

SECTION **SR**
SRS AIRBAG

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PRECAUTIONS

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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 SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

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

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 both battery cables and wait at least three minutes.
For approximately three minutes after the cables are 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 three minutes have passed.
- 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 with 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 function after replacing any components.
- After air bag inflates, the instrument panel assembly should be replaced if damaged.
- Always replace instrument panel pad following front passenger air bag deployment.

Occupant Classification System

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- Replace occupant classification system control unit, system sensors, and passenger front seat frame as an assembly.
Refer to [SE-17. "DRIVER SIDE : Removal and Installation"](#).

PRECAUTIONS

< PRECAUTION >

Precaution for Work

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- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
 - Water soluble dirt:
 - Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
 - Then rub with a soft, dry cloth.
 - Oily dirt:
 - Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
 - Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
 - Then rub with a soft, dry cloth.
 - Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
 - For genuine leather seats, use a genuine leather seat cleaner.

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PREPARATION

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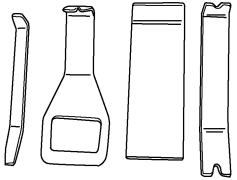
PREPARATION

PREPARATION

Special Service Tool

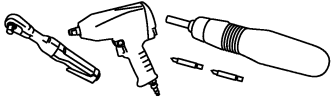
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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
<p>— (J-44615) Air bag lock master key set</p>  <p style="text-align: right;">LRS191</p>	<p>Removing and installing air bag lock</p>
<p>— (J-46534) Trim tool set</p>  <p style="text-align: right;">AWJIA0483ZZ</p>	<p>Removing trim components</p>

Commercial Service Tools

INFOID:000000009266918

Tool name	Description
<p>Power tools</p>  <p style="text-align: right;">PIIB1407E</p>	<p>Loosening nuts, screws and bolts</p>

COLLISION DIAGNOSIS

< BASIC INSPECTION >

BASIC INSPECTION

COLLISION DIAGNOSIS

For Frontal Collision

INFOID:000000009266919

FOR FRONTAL COLLISION: When SRS is activated in a collision

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 assembly, 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-15, "Trouble Diagnosis without CONSULT"](#) 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-13, "SRS Operation Check"](#).

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 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	<ol style="list-style-type: none"> 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.

COLLISION DIAGNOSIS

< BASIC INSPECTION >

Part	Inspection
Occupant classification system (Passenger seat)	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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 front air bag has deployed: REPLACE the instrument panel assembly. (integrated type)

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

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-15. "Trouble Diagnosis without CONSULT"](#) 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-13. "SRS Operation Check"](#).

SRS INSPECTION (FOR FRONTAL COLLISION)

Part	Inspection
Driver air bag module	<p>If the driver air bag has NOT been activated:</p> <ol style="list-style-type: none"> 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 modules with new fasteners.
Front passenger air bag module (if equipped)	<p>If the front passenger air bag has NOT been activated:</p> <ol style="list-style-type: none"> 1. Remove front passenger air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Install front 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 front passenger air bag modules with new fasteners.
Crash zone sensor	<p>If the front air bags or seat belt pre-tensioners have NOT been activated:</p> <ol style="list-style-type: none"> 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) 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.

COLLISION DIAGNOSIS

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Part	Inspection	
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.	A B C
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.	D E
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.	F G
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.	SR I
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.	J
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.	K L
Instrument panel assembly	If the passenger front air bag has NOT deployed: 1. Visually check instrument panel for damage. 2. If no damage is found, reinstall the instrument panel assembly. 3. If damaged—REPLACE the instrument panel assembly.	M

For Side and Rollover Collision

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

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.

COLLISION DIAGNOSIS

< BASIC INSPECTION >

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-13, "SRS Operation Check"](#) 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-15, "Trouble Diagnosis without CONSULT"](#).

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 only.
Center inner pillar	1. Check the center inner pillar on the collision side for damage (dents, cracks, deformation). 2. If damaged —REPAIR the center inner pillar.
Seat (if equipped with front side air bag)	If either the front LH or front RH side air bag modules has been deployed: REPLACE front seatback assembly on the deployed side.
Trim/headlining	1. Check for visible signs of damage (dents, cracks, deformation) 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 been 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 been 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

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 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 and "AIR BAG" warning lamp. Refer to [SRC-13, "SRS Operation Check"](#) for details. Make sure entire SRS operates properly.

COLLISION DIAGNOSIS

< BASIC INSPECTION >

4. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRC-15, "Trouble Diagnosis without CONSULT"](#).

SRS INSPECTION (FOR SIDE AND ROLLOVER COLLISION)

Part	Inspection
Side curtain air bag module LH	If the side curtain air bag LH has NOT deployed: <ol style="list-style-type: none"> 1. Check for visible signs of damage (dents, tears, deformation) of the center pillar on the collision side. 2. If damaged - Remove the side curtain air bag module LH. 3. Check for visible signs of damage (tears etc.) of the side curtain air bag module LH. 4. Check harness and connectors for damage, and terminals for deformities. 5. If no damage is found, reinstall the side curtain air bag module LH with new fasteners. 6. If damaged — REPLACE the side curtain air bag module LH with new fasteners.
Side curtain air bag module RH	If the side curtain air bag RH has NOT deployed: <ol style="list-style-type: none"> 1. Check for visible signs of damage (dents, tears, deformation) of the center pillar on the collision side. 2. If damaged - Remove the side curtain air bag module RH. 3. Check for visible signs of damage (tears etc.) of the side curtain air bag module RH. 4. Check harness and connectors for damage, and terminals for deformities. 5. If no damage is found, reinstall the side curtain air bag module RH with new fasteners. 6. If damaged — REPLACE the side curtain air bag module RH with new fasteners.
Front side air bag module LH	If the front LH side air bag has NOT deployed: <ol style="list-style-type: none"> 1. Check for visible signs of damage (dents, tears, deformation) of the seat back on the collision side. 2. Check harness and connectors for damage, and terminals for deformities. 3. If damaged — REPLACE the front seatback assembly LH.
Front side air bag module RH	If the front side air bag RH has NOT deployed: <ol style="list-style-type: none"> 1. Check for visible signs of damage (dents, tears, deformation) of the seat back on the collision side. 2. Check harness and connectors for damage, and terminals for deformities. 3. If damaged — REPLACE the front seatback assembly RH.
Side air bag (satellite) sensor (LH or RH)	If none of the SRS components have been activated: <ol style="list-style-type: none"> 1. 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. 2. Check for visible signs of damage (dents, cracks, deformation) of the side air bag (satellite) sensor (LH or RH). 3. Install the side air bag (satellite) sensor (LH or RH) to check fit. 4. If no damage is found, reinstall the side air bag (satellite) sensor (LH or RH) with new fasteners. 5. If damaged — REPLACE the side air bag (satellite) sensor (LH or RH) with new fasteners.
Diagnosis sensor unit	If none of the SRS components have been activated: <ol style="list-style-type: none"> 1. Check case and bracket for dents, cracks or deformities. 2. Check connectors for damage, and terminals for deformities. 3. If no damage is found, reinstall the diagnosis sensor unit with new fasteners. 4. If damaged — REPLACE the diagnosis sensor unit with new fasteners.
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	If the pre-tensioners have NOT been activated: <ol style="list-style-type: none"> 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.

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COLLISION DIAGNOSIS

< BASIC INSPECTION >

Part	Inspection
Seat (with front side air bag)	<p>If the front LH or front RH side air bag modules have NOT deployed:</p> <ol style="list-style-type: none"> 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. <ul style="list-style-type: none"> - 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 style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	<p>If the door-mounted curtain air bag LH has NOT deployed:</p> <ol style="list-style-type: none"> 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 damage (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. <p>CAUTION: When removing door mounted curtain air bag module from door finisher, do not reuse door finisher.</p> <ol style="list-style-type: none"> 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	<p>If the door-mounted curtain air bag RH has NOT deployed:</p> <ol style="list-style-type: none"> 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. <p>CAUTION: When removing door mounted curtain air bag module from door finisher, do not reuse door finisher.</p> <ol style="list-style-type: none"> 6. If damaged - REPLACE the door finisher RH and door-mounted curtain air bag module RH with new fasteners.
Pop-up roll bar	<p>If the pop-up roll bar NOT deployed:</p> <ol style="list-style-type: none"> 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

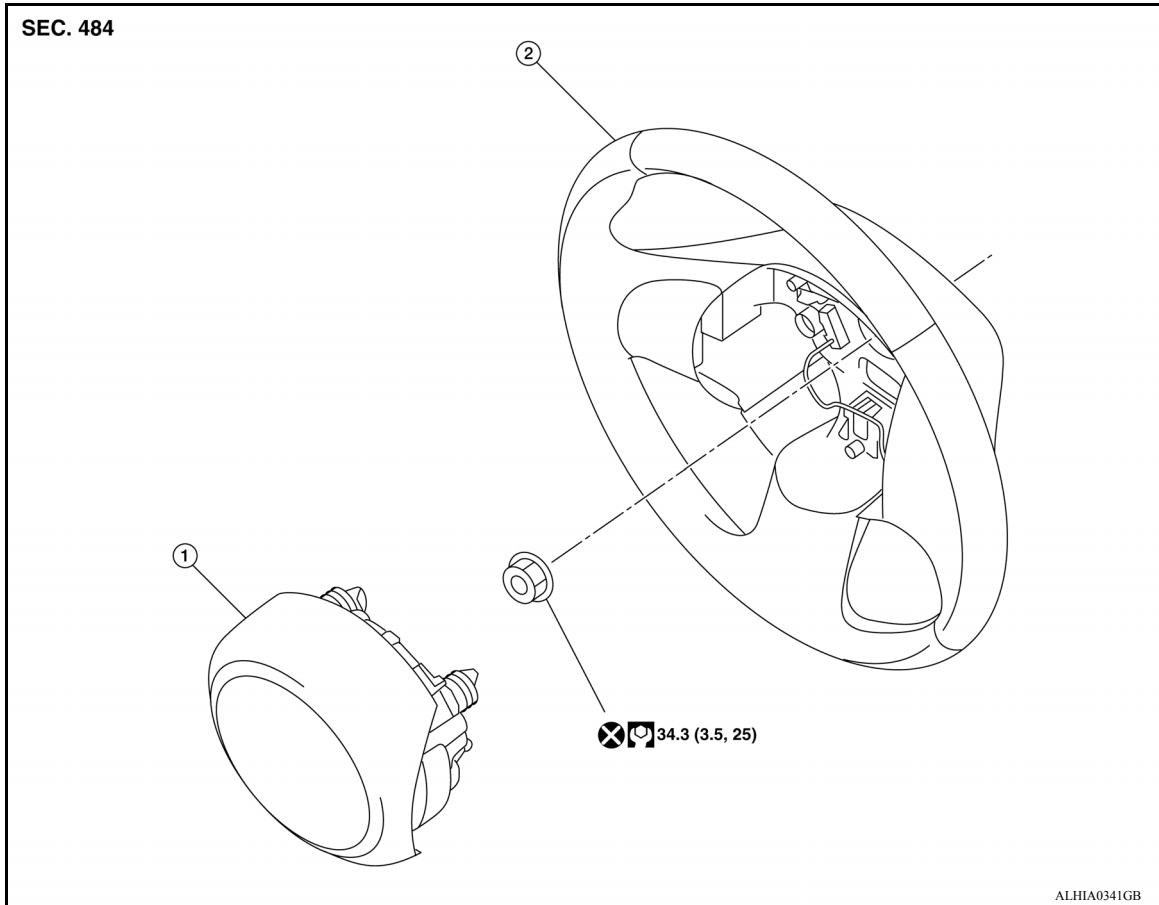
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

DRIVER AIR BAG MODULE

Exploded View

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1. Driver air bag module

2. Steering wheel

Removal and Installation

INFOID:000000009266922

WARNING:

Always observe the following items for preventing accidental activation.

- Before servicing, turn ignition switch OFF, disconnect both battery terminals, then wait at least three minutes or more.
- Always work from the side of air bag module. Do not work in front of it.
- Do not use the air tools or electric tools for servicing.
- Always place air bag module with pad side facing upward.
- Do not cause impact to the air bag module by dropping etc. Replace the air bag module if it has been dropped or sustained an impact.

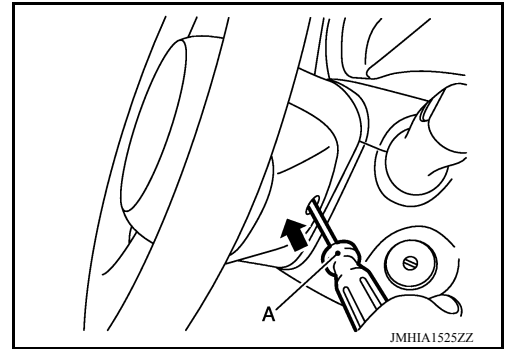
REMOVAL

1. Disconnect the negative and positive battery terminals, then wait at least three minutes. Refer to [PG-63](#), "[Removal and Installation](#)".

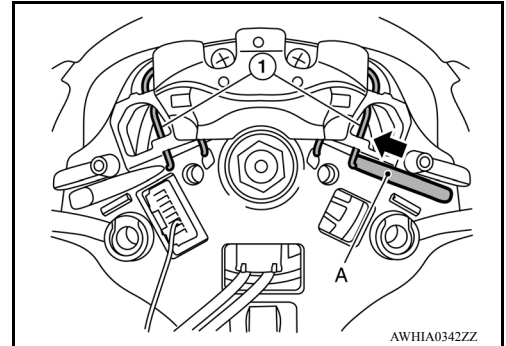
DRIVER AIR BAG MODULE

< REMOVAL AND INSTALLATION >

2. Locate retaining clip access hole (LH/RH) and insert a 5.0 mm (0.20 in) diameter suitable tool (A).



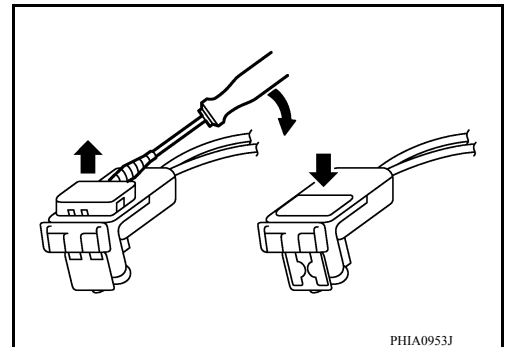
3. Insert suitable tool (A) inward and make sure the tool contacts torsion spring (1) as shown. While pressing on the torsion spring (1), the driver air bag module LH and RH pawls will disengage.
4. After both the LH and RH pawls release, gently roll the top edge of driver air bag module downward to release the center lower pawl, then pull out the driver air bag module assembly enough to set aside.



5. Disconnect the harness connectors from the driver air bag module.

CAUTION:

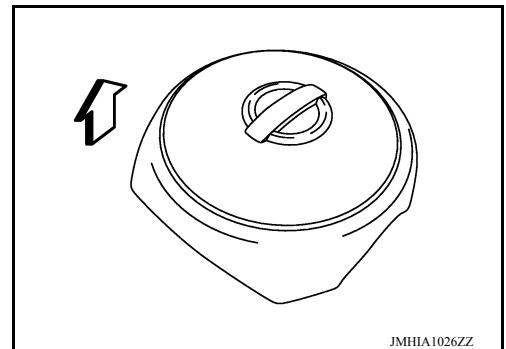
- For installing/removing the driver air bag module harness connector, insert thin screwdriver wrapped in tape into notch, lift lock and remove connector.
- Install the connector with lock raised, and push lock into the connector.
- After installing the connector, check that the lock is pushed securely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



6. 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 >

- Do not strike or impact the driver air bag module.
- Replace the driver air bag module if it has been dropped or sustained an impact.



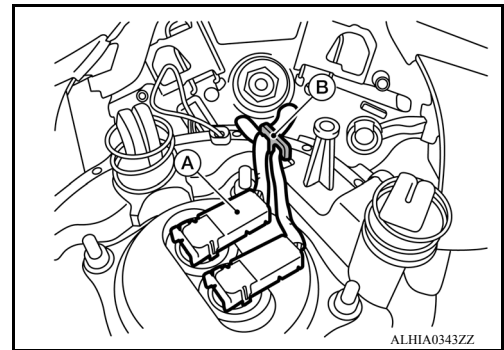
- Do not insert any foreign objects (screwdriver, etc.) into the driver air bag module.
- Do not disassemble the driver air bag module.
- Do not expose the driver air bag module to temperatures exceeding 90 °C (194 °F).
- Do not allow oil, grease, detergent, or water to come in contact with the driver air bag module.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Connect the driver air bag module harnesses (A) and route through the hook (B) as shown.



- Do not 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-13, "SRS Operation Check"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

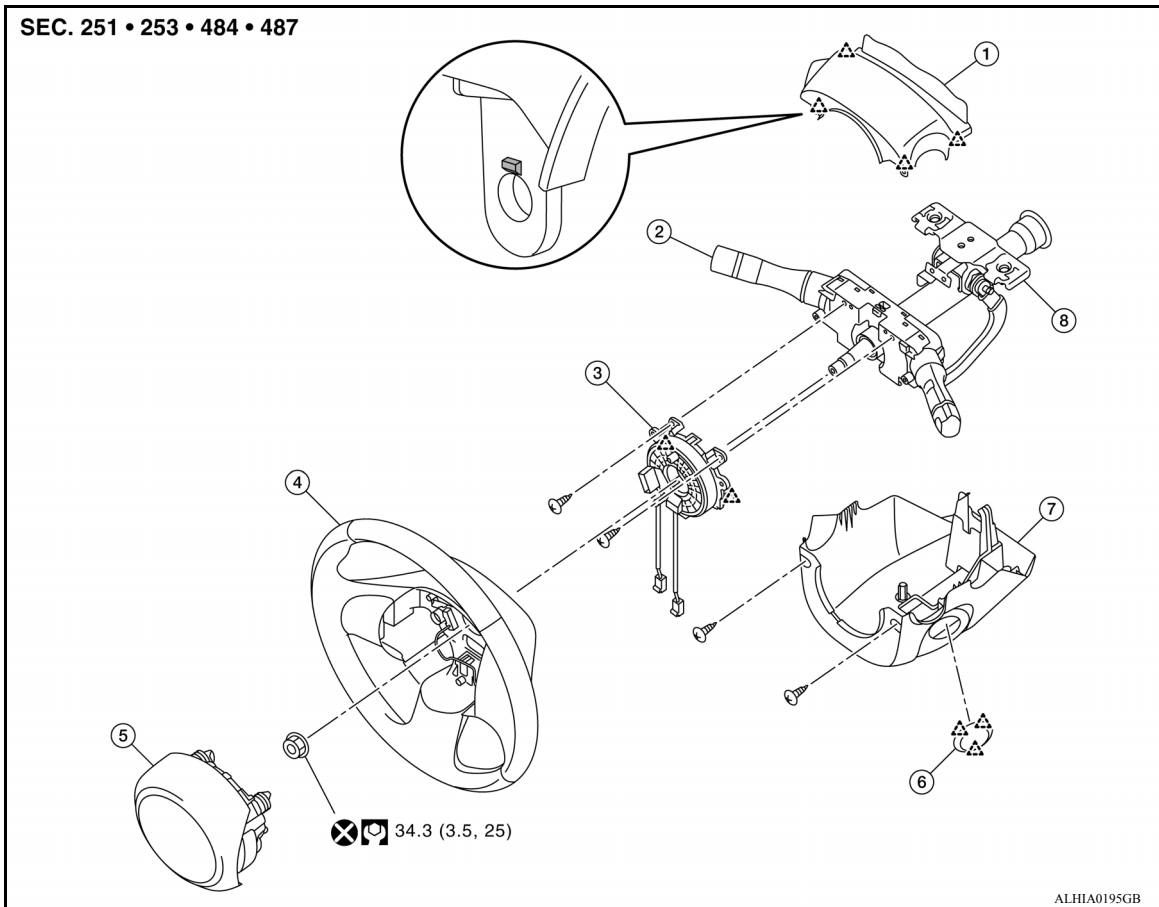
SPIRAL CABLE

< REMOVAL AND INSTALLATION >

SPIRAL CABLE

Exploded View

INFOID:000000009266923



- | | | |
|--------------------------------|-----------------------------|-----------------------------|
| 1. Steering column upper cover | 2. Combination switch | 3. Spiral cable |
| 4. Steering wheel | 5. Driver air bag module | 6. Steering lock escutcheon |
| 7. Steering column lower cover | 8. Steering column assembly | △ Pawl |

Removal and Installation

INFOID:000000009266924

WARNING:

Always observe the following items for preventing accidental activation.

- Before servicing, turn ignition switch OFF, disconnect both battery terminals, then wait at least three minutes or more.
- Always work from the side of air bag module. Do not work in front of it.
- Do not use the air tools or electric tools for servicing.
- Always place air bag module with pad side facing upward.
- Do not cause impact to the air bag module by dropping etc. Replace the air bag module if it has been dropped or sustained an impact.

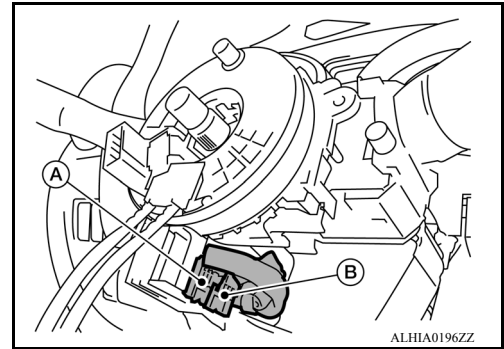
REMOVAL

1. Remove the steering wheel. Refer to [ST-8, "Removal and Installation"](#).
2. Remove the steering column covers. Refer to [IP-15, "Removal and Installation"](#).

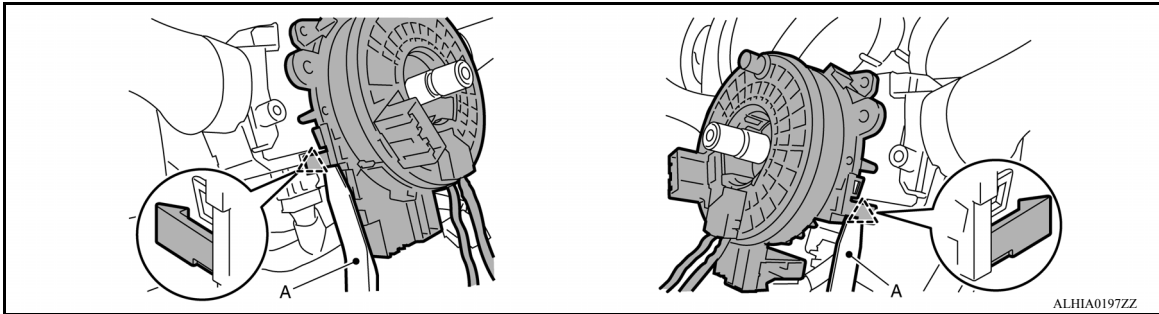
SPIRAL CABLE

< REMOVAL AND INSTALLATION >

3. Disconnect the harness connectors (A) and (B) from the spiral cable body side.



4. Remove the spiral cable screws.
5. Release the pawls using a suitable tool (A), then remove the spiral cable.



CAUTION:

- Do not impact the spiral cable.
- Replace the spiral cable if it has been dropped or sustained an impact.



- Do not disassemble the spiral cable.
- Do not apply lubricant to the spiral cable.
- Do not allow oil, grease, detergent, or water to come in contact with the spiral cable.

INSTALLATION

Installation is in the reverse order of removal.

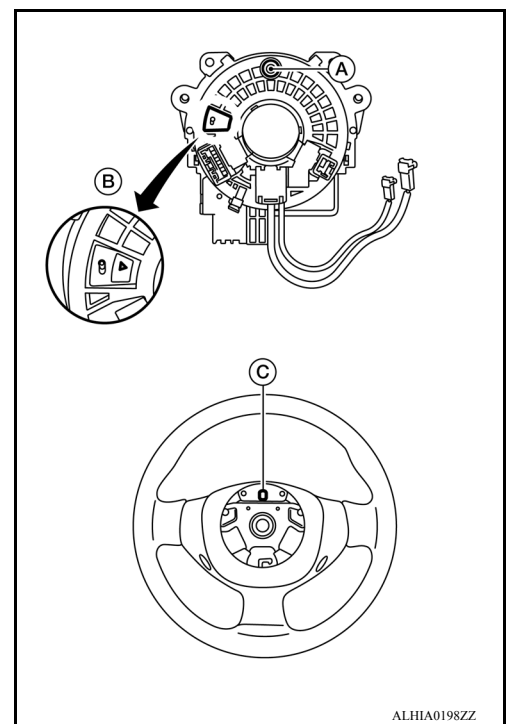
CAUTION:

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SPIRAL CABLE

< REMOVAL AND INSTALLATION >

- The spiral cable may snap during steering operation if the cable is installed in an improper position.
The neutral position is set as follows.
- Carefully turn the spiral cable clockwise to the end position. Then turn it counterclockwise (about two and a half turns) and stop turning at the mark (B) where 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.
- Do not over turn the spiral cable or go beyond the number of turns required. (This will cause the cable to snap)
- Carefully align the spiral cable locating pin (A) to the steering wheel locating pin hole (C).



- 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-13. "SRS Operation Check"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

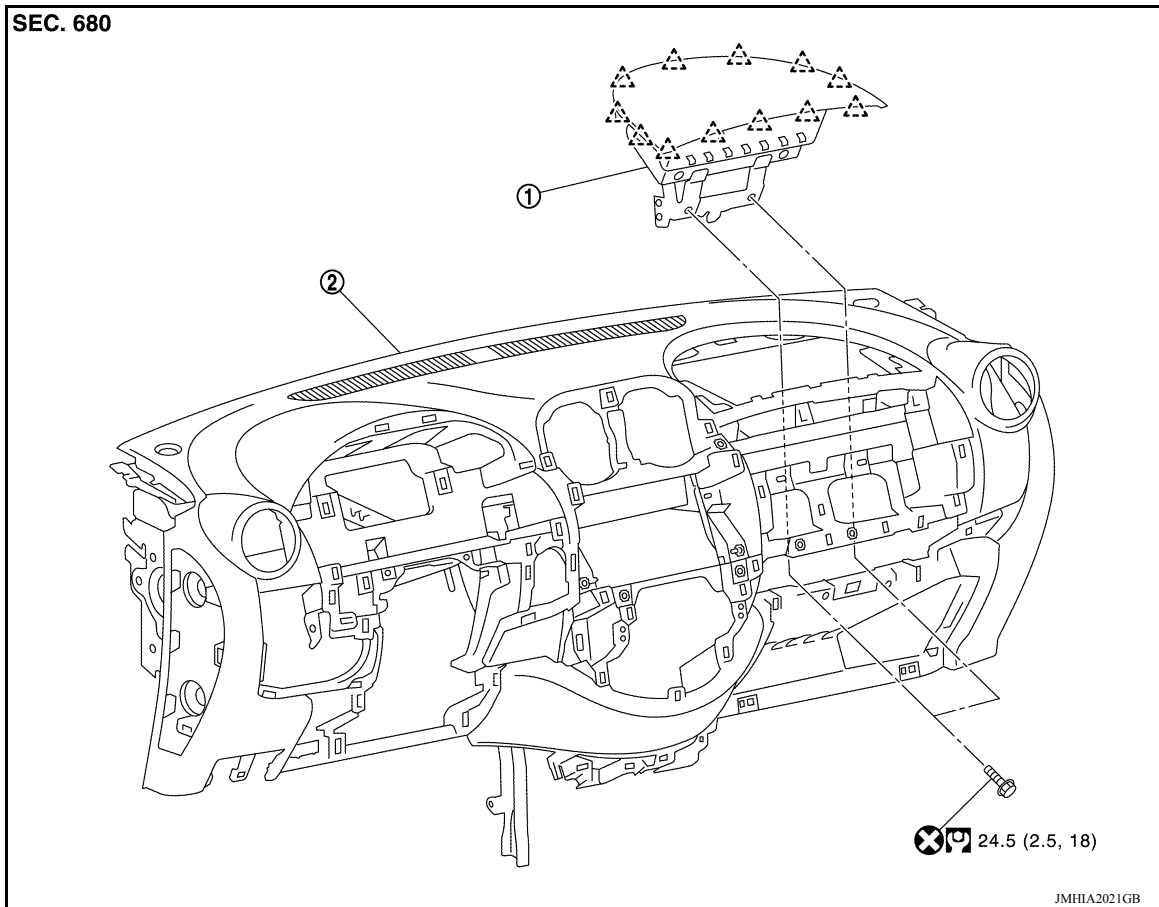
PASSENGER AIR BAG MODULE

< REMOVAL AND INSTALLATION >

PASSENGER AIR BAG MODULE

Exploded View

INFOID:000000009266925



1. Passenger air bag module

2. Instrument panel assembly

△ Pawl

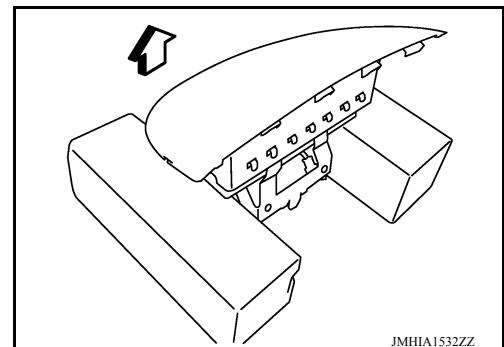
Removal and Installation

INFOID:000000009266926

WARNING:

- Before servicing, turn ignition switch OFF, disconnect both the battery negative and positive terminals, then wait at least three minutes.
- Always work from the side of air bag module. Do not work in front of it.
- Do not use the air tools or electric tools for servicing.
- Always place the passenger air bag module with pad side facing upward.

⇐ Upward



CAUTION:

- Do not insert a tool between passenger air bag module and instrument panel assembly. Doing so may cause damage.

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PASSENGER AIR BAG MODULE

< REMOVAL AND INSTALLATION >

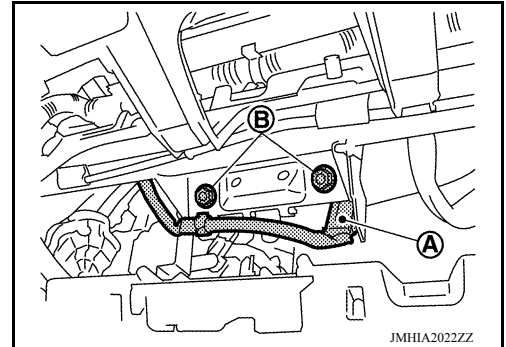
- Do not impact the passenger air bag module.
- Replace the passenger air bag module if it has been dropped or sustained an impact.



- Do not insert any foreign objects (screwdriver, etc.) into the passenger air bag module.
- Do not disassemble the passenger air bag module.
- Do not expose the passenger air bag module to temperatures exceeding 90 °C (194 °F).
- Do not allow oil, grease, detergent, or water to come in contact with the passenger air bag module.

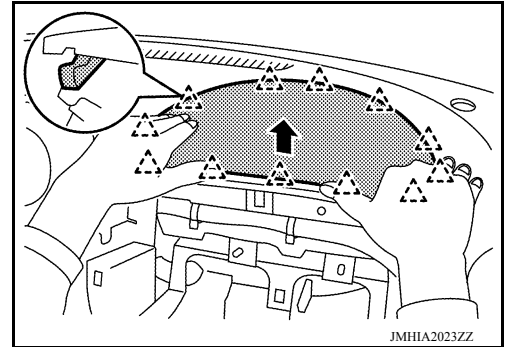
REMOVAL

1. Remove the glove box assembly. Refer to [IP-15, "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 bolts (B).



4. Disengage passenger air bag module pawls with hands.

△: Pawl



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Do not use the old bolts after removal, replace with the new bolts.
- Do not 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-13, "SRS Operation Check"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

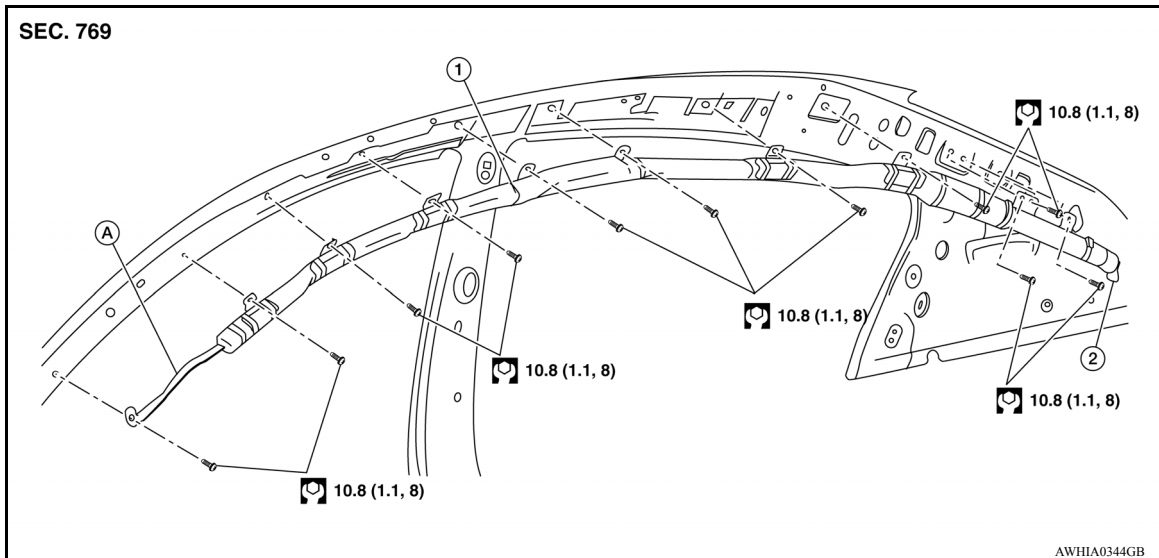
SIDE CURTAIN AIR BAG MODULE

< REMOVAL AND INSTALLATION >

SIDE CURTAIN AIR BAG MODULE

Exploded View

INFOID:000000009266927



1. Side curtain air bag module 2. Side curtain air bag module connector A. Adhesive tape area

Removal and Installation

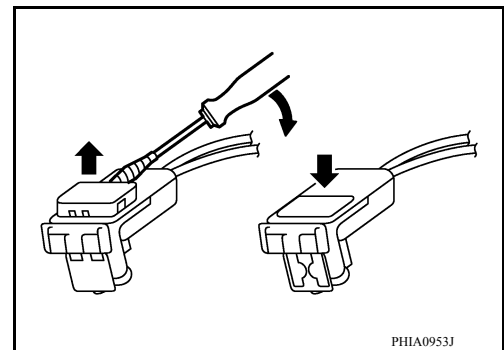
INFOID:000000009266928

REMOVAL

CAUTION:

- Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.
- Do not use air tools or electric tools for servicing.
- Always work from the side of air bag module. Do not work from the front of it.
- Always place the curtain air bag module with air bag deployment side facing upward.
- Do not cause impact to the air bag module by dropping etc. Replace the air bag module if it has been dropped or sustained an impact.

1. Disconnect the negative and positive battery terminals, then wait at least three minutes. Refer to [PG-63, "Removal and Installation"](#).
2. Remove the headlining. Refer to [INT-29, "Removal and Installation"](#).
3. Disconnect the harness connector from the side curtain air bag module.
 - For installing/removing direct-connect SRS connectors, refer to [SRC-7, "SRS Component Connectors"](#).
4. Remove the bolts and release the adhesive tape, then remove the side curtain air bag module.



INSTALLATION

Installation is in the reverse order of removal.

Make sure the teather in the adhesive tape area is securely attached to the front pillar before installing pillar finisher.

CAUTION:

- Be careful not to damage the air bag harness.
- After the work is completed, make sure no system malfunction is detected by air bag warning lamp.

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SIDE CURTAIN AIR BAG MODULE

< REMOVAL AND INSTALLATION >

- In case a malfunction is detected by the air bag warning lamp, reset by the self-diagnosis function and delete the memory by CONSULT.
- If a malfunction is still detected after the above operation, perform self-diagnosis to repair malfunctions. Refer to [SRC-14, "Trouble Diagnosis with CONSULT"](#).
- Make sure the side curtain air bag module is not twisted at any point along the vehicle when installed.

SIDE AIR BAG MODULE

< REMOVAL AND INSTALLATION >

SIDE AIR BAG MODULE

Removal and Installation

INFOID:00000009266929

REMOVAL

WARNING:

Do not leave any objects (screwdrivers, tools, etc.) on the seat during seatback repair. It can lead to personal injury if the side air bag should accidentally deploy.

CAUTION:

- Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.
- Handle the side air bag module carefully. During disassembly, always hold the side air bag module, do not let it hang by the wire harness.
- Always place the side air bag module with the deployment side facing upward.
- Always work from the side or back of the seatback assembly, do not work in front of seat.
- Do not use air tools or electric tools for servicing the seat assembly.
- Replace the side air bag module if it has been dropped or sustained an impact.
- Do not insert any objects into the side air bag module.
- Do not attempt to disassemble the air bag module.
- Do not expose the side air bag module to temperatures exceeding 90°C (194°F).
- Do not expose the side air bag module to any oil, grease, detergent or water.
- During disassembly, do not damage the seatback cover, chutes, connectors, retainers, clips, module harness or the side air bag module.

NOTE:

- If the vehicle has been involved in a collision and the side air bag has deployed, the front seatback assembly must be replaced.
- For side air bag module removal and installation, seatback trim and seatback pad must be released from the seatback frame for access.

1. Remove the driver or passenger seat assembly. Refer to [SE-17. "DRIVER SIDE : Removal and Installation"](#).
2. Disassemble the seatback, release the seatback trim and seatback pad as an assembly, then remove side air bag module from the seatback. Refer to [SE-29. "DRIVER SIDE : Disassembly and Assembly"](#) (DRIVER SIDE) or [SE-40. "PASSENGER SIDE : Disassembly and Assembly"](#) (PASSENGER SIDE).

NOTE:

The side air bag module is removed from the seat frame, then through the sewn in chute, as part of the seatback cover and pad disassembly procedure.

INSTALLATION

Installation is in the reverse order of removal.

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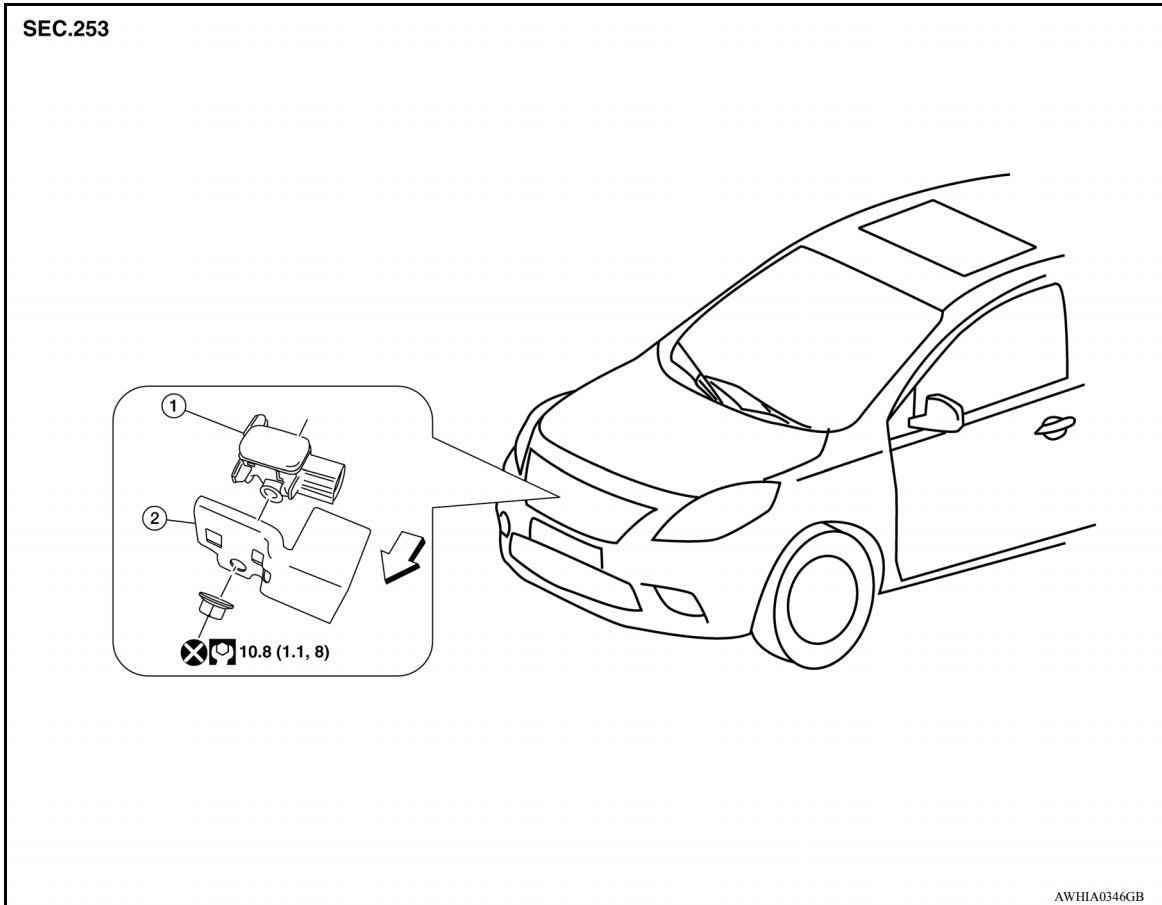
CRASH ZONE SENSOR

< REMOVAL AND INSTALLATION >

CRASH ZONE SENSOR

Exploded View

INFOID:000000009266930



1. Crash zone sensor

2. Bracket

A. Nut

⇐ Front

Removal and Installation

INFOID:000000009266931

REMOVAL

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait three minutes or more.
- Do not use the air tools or electric tools for servicing.

CAUTION:

- Do not 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 and deployed passenger air bag.

1. Remove the crash zone sensor nut, then remove the bracket and crash zone sensor from radiator support bracket in front of vehicle.
2. Disconnect the harness connector from the crash zone sensor.
3. Remove crash zone sensor.



INSTALLATION

CRASH ZONE SENSOR

< REMOVAL AND INSTALLATION >

Installation is in the reverse order of removal.

CAUTION:

- Make sure the locating pin on crash zone sensor is aligned with the cutout hole of the radiator support bracket before tightening nut.
- Do not use the old nut after removal, replace with new nut.
- Do not 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-13, "SRS Operation Check"](#) or [SRC-15, "CONSULT Function \(AIR BAG\)"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

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SIDE AIR BAG (SATELLITE) SENSOR

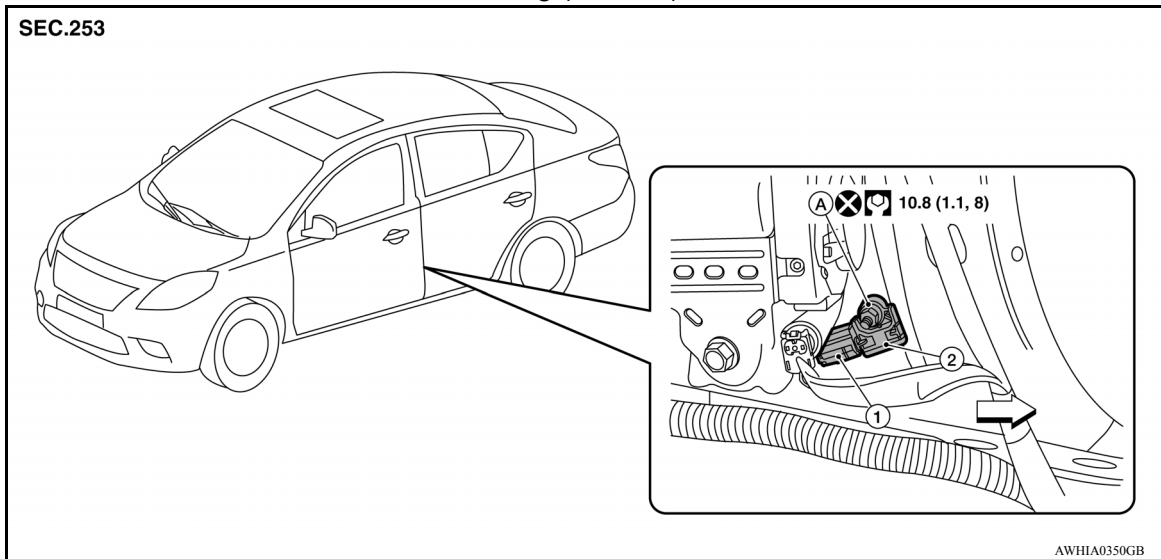
< REMOVAL AND INSTALLATION >

SIDE AIR BAG (SATELLITE) SENSOR

Removal and Installation

INFOID:000000009266932

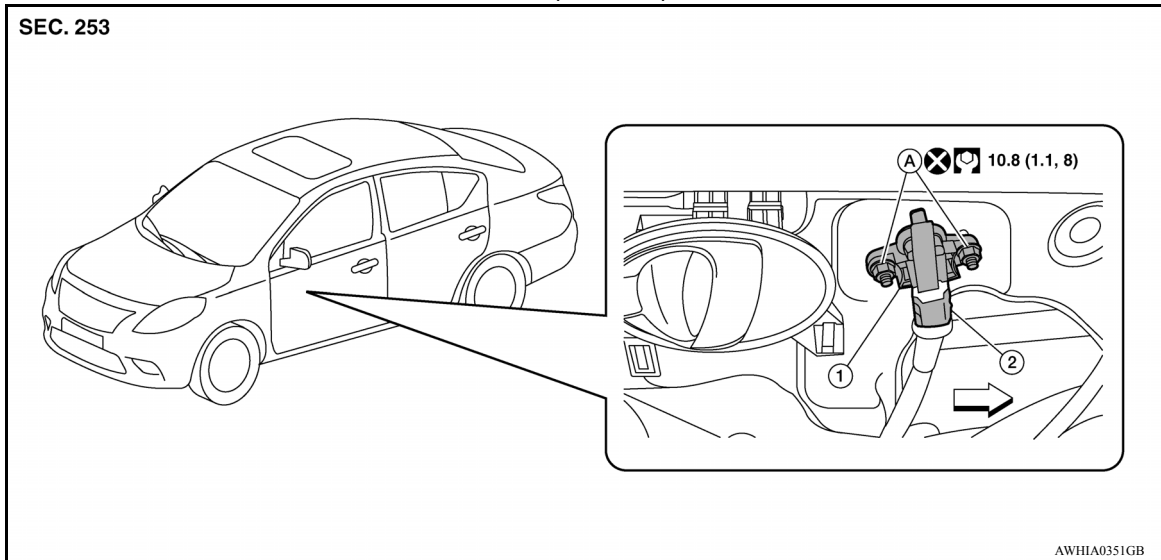
Side air bag (satellite) sensor



1. Side air bag (satellite) sensor harness slide 2. Side air bag (satellite) sensor A. Side air bag (satellite) sensor nut double locking type connector

⇐ Front

Front door (satellite) sensor



1. Front door (satellite) sensor harness connector 2. Front door (satellite) sensor A. Front door (satellite) sensor nuts

⇐ Front

WARNING:

- Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.
- Do not use air tools or electric tools for servicing.

CAUTION:

- Do not use old nuts after removal; replace with new nuts.
- Do not cause impact to the side air bag (satellite) sensor by dropping etc. Replace the side air bag (satellite) sensor if it has been dropped or sustained an impact.

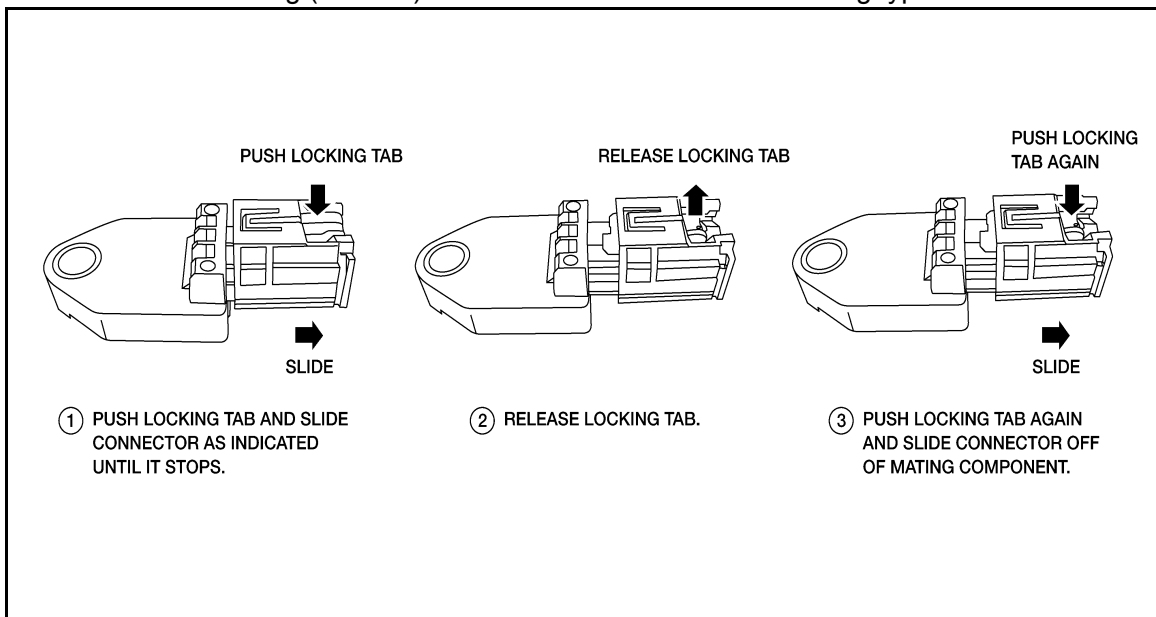
SIDE AIR BAG (SATELLITE) SENSOR

< REMOVAL AND INSTALLATION >

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

REMOVAL - SIDE AIR BAG (SATELLITE) SENSOR

1. Disconnect the battery negative and positive terminals and wait at least three minutes. Refer to [PG-63, "Removal and Installation"](#).
2. Remove the front seat belt retractor. Refer to [SB-6, "SEAT BELT RETRACTOR : Removal and Installation"](#).
3. Disconnect the side air bag (satellite) sensor harness slide double locking type connector.



4. Remove the nut, then remove side air bag (satellite) sensor.

INSTALLATION - SIDE AIR BAG (SATELLITE) SENSOR

Installation is in the reverse order of removal.

CAUTION:

- Be careful not to damage the side air bag (satellite) sensor harness.
- After the work is completed, make sure no system malfunction is detected by air bag warning lamp.
- In case a malfunction is detected by the air bag warning lamp, reset by the self-diagnosis function and delete the memory by CONSULT.
- If a malfunction is still detected after the above operation, perform self-diagnosis to repair malfunctions. Refer to [SRC-13, "SRS Operation Check"](#).

REMOVAL - FRONT DOOR (SATELLITE) SENSOR

WARNING:

- Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.
- Do not use air tools or electric tools for servicing.

CAUTION:

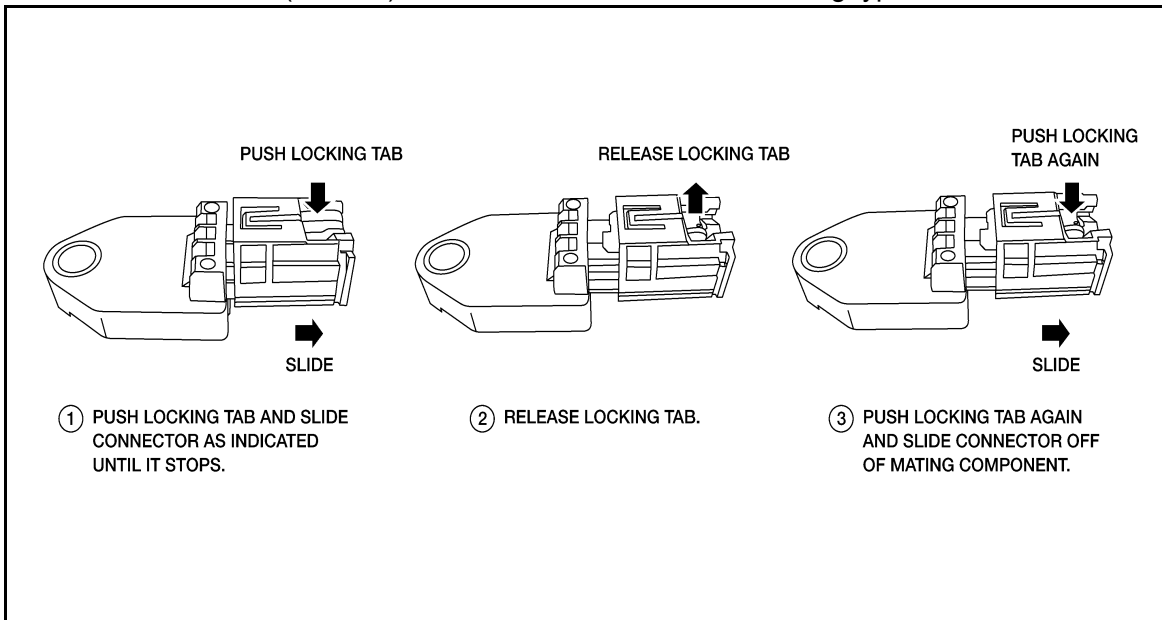
- Do not reuse old nuts after removal; replace with new nuts.
- Do not cause impact to the front door (satellite) sensor by dropping etc. Replace the front door (satellite) sensor if it has been dropped or sustained an impact.
- Replace both the side air bag (satellite) sensor and front door (satellite) sensor of a deployed SRS front side air bag and deployed SRS side curtain air bag.
- Do not hold front door (satellite) sensor by its pressure port. The pressure port must be facing down when handling front door (satellite) sensor.

1. Disconnect the battery negative and positive terminals and wait at least three minutes. Refer to [PG-63, "Removal and Installation"](#).
2. Remove front door finisher and partially remove vapor screen. Refer to [INT-15, "Removal and Installation"](#).

SIDE AIR BAG (SATELLITE) SENSOR

< REMOVAL AND INSTALLATION >

3. Disconnect the front door (satellite) sensor harness slide double locking type connector.



4. Remove the nut, then remove front door (satellite) sensor.

INSTALLATION - FRONT DOOR (SATELLITE) SENSOR

Installation is in the reverse order of removal.

CAUTION:

- Be careful not to damage the front door (satellite) sensor harness.
- After the work is completed, make sure no system malfunction is detected by air bag warning lamp.
- In case a malfunction is detected by the air bag warning lamp, reset by the self-diagnosis function and delete the memory by CONSULT.
- If a malfunction is still detected after the above operation, perform self-diagnosis to repair malfunctions. Refer to [SRC-13. "SRS Operation Check"](#).

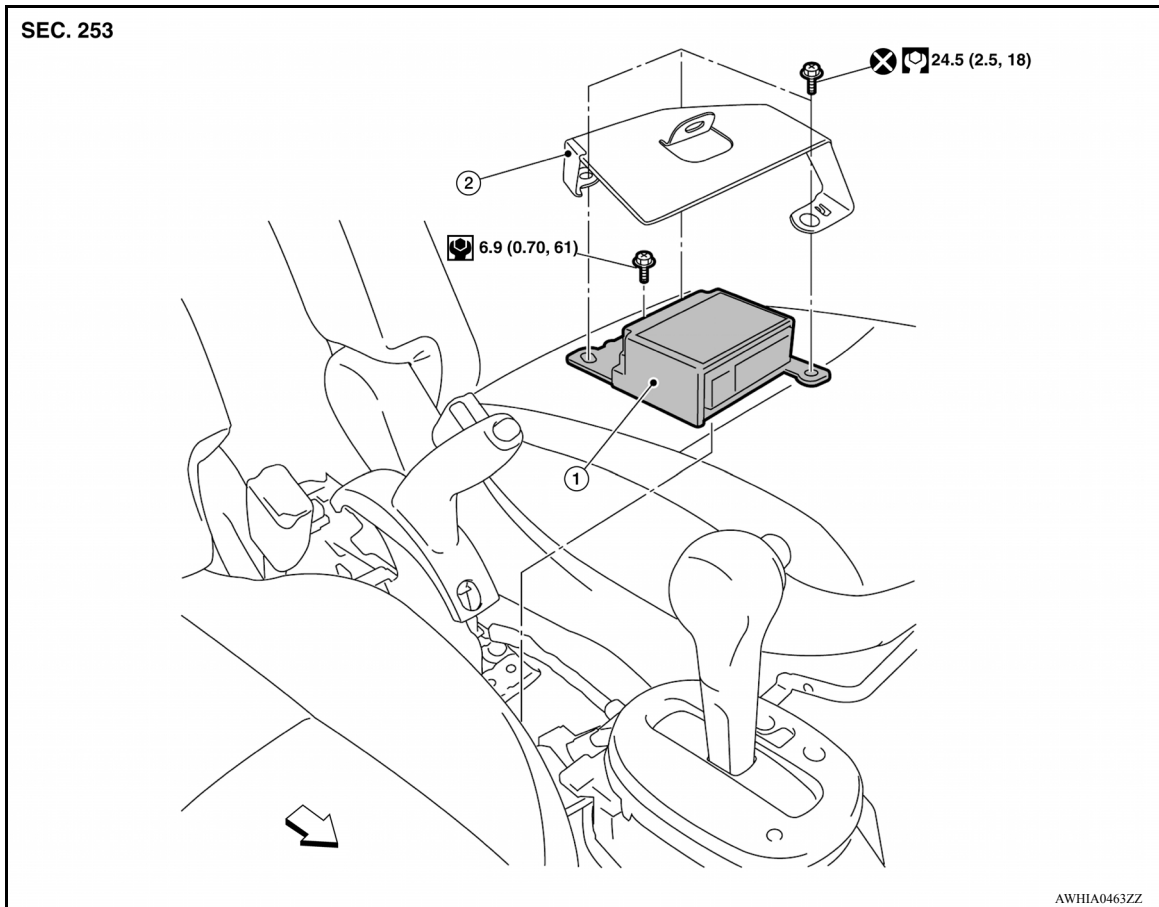
DIAGNOSIS SENSOR UNIT

< REMOVAL AND INSTALLATION >

DIAGNOSIS SENSOR UNIT

Removal and Installation

INFOID:00000009266933



1. Diagnosis sensor unit 2. Diagnosis sensor unit harness bracket ← Front

REMOVAL

WARNING:

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-tensioner in a collision resulting in serious personal injury or death.

CAUTION:

- Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.
- Before disconnecting the air bag sensor unit harness connector, be sure to disconnect the harness connector of each air bag module and pre-tensioner seat belt to prevent air bag deployment by static electricity.
- Do not use air tools or electric tools for servicing.
- Do not use old bolts after removal; replace with new bolts.
- Do not cause an impact to the diagnosis sensor unit by dropping etc. Replace the diagnosis sensor unit if it has been dropped or sustained an impact.
- Replace the diagnosis sensor unit of deployed SRS air bag and deployed SRS front seat belt pre-tensioner.

1. Always check the air bag diagnosis sensor unit ECU discriminated number (identification number) or part number using CONSULT.
2. Disconnect the negative and positive battery terminals, then wait at least three minutes. Refer to [PG-63](#), "[Removal and Installation](#)".

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DIAGNOSIS SENSOR UNIT

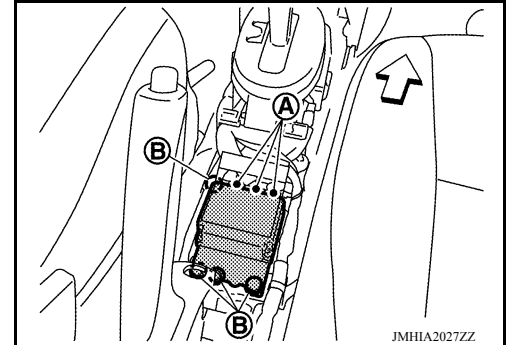
< REMOVAL AND INSTALLATION >

3. Disconnect the harness connectors for the following SRS components: [SR-19, "Removal and Installation"](#), (Side curtain air bag), [SB-6, "SEAT BELT RETRACTOR : Removal and Installation"](#) (Font seat belt pretensioner), [SE-29, "DRIVER SIDE : Disassembly and Assembly"](#) (Side air bag module - DRIVER SIDE), [SE-40, "PASSENGER SIDE : Disassembly and Assembly"](#) (Side air bag module - PASSENGER SIDE).
4. Remove the center console assembly. Refer to [IP-23, "Removal and Installation"](#).
5. Disconnect the harness connectors (A) from the diagnosis sensor unit.
6. Remove the bolts (B) and the harness bracket, then remove the diagnosis sensor unit.

⇐: Front

NOTE:

Shown with diagnosis sensor unit harness bracket removed for clarity.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Be careful not to damage the diagnosis sensor unit harness.
- After the work is completed, make sure no system malfunction is detected by air bag warning lamp.
- In case a malfunction is detected by the air bag warning lamp, reset by the self-diagnosis function and delete the memory by CONSULT.
- If a malfunction is still detected after the above operation, perform self-diagnosis to repair malfunctions. Refer to [SRC-13, "SRS Operation Check"](#).
- After replacing the air bag diagnosis sensor unit, confirm using CONSULT that the ECU discriminated number (identification number) or part number of the new replacement air bag diagnosis sensor unit matches the ECU discriminated number (identification number) or part number of the replaced (old) air bag diagnosis sensor unit.

NOTE:

If the ECU discriminated number or part number of the new replacement air bag diagnosis sensor unit differs from the ECU discriminated number or part 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

Removal and Installation

INFOID:000000009266934

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

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OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

< REMOVAL AND INSTALLATION >

OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

Removal and Installation

INFOID:000000009266935

The occupant classification system control unit, system wiring harness, and system sensors are an integral part of the front passenger seat, and are replaced with the seat assembly. Refer to [SE-17. "DRIVER SIDE : Removal and Installation"](#).