

⊗ : Always replace after every disassembly.

⊞ : N·m (kg-m, ft-lb)

⊞ : N·m (kg-m, in-lb)

Removal and Installation

INFOID:000000009946915

WARNING:

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

REMOVAL

1. Always check the air bag diagnosis sensor unit ECU discriminated number (identification number) using CONSULT.
2. Disconnect the each connector of all air bag modules and pre-tensioner seat belts.
3. Remove the center console assembly. Refer to [JP-23, "Removal and Installation"](#).
4. Disconnect the diagnosis sensor unit harness connectors.

DIAGNOSIS SENSOR UNIT

< REMOVAL AND INSTALLATION >

5. Remove the diagnosis sensor unit mounting bolts, and then remove the diagnosis sensor unit.

CAUTION:

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



- Replace the diagnosis sensor unit of deployed driver air bag module, deployed passenger air bag module, deployed side air bag module, deployed curtain air bag module, and deployed seat belt pretensioner.

INSTALLATION

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

CAUTION:

- Never use the old bolts after removal, replace with the new bolts.
- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to [SRC-24, "CONSULT Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.
- After replacing the air bag diagnosis sensor unit, confirm using CONSULT that the ECU discriminated number (identification number) of the new replacement air bag diagnosis sensor unit matches the ECU discriminated number (identification number) of the replaced (old) air bag diagnosis sensor unit.

NOTE:

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

SEAT BELT PRE-TENSIONER

< REMOVAL AND INSTALLATION >

SEAT BELT PRE-TENSIONER

Exploded View

INFOID:000000009946916

Refer to [SB-6. "SEAT BELT RETRACTOR : Exploded View"](#).

Removal and Installation

INFOID:000000009946917

For removal and installation procedures, refer to [SB-7. "SEAT BELT RETRACTOR : Removal and Installation"](#).

OCCUPANT DETECTION SYSTEM CONTROL UNIT

< REMOVAL AND INSTALLATION >

OCCUPANT DETECTION SYSTEM CONTROL UNIT

Exploded View

INFOID:0000000009946918

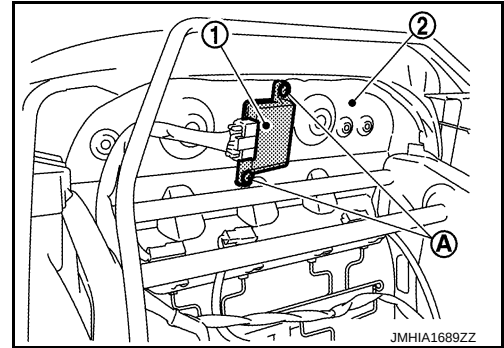
Refer to [SE-12, "Exploded View"](#).

Removal and Installation

INFOID:0000000009946919

REMOVAL

1. Remove passenger seat assembly. Refer to [SE-14, "Removal and Installation"](#).
2. Remove occupant detection system control unit (1) fixing screws (A).
3. Disconnect occupant detection system control unit harness connector.
4. Remove occupant detection system control unit from seat cushion frame (2).



INSTALLATION

Install in the reverse order of removal.

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