

SECTION **SR**

SRS AIRBAG

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:0000000010927701

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:0000000010927702

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

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

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

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

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Open driver door.
3. Turn the ignition switch to the ON position.
(At this time, the steering lock will be released.)
4. Turn the ignition switch to OFF position with driver door open.
5. Wait for 3 minutes or longer with driver door open.

NOTE:

- Do not close driver door because the steering wheel locks when driver door is closed.

PRECAUTIONS

< PRECAUTION >

- The auto acc function is adapted to this vehicle. For this reason, even when the ignition switch is turned to OFF position, the accessory power source does not turned OFF and continues to be supplied for a certain amount of time.
6. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
 7. Perform the necessary repair operation.
 8. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from OFF position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
 9. Perform self-diagnosis check of all control units using CONSULT.

Precautions for Removing Battery Terminal

INFOID:000000011051400

- With the adoption of Auto ACC function, ACC power is automatically supplied by operating the intelligent key or remote keyless entry or by opening/closing the driver side door. In addition, ACC power is supplied even after the ignition switch is turned to the OFF position, i.e. ACC power is supplied for a certain fixed time.
- When disconnecting the 12V battery terminal, turn off the ACC power before disconnecting the 12V battery terminal, observing "How to disconnect 12V battery terminal" described below.

NOTE:

Some ECUs operate for a certain fixed time even after ignition switch is turned OFF and ignition power supply is stopped. If the battery terminal is disconnected before ECU stops, accidental DTC detection or ECU data damage 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.

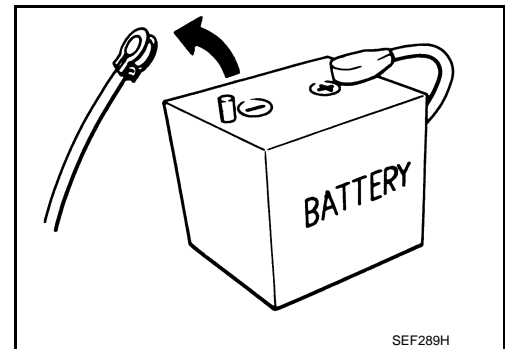
NOTE:

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.



SEF289H

HOW TO DISCONNECT 12V BATTERY TERMINAL

Disconnect 12V battery terminal according to Instruction 1 or Instruction 2 described below.

For vehicles parked by ignition switch OFF, refer to Instruction 2.

INSTRUCTION 1

1. Open the hood.
2. Turn key switch to the OFF position with the driver side door opened.
3. Get out of the vehicle and close the driver side door.
4. Wait at least 3 minutes. For vehicle with the engine listed below, remove the battery terminal after a lapse of the specified time.

D4D engine	: 20 minutes
HRA2DDT	: 12 minutes
K9K engine	: 4 minutes
M9R engine	: 4 minutes
R9M engine	: 4 minutes
V9X engine	: 4 minutes

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

5. Remove 12V battery terminal.

CAUTION:

After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

INSTRUCTION 2 (FOR VEHICLES PARKED BY IGNITION SWITCH OFF)

1. Unlock the door with intelligent key or remote keyless entry.

PRECAUTIONS

< PRECAUTION >

NOTE:

At this moment, ACC power is supplied.

2. Open the driver side door.
3. Open the hood.
4. Close the driver side door.
5. Wait at least 3 minutes.

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

6. Remove 12V battery terminal.

CAUTION:

After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

Precaution for Disposal

INFOID:0000000010927704

- Before disposing of air bag module, pop-up roll bar and seat belt pre-tensioner, or vehicles equipped with such systems, deploy the systems. If such systems have already been deployed due to an accident, dispose of them as indicated in Disposing of Air Bag Module, Pop-up Roll Bar and Seat Belt Pre-tensioner.
- When deploying the air bag module, pop-up roll bar and seat belt pre-tensioner, always use the Special Service Tool; Deployment tool (SST: KV99104600).
- When deploying the air bag module, pop-up roll bar and seat belt pre-tensioner, stand at least 5.0 m (16.4 ft.) away from the deployment component.
- When deploying air bag module, pop-up roll bar and seat belt pre-tensioner, a fairly loud noise is made, followed by smoke being released. The smoke is not poisonous, however, be careful not to inhale smoke since it irritates the throat and can cause choking.
- Always activate one air bag module at a time.
- Due to heat, leave air bag module unattended for more than 30 minutes after deployment. Also leave pop-up roll bar and seat belt pre-tensioner unattended for more than 10 minutes after deployment.
- Wear gloves when handling a deployed air bag module, pop-up roll bar and seat belt pre-tensioner.
- Never apply water to the deployed air bag module, pop-up roll bar and seat belt pre-tensioner.
- Wash your hands after work is completed.
- Place the vehicle outdoors with an open space of at least 6.0 m (19.7 ft) on all sides when deploying air bag module, pop-up roll bar and seat belt pre-tensioner while mounted in vehicle.
- Use a volt meter to make sure the vehicle battery is fully charged.
- Never dispose of the air bag module, pop-up roll bar and seat belt pre-tensioner that does not deploy.

Service

INFOID:0000000010927705

- Never use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. For approximately 3 minutes after the battery negative terminal are removed, it is still possible for the air bag and seat belt pre-tensioner 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 front instrument panel assembly should be replaced if damaged.
- Always replace instrument panel pad following passenger air bag deployment.

PREPARATION

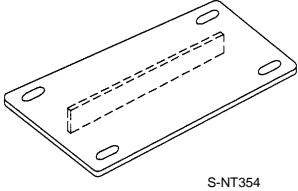
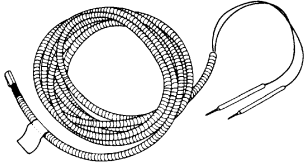
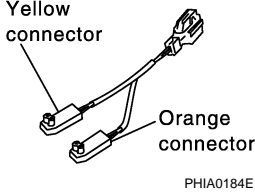
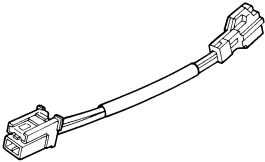
< PREPARATION >

PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000010927706

Tool number Tool name		Description
KV99105300 Air bag module bracket		Anchors air bag module
KV99104600 Deployment tool		Disposes of air bag module, seat belt pre-tensioner, and lap pre-tensioner
KV99110500 Deployment tool adapter <ul style="list-style-type: none"> • Deployment tool adapter for driver air bag module • Deployment tool adapter for passenger air bag module • Deployment tool adapter for curtain air bag module • Deployment tool adapter for seat belt pre-tensioner • Deployment tool adapter for lap pre-tensioner 		<ul style="list-style-type: none"> • Connects the deployment tool and driver air bag module • Connects the deployment tool and passenger air bag module • Connects between the deployment tool and curtain air bag module • Connects the deployment tool and seat belt pre-tensioner • Connects the deployment tool and lap pre-tensioner
KV99109000 Deployment tool adapter Deployment tool adapter for side air bag module		Connects between the deployment tool and side air bag module

COMPONENT PARTS

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

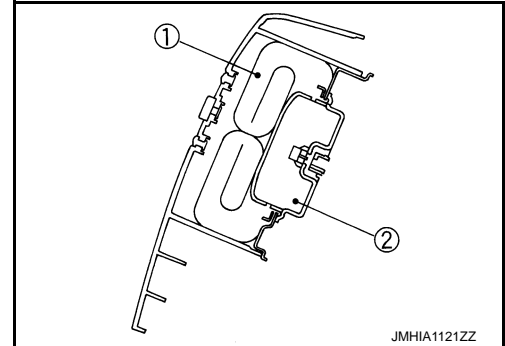
COMPONENT PARTS

AIR BAG MODULE

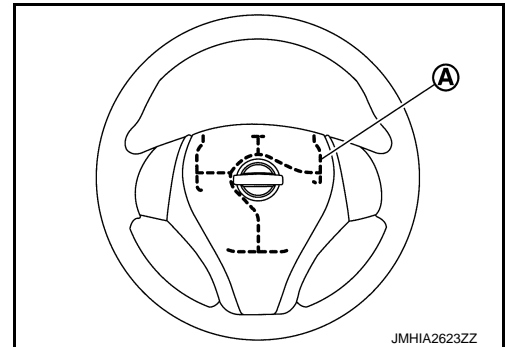
AIR BAG MODULE : Driver air bag module

INFOID:0000000010927707

- Driver air bag module is built into steering wheel.
- Driver air bag module mainly consists of air bag ① and inflator ② which inflates air bag.



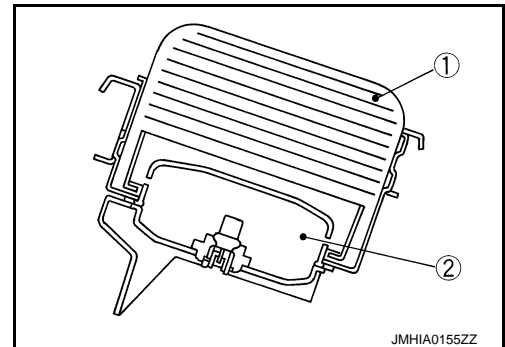
- Driver air bag inflates by breaking steering wheel center pad surface ①.



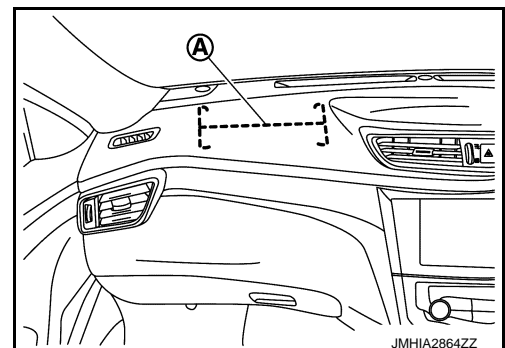
AIR BAG MODULE : Passenger air bag module

INFOID:0000000010927708

- Passenger air bag module is built into instrument panel.
- Passenger air bag module mainly consists of air bag ① and inflator ② which inflates air bag.



- Passenger air bag inflates by breaking instrument panel surface ①.



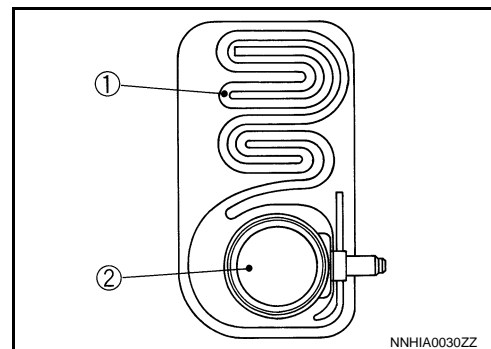
COMPONENT PARTS

< SYSTEM DESCRIPTION >

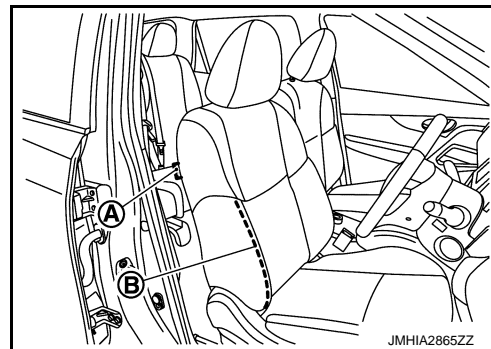
AIR BAG MODULE : Side air bag module

INFOID:000000010927709

- Side air bag module is built into seatback side.
- Side air bag module mainly consists of air bag ① and inflator ② which inflates air bag.



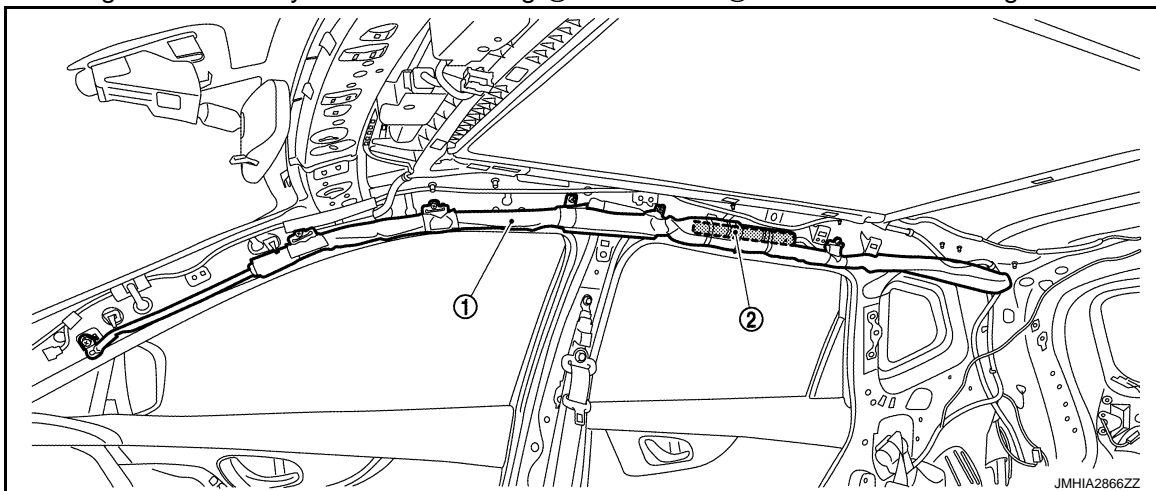
- Identification mark (A) is installed to seatback side stitch indicating that side air bag is equipped.
- Side air bag inflates through seatback side stitch (B).



AIR BAG MODULE : Curtain air bag module

INFOID:000000010927710

- Curtain air bag module is built into roof side portion LH and RH.
- Curtain air bag module mainly consists of air bag ① and inflator ② which inflates air bag.

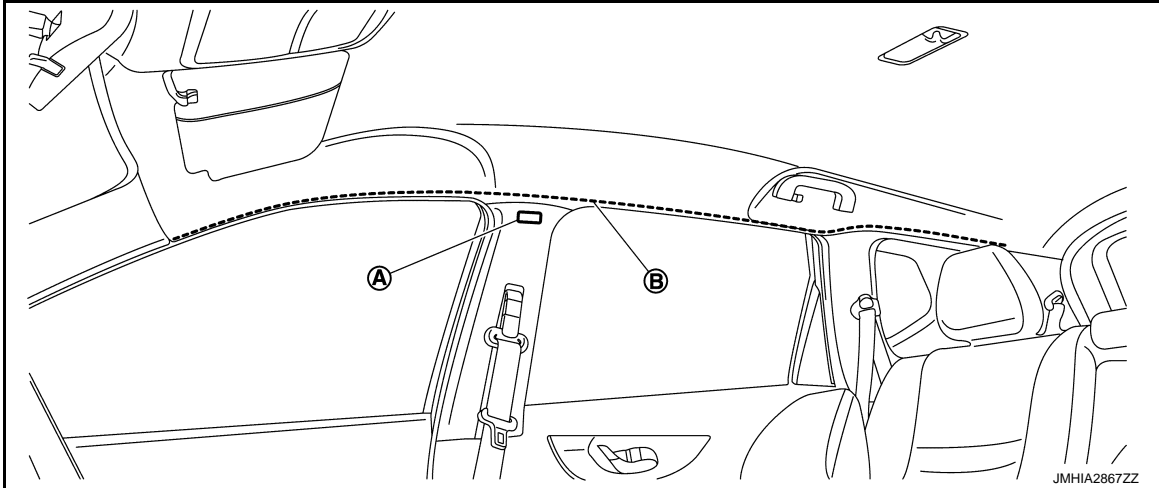


- Identification mark (A) is installed to center pillar upper garnish upper indicating that SRS curtain air bag is equipped.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

- Curtain air bag inflates through a space ② between headliner and roof side portion.



INFLATOR

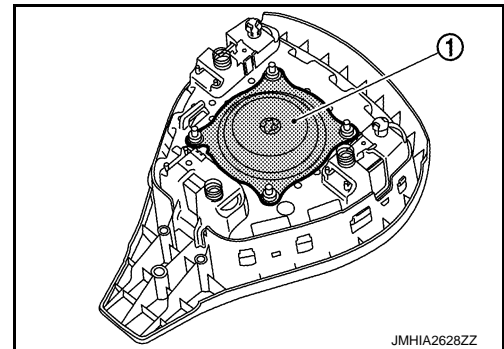
INFLATOR : Driver air bag inflator

INFOID:0000000010927711

- Driver air bag inflator ① mainly consists of electric ignition device (squib), igniting agent, gas generating agent, and filter. These items are stored in a container.
- In a frontal collision which exceeds the specified limit of the vehicle, electric ignition device (squib) ignites igniting agent. Gas generating agent burns due to heat from igniting agent. Generated gas (high temperature) inflates air bag through filter.

NOTE:

Filter removes and cools residues of gas generating agent.



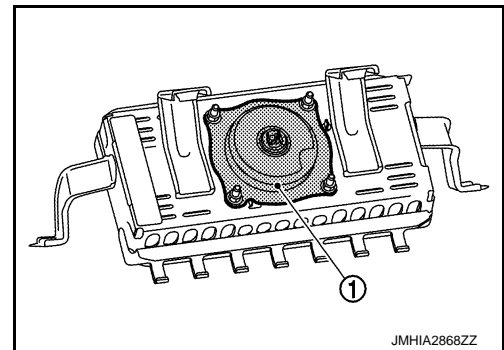
INFLATOR : Passenger air bag inflator

INFOID:0000000010927712

- Passenger air bag inflator ① mainly consists of electric ignition device (squib), igniting agent, gas generating agent, and filter. These items are stored in a container.
- In a frontal collision which exceeds the specified limit of the vehicle, electric ignition device (squib) ignites igniting agent. Gas generating agent burns due to heat from igniting agent. Generated gas (high temperature) inflates air bag through filter.

NOTE:

Filter removes and cools residues of gas generating agent.



COMPONENT PARTS

< SYSTEM DESCRIPTION >

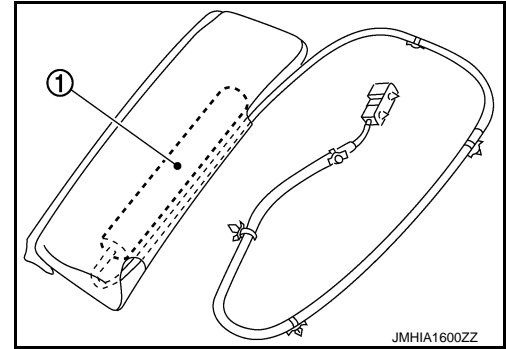
INFLATOR : Side air bag inflator

INFOID:0000000010927713

- Side air bag inflator ① mainly consists of electric ignition device (squib), heating agent, compressed gas, filter, and diffuser. These items are stored in a cylinder-type container.
- In a lateral collision which exceeds the specified limit of the vehicle, electric ignition device (squib) ignites igniting agent. Gas generating agent burns due to heat from igniting agent. Generated gas (high temperature) inflates air bag through filter.

NOTE:

Filter removes and cools residues of gas generating agent.



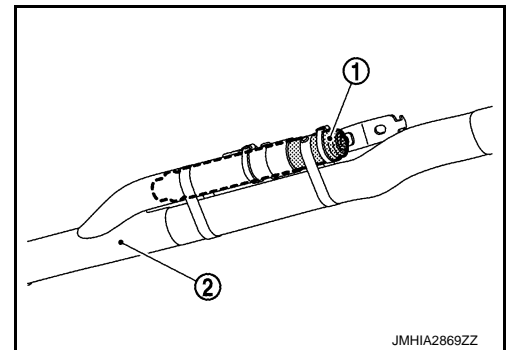
INFLATOR : Curtain air bag inflator

INFOID:0000000010927714

- Curtain air bag inflator ① mainly consists of electric ignition device (squib), heating agent, compressed gas, and diffuser. These items are stored in a cylinder-type container.
- In a lateral collision which exceeds the specified limit of the vehicle, electric ignition device (squib) ignites igniting agent. Gas generating agent burns due to heat from igniting agent. Generated gas (high temperature) inflates air bag ② through filter.

NOTE:

Filter removes and cools residues of gas generating agent.

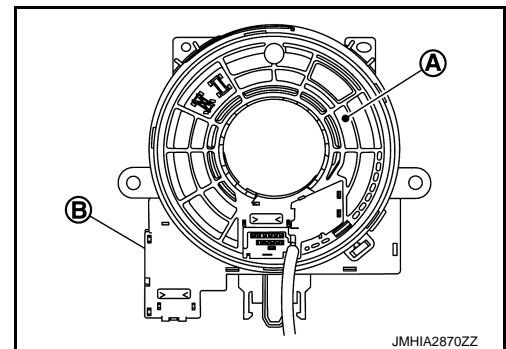


MAIN COMPONENT PARTS AND FUNCTIONS

MAIN COMPONENT PARTS AND FUNCTIONS : Spiral cable

INFOID:0000000010927715

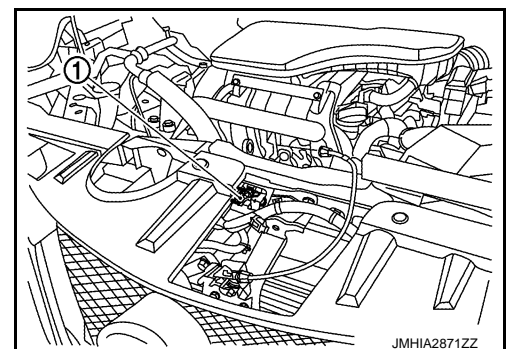
- Spiral cable electrically connects air bag diagnosis sensor unit and driver air bag module. Spiral cable mainly consists of the rotating portion (A) which performs the same movement as steering wheel, the fixed case (B) which is installed on steering wheel, and the cable which connects the rotating portion.
- Spiral cable is built into steering angle sensor which is installed to a space between combination switch and steering wheel.



MAIN COMPONENT PARTS AND FUNCTIONS : Crash zone sensor

INFOID:0000000010927716

- Crash zone sensor ① is installed to charge port lid hinge assembly. Crash zone sensor integrates frontal collision "G" sensor which detects frontal collision impact that exceeds the specified limit of the vehicle.
- In a frontal collision that exceeds the specified limit of the vehicle, crash zone sensor detects impact. If frontal collision safing sensor in air bag diagnosis sensor unit judges that impact is due to a collision, driver air bag, passenger air bag and seat belt pre-tensioner (front and rear) operate.



MAIN COMPONENT PARTS AND FUNCTIONS : Satellite sensor

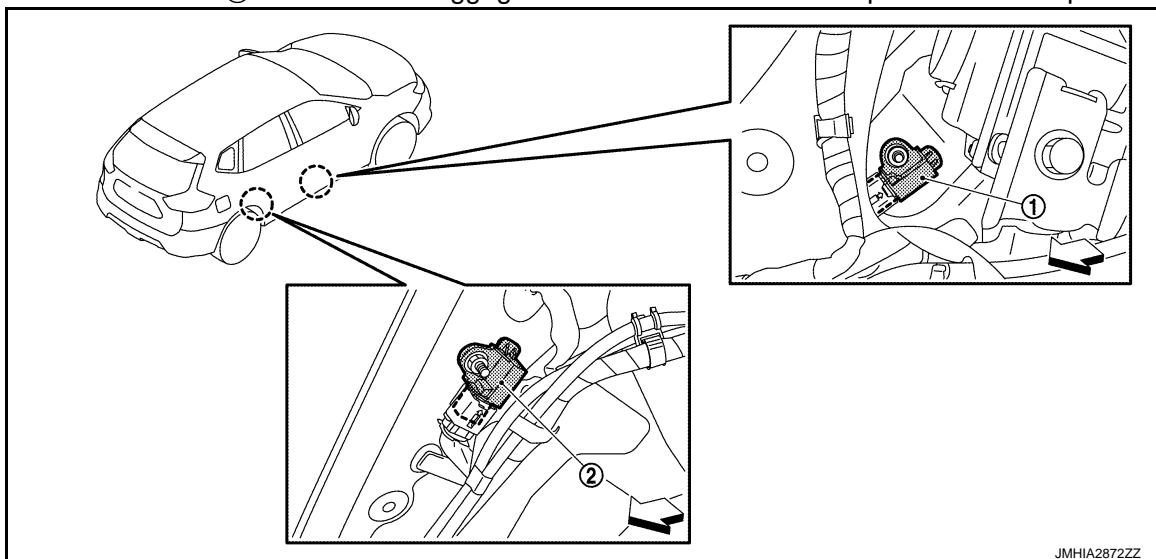
INFOID:0000000010927717

- B-pillar satellite sensor ① is installed to center pillar lower portion of front seat belt retractor front side.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

- C-pillar satellite sensor ② is installed to luggage side lower finisher remove portion of the C-pillar.



↶ : Vehicle front

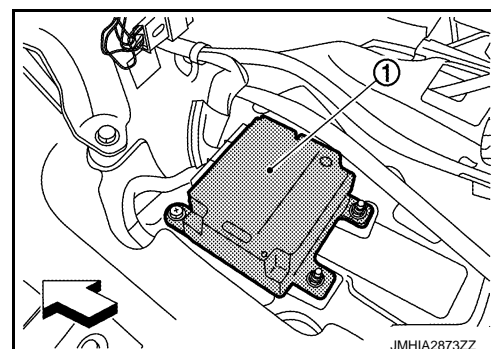
- Satellite sensor integrates lateral collision “G” sensor which detects lateral collision impact that exceeds the specified limit of the vehicle. (Lateral collision “G” sensor adopts electronic sensor of which operating principles are the same as those of frontal collision “G” sensor in air bag diagnosis sensor unit.)
- In a lateral collision that exceeds the specified limit of the vehicle, satellite sensor detects impact. If lateral collision safing sensor in air bag diagnosis sensor unit judges that impact is due to a collision, side air bag, curtain air bag and front seat belt pre-tensioner operate.

MAIN COMPONENT PARTS AND FUNCTIONS : Air bag diagnosis sensor unit

INFOID:000000010927718

- Air bag diagnosis sensor unit ① is installed to front seat center portion (under center console). Air bag diagnosis sensor unit integrates control functions of driver air bag, passenger air bag, side air bag, curtain air bag, and seat belt pre-tensioner.

↶ : Vehicle front



- Air bag diagnosis sensor unit integrates frontal collision “G” sensor, frontal collision safing sensor, and lateral collision safing sensor.
- Air bag diagnosis sensor unit has a function that judges impact due to frontal and lateral collisions exceeding the specified limit of the vehicle. Air bag diagnosis sensor unit also has an auxiliary power supply function that supplements battery power supply in the event battery is damaged in a collision.
- Air bag diagnosis sensor unit diagnoses electric system of entire air bag system. Self-diagnosis function is adopted, which indicates system malfunction by turning ON or blinking air bag warning lamp on combination meter when a malfunction is detected. Diagnosis using CONSULT is possible.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

MAIN COMPONENT PARTS AND FUNCTIONS : Air bag warning lamp

INFOID:000000010927719

- Air bag warning lamp turns ON or blinks indicating a system malfunction when a malfunction is detected for electric system of SRS air bag system and seat belt pre-tensioner system.
- For operation check purposes, air bag warning lamp turns ON for 7 seconds after power switch is turned ON. During this period of time, air bag diagnosis sensor unit performs system diagnosis.

NOTE:

SRS air bag and seat belt pre-tensioner do not operate for approximately 7 seconds (air bag warning lamp is turning ON) after power switch is turned ON.



BF-1845D

COLLISION DIAGNOSIS

< BASIC INSPECTION >

BASIC INSPECTION

COLLISION DIAGNOSIS FOR FRONTAL COLLISION

FOR FRONTAL COLLISION : When SRS is activated in a collision

INFOID:0000000010927720

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.
- Replace the diagnosis sensor unit.
- Remove the front air bag modules, crash zone sensor, bracket and seat belt pre-tensioner assemblies.
- Check the SRS components using the table below:
Replace any SRS components showing visible signs of damage. (dents, cracks and deformation, etc.)
- Install new front air bag modules, crash zone sensor assembly, bracket and seat belt pre-tensioner assemblies.
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

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"> Visually check steering wheel for deformities. Check harness (built into steering wheel) and connectors for damage, and terminals for deformities. Install driver air bag module into the steering wheel to check fit and alignment with the wheel. Check steering wheel for excessive free play. If no damage is found, reinstall. If damaged – REPLACE.
Spiral cable	If the driver front air bag has deployed: REPLACE the spiral cable.
Occupant classification system (Passenger seat)	<ol style="list-style-type: none"> Remove passenger seat assembly. Check control unit case for dents, cracks or deformities. Check connectors and pressure sensor tube for damage, and terminals for deformities. Check seat frame and cushion pan for dents or deformities. If no damage is found, reinstall seat with new fasteners. If damaged – REPLACE seat cushion assembly with new fasteners.

COLLISION DIAGNOSIS

< BASIC INSPECTION >

Part	Inspection
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 air bag has deployed: REPLACE the instrument panel assembly. (integrated type)

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

INFOID:000000010927721

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-18. "DTC Index"](#) for details. Ensure entire SRS operates properly.
4. After the work is completed, check that no system malfunction is detected by air bag warning lamp.

SRS INSPECTION (FOR FRONTAL COLLISION)

Part	Inspection
Driver air bag module	<p>If the driver air bag has NOT been deployed:</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 module with new fasteners. <p>CAUTION: Before disposing of such systems, deploy the systems.</p>
Front passenger air bag module (if equipped)	<p>If the front passenger air bag has NOT been deployed:</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. <p>CAUTION: Before disposing of such systems, deploy the systems.</p>
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, 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.

COLLISION DIAGNOSIS

< BASIC INSPECTION >

Part	Inspection	
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	<p>If the pre-tensioners have NOT been activated:</p> <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 no damage is found, reinstall seat belt pre-tensioner assembly. 7. If damaged – REPLACE. Install the seat belt pre-tensioners with new fasteners. <p>CAUTION: Before disposing of such systems, deploy the systems.</p>	A B C D
Diagnosis sensor unit	<p>If none of the SRS components have been activated:</p> <ol style="list-style-type: none"> 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. 	E
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. 	F G
Spiral cable	<p>If the driver front air bag has not deployed:</p> <ol style="list-style-type: none"> 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)	<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. 	J K
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. 	L
Instrument panel assembly	<p>If the passenger air bag has NOT deployed:</p> <ol style="list-style-type: none"> 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. 	M

FOR SIDE AND ROLLOVER COLLISION

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

INFOID:0000000010927722

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

COLLISION DIAGNOSIS

< BASIC INSPECTION >

- 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-18. "DTC Index"](#) for details. Make sure entire SRS operates properly.
 5. After the work is completed, check that no system malfunction is detected by air bag warning lamp.

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, 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.
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

INFOID:0000000010927723

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 must be replaced.
3. Perform self-diagnosis using CONSULT or air bag warning lamp. Refer to [SRC-18. "DTC Index"](#) for details. Ensure entire SRS operates properly.
4. After the work is completed, check that no system malfunction is detected by air bag warning lamp.

SRS INSPECTION (FOR SIDE AND ROLLOVER COLLISION)

COLLISION DIAGNOSIS

< BASIC INSPECTION >

Part	Inspection	
Side curtain air bag module LH	<p>If the side 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 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. <p>CAUTION: Before disposing of such systems, deploy the systems.</p>	A B C
Side curtain air bag module RH	<p>If the 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 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. <p>CAUTION: Before disposing of such systems, deploy the systems.</p>	D E F
Front side air bag module LH	<p>If the front side 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 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. <p>CAUTION: Before disposing of such systems, deploy the systems.</p>	G SR
Front side air bag module RH	<p>If the front side 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 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. <p>CAUTION: Before disposing of such systems, deploy the systems.</p>	I J
Side air bag (satellite) sensor (LH or RH)	<p>If none of the SRS components have been activated:</p> <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, etc.) 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. 	K L
Diagnosis sensor unit	<p>If none of the SRS components have been activated:</p> <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. 	M N
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	<p>If the pre-tensioners have NOT been activated:</p> <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 no damage is found, reinstall seat belt pre-tensioner assembly. 7. If damaged – REPLACE. Install the seat belt pre-tensioners with new fasteners. <p>CAUTION: Before disposing of such systems, deploy the systems.</p>	O P

COLLISION DIAGNOSIS

< BASIC INSPECTION >

Part	Inspection
Seat (with 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.
Pop-up roll bar	<p>If the pop-up roll bar has 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. <p>CAUTION: Before disposing of such systems, deploy the systems.</p>

DRIVER AIR BAG MODULE

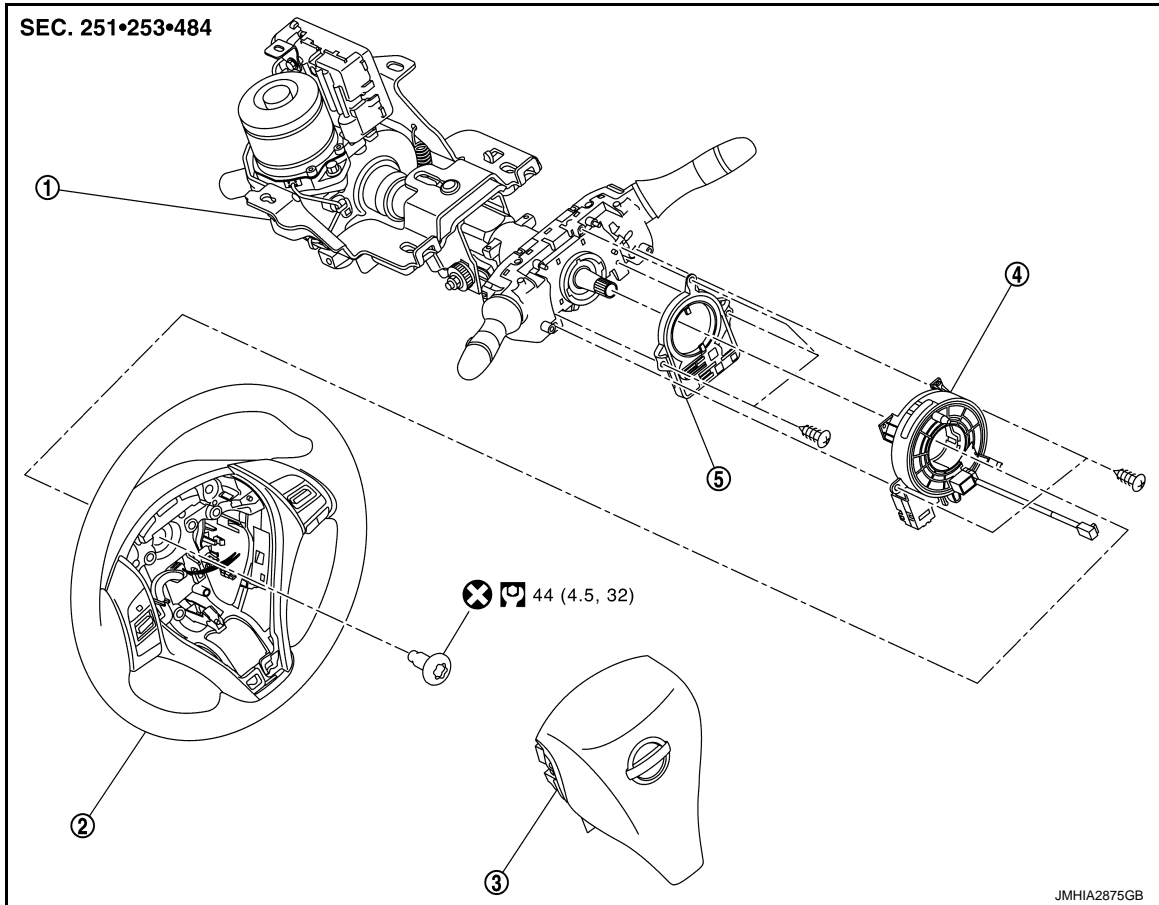
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

DRIVER AIR BAG MODULE

Exploded View

INFOID:0000000010927724



- ① Steering column assembly ② Steering wheel ③ Driver air bag module
④ Spiral cable ⑤ Steering angle sensor

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, ft·lb)

Removal and Installation

INFOID:0000000010927725

WARNING:

Always observe the following items for preventing accidental activation.

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait for 3 minutes or more (discharges electricity held in the additional power supply circuit of the air bag diagnosis sensor unit).
- Always work from the side of air bag module. Never work in front of it.

REMOVAL

< REMOVAL AND INSTALLATION >

-

Diagram illustrating the removal of the front cover. The front cover is labeled '1' and the screwdriver is labeled 'A'.

-
- Diagram illustrating the removal of the steering wheel cover. The cover is shown being pulled away from the steering wheel (1) and then pushed down to be released (2).

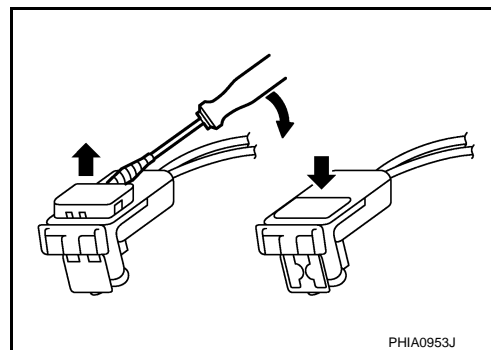
-

SR-20

DRIVER AIR BAG MODULE

< REMOVAL AND INSTALLATION >

- For installing/removing the driver air bag module harness connector, insert a 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.

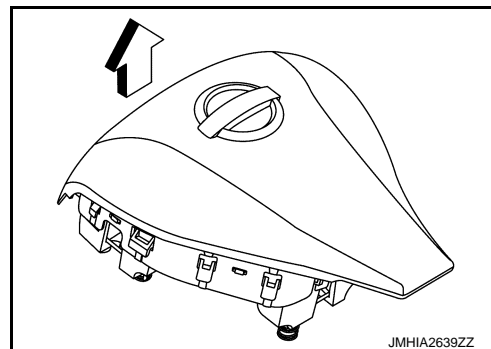


4. Remove driver air bag module.

CAUTION:

- To prevent accidental explosion, always place the driver air bag module with deploying direction facing upward.

⇐ : Deploying direction



- To prevent damage to the driver air bag module, never impact it.
- Replace the driver air bag module if it is dropped or sustains an impact.



- To prevent accidental explosion, never insert any foreign objects (screwdriver, etc.) into the driver air bag module.
- To prevent accidental explosion, never disassemble the driver air bag module.
- To prevent accidental explosion, never expose the driver air bag module to temperatures of more than 90 °C (194 °F).
- To prevent damage to the parts, never allow oil, grease, detergent, or water to come in contact with the driver air bag module.

INSTALLATION

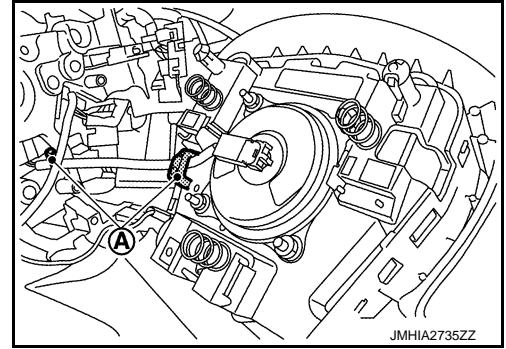
Note the following items, and then install in the reverse order of removal.

CAUTION:

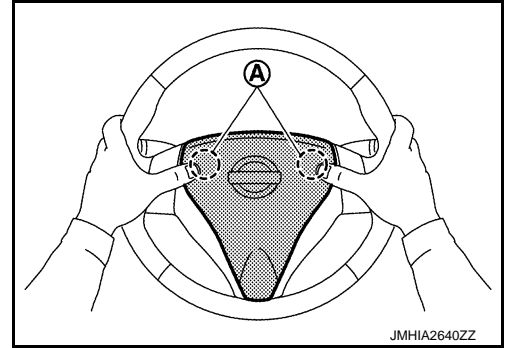
DRIVER AIR BAG MODULE

< REMOVAL AND INSTALLATION >

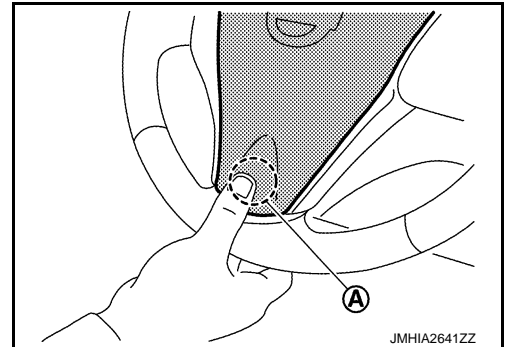
- Fix the driver air bag module harness to the harness fixing hook (A).



- Press driver air bag module upper (A) until it snaps into place with a clicking sound.



- Press driver air bag module lower (A) until it snaps into place with a clicking sound.



- Check that horn does not sound when driver air bag module is not pressed.
- Never damage the harness while installing.
- After installation is complete, perform self-diagnosis using CONSULT or air bag warning lamp, if the system is normal and "PAST" of "Self Diagnostic Result" is indicated, always perform "ERASE" of "Self Diagnostic Result" using CONSULT. Refer to [SRC-28. "Work Flow"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

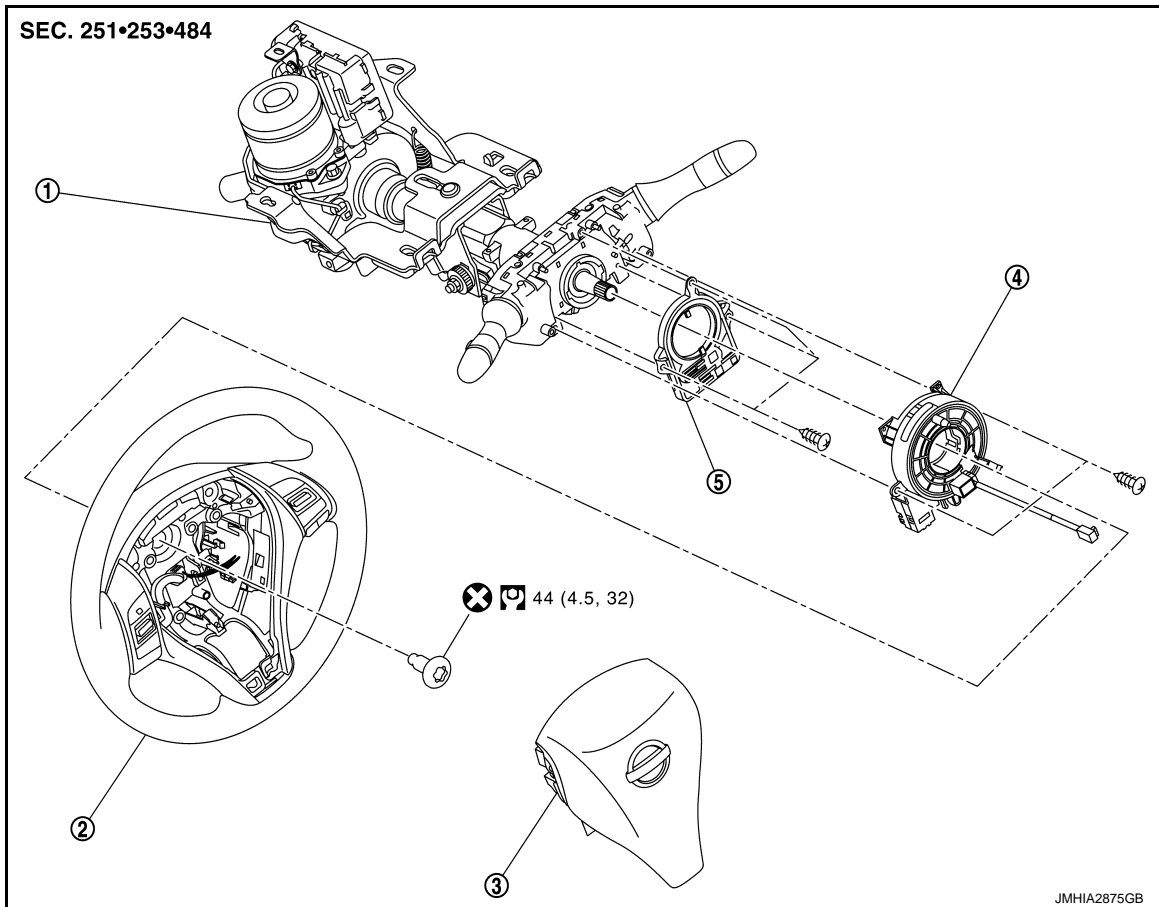
SPIRAL CABLE

< REMOVAL AND INSTALLATION >

SPIRAL CABLE

Exploded View

INFOID:0000000010927726



- ① Steering column assembly ② Steering wheel ③ Driver air bag module
④ Spiral cable ⑤ Steering angle sensor

⊗ : Always replace after every disassembly.

⌚ : N·m (kg-m, ft-lb)

Removal and Installation

INFOID:0000000010927727

WARNING:

Always observe the following items for preventing accidental activation.

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait for 3 minutes or more (discharges electricity held in the additional power supply circuit of the air bag diagnosis sensor unit).

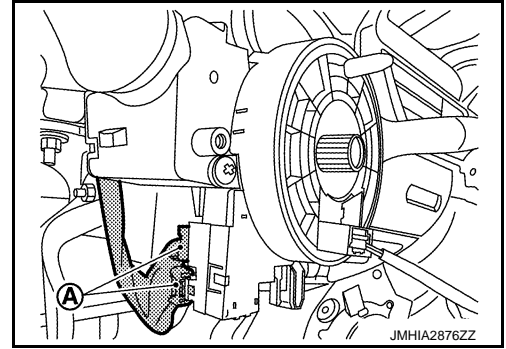
REMOVAL

1. Remove driver air bag module. Refer to [SR-19, "Removal and Installation"](#).
2. Remove steering wheel. Refer to [ST-12, "Removal and Installation"](#).
3. Remove steering column upper cover and steering column lower cover.
 - For australia: Refer to [IP-41, "Removal and Installation"](#).
 - For china: Refer to [IP-14, "Removal and Installation"](#).

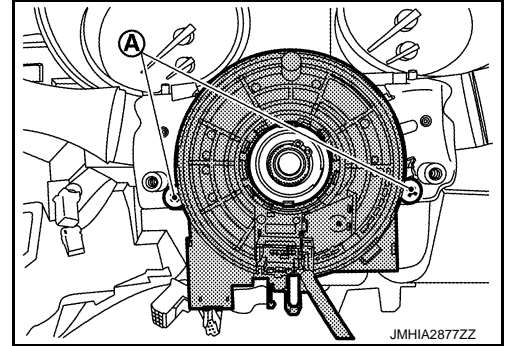
SPIRAL CABLE

< REMOVAL AND INSTALLATION >

4. Disconnect spiral cable body side harness connectors (A).



5. Remove spiral cable fixing screws (A), and then remove spiral cable.



CAUTION:

- To prevent damage to the spiral cable, never impact it.
- Replace the spiral cable if it is dropped or sustains an impact.



- To prevent damage to the parts, never disassemble the spiral cable.
- To prevent damage to the parts, never apply lubricant to the spiral cable.
- To prevent damage to the parts, never allow oil, grease, detergent, or water to come in contact with the spiral cable.

INSTALLATION

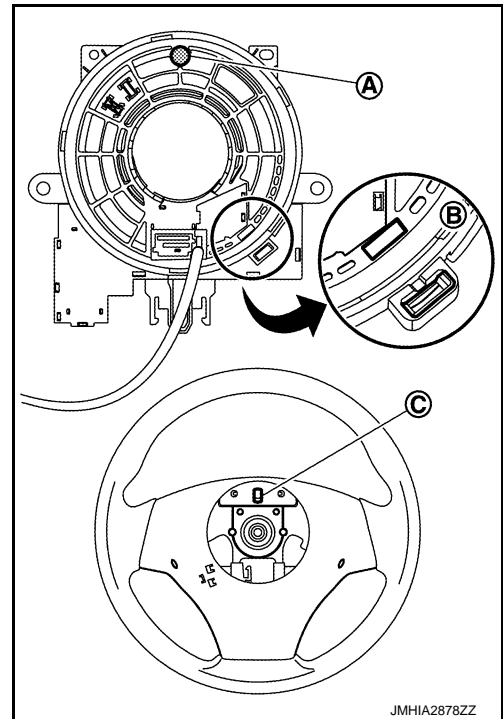
Note the following items, and then install in the reverse order of removal.

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 per the following.
- 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 ② on which the stopper insertion holes are in the same position.
- Never over turn the spiral cable or go beyond the number of turns required. (This causes the cable to snap)
- The service part is installed in the neutral position by the stopper and can be set without adjusting after the stopper is removed.
- Adjust the spiral cable locating pin ① to the steering wheel locating pin hole ③.



- After installation is complete, perform self-diagnosis using CONSULT or air bag warning lamp, if the system is normal and "PAST" of "Self Diagnostic Result" is indicated, always perform "ERASE" of "Self Diagnostic Result" using CONSULT. Refer to [SRC-28, "Work Flow"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

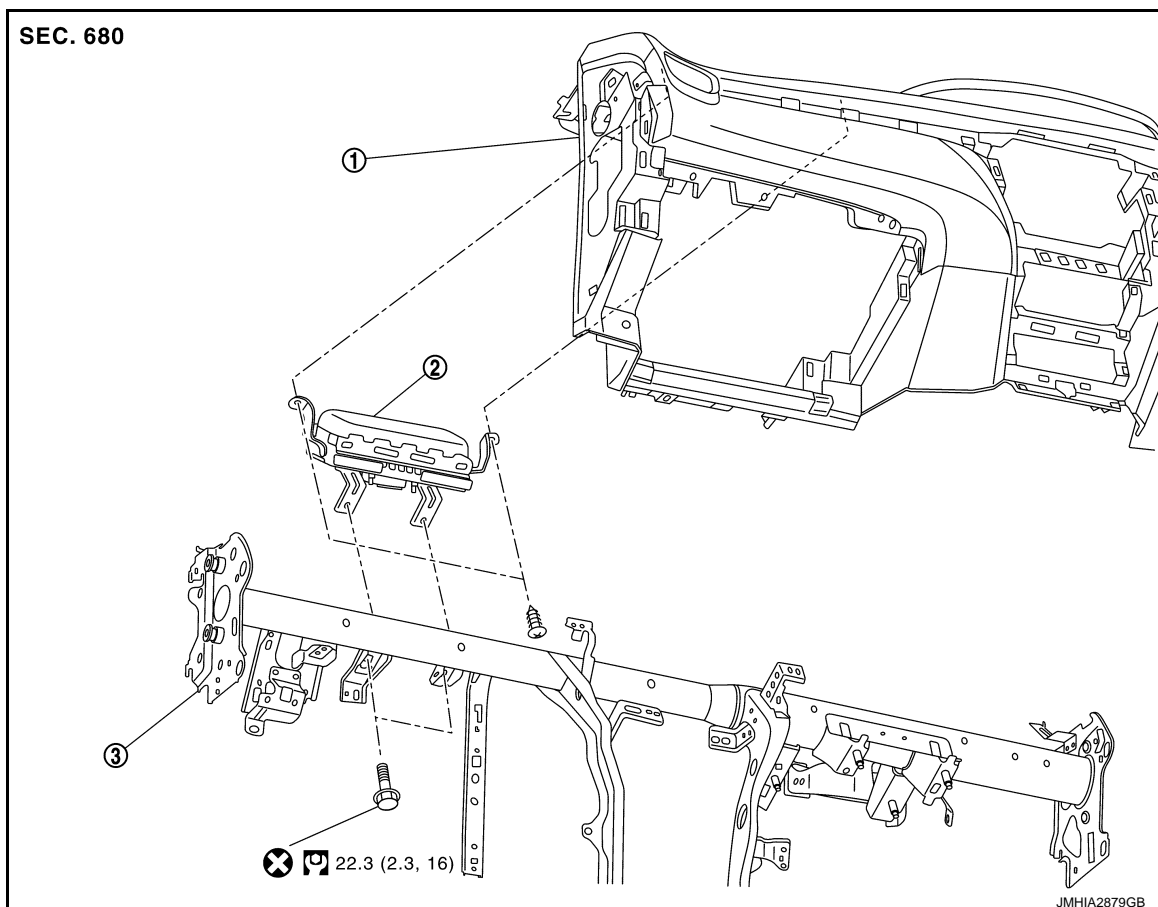
PASSENGER AIR BAG MODULE

< REMOVAL AND INSTALLATION >

PASSENGER AIR BAG MODULE

Exploded View

INFOID:000000010927728



① Instrument panel assembly ② Passenger air bag module ③ Steering member assembly

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg-m, ft-lb)

Removal and Installation

INFOID:000000010927729

WARNING:

Always observe the following items for preventing accidental activation.

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait for 3 minutes or more (discharges electricity held in the additional power supply circuit of the air bag diagnosis sensor unit).
- Always work from the side of air bag module. Never work in front of it.

REMOVAL

1. Remove instrument panel assembly.
 - For australia: Refer to [IP-41, "Removal and Installation"](#).
 - For china: Refer to [IP-14, "Removal and Installation"](#).
2. Remove passenger air bag module assembly mounting screws, and then remove passenger air bag module assembly.

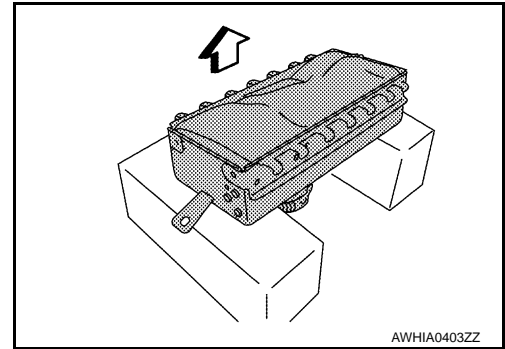
CAUTION:

PASSENGER AIR BAG MODULE

< REMOVAL AND INSTALLATION >

- To prevent accidental explosion, always place the driver air bag module with deploying direction facing upward.

↶ : Deploying direction



- To prevent damage to the parts, never impact the passenger air bag module.
- Replace the passenger air bag module if it is dropped or sustains an impact.



- To prevent accidental explosion, never insert any foreign objects (screwdriver, etc.) into the passenger air bag module.
- To prevent accidental explosion, never disassemble the passenger air bag module.
- To prevent accidental explosion, never expose the passenger air bag module to temperature of more than 90 °C (194 °F).
- To prevent damage to the parts, 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 reuse mounting bolts after removal, replace with new bolts.
- Never damage the harness while installing.
- After installation is complete, perform self-diagnosis using CONSULT or air bag warning lamp, if the system is normal and "PAST" of "Self Diagnostic Result" is indicated, always perform "ERASE" of "Self Diagnostic Result" using CONSULT. Refer to [SRC-28, "Work Flow"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

SIDE AIR BAG MODULE

< REMOVAL AND INSTALLATION >

SIDE AIR BAG MODULE

Exploded View

INFOID:0000000010927730

Refer to [SE-38. "Exploded View"](#).

Removal and Installation

INFOID:0000000010927731

Refer to [SE-41. "SEATBACK : Disassembly and Assembly"](#).

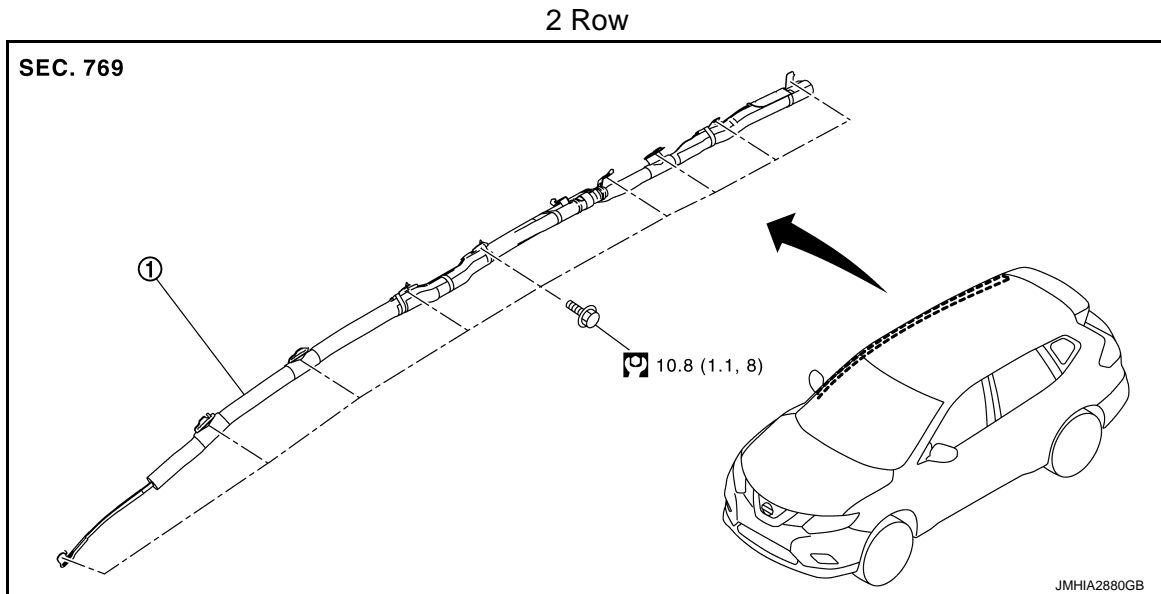
CURTAIN AIR BAG MODULE

< REMOVAL AND INSTALLATION >


CURTAIN AIR BAG MODULE

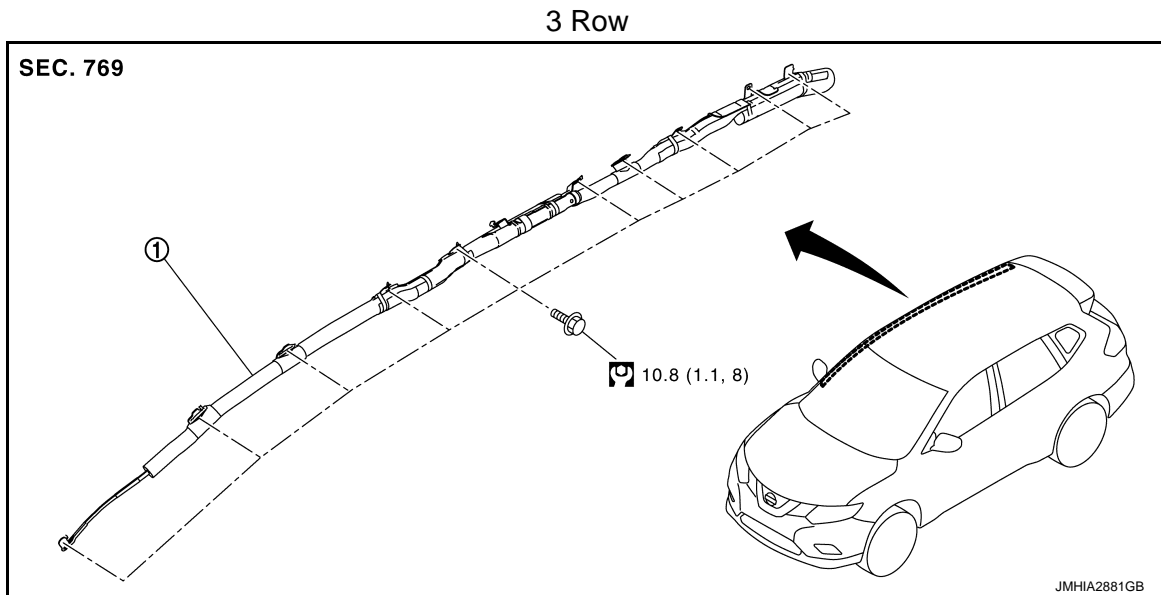
Exploded View

INFOID:0000000010927732




① Curtain air bag module

 : N·m (kg-m, ft-lb)



① Curtain air bag module

 : N·m (kg-m, ft-lb)

Removal and Installation

INFOID:0000000010927733

WARNING:

Always observe the following items for preventing accidental activation.

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait for 3 minutes or more (discharges electricity held in the additional power supply circuit of the air bag diagnosis sensor unit).
- Always work from the side of curtain air bag module. Never work in front of it.

CURTAIN AIR BAG MODULE

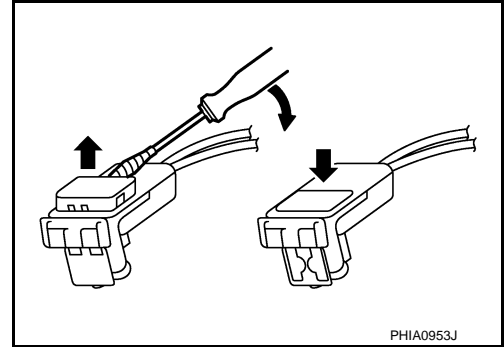
< REMOVAL AND INSTALLATION >

REMOVAL

1. Remove headlining assembly. Refer to [INT-37, "Removal and Installation"](#).
2. Disengage curtain air bag harness connector.

CAUTION:

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



3. Remove curtain air bag module mounting bolts, and then remove curtain air bag module.

CAUTION:

- To prevent damage to the parts, never impact the curtain air bag module.
- Replace the curtain air bag module if it is dropped or sustains an impact.



- To prevent accidental explosion, never insert any foreign objects (screwdriver, etc.) into the curtain air bag module.
- To prevent accidental explosion, never disassemble the curtain air bag module.
- To prevent accidental explosion, never expose the curtain air bag module to temperatures of more than 90°C (194°F).
- To prevent damage to the parts, 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:

- Check perforation of curtain air bag module to check that curtain air bag module is not twisted.
- Never damage the harness while installing.
- After installation is complete, perform self-diagnosis using CONSULT or air bag warning lamp, if the system is normal and "PAST" of "Self Diagnostic Result" is indicated, always perform "ERASE" of "Self Diagnostic Result" using CONSULT. Refer to [SRC-28, "Work Flow"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

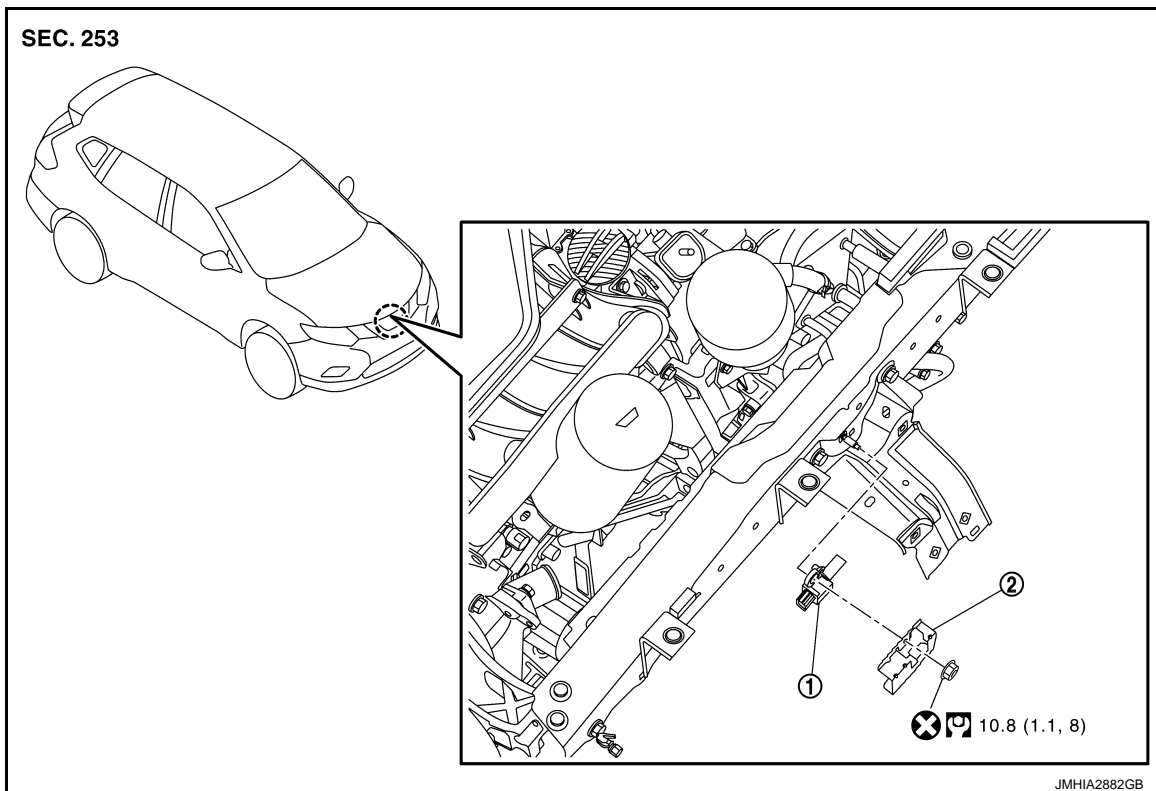
CRASH ZONE SENSOR

< REMOVAL AND INSTALLATION >

CRASH ZONE SENSOR

Exploded View

INFOID:0000000010927734



Removal and Installation

INFOID:0000000010927735

WARNING:

Always observe the following items for preventing accidental activation.

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait for 3 minutes or more (discharges electricity held in the additional power supply circuit of the air bag diagnosis sensor unit).

REMOVAL

1. Remove the crash zone sensor mounting nuts, and then remove bracket.
2. Disconnect the crash zone sensor harness connector, and then remove crash zone sensor.

CAUTION:

- To prevent damage to the parts, never impact the crash zone sensor.
- Replace the crash zone sensor if it is dropped or sustains an impact.



CRASH ZONE SENSOR

< REMOVAL AND INSTALLATION >

- Replace the crash zone sensor of deployed driver air bag module, deployed passenger air bag module, seat belt pre-tensioner and deployed lap pre-tensioner.

INSTALLATION

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

CAUTION:

- Never reuse mounting nut after removal, replace with new nut.
- Always install normally aligning to the cutout hole, because performance of the crash zone sensor excessively fluctuates according to the installation position.
- After installation is complete, perform self-diagnosis using CONSULT or air bag warning lamp, if the system is normal and "PAST" of "Self Diagnostic Result" is indicated, always perform "ERASE" of "Self Diagnostic Result" using CONSULT. Refer to [SRC-28, "Work Flow"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

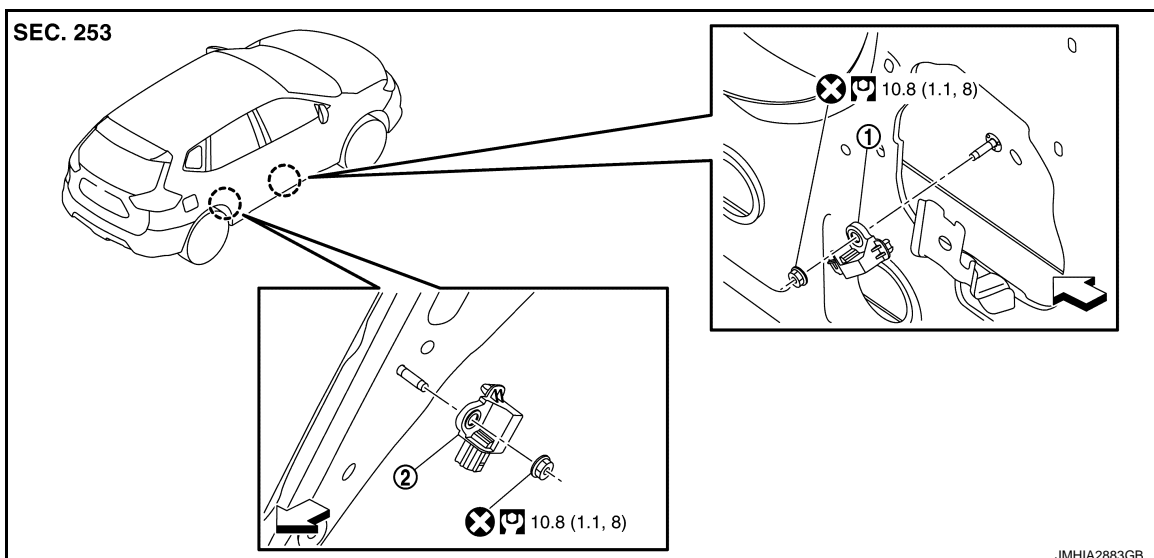
SATELLITE SENSOR

< REMOVAL AND INSTALLATION >

SATELLITE SENSOR

Exploded View

INFOID:0000000010927736



- ① B-pillar satellite sensor ② C-pillar satellite sensor (if equipped)

⇐ : Vehicle front

⊗ : Always replace after every disassembly.

⌚ : N·m (kg-m, ft-lb)

Removal and Installation

INFOID:0000000010927737

WARNING:

Always observe the following items for preventing accidental activation.

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait for 3 minutes or more (discharges electricity held in the additional power supply circuit of the air bag diagnosis sensor unit).

REMOVAL

B-pillar Satellite Sensor

1. Remove center pillar lower garnish. Refer to [INT-27. "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).
2. Remove B-pillar satellite sensor mounting nuts.
3. Pull out B-pillar satellite sensor from the vehicle.

CAUTION:

Never damage the B-pillar satellite sensor harness.

4. Disconnect the B-pillar satellite sensor harness connector, and then remove the B-pillar satellite sensor.

CAUTION:

SATELLITE SENSOR

< REMOVAL AND INSTALLATION >

- To prevent damage to the parts, never impact the satellite sensor.
- Replace the satellite sensor if it is dropped or sustains an impact.



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

C-pillar Satellite Sensor

1. Remove luggage side lower finisher. Refer to [INT-43, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).
2. Remove C-pillar satellite sensor mounting nuts.
3. Disconnect the C-pillar satellite sensor harness connector and then remove the C-pillar satellite sensor.

CAUTION:

- To prevent damage to the parts, never impact the satellite sensor.
- Replace the satellite sensor if it is dropped or sustains an impact.



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

INSTALLATION

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

CAUTION:

- Never reuse mounting nut after removal, replace with the new nut.
- Always install normally aligning to the cutout hole, because performance of the satellite sensor excessively fluctuates according to the installation position.
- After installation is complete, perform self-diagnosis using CONSULT or air bag warning lamp, if the system is normal and "PAST" of "Self Diagnostic Result" is indicated, always perform "ERASE" of "Self Diagnostic Result" using CONSULT. Refer to [SRC-28, "Work Flow"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

AIR BAG CUTOFF SWITCH

< REMOVAL AND INSTALLATION >

AIR BAG CUTOFF SWITCH

Exploded View

INFOID:0000000010927758


Refer to [IP-13, "Exploded View"](#) (LHD models) or [IP-40, "Exploded View"](#) (RHD models).

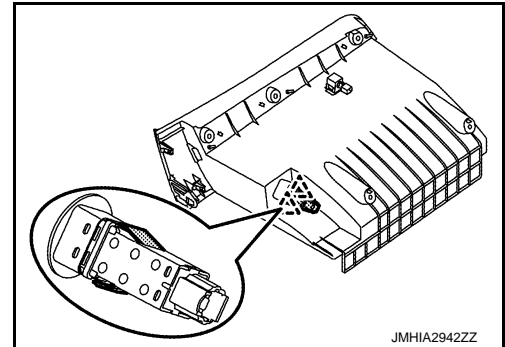
Removal and Installation

INFOID:0000000010927759

REMOVAL

1. Remove glove box assembly. Refer to [IP-14, "Removal and Installation"](#) (LHD models) or [IP-41, "Removal and Installation"](#) (RHD models).
2. Disengage fixing pawls, and then remove air bag cutoff switch.

 : Pawl



INSTALLATION

Install in the reverse order of removal.

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

SEAT BELT PRE-TENSIONER

< REMOVAL AND INSTALLATION >

SEAT BELT PRE-TENSIONER

Exploded View

INFOID:0000000010927738

Refer to [SB-9. "Exploded View"](#).

Removal and Installation

INFOID:0000000010927739

Refer to [SB-10. "SEAT BELT RETRACTOR : Removal and Installation"](#).

LAP PRE-TENSIONER

< REMOVAL AND INSTALLATION >

LAP PRE-TENSIONER

Exploded View

INFOID:0000000010927740

Refer to [SB-9, "Exploded View"](#).

Removal and Installation

INFOID:0000000010927741

Refer to [SB-10, "SEAT BELT RETRACTOR : Removal and Installation"](#).

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

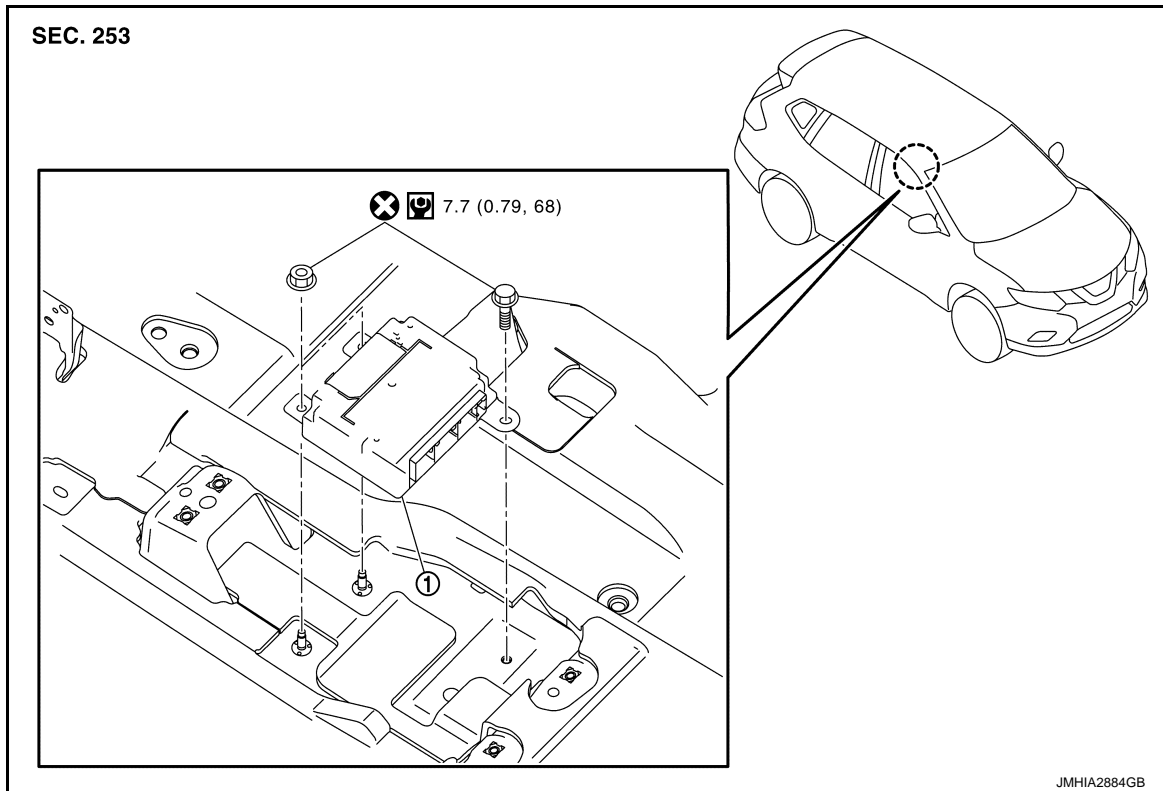
DIAGNOSIS SENSOR UNIT

< REMOVAL AND INSTALLATION >

DIAGNOSIS SENSOR UNIT

Exploded View

INFOID:000000010927742



① Harness clip bracket

⊗ : Always replace after every disassembly.

Ⓒ : N·m (kg-m, ft-lb)

Removal and Installation

INFOID:000000010927743

WARNING:

Always observe the following items for preventing accidental activation.

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait for 3 minutes or more (discharges electricity held in the additional power supply circuit of the air bag diagnosis sensor unit).
- Before disconnecting the air bag sensor unit harness connector, be sure to disconnect each harness connector of the air bag modules, seat belt pre-tensioners and lap pre-tensioner to prevent air bag deployment by static electricity and seat belt pre-tensioner operation.
- Never use air tools or electric tools for servicing (prevents the air bag diagnosis sensor unit from activating unexpectedly due to vibration).

REMOVAL

NOTE:

Before replacing air bag diagnosis sensor unit, perform "Before Replace ECU" of "Read / Write Configuration" to save or print current vehicle specification. Refer to [SRC-31, "Description"](#).

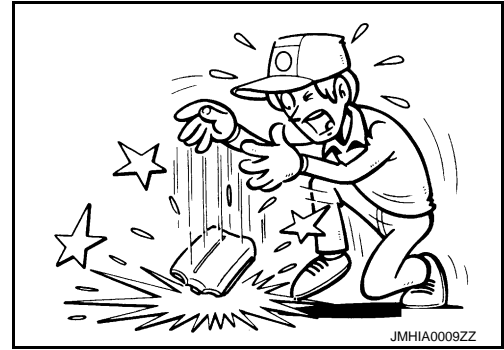
1. Disconnect the connector of all air bag modules, seat belt pre-tensioners and lap pre-tensioner.
2. Remove center console assembly.
 - LHD models: Refer to [IP-25, "Removal and Installation"](#).
 - RHD models: Refer to [IP-52, "Removal and Installation"](#).
3. Disconnect air bag diagnosis sensor unit harness connectors.
4. Remove air bag diagnosis sensor unit mounting bolt, nuts, and then remove air bag diagnosis sensor unit.

DIAGNOSIS SENSOR UNIT

< REMOVAL AND INSTALLATION >

CAUTION:

- To prevent damage to the air bag diagnosis sensor unit, never impact it
- Replace the diagnosis sensor unit if it is dropped or sustains 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, deployed seat belt pre-tensioner or deployed lap pre-tensioner.

INSTALLATION

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

CAUTION:

- Never reuse mounting bolts after removal, replace with new bolts.
- Never damage the harness while installing.
- Be sure to perform "After Replace ECU" of "Read / Write Configuration" or "Manual Configuration" when replacing air bag diagnosis sensor unit. Refer to [SRC-31, "Description"](#).
- After installation is complete, perform self-diagnosis using CONSULT or air bag warning lamp, if the system is normal and "PAST" of "Self Diagnostic Result" is indicated, always perform "ERASE" of "Self Diagnostic Result" using CONSULT. Refer to [SRC-28, "Work Flow"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

DISPOSAL OF AIR BAG MODULE

< REMOVAL AND INSTALLATION >

DISPOSAL OF AIR BAG MODULE

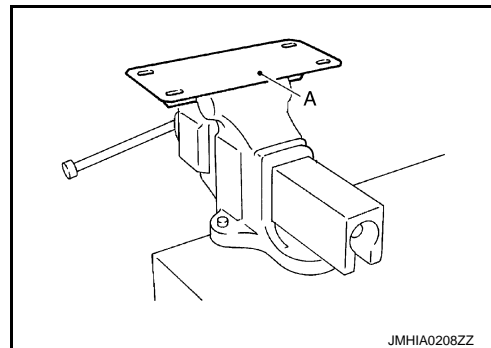
DRIVER AIR BAG MODULE

DRIVER AIR BAG MODULE : Deployment

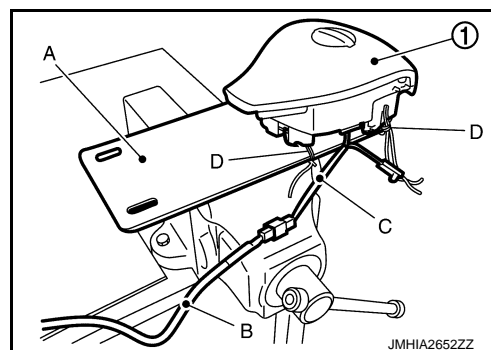
INFOID:0000000010927744

DEPLOYMENT OF DRIVER AIR BAG MODULE (OUTSIDE OF VEHICLE)

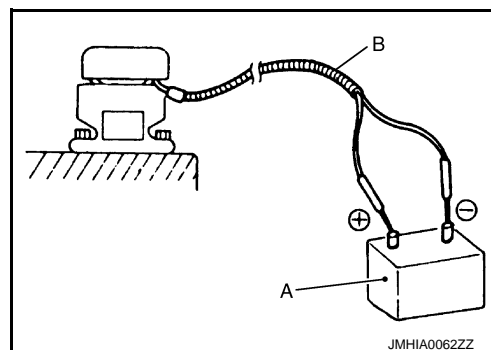
1. Unless the vehicle is being scrapped, deploying the air bag in the vehicle is not recommended. This may cause damage to the vehicle interior.
Anchor air bag module bracket (SST: KV99105300) (A) in a vice secured to a firm foundation deployment.



2. Using wire (D), secure driver air bag module ① to air bag module bracket (SST: KV99105300) (A) at two places.
CAUTION:
Use wire of at least 1.0 mm (0.039 in) diameter.
3. Firmly secure air bag module bracket (SST: KV99105300) with driver air bag module attached, in a vise.
4. Connect deployment tool adapter (SST: KV99110500) (C) to driver air bag module and deployment tool (SST: KV99104600) (B).



5. Connect the test pin at the tip of deployment tool (SST: KV99104600) (B) to both terminals of 12V battery (A), and then the air bag module deploys.
CAUTION:
When deploying the driver air bag module, stand at least 5.0 m (16.4 ft) away from the air bag module.



DRIVER AIR BAG MODULE : Disposal

INFOID:0000000010927745

DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

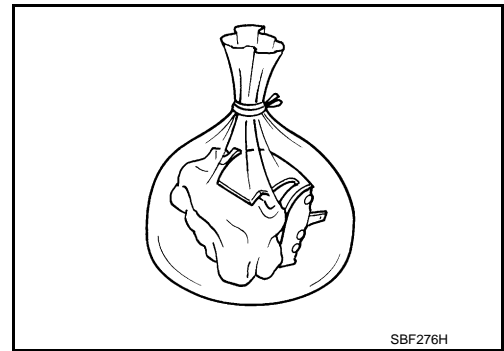
Deployed air bag module, seat belt pre-tensioner, and lap pre-tensioner are very hot. Before disposing of air bag module and seat belt pre-tensioner, wait at least 30 minutes, and 10 minutes, respectively. Seal them in a plastic bag before disposal.

CAUTION:

DISPOSAL OF AIR BAG MODULE

< REMOVAL AND INSTALLATION >

- Never apply water to a deployed air bag module or seat belt pre-tensioner or lap pre-tensioner.
- Wear gloves when handling a deployed air bag module or seat belt pre-tensioner or lap pre-tensioner.
- No poisonous gas is produced upon air bag module deployment. However, be careful not to inhale gas since it irritates the throat and can cause choking.
- Never disassemble air bag module, seat belt pre-tensioner and lap pre-tensioner.
- Air bag module, seat belt pre-tensioner and lap pre-tensioner cannot be reused.
- Wash your hands clean after the work is complete.



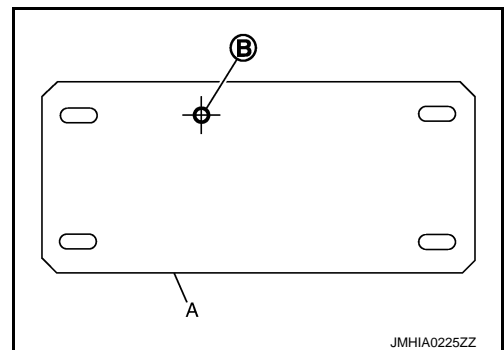
PASSENGER AIR BAG MODULE

PASSENGER AIR BAG MODULE : Deployment

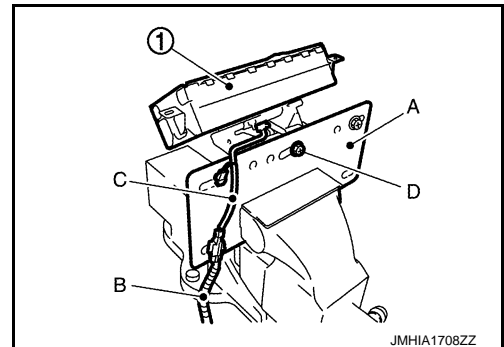
INFOID:000000010927746

DEPLOYMENT OF PASSENGER AIR BAG MODULE (OUTSIDE OF VEHICLE)

1. Make 8.5 mm (0.335 in) diameter hole ② in air bag module bracket (SST: KV99105300) (A) at the position shown in figure.



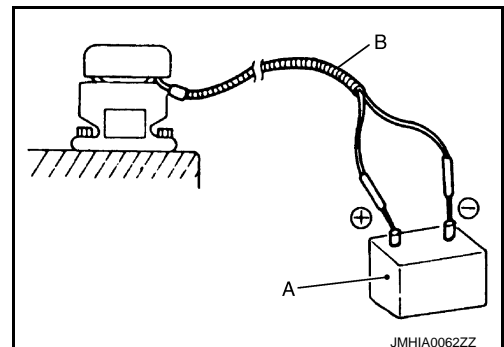
2. Firmly secure air bag module bracket (SST: KV99105300) (A) in a vise.
3. Insert bolt (D) through air bag module bracket and passenger air bag module ① lower side holes, and fix then with nut.
4. Connect deployment tool (SST: KV99104600) (B) and deployment tool adapter (SST: KV99110500) (C) to passenger air bag module.



5. Connect the test pin at the tip of deployment tool (SST: KV99104600) (B) to both terminals of 12V battery (A), and then the air bag module deploys.

CAUTION:

- When deploying the passenger air bag module, never stand on the deploying side.
- Stand at least 5.0 m (16.4 ft) away from the passenger air bag module.



PASSENGER AIR BAG MODULE : Disposal

INFOID:000000010927747

DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

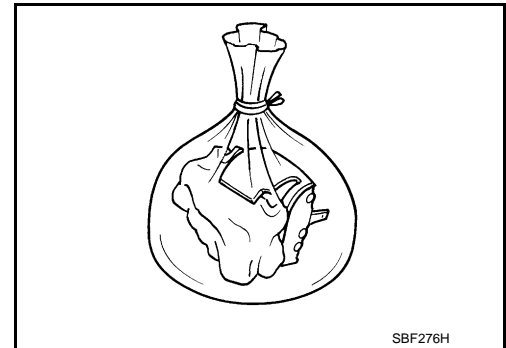
DISPOSAL OF AIR BAG MODULE

< REMOVAL AND INSTALLATION >

Deployed air bag module, seat belt pre-tensioner, and lap pre-tensioner are very hot. Before disposing of air bag module and seat belt pre-tensioner, wait at least 30 minutes, and 10 minutes, respectively. Seal them in a plastic bag before disposal.

CAUTION:

- Never apply water to a deployed air bag module or seat belt pre-tensioner or lap pre-tensioner.
- Wear gloves when handling a deployed air bag module or seat belt pre-tensioner or lap pre-tensioner.
- No poisonous gas is produced upon air bag module deployment. However, be careful not to inhale gas since it irritates the throat and can cause choking.
- Never disassemble air bag module, seat belt pre-tensioner and lap pre-tensioner.
- Air bag module, seat belt pre-tensioner and lap pre-tensioner cannot be reused.
- Wash your hands clean after the work is complete.



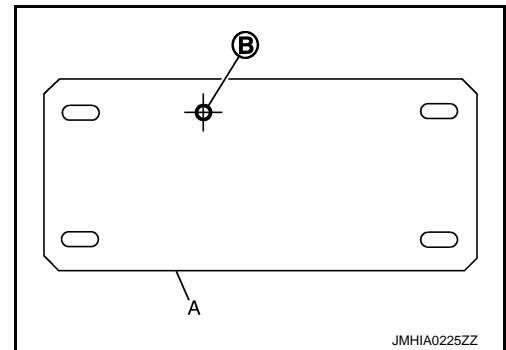
SIDE AIR BAG MODULE

SIDE AIR BAG MODULE : Deployment

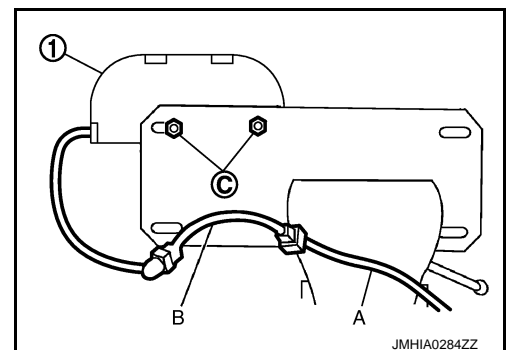
INFOID:0000000010927748

DEPLOYMENT OF SIDE AIR BAG MODULE (OUTSIDE OF VEHICLE)

1. Make 6.5 mm (0.256 in) diameter hole ② in air bag module bracket (SST: KV99105300) (A) at the position shown in figure.



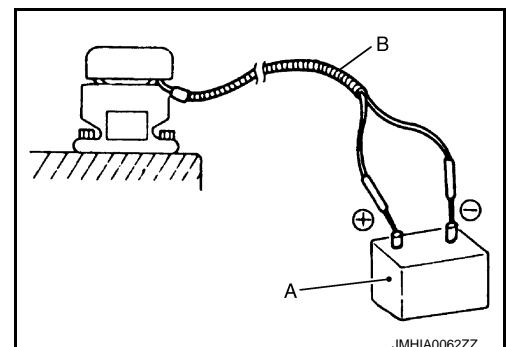
2. Firmly secure air bag module bracket (SST: KV99105300) in a vise.
3. Insert two bolts through air bag module bracket and side air bag module ① upper side holes, and fix them with two nuts ③.
4. Connect deployment tool (SST: KV99104600) (A) and deployment tool adapter (SST: KV99108300) (B) to side air bag module connector.



5. Connect the test pin at the tip of deployment tool (SST: KV99104600) (B) to both terminals of 12V battery (A), and then the air bag module deploys.

CAUTION:

When deploying the side air bag module, stand at least 5.0 m (16.4 ft) away from the side air bag module.



DISPOSAL OF AIR BAG MODULE

< REMOVAL AND INSTALLATION >

SIDE AIR BAG MODULE : Disposal

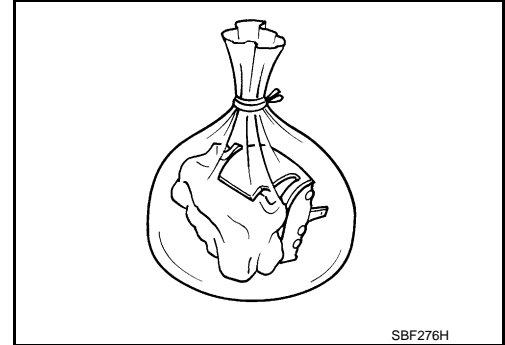
INFOID:0000000010927749

DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Deployed air bag module, seat belt pre-tensioner, and lap pre-tensioner are very hot. Before disposing of air bag module and seat belt pre-tensioner, wait at least 30 minutes, and 10 minutes, respectively. Seal them in a plastic bag before disposal.

CAUTION:

- Never apply water to a deployed air bag module or seat belt pre-tensioner or lap pre-tensioner.
- Wear gloves when handling a deployed air bag module or seat belt pre-tensioner or lap pre-tensioner.
- No poisonous gas is produced upon air bag module deployment. However, be careful not to inhale gas since it irritates the throat and can cause choking.
- Never disassemble air bag module, seat belt pre-tensioner and lap pre-tensioner.
- Air bag module, seat belt pre-tensioner and lap pre-tensioner cannot be reused.
- Wash your hands clean after the work is complete.



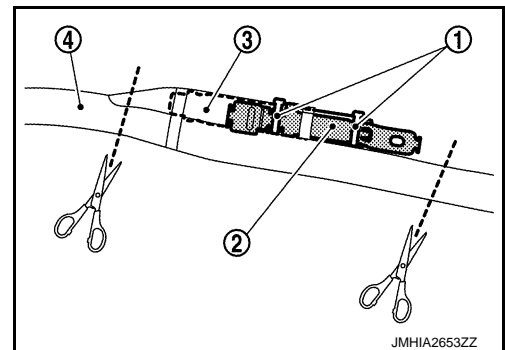
CURTAIN AIR BAG MODULE

CURTAIN AIR BAG MODULE : Deployment

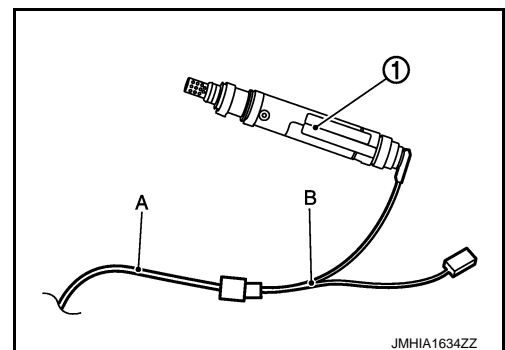
INFOID:0000000010927750

DEPLOYMENT OF CURTAIN AIR BAG MODULE (OUTSIDE OF VEHICLE)

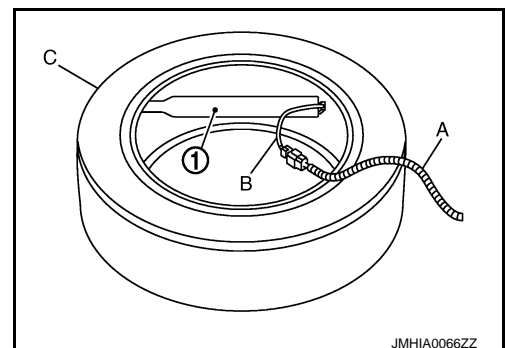
1. Remove rings ①, and then remove bracket ②.
2. Cut the inflator ③ from curtain air bag module ④.



3. Connect deployment tool (SST: KV99104600) (A) and deployment tool adapter (SST: KV99110500) (B) to the inflator ①.



4. Put the inflator ① connected with the deployment tool (A) (SST: KV99104600) and deployment tool adapter (B) (SST: KV99110500) into a tire without a wheel (C).



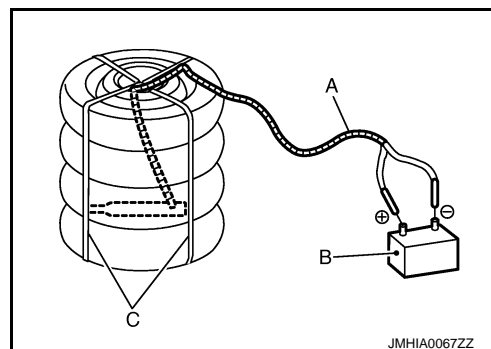
DISPOSAL OF AIR BAG MODULE

< REMOVAL AND INSTALLATION >

- Put the tire with the inflator onto another tire without a wheel. Add an additional tire without a wheel and then a tire mounted on a wheel on top, and then tie all tires together with a strap (C) in order keep them standing.
- Connect the test pin at the tip of deployment tool (SST: KV99104600) (A) to both terminals of 12V battery (B), and then the air bag module deploys.

CAUTION:

When deploying the curtain air bag module, stand at least 5.0 m (16.4 ft) away from the curtain air bag module.



CURTAIN AIR BAG MODULE : Disposal

INFOID:0000000010927751

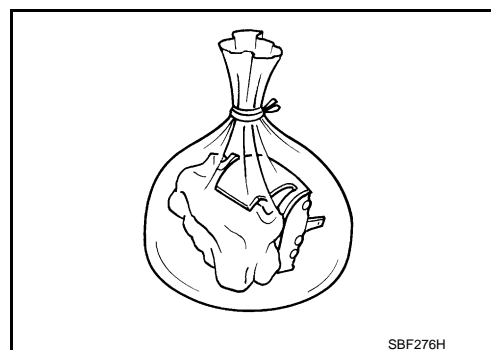
DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Deployed air bag module, seat belt pre-tensioner, and lap pre-tensioner are very hot. Before disposing of air bag module and seat belt pre-tensioner, wait at least 30 minutes, and 10 minutes, respectively. Seal them in a plastic bag before disposal.

CAUTION:

- Never apply water to a deployed air bag module or seat belt pre-tensioner or lap pre-tensioner.
- Wear gloves when handling a deployed air bag module or seat belt pre-tensioner or lap pre-tensioner.
- No poisonous gas is produced upon air bag module deployment. However, be careful not to inhale gas since it irritates the throat and can cause choking.
- Never disassemble air bag module, seat belt pre-tensioner and lap pre-tensioner.
- Air bag module, seat belt pre-tensioner and lap pre-tensioner cannot be reused.
- Wash your hands clean after the work is complete.

SEAT BELT PRE-TENSIONER

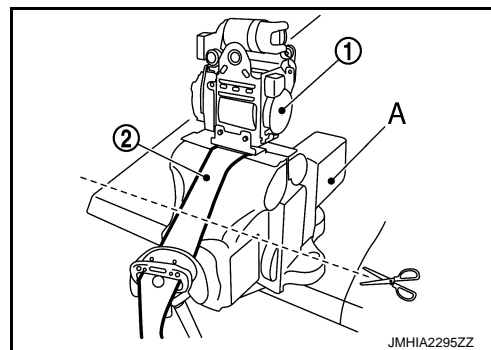


SEAT BELT PRE-TENSIONER : Deployment

INFOID:0000000010927752

DEPLOYMENT OF SEAT BELT PRE-TENSIONER (OUTSIDE OF VEHICLE)

- Firmly grip seat belt pre-tensioner ① in a vise (A) and cut off the webbing ②.



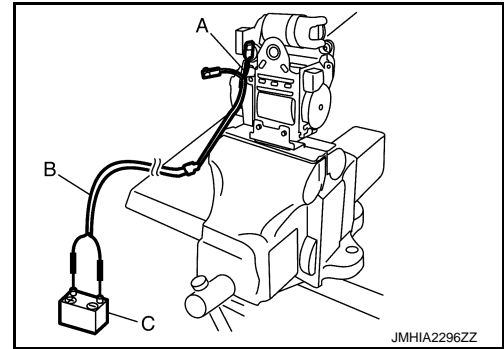
DISPOSAL OF AIR BAG MODULE

< REMOVAL AND INSTALLATION >

2. Connect deployment tool (SST: KV99104600) (B) and deployment tool adapter (SST: KV99110500) (A) yellow connector to seat belt pre-tensioner.
3. Connect the test pin at the tip of deployment tool (SST: KV99104600) (B) to both terminals of 12V battery (C), and then the seat belt pre-tensioner.

CAUTION:

When deploying the seat belt pre-tensioner, stand at least 5.0 m(16.4 ft) away from the seat belt pre-tensioner.



SEAT BELT PRE-TENSIONER : Disposal

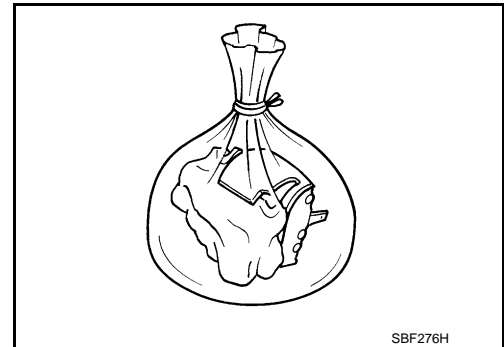
INFOID:0000000010927753

DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Deployed air bag module, seat belt pre-tensioner, and lap pre-tensioner are very hot. Before disposing of air bag module and seat belt pre-tensioner, wait at least 30 minutes, and 10 minutes, respectively. Seal them in a plastic bag before disposal.

CAUTION:

- Never apply water to a deployed air bag module or seat belt pre-tensioner or lap pre-tensioner.
- Wear gloves when handling a deployed air bag module or seat belt pre-tensioner or lap pre-tensioner.
- No poisonous gas is produced upon air bag module deployment. However, be careful not to inhale gas since it irritates the throat and can cause choking.
- Never disassemble air bag module, seat belt pre-tensioner and lap pre-tensioner.
- Air bag module, seat belt pre-tensioner and lap pre-tensioner cannot be reused.
- Wash your hands clean after the work is complete.



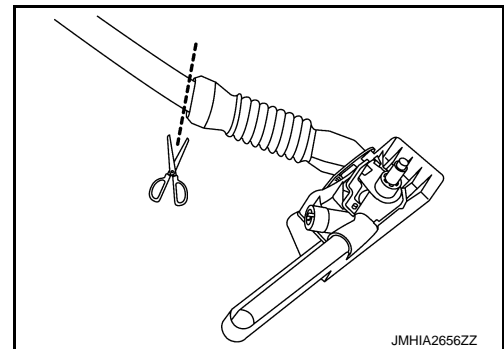
LAP PRE-TENSIONER

LAP PRE-TENSIONER : Deployment

INFOID:0000000010927754

DEPLOYMENT OF LAP PRE-TENSIONER (OUTSIDE OF VEHICLE)

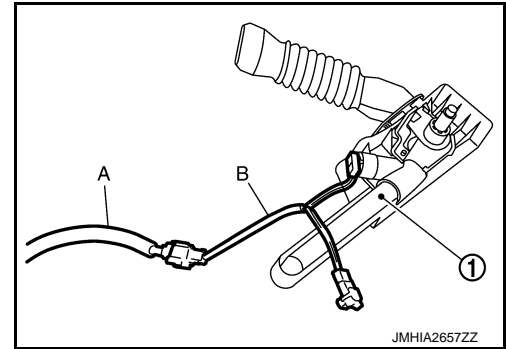
1. Cut off the webbing.



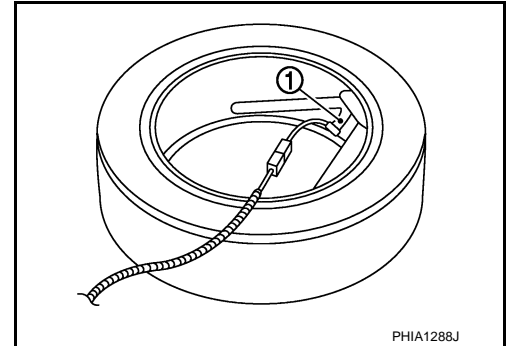
DISPOSAL OF AIR BAG MODULE

< REMOVAL AND INSTALLATION >

2. Connect deployment tool (SST: KV99104600) (A) and deployment tool adapter (SST: KV99110500) (B) orange connector to lap pre-tensioner ①.



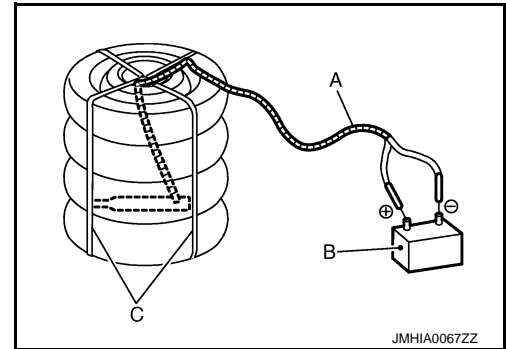
3. Put the lap pre-tensioner ① connected with the deployment tool into a tire without a wheel.



4. Put the tire with the lap pre-tensioner onto another tire without a wheel. Add an additional tire without a wheel and then a tire mounted on a wheel on top, and then tie all tires together with a strap (C) in order keep them standing.
5. Connect the test pin at the tip of deployment tool (SST: KV99104600) (A) to both terminals of 12V battery (B), and then the lap pre-tensioner deploys.

CAUTION:

When deploying the lap pre-tensioner, stand at least 5.0 m (16.4 ft) away from the lap pre-tensioner.



LAP PRE-TENSIONER : Disposal

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DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Deployed air bag module, seat belt pre-tensioner, and lap pre-tensioner are very hot. Before disposing of air bag module and seat belt pre-tensioner, wait at least 30 minutes, and 10 minutes, respectively. Seal them in a plastic bag before disposal.

CAUTION:

- Never apply water to a deployed air bag module or seat belt pre-tensioner or lap pre-tensioner.
- Wear gloves when handling a deployed air bag module or seat belt pre-tensioner or lap pre-tensioner.
- No poisonous gas is produced upon air bag module deployment. However, be careful not to inhale gas since it irritates the throat and can cause choking.
- Never disassemble air bag module, seat belt pre-tensioner and lap pre-tensioner.
- Air bag module, seat belt pre-tensioner and lap pre-tensioner cannot be reused.
- Wash your hands clean after the work is complete.

