SECTION SR
SRS AIRBAG

CONTENTS

PRECAUTION 3

PRECAUTIONS 3
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" 3
Precautions for Removing Battery Terminal 3
Precaution for Disposal 4
Service 4

PREPARATION 6

PREPARATION 6
Special Service Tool 6

SYSTEM DESCRIPTION 7

COMPONENT PARTS 7

AIR BAG MODULE 7
AIR BAG MODULE : Driver air bag module 7
AIR BAG MODULE : Passenger air bag module 7
AIR BAG MODULE : Side air bag module 7
AIR BAG MODULE : Knee air bag module 7
AIR BAG MODULE : Curtain air bag module 8

INFLATOR 9
INFLATOR : Driver air bag inflator 9
INFLATOR : Passenger air bag inflator 9
INFLATOR : Side air bag inflator 10
INFLATOR : Knee air bag inflator 10
INFLATOR : Curtain air bag inflator 10

MAIN COMPONENT PARTS AND FUNCTIONS 10
MAIN COMPONENT PARTS AND FUNCTIONS : Crash zone sensor 11
MAIN COMPONENT PARTS AND FUNCTIONS : Satellite sensor 11
MAIN COMPONENT PARTS AND FUNCTIONS : Air bag diagnosis sensor unit 12
MAIN COMPONENT PARTS AND FUNCTIONS : Air bag warning lamp 12
MAIN COMPONENT PARTS AND FUNCTIONS : Pyrofuse 12

BASIC INSPECTION 13

COLLISION DIAGNOSIS 13
For Frontal Collision 13
For Side and Rollover Collision 15

REMOVAL AND INSTALLATION 20

DRIVER AIR BAG MODULE 20
Exploded View 20
Removal and Installation 20

PASSENGER AIR BAG MODULE 24
Exploded View 24
Removal and Installation 24

KNEE AIR BAG MODULE 26
Exploded View 26
Removal and Installation 27

CURTAIN AIR BAG MODULE 31
Exploded View 31
Removal and Installation 31

CRASH ZONE SENSOR 34
Exploded View 34
Removal and Installation 34

SATELLITE SENSOR 36
Exploded View 36
Removal and Installation 36

SEAT BELT PRE-TENSIONER 39
Exploded View 39
Removal and Installation 39

LAP PRE-TENSIONER 40
Exploded View 40
Removal and Installation 40

DIAGNOSIS SENSOR UNIT 41
Exploded View 41
Removal and Installation 41
PYROFUSE 43
Exploded View 43
Removal and Installation 43

PRECAUTION

PRECAUTIONS

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

INFOID:0000000013548952

Risk of injury

There is a risk of injury caused by parts becoming projectiles if uncontrolled deployment of air bag or seat belt pre-tensioner occurs, or by storing air bag with the deployment side facing downwards. When scrapping air bag or seat belt pre-tensioner by means of controlled deployment, there is also a danger present if a sufficiently safe distance is not maintained, or if opening using cutting torches or other cutting tools, or due to smelting or if parts that are not yet triggered are exposed to a blaze or a smoldering fire at landfills.

Safety instructions/precautions

- Removed air bag must always be stored with deployment side facing up.
- Acquisition, transportation, storage, testing and assembly work should only be performed or supervised by properly trained personnel.
- Install air bag or seat belt pre-tensioner immediately following retrieval from storage.
- Air bag and seat belt pre-tensioner must be protected from flying sparks, open fires and temperature exceeding 100°C (212°F).
- Never transport air bag and seat belt pre-tensioner in the passenger compartment. Store them securely in the luggage room of the vehicle in their original replacement part packaging and secure them so that they cannot slip around.
- Never allow air bag and seat belt pre-tensioner to come into contact with grease, oil, or cleaning agents.
- Perform system tests using approved testing equipment only, and only when the units are properly installed and the vehicle is unoccupied.
- Before the initial hookup of the battery or an external power supply, the ignition must be switched on and the vehicle unoccupied.
- Air bag and seat belt pre-tensioner that fall from a height of more than 0.5 m must be replaced.
- When scrapping by means of controlled deployment of air bag and seat belt pre-tensioner, a safe distance of at least 10 m must be maintained.
- Before starting work on air bag and seat belt pre-tensioner and work on components that are connected to air bag and seat belt pre-tensioner or require and intervention in their electric circuit (e.g. when removing the steering wheel):
- Disconnect any external power sources (e.g. charger).
- Disconnect and insulate ground line of battery
- Before starting bodywork in combination with welding or retrofitting, during which work is performed on uninsulated, current-carrying lines or require an intervention in their electric circuit (e.g. when removing the steering wheel):
- Disconnect any external power sources (e.g. charger).
- Disconnect and insulate ground line of battery.
- During welding, disconnect plug connection and from control unit of air bag.
- When the air bag deploys, the pyrofuse activates and the power source from the battery is disconnected. This prevents possible fires caused by electric leakage after an accident occurs.

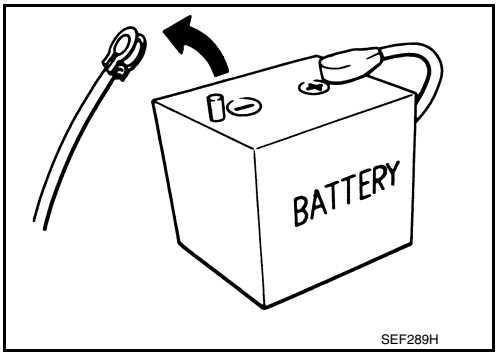
Precautions for Removing Battery Terminal

INFOID:0000000013548953

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:



SEF289H

BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		

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

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:
- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.

- 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.

Precaution for Disposal

INFOID:0000000013548954

- Before disposing of air bag module 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 and Seat Belt Pre-tensioner.
- When deploying the air bag module and seat belt pre-tensioner, always use the Special Service Tool; Deployment tool (SST: KV99104600).
- When deploying the air bag module and seat belt pre-tensioner, stand at least 5.0 m (16.4 ft.) away from the deployment component.
- When deploying air bag module 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 seat belt pre-tensioner unattended for more than 10 minutes after deployment.
- Wear gloves when handling a deployed air bag module and seat belt pre-tensioner.
- Never apply water to the deployed air bag module 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 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 and seat belt pre-tensioner that does not deploy.

Service

INFOID:0000000013548955

- 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.

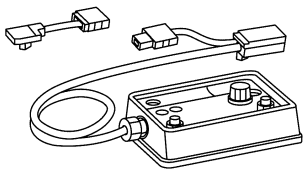
- Diagnosis sensor unit must always be installed with their arrow marks "⇐" pointing towards the front of the vehicle for proper operation. Also check diagnosis sensor unit for cracks, deformities or rust before installation and replace as required.
- The spiral cable must be aligned in the neutral position 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

Special Service Tool

INFOID:0000000013548956

Tool number Tool name		Description
KV995H0300 (DAIMLER tool No.126 589 00 90 00) Ignition cable	 JMHIA3414ZZ	Disposes of air bag module, seat belt pre-tensioner, and lap pre-tensioner

SYSTEM DESCRIPTION

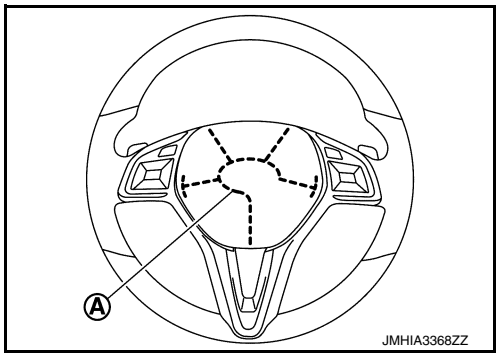
COMPONENT PARTS

AIR BAG MODULE

AIR BAG MODULE : Driver air bag module

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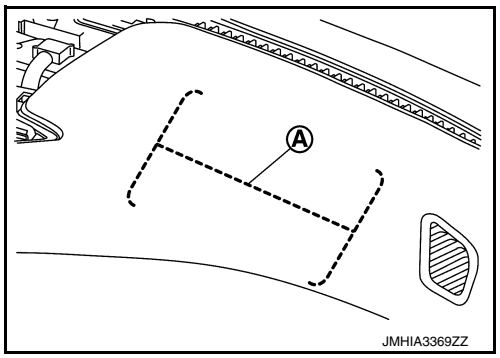
- Driver air bag module is built into steering wheel.
- Driver air bag inflates by breaking steering wheel center pad surface Ⓐ.



AIR BAG MODULE : Passenger air bag module

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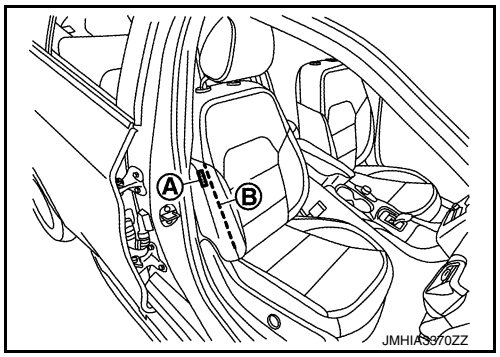
- Passenger air bag module is built into instrument panel.
- Passenger air bag inflates by breaking instrument panel surface Ⓐ.



AIR BAG MODULE : Side air bag module

INFOID:0000000013548959

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



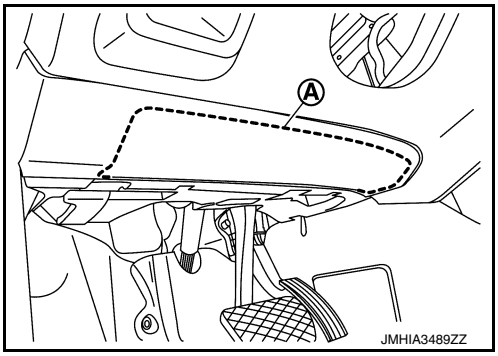
AIR BAG MODULE : Knee air bag module

INFOID:0000000013548960

DRIVER SIDE

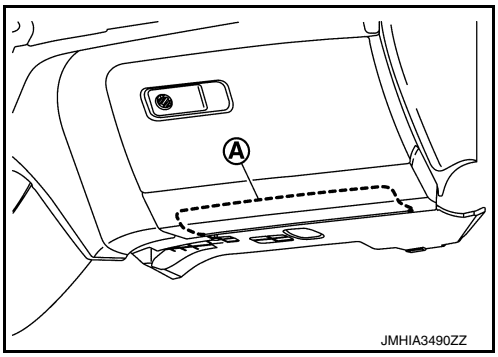
- Knee air bag module is fixed to steering member metal brackets.

• Knee air bag inflates by breaking its own plastic cover Ⓐ.



PASSENGER SIDE

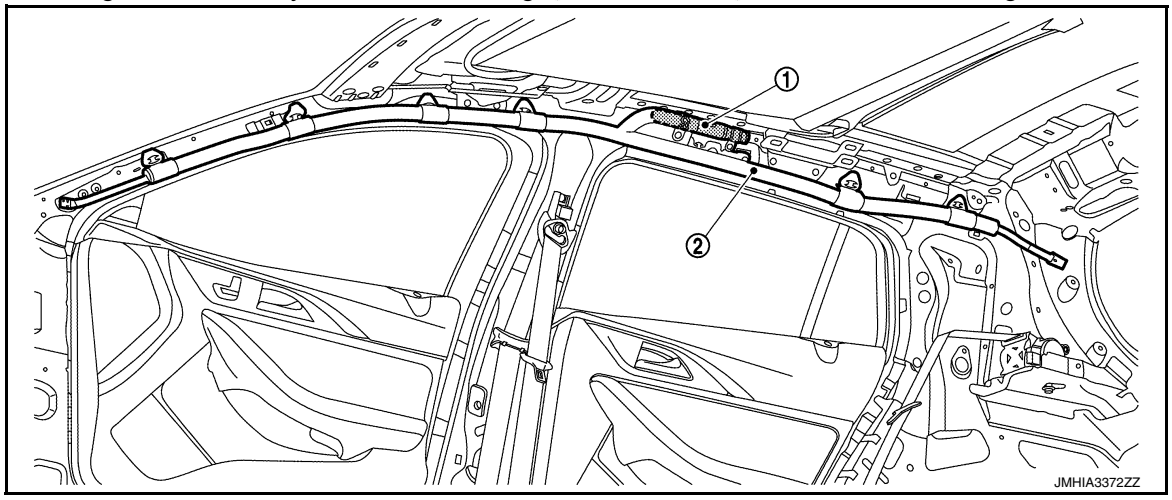
• Knee air bag module is built/fixed to glove box.
• Knee air bag inflates by breaking its own plastic cover Ⓐ.



AIR BAG MODULE : Curtain air bag module

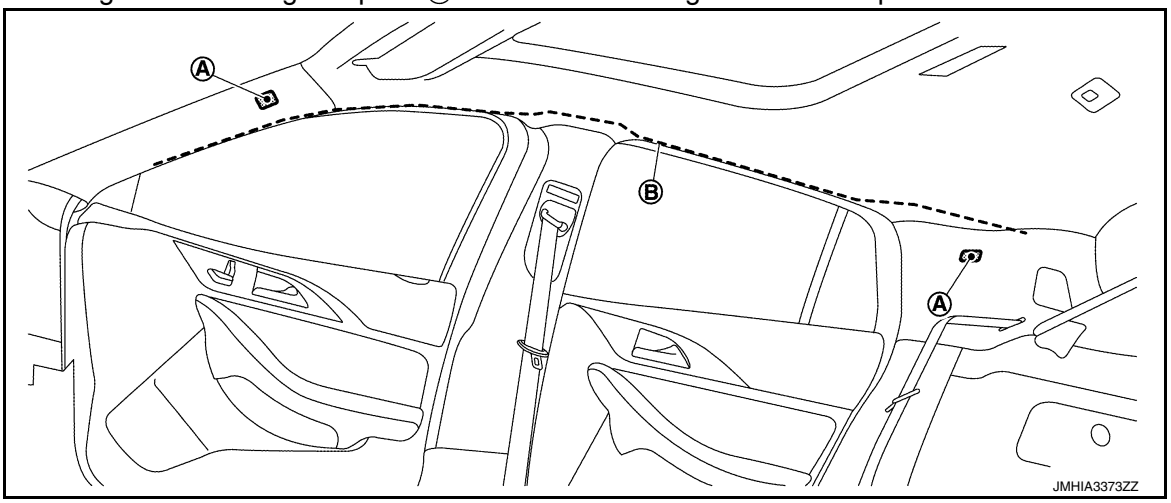
INFOID:0000000013548961

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



• Identification mark Ⓐ is installed to back pillar upper garnish upper indicating that SRS curtain air bag is equipped.

- Curtain air bag inflates through a space Ⓑ between headlining and roof side portion.

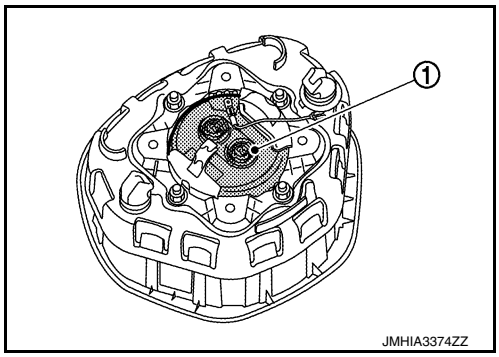


INFLATOR

INFLATOR : Driver air bag inflator

INFOID:0000000013548962

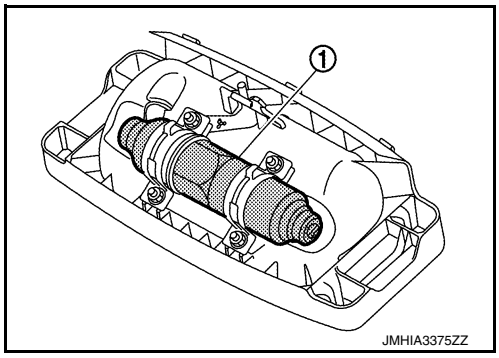
- Driver air bag inflator ① mainly consists of electric ignition device (squib), igniting agent, gas generating agent and filter. These items are stored in a container.
- In a frontal collision which exceeds the specified limit of the vehicle, electric ignition device (squib) ignites igniting agent. 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:0000000013548963

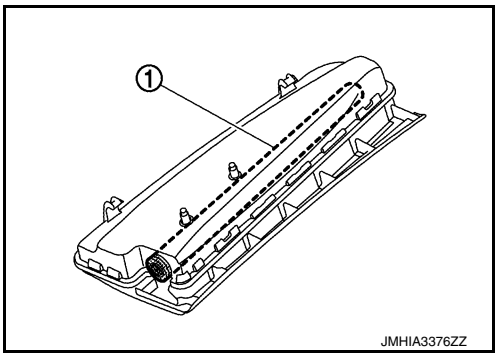
- Passenger air bag inflator ① mainly consists of electric ignition device (squib), igniting agent, gas generating agent and filter. These items are stored in a container.
- In a frontal collision which exceeds the specified limit of the vehicle, electric ignition device (squib) ignites igniting agent. 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.



INFLATOR : Side air bag inflator

INFOID:0000000013548964

- 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.

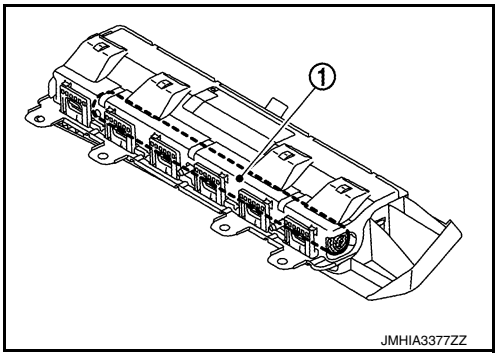


INFLATOR : Knee air bag inflator

INFOID:0000000013548965

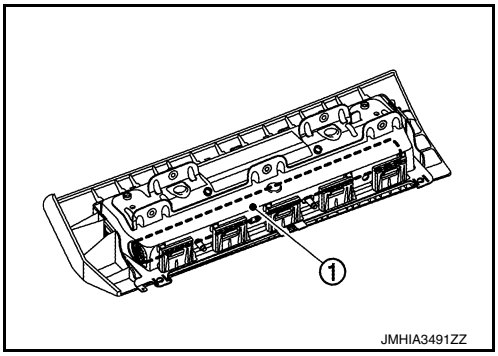
DRIVER SIDE

- Knee air bag inflator ① mainly consists of electric ignition device (squib), igniting agent, gas generating agent and filter. These items are stored in a cylinder-type 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.



PASSENGER SIDE

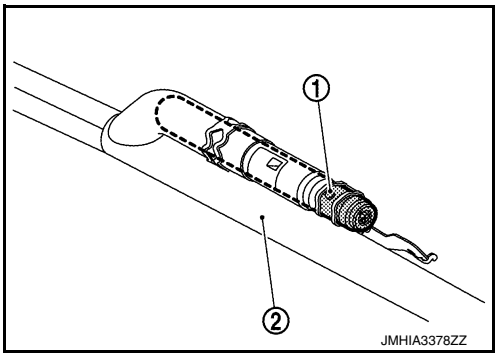
- Knee air bag inflator ① mainly consists of electric ignition device (squib), igniting agent, gas generating agent and filter. These items are stored in a cylinder-type container.
- In a frontal collision which exceeds the specified limit of the vehicle, electric ignition device (squib) ignites igniting 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 : Curtain air bag inflator

INFOID:0000000013548966

- 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.

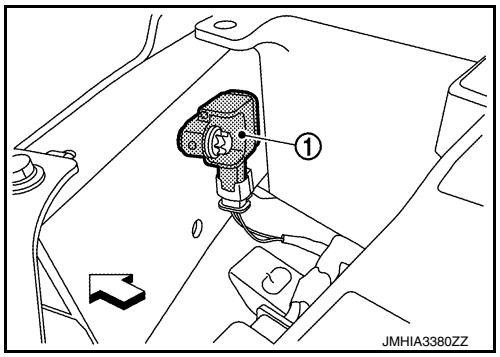


MAIN COMPONENT PARTS AND FUNCTIONS

MAIN COMPONENT PARTS AND FUNCTIONS : Crash zone sensor

INFOID:0000000013548967

- Crash zone sensor ① is installed to front bumper reinforcement. 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, crush 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, knee air bag and seat belt pre-tensioner (front and rear) operate.

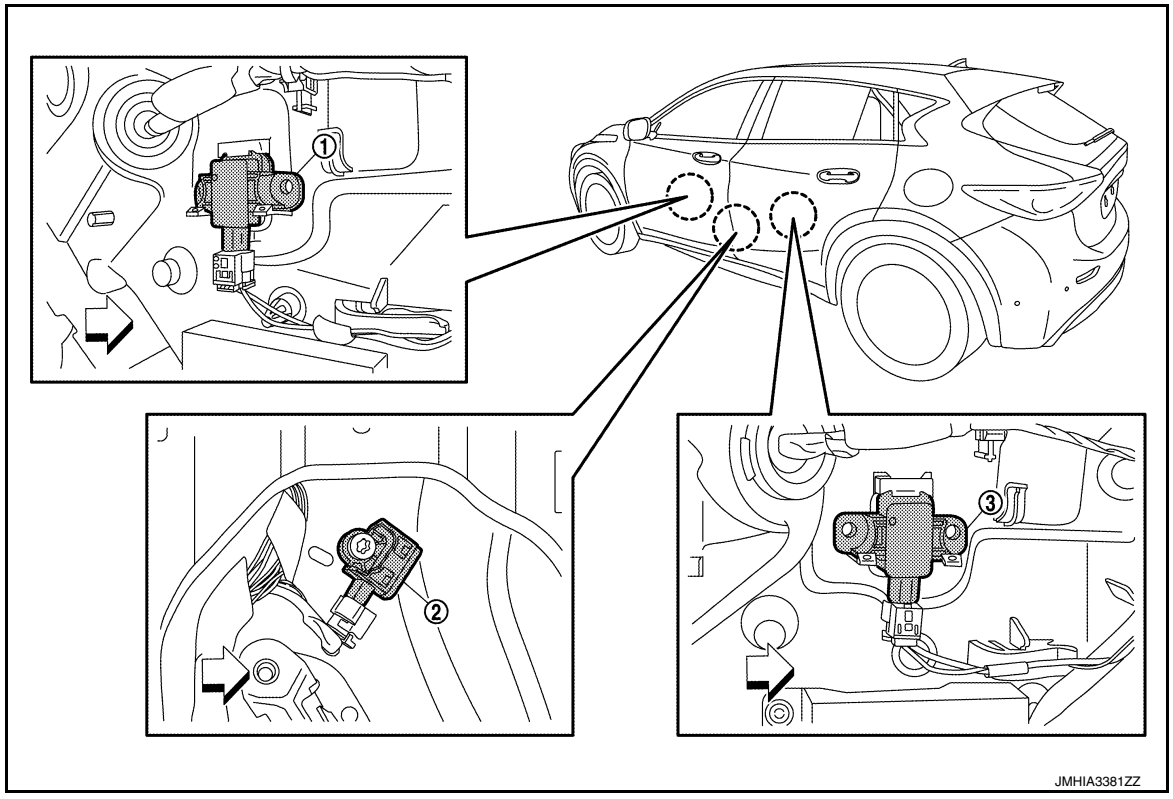


⇦ : Vehicle front

MAIN COMPONENT PARTS AND FUNCTIONS : Satellite sensor

INFOID:0000000013548968

- Front door satellite sensor ① in installed to front door.
- B-pillar satellite sensor ② in installed to center pillar lower portion.
- Rear door satellite sensor ③ in installed to rear door.



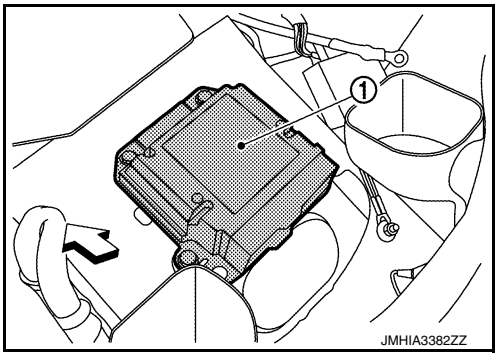
⇦ : Vehicle front

- 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:0000000013548969

- Air bag diagnosis sensor unit ① is installed to under A/C unit portion (under instrument panel assembly). Air bag diagnosis sensor unit integrates control functions of driver air bag, passenger air bag, side air bag, knee air bag, curtain air bag, and seat belt pretensioner.



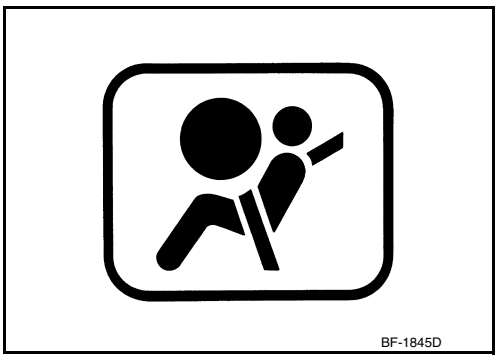
⇦ : Vehicle front

- 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.

MAIN COMPONENT PARTS AND FUNCTIONS : Air bag warning lamp

INFOID:0000000013548970

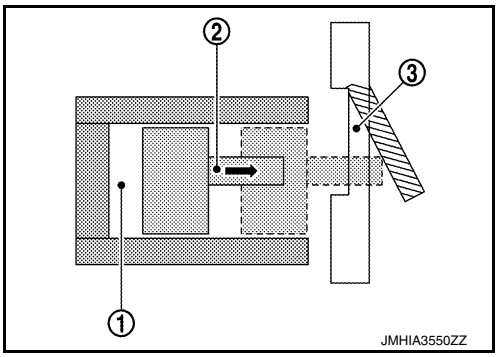
- Air bag warning lamp turns ON or blinks indicating a system malfunction when a malfunction is detected for electric system of SRS air bag system and seat belt pre-tensioner system.
- For operation check purposes, air bag warning lamp turns ON for 7 seconds after power switch is turned ON. During this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



MAIN COMPONENT PARTS AND FUNCTIONS : Pyrofuse

INFOID:0000000014327522

The pyrofuse is triggered following an accident to prevent any risk of fire. Inside the housing, the main line is designed as a bus bar with a predetermined fracture point ③. After a crash event occurs (frontal crash with two-stage airbag deployment) the pyrofuse is actuated directly by the air bag diagnosis sensor unit. The actuation causes pressure build up in the chamber ①. The piston ② then moves against the predetermined fracture point, thereby disconnecting the bus bar.



BASIC INSPECTION

COLLISION DIAGNOSIS

For Frontal Collision

INFOID:0000000013573413

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.
NOTE:
When the air bag inflates, ECM controls so that the engine cannot starts. After replacing the air bag, refer to EC-199, "Description" in order to start the engine.

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-16, "CONSULT Function" for details.
   Ensure entire SRS operates properly.
7. After the work is completed, check that no 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.
Driver knee air bag module	If the driver knee 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	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.

Part	Inspection
Occupant classification system (Passenger seat)	1. Remove passenger seat assembly. 2. Check control unit case for dents, cracks of deformities. 3. Check connectors 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. 7. Perform zero point reset function after front passenger seat is installed in the vehicle and all bolts are tightened to specification. Refer to SRC-60, "Description".
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.
Pyrofuse	If the air bag has deployed: 1. Check the following harness for binding, chafing, cuts or deformities. - Between battery and starter motor - Between battery and alternator 2. If no damage is found, REPLACE battery positive terminal (built-in pyrofuse). 3. If damaged, REPLACE the damaged harness. And then, REPLACE battery positive terminal (built-in pyrofuse).
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-16, "CONSULT Function" for details.
   Ensure entire SRS operates properly.
4. After the work is completed, check that no 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 NOT been activated: 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.
Driver knee air bag module	If the driver knee air bag has NOT been activated: 1. Remove driver knee air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Install driver knee 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 driver knee air bag modules with new fasteners.
Front passenger air bag module (if equipped)	If the front passenger air bag has NOT been activated: 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.

Part	Inspection
Crash zone sensor	If the front air bags or seat belt pre-tensioners have NOT been activated: 1. Remove the crash zone sensor. Check harness connectors for damage, terminals for deformities, and harness for binding. 2. Check for visible signs of damage (dents, cracks, deformation) of the crash zone sensor and bracket. 3. Install the crash zone sensor to check fit. 4. If no damage is found, reinstall with new fasteners. 5. If damaged — REPLACE the crash zone sensor and bracket with new fasteners.
Seat belt pre-tensioner assemblies (All applicable locations: buckle, retractor, lap outer)	If the pre-tensioners have NOT been activated: 1. Remove seat belt pre-tensioners. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Check belts for damage and anchors for loose mounting. 3. Check retractor for smooth operation. 4. Check seat belt adjuster for damage. 5. Check for deformities of the center pillar inner. 6. If no damage is found, reinstall seat belt pre-tensioner assembly with new fasteners. 7. If damaged —REPLACE. Install the seat belt pre-tensioner assembly with new fasteners.
Diagnosis sensor unit	If none of the SRS components have been activated: 1. Check case for dents, cracks or deformities. 2. Check connectors for damage, and terminals for deformities. 3. If no damage is found, reinstall with new fasteners. 4. If damaged — REPLACE. Install diagnosis sensor unit with new fasteners.
Steering wheel	1. Visually check steering wheel for deformities. 2. Check harness (built into steering wheel) and connectors for damage, and terminals for deformities. 3. Install driver air bag module into the steering wheel to check fit and alignment with the wheel. 4. Check steering wheel for excessive free play. 5. If no damage is found, reinstall. 6. If damaged — REPLACE.
Spiral cable	If the driver front air bag has not deployed: 1. Visually check spiral cable and combination switch for damage. 2. Check connectors and protective tape for damage. 3. Check steering wheel for noise, binding or heavy operation. 4. If no damage is found, reinstall. 5. If damaged — REPLACE.
Occupant classification system (Passenger seat)	1. Remove passenger seat assembly. 2. Check control unit case for dents, cracks of deformities. 3. Check connectors 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. 7. Perform zero point reset function after front passenger seat is installed in the vehicle and all bolts are tightened to specification. Refer to SRC-60, "Description".
Harness and connectors	1. Check connectors for poor connection, damage, and terminals for deformities. 2. Check harness for binding, chafing, cuts, or deformities. 3. If no damage is found, reinstall the harness and connectors. 4. If damaged ——REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness.
Instrument panel assembly	If the passenger 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.

For Side and Rollover Collision

INFOID:0000000013573414

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.

NOTE:

When the air bag inflates, ECM controls so that the engine cannot starts. After replacing the air bag, refer to EC-199, "Description" in order to start the engine.

WORK PROCEDURE

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

- Front seat back assembly (on the side on which side air bag is activated).
- Door finisher (on the side on which door-mounted curtain air bag is activated).
- Pop-up roll bar assemblies and pop-up roll bar covers.
- Side air bag (satellite) sensor LH/RH (on the side on which side air bag is activated).
- Diagnosis sensor unit.
- Seat belt pre-tensioner assemblies.

3. Check the SRS components and the related parts using the following table.
   Replace any SRS components and the related parts showing visible signs of damage (dents, cracks, deformation, etc.).
4. Perform self-diagnosis using CONSULT and “AIR BAG” warning lamp. Refer to SRC-16, "CONSULT Function" for details. Make sure entire SRS operates properly.
5. After the work is completed, check that no 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.
Door (satellite) sensor (LH or RH)	If any of the SRS components have deployed: REPLACE the door (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.

Part	Inspection
Occupant classification system (Passenger seat)	1. Remove passenger seat assembly. 2. Check control unit case for dents, cracks of deformities. 3. Check connectors 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. 7. Perform zero point reset function after front passenger seat is installed in the vehicle and all bolts are tightened to specification. Refer to SRC-60, "Description".
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.
Pyrofuse	If the air bag has deployed: 1. Check the following harness for binding, chafing, cuts or deformities. - Between battery and starter motor - Between battery and alternator 2. If no damage is found, REPLACE battery positive terminal (built-in pyrofuse). 3. If damaged, REPLACE the damaged harness. And then, REPLACE battery positive terminal (built-in pyrofuse).

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-16, "CONSULT Function" for details. Make sure entire SRS operates properly.
4. After the work is completed, check that no 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 NOT deployed: 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: 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: 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.

Part	Inspection
Front side air bag module RH	If the front side air bag RH has NOT deployed: 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: 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 sir 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.
Door (satellite) sensor (LH or RH)	If none of the SRS components have been activated: 1. Remove the door (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 door (satellite) sensor (LH or RH). 3. Install the door (satellite) sensor (LH or RH) to check fit. 4. If no damage is found, reinstall the door (satellite) sensor (LH or RH) with new fasteners. 5. If damaged — REPLACE the door (satellite) sensor (LH or RH) with new fasteners.
Diagnosis sensor unit	If none of the SRS components have been activated: 1. Check case and bracket for dents, cracks or deformities. 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: 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 with new fasteners. 7. If damaged —REPLACE. Install the seat belt pre-tensioner assembly with new fasteners.
Seat (with front side air bag)	If the front LH or front RH side air bag modules have NOT deployed: 1. Visually check the seat on the collision side. 2. Remove the seat on the collision side and check the following for damage and deformities. - Harness, connectors and terminals - Frame and recliner (for front and rear seat), and also adjuster and slides (for front seat) 3. If no damage is found, reinstall the seat. 4. If damaged— REPLACE the damaged seat parts using new fasteners. If the front seat back is damaged, the front seat back assembly must be replaced.
Center inner pillar	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.

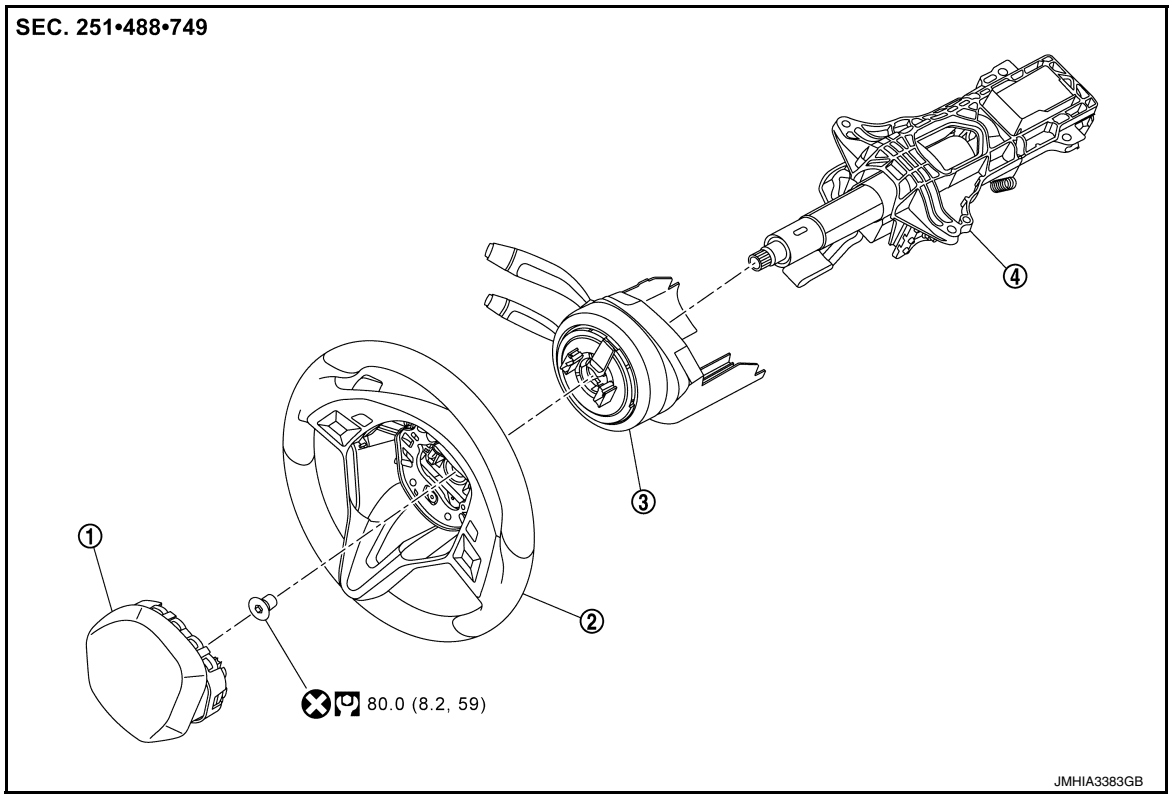
Part	Inspection
Door-mounted curtain air bag module LH	If the door-mounted curtain air bag LH has NOT deployed: 1. Check for visible signs of damage (dents, tears, deformation, etc.) of the door finisher on the collision side. 2. If damaged - REPLACE the door finisher LH with new fasteners. 3. Check for visible signs of 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. **CAUTION:** **When removing door mounted curtain air bag module from door finisher, do not reuse door finisher.** 6. If damaged - REPLACE the door finisher LH and door-mounted curtain air bag module LH with new fasteners.
Door-mounted curtain air bag module RH	If the door-mounted curtain air bag RH has NOT deployed: 1. Check for visible signs of damage (dents, tears, deformation, etc.) of the door finisher on the collision side. 2. If damaged - REPLACE the door finisher RH with new fasteners. 3. Check for visible signs of damage (tears etc.) of the door-mounted curtain air bag module RH. 4. Check harness and connectors for damage, and terminals for deformities. 5. If no damage is found, reinstall door finisher. **CAUTION:** **When removing door mounted curtain air bag module from door finisher, do not reuse door finisher.** 6. If damaged - REPLACE the door finisher RH and door-mounted curtain air bag module RH with new fasteners.
Occupant classification system (Passenger seat)	1. Remove passenger seat assembly. 2. Check control unit case for dents, cracks of deformities. 3. Check connectors 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. 7. Perform zero point reset function after front passenger seat is installed in the vehicle and all bolts are tightened to specification. Refer to SRC-60, "Description".
Pop-up roll bar	If the pop-up roll bar NOT deployed: 1. Check for visible signs of damage (dents, tears, deformation, etc.) of the pop-up roll bar. 2. If damaged - REPLACE the pop-up roll bar with new fasteners. 3. Check harness and connectors for damage, and terminals for deformities. 4. If no damage is found, reinstall the pop-up roll bar with new fasteners. 5. Check for visible signs of damage (dents, cracks, deformation, etc.) of the seatback support brace assembly. 6. If damaged - REPAIR the seatback support brace assembly.

REMOVAL AND INSTALLATION

DRIVER AIR BAG MODULE

Exploded View

INFOID:0000000013548973



① Driver air bag module ② Steering wheel ③ Steering column control module

④ Steering column assembly

: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

Removal and Installation

INFOID:0000000013548974

WARNING:

Always observe the following items for preventing accidental activation.

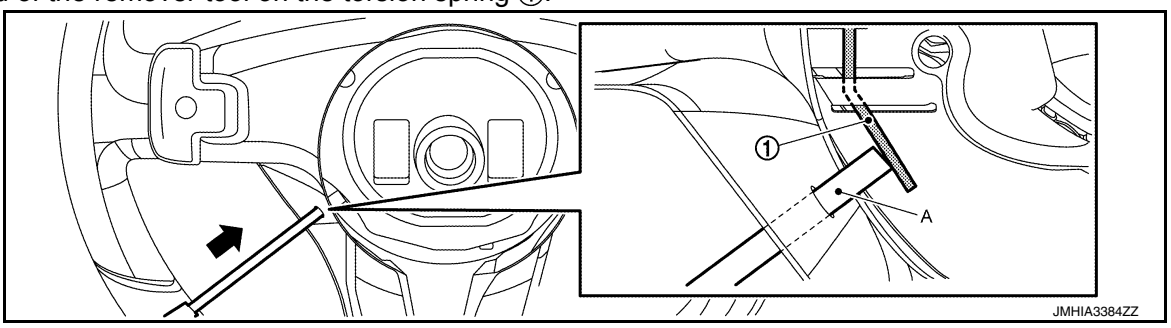
- **Before servicing, disconnect any external power sources and disconnect and insulate ground line of battery.**
- **Always work from the side of air bag module. Never work in front of it.**
- **There must be no persons within the operation range of the air bags and the seat belt retractor when the power is turned on again.**

NOTE:

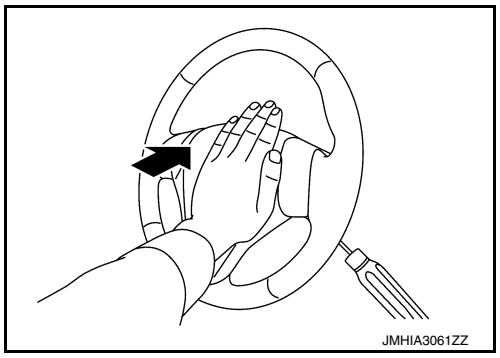
- When removing the driver air bag module for the first time, the openings on the steering wheel must be pieced through.
  The condition of the openings can be determined by carefully exploring with the remover tool.
- When the air bag inflates, ECM controls so that the engine cannot starts. After replacing the air bag, refer to EC-199, "Description" in order to start the engine.

REMOVAL

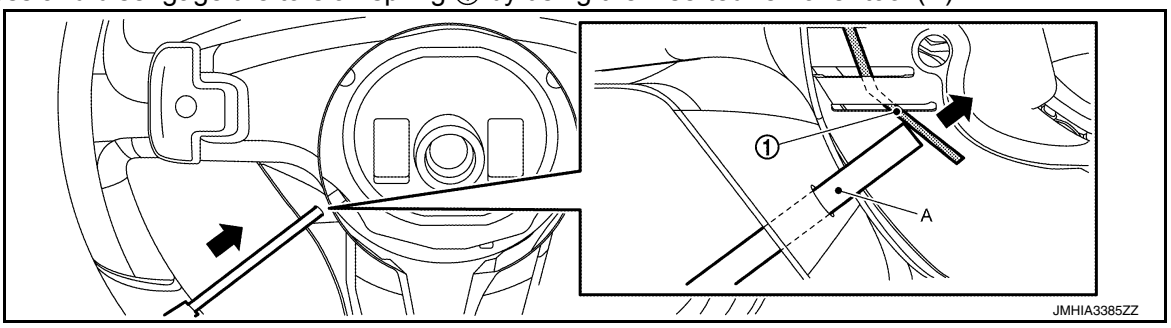
1. Insert a remover tool (A) into a hole on the left side or the right side of the steering wheel, and place the end of the remover tool on the torsion spring ①.



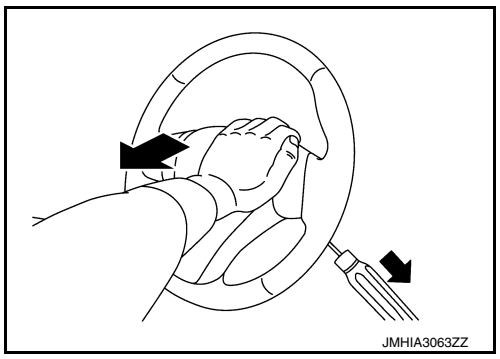
2. Press and hold driver air bag module on the side where the remover tool is inserted.



3. Press and disengage the torsion spring ① by using the inserted remover tool (A).

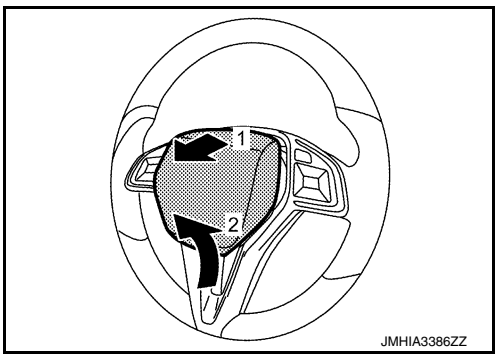


4. Pull driver air bag module, previously pressed and held, and then pull out the remover tool from the steering wheel.

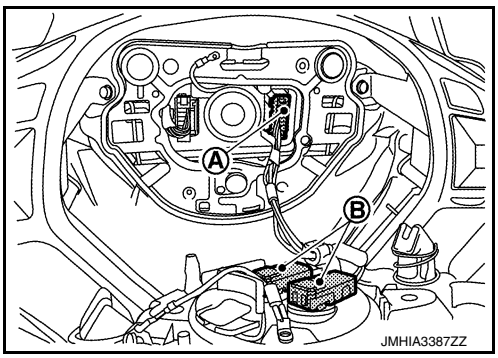


5. Remove the remaining torsion springs in numerical order from 1 to 4.

6. Lift up driver air bag module lower side from vehicle front to upwards while pulling driver air bag module upper side according to the numerical order 1→2 as shown in the figure, and then pull out driver air bag module.

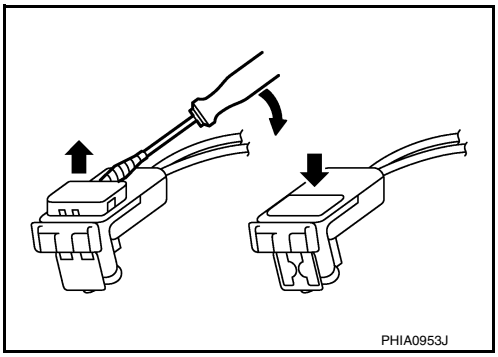


7. Disconnect driver air bag module harness connector Ⓐ and Ⓑ.



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.**

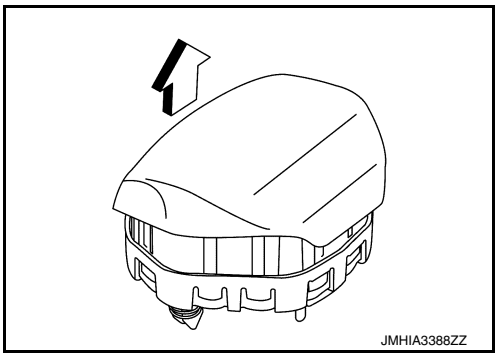


8. Remove the driver air bag module.

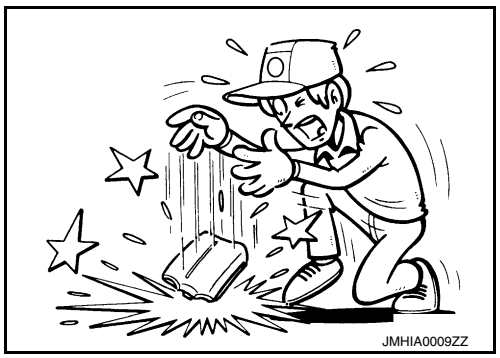
CAUTION:

- **To prevent accidental explosion, always place the driver air bag module with pad side facing upward.**

⇦ : Upward



- **To prevent damage to the parts, never impact the driver air bag module.**
- **Replace the driver air bag module if it has been dropped or sustained an impact.**


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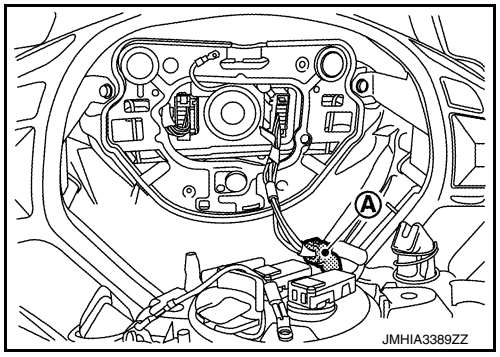
- **To prevent accidental explosion, never insert any foreign objects (screwdriver, etc.) into the driver air bag module.**
- **To prevent accidental explosion, never disassemble the driver air bag module.**
- **To prevent accidental explosion, never expose the driver air bag module to temperatures exceeding 100 °C (212 °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 install in the reverse order of removal.

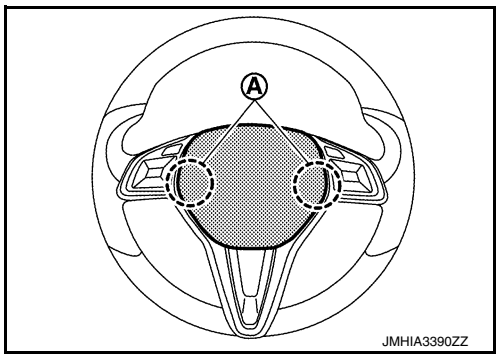
CAUTION:

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



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



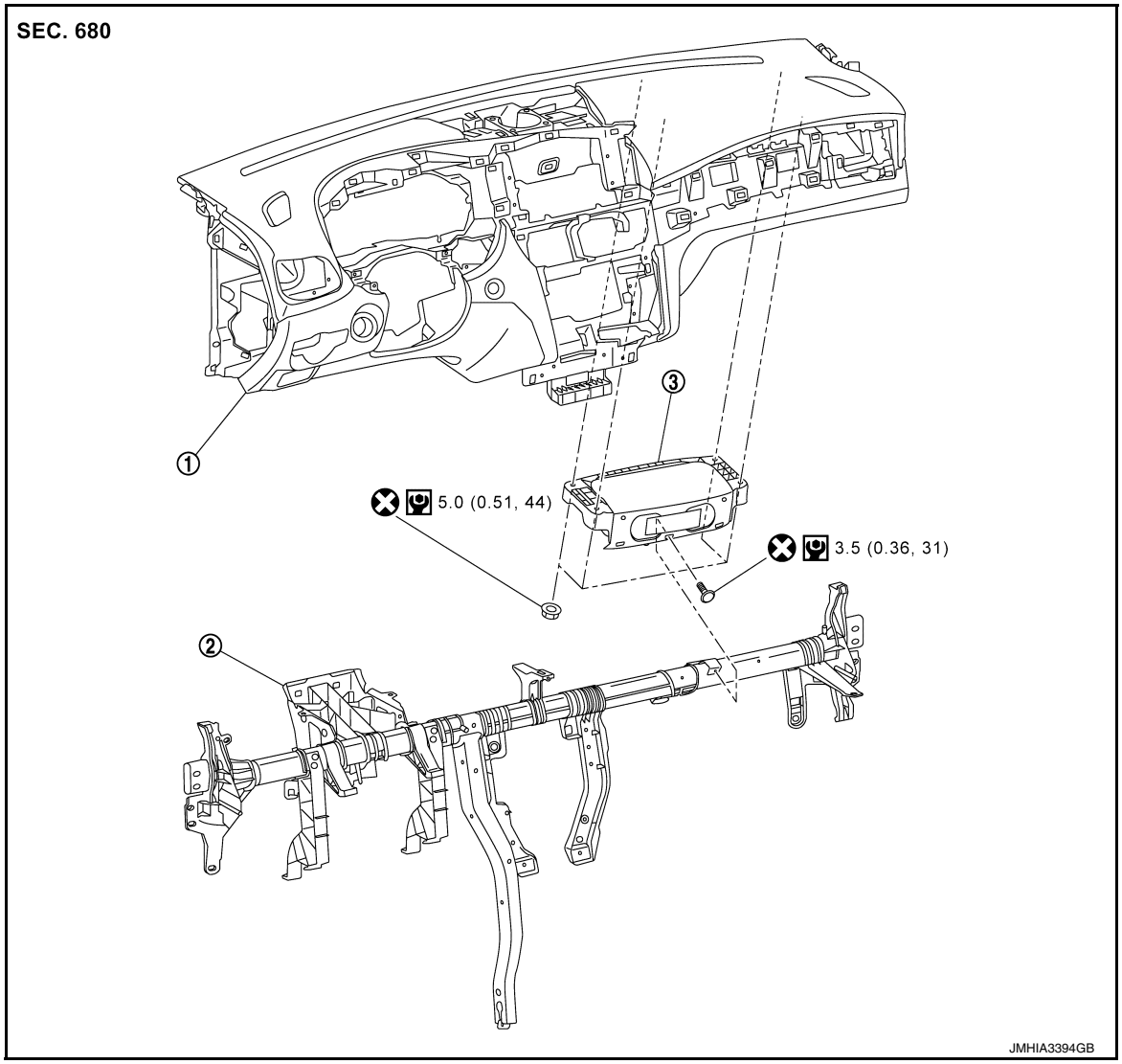
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- **Check that horn does not sound when driver air bag module is not pressed.**
- **Never damage the harness while installing.**
- **If malfunction is detected by the air bag warning lamp after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to SRC-16, "CONSULT Function".**
- **After the work is completed, check that no system malfunction is detected by air bag warning lamp in the user mode.**

PASSENGER AIR BAG MODULE

Exploded View

INFOID:0000000013548975



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

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

Removal and Installation

INFOID:0000000013548976

WARNING:

Always observe the following items for preventing accidental activation.

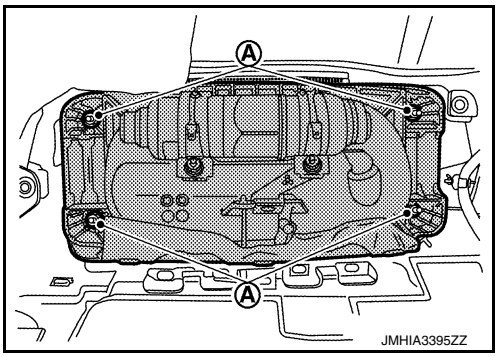
- **Before servicing, disconnect any external power sources and disconnect and insulate ground line of battery.**
- **Always work from the side of air bag module. Never work in front of it.**
- **There must be no persons within the operation range of the air bags and the seat belt retractor when the power is turned on again.**

NOTE:

When the air bag inflates, ECM controls so that the engine cannot starts. After replacing the air bag, refer to EC-199, "Description" in order to start the engine.

REMOVAL

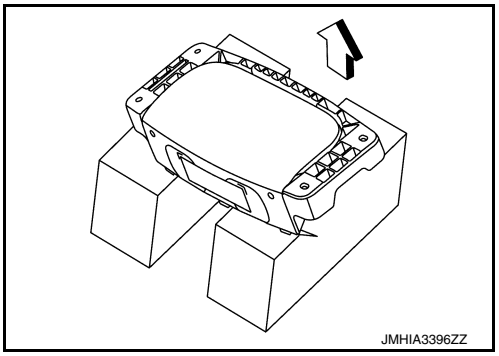
1. Remove instrument panel assembly. Refer to IP-13, "Removal and Installation".
2. Remove mounting nuts Ⓐ, and then remove passenger air bag module from instrument panel assembly.



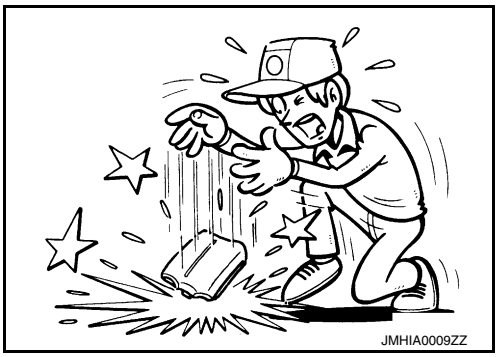
CAUTION:

- **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 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 100 °C (212 °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:

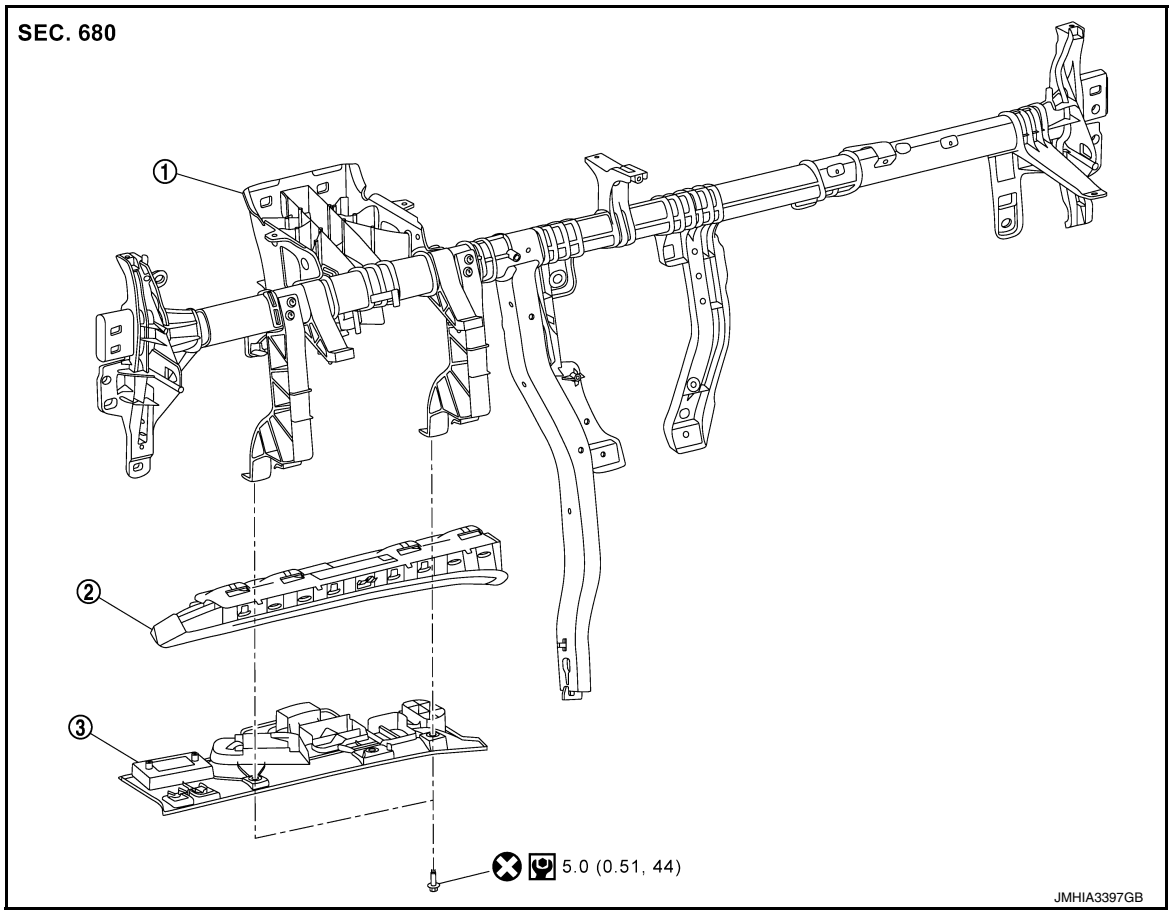
- **Never reuse fixing screw and mounting nuts after removal, replace with new screw and nuts.**
- **Never damage the harness while installing.**
- **If malfunction is detected by the air bag warning lamp after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to SRC-16, "CONSULT Function".**
- **After the work is completed, check that no system malfunction is detected by air bag warning lamp in the user mode.**

KNEE AIR BAG MODULE

Exploded View

INFOID:0000000013548979

DRIVER SIDE

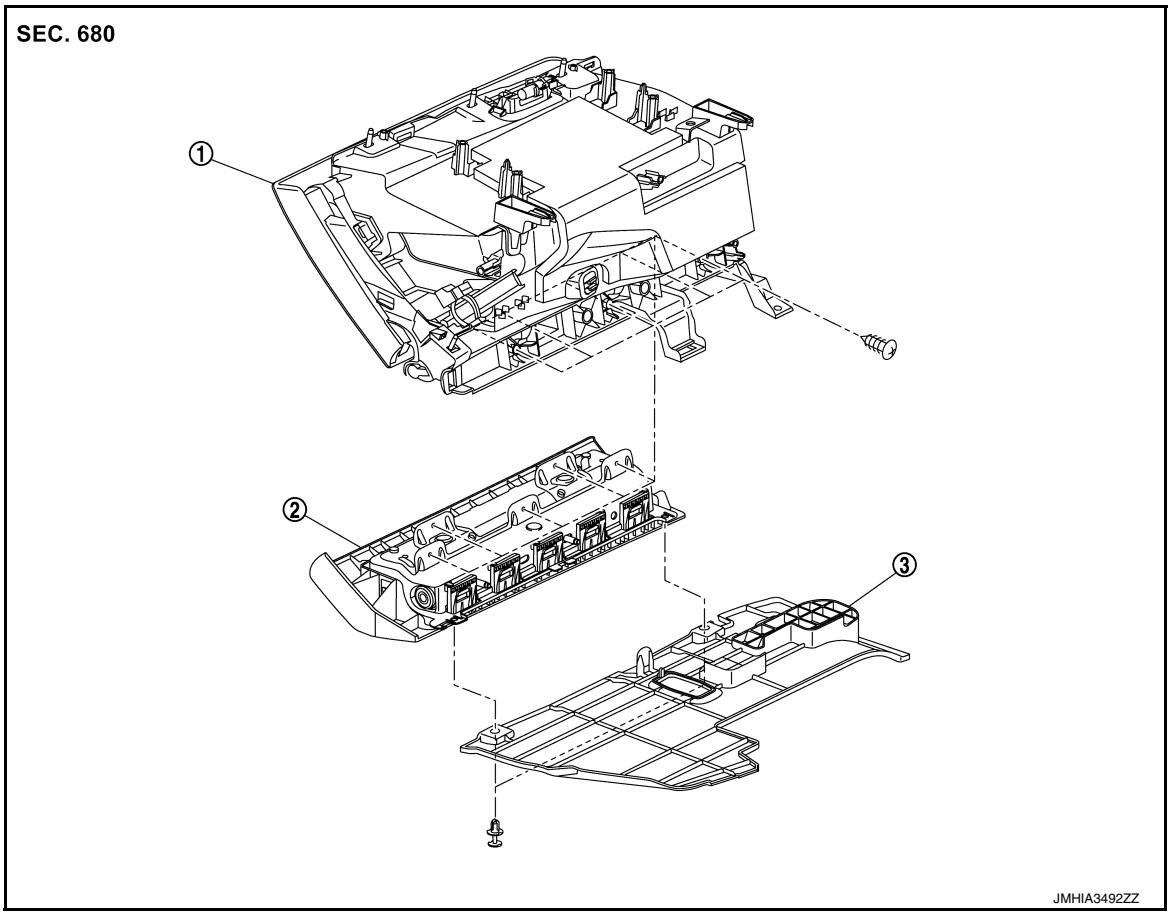


① Steering member ② Driver knee air bag module ③ Instrument lower cover LH

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

PASSENGER SIDE



① Glove box assembly ② Passenger knee air bag module ③ Instrument lower cover RH

Removal and Installation

INFOID:0000000013548980

WARNING:
Always observe the following items for preventing accidental activation.
- **Before servicing, disconnect any external power sources and disconnect and insulate ground line of battery.**
- **Always work from the side of air bag module. Never work in front of it.**
- **There must be no persons within the operation range of the air bags and the seat belt retractor when the power is turned on again.**

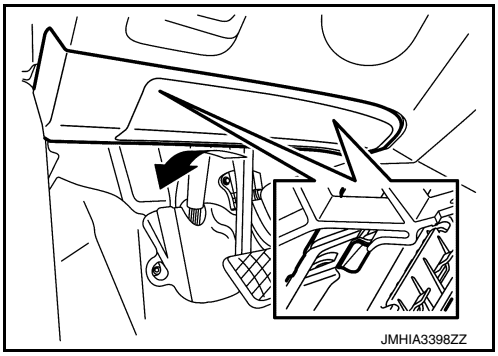
NOTE:
When the air bag inflates, ECM controls so that the engine cannot starts. After replacing the air bag, refer to EC-199, "Description" in order to start the engine.

REMOVAL

Driver Side

1. Remove instrument lower cover LH. Refer to IP-13, "Removal and Installation".

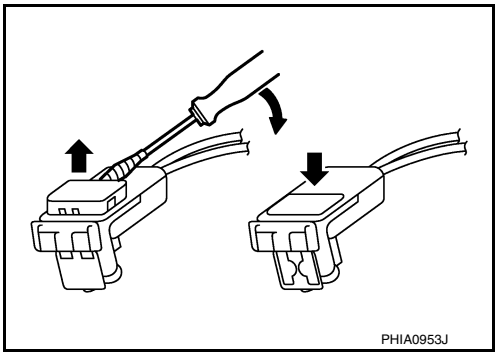
2. Remove driver knee air bag module.


JMHIA3398ZZ

3. Disconnect driver knee air bag module harness connector.

CAUTION:

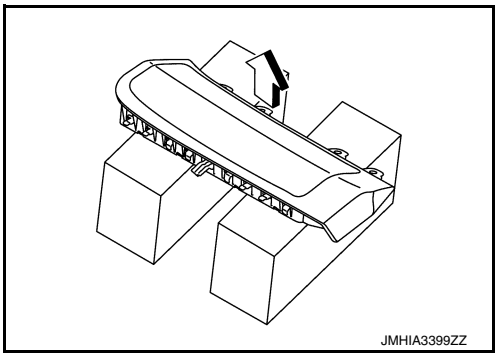
- **For installing/removing the knee air bag module harness connector, insert a thin remover tool wrapped in tape into notch, lift lock and remove the connector.**
- **Install the connector with lock raised, and push lock into the connector.**
- **After installing the connector, check that the lock is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


PHIA0953J

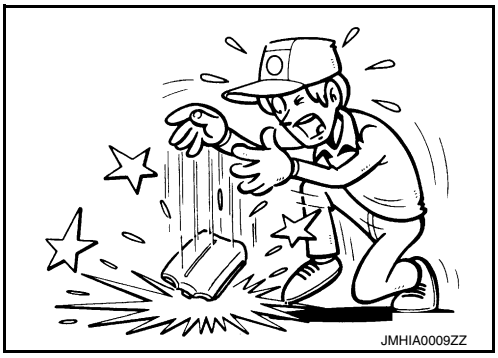
CAUTION:

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

⇦ : Deploying direction


JMHIA3399ZZ

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


JMHIA0009ZZ

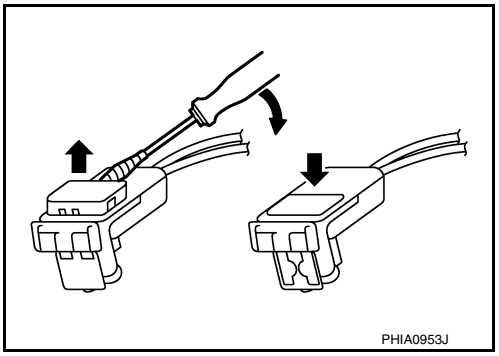
- **To prevent accidental explosion, never insert any foreign objects (screwdriver, etc.) into the knee air bag module.**
- **To prevent accidental explosion, never disassemble the knee air bag module.**
- **To prevent accidental explosion, never expose the knee air bag module to temperature of more than 100 °C (212 °F).**
- **To prevent damage to the parts, never allow oil, grease, detergent, or water to come in contact with the knee air bag module.**

Passenger Side

1. Remove glove box assembly. Refer to IP-13, "Removal and Installation".
2. Disconnect passenger knee air bag module harness connector.

CAUTION:

- **For installing/removing the knee air bag module harness connector, insert a thin remover tool 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.**

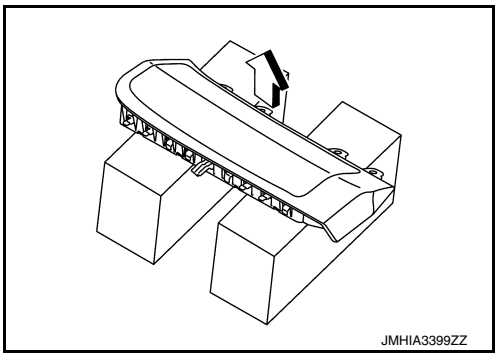

PHIA0953J

3. Remove passenger knee air bag module fixing screws, and then remove passenger knee air bag module from glove box assembly.

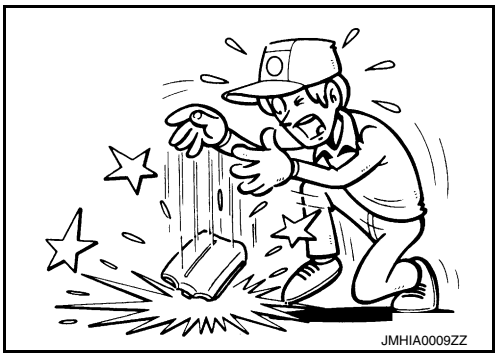
CAUTION:

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

⇦ : Deploying direction


JMHIA3399ZZ

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


JMHIA0009ZZ

- **To prevent accidental explosion, never insert any foreign objects (screwdriver, etc.) into the knee air bag module.**
- **To prevent accidental explosion, never disassemble the knee air bag module.**
- **To prevent accidental explosion, never expose the knee air bag module to temperature of more than 100 °C (212 °F).**
- **To prevent damage to the parts, never allow oil, grease, detergent, or water to come in contact with the knee air bag module.**
- **At the time of the knee air bag deployment, replace the glove box regardless of the damage to the glove box.**

INSTALLATION

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

CAUTION:

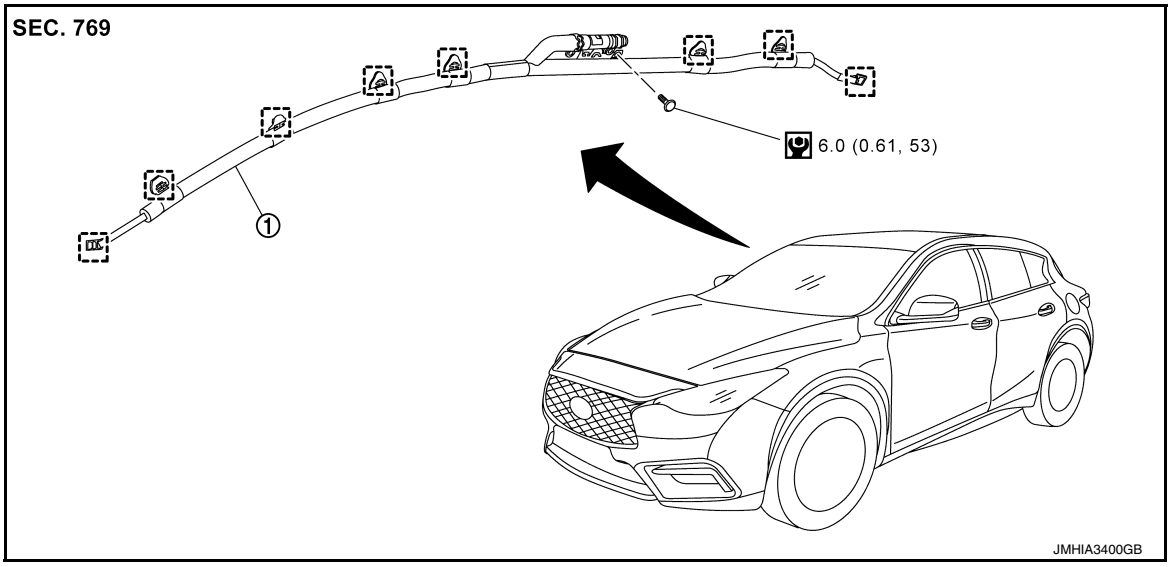
- **Never reuse mounting bolts after removal, replace with new bolts.**
- **Never damage the harness while installing.**

- **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-16, "CONSULT Function".**
- **After the work is completed, check that no system malfunction is detected by air bag warning lamp.**

CURTAIN AIR BAG MODULE

Exploded View

INFOID:0000000013548981



① Curtain air bag module

: Metal clip

: N·m (kg-m, in-lb)

Removal and Installation

INFOID:0000000013548982

WARNING:

Always observe the following items for preventing accidental activation.

- **Before servicing, disconnect any external power sources and disconnect and insulate ground line of battery.**
- **Always work from the side of curtain air bag module. Never work in front of it.**
- **There must be no persons within the operation range of the air bags and the seat belt retractor when the power is turned on again.**

NOTE:

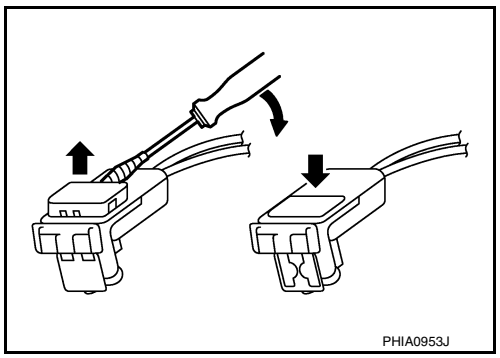
When the air bag inflates, ECM controls so that the engine cannot starts. After replacing the air bag, refer to EC-199, "Description" in order to start the engine.

REMOVAL

1. Remove headlining assembly. Refer to INT-33, "Removal and Installation".
2. Disconnect curtain air bag harness connector.

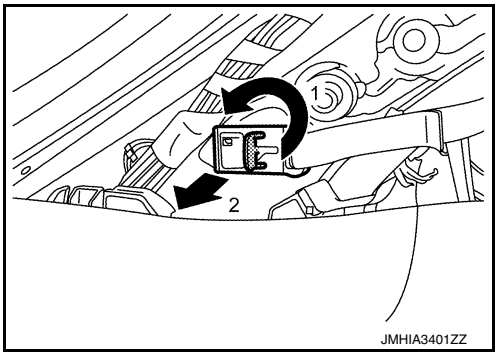
   CAUTION:

   - **For installing/removing the curtain air bag harness connector, insert a thin remover tool 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.**



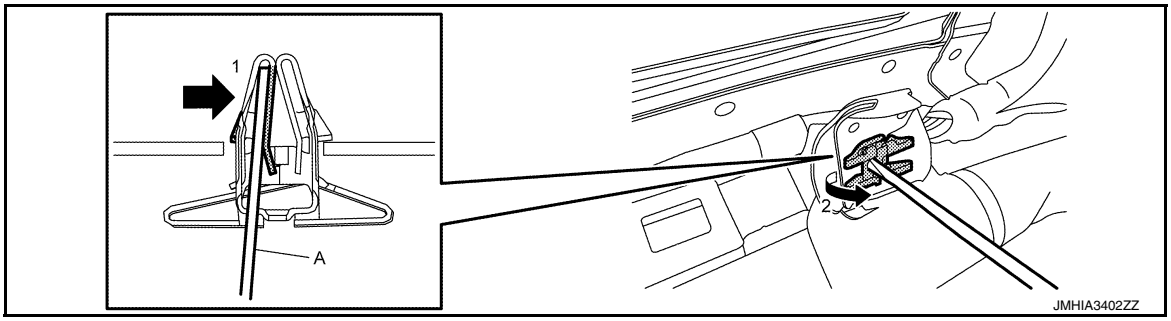
3. Remove curtain air bag module fixing screw.

4. Disengage metal clips for front side and rear side according to the numerical order 1→2 shown in the figure.

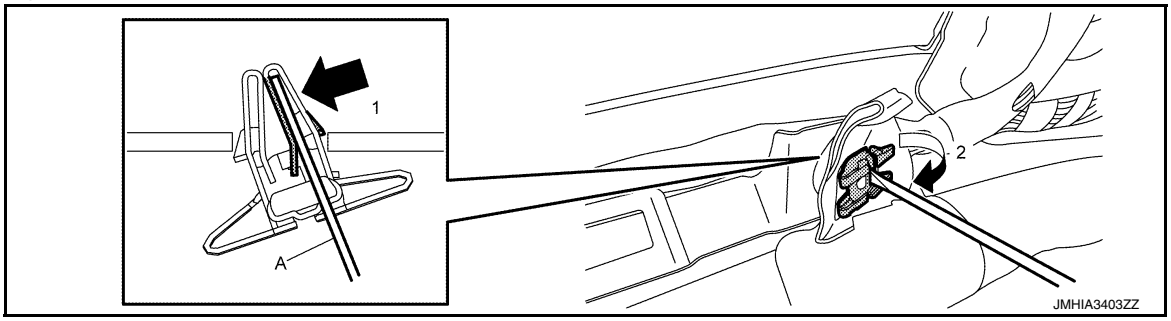


5. Disengage metal clips except for front side and rear side.

a. Disengage metal clip left side using a remover tool (A) according to the numerical order 1→2 shown in the figure.



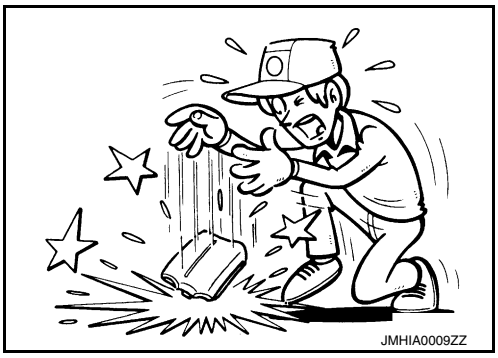
b. Disengage metal clip right side using a remover tool (A) according to the numerical order 1→2 shown in the figure.



6. Disconnect curtain air bag module bracket spouting hooks, and then remove curtain air bag module.

CAUTION:

- **To prevent damage to the parts, never impact the curtain air bag module.**
- **Replace 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 100°C (212°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.

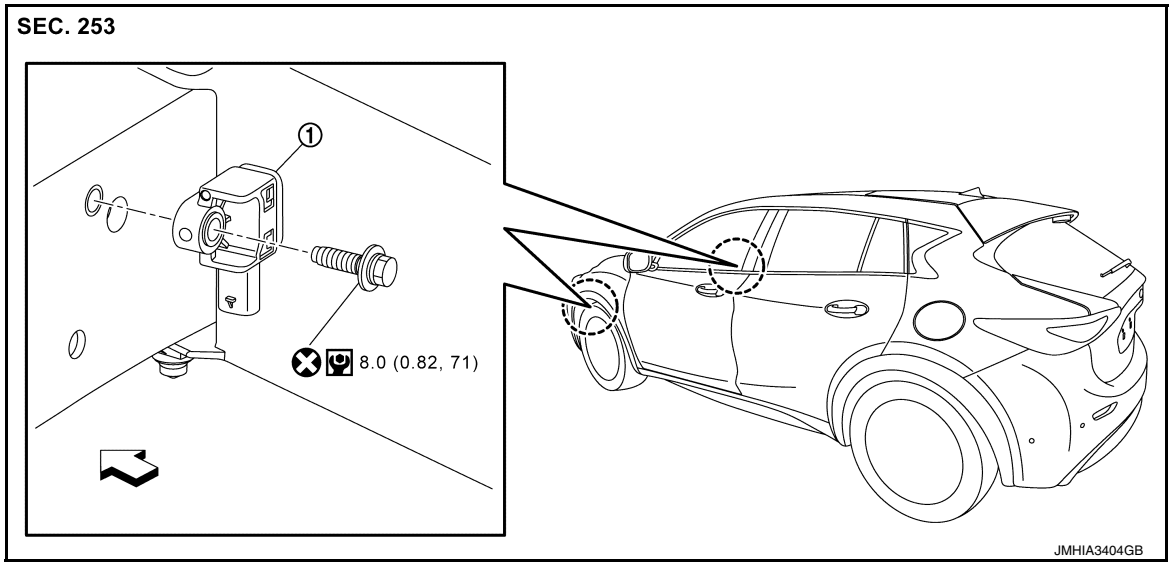
CAUTION:

- **Check perforation of curtain air bag module to check that curtain air bag module is not twisted.**
- **Never damage the harness while installing.**
- **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-16, "CONSULT Function".**
- **After the work is completed, check that no system malfunction is detected by air bag warning lamp.**

CRASH ZONE SENSOR

Exploded View

INFOID:0000000013548983



① Crash zone sensor

⇦ : Vehicle front

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

Removal and Installation

INFOID:0000000013548984

WARNING:

Always observe the following items for preventing accidental activation.

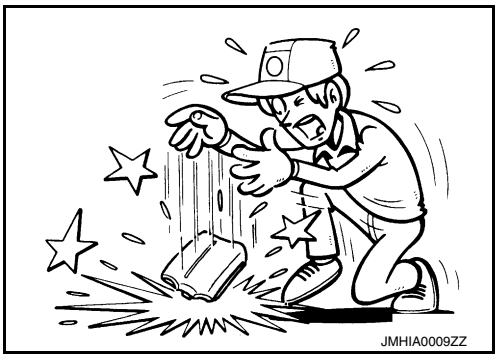
- **Before servicing, disconnect any external power sources and disconnect and insulate ground line of battery.**
- **Never use air tools or electric tools for servicing (prevents the air bag diagnosis sensor unit from activating unexpectedly due to vibration).**

REMOVAL

1. Remove front bumper fascia. Refer to EXT-21, "Removal and Installation".
2. Remove crash zone sensor mounting bolt.
3. Disconnect crash zone sensor harness connector, and then remove crash zone sensor.
   CAUTION:
   Never damage the crash zone sensor harness.

CAUTION:

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



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

INSTALLATION

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

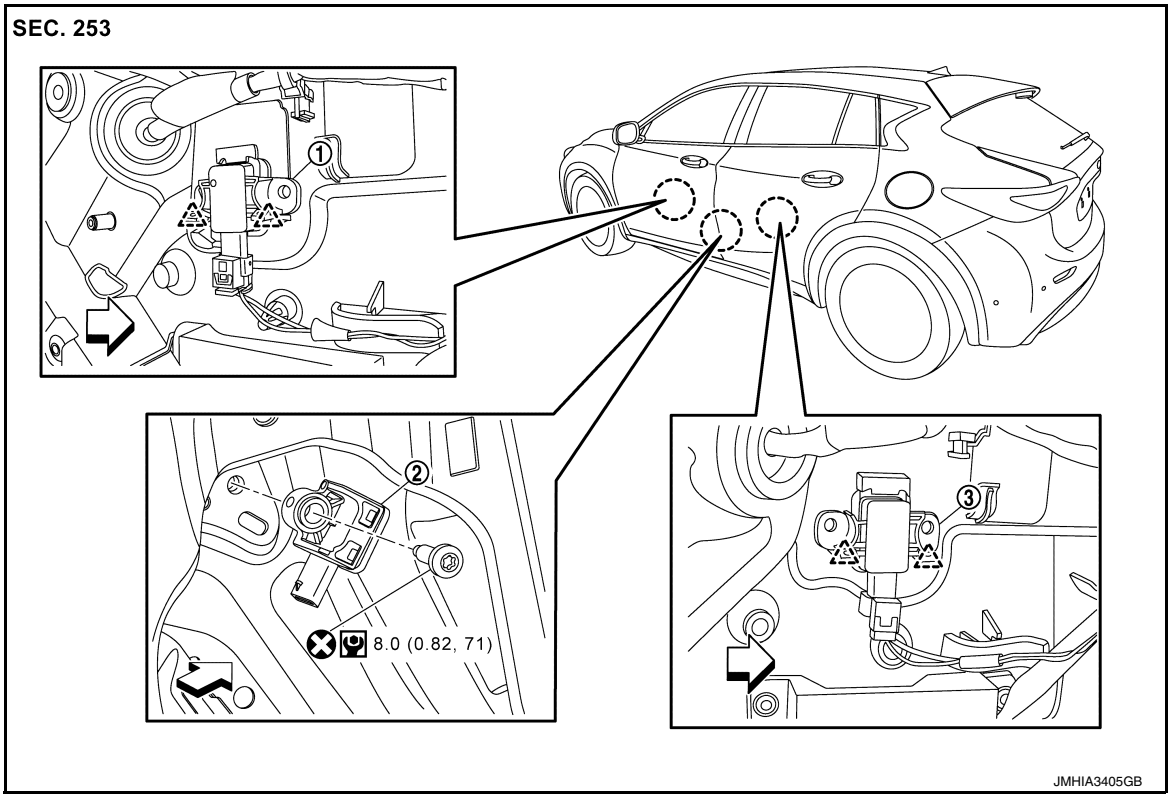
CAUTION:

- **Never reuse mounting bolt after removal, replace with new bolt.**
- **Never damage the harness while installing.**
- **Always install normally aligning to the cutout hole, because performance of the crash zone sensor excessively fluctuates according to the installation position.**
- **If malfunction is detected by the air bag warning lamp after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to SRC-16, "CONSULT Function".**
- **After the work is completed, check that no system malfunction is detected by air bag warning lamp in the user mode.**

SATELLITE SENSOR

Exploded View

INFOID:0000000013548985



① Front door satellite sensor ② B-pillar satellite sensor ③ Rear door satellite sensor

: Pawl

: Vehicle front

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

Removal and Installation

INFOID:0000000013548986

REMOVAL

WARNING:

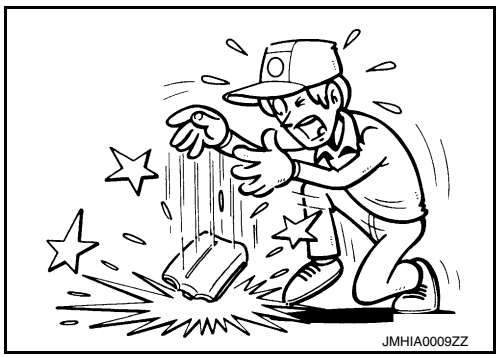
Before servicing, disconnect any external power sources and disconnect and insulate ground line of battery.

Front Door Satellite Sensor

1. Remove front door finisher. Refer to INT-14, "Removal and Installation".
2. Disengage front door satellite sensor fixing pawls.
3. Disconnect front door satellite sensor harness connector, and then remove front door satellite sensor.

CAUTION:

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



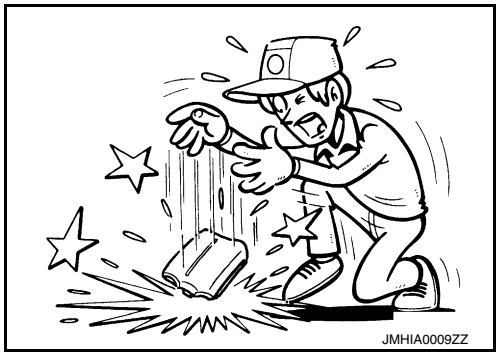
- **Replace the satellite sensor of deployed side air bag module and deployed curtain air bag module.**
- **Never damage the front door satellite sensor harness.**

B-pillar Satellite Sensor

1. Remove center pillar lower garnish. Refer to INT-26, "CENTER PILLAR LOWER GARNISH : Removal and Installation".
2. Remove front seat belt pre-tensioner retractor assembly. Refer to SB-8, "SEAT BELT RETRACTOR : Removal and Installation".
3. Remove B-pillar satellite sensor fixing screw.
4. Disconnect B-pillar satellite sensor harness connector, and then remove B-pillar satellite sensor.

CAUTION:

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



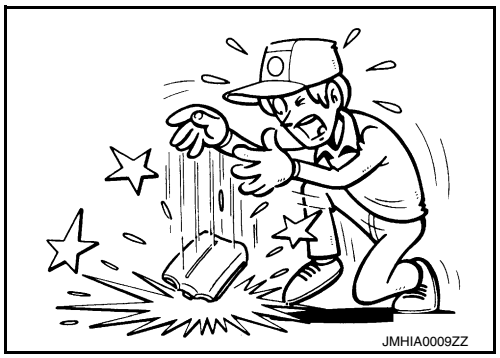
- **Replace the satellite sensor of deployed side air bag module and deployed curtain air bag module.**
- **Never damage the B-pillar satellite sensor harness.**

Rear Door Satellite Sensor

1. Remove rear door finisher. Refer to INT-19, "Removal and Installation".
2. Disengage rear door satellite sensor fixing pawls.
3. Disconnect rear door satellite sensor harness connector, and then remove rear door satellite sensor.

CAUTION:

- **To prevent damage to the parts, never impact the satellite sensor.**
- **Replace 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.**
- **Never damage the rear door satellite sensor harness.**

INSTALLATION

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

CAUTION:

- **Never reuse fixing screw after removal, replace with the new screw.**
- **Always install normally aligning to the cutout hole, because performance of the satellite sensor excessively fluctuates according to the installation position.**
- **If malfunction is detected by the air bag warning lamp after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to SRC-16, "CONSULT Function".**
- **After the work is completed, check that no system malfunction is detected by air bag warning lamp.**

SEAT BELT PRE-TENSIONER

Exploded View

INFOID:0000000013548987

For exploded view of seat belt pre-tensioner, refer to the following.
- Front seat belt pre-tensioner: Refer to SB-7, "Exploded View".
- Rear seat belt pre-tensioner: Refer to SB-14, "Exploded View".

Removal and Installation

INFOID:0000000013548988

For removal and installation procedures, refer to the following.
- Front seat belt pre-tensioner: Refer to SB-8, "SEAT BELT RETRACTOR : Removal and Installation".
- Rear seat belt pre-tensioner: Refer to SB-15, "SEAT BELT RETRACTOR : Removal and Installation".

LAP PRE-TENSIONER

Exploded View

INFOID:0000000013568678

For exploded view of seat belt pre-tensioner, refer to SB-7, "Exploded View".

Removal and Installation

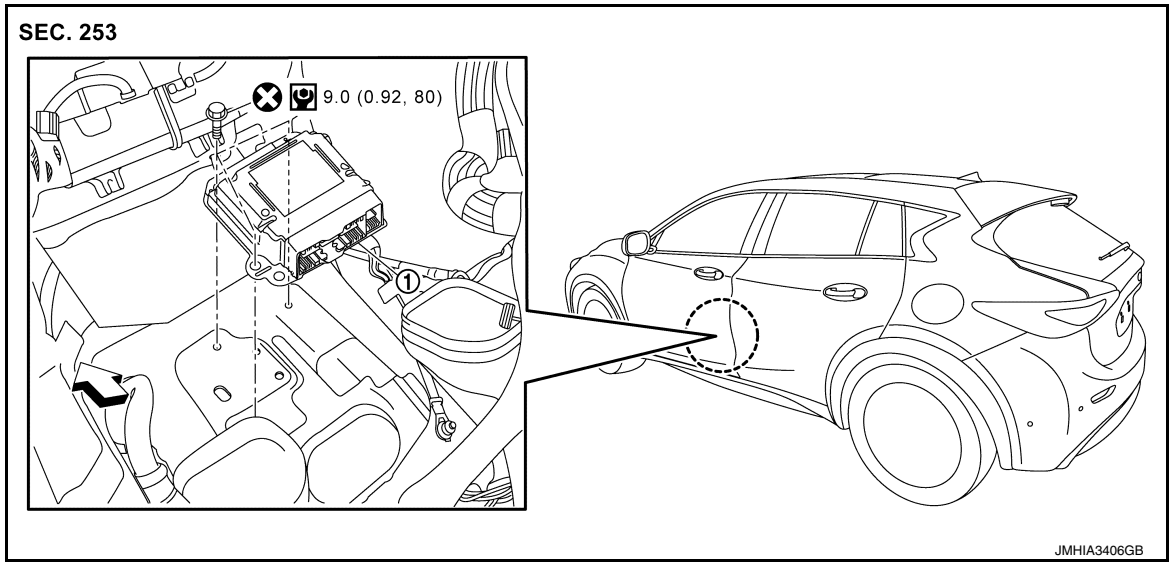
INFOID:0000000013568679

For removal and installation procedures, refer to SB-8, "SEAT BELT RETRACTOR : Removal and Installation".

DIAGNOSIS SENSOR UNIT

Exploded View

INFOID:0000000013548989



① Air bag diagnosis sensor unit

⇦ : Vehicle front

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

Removal and Installation

INFOID:0000000013548990

WARNING:

Always observe the following items for preventing accidental activation.

- **Before servicing, disconnect any external power sources and disconnect and insulate ground line of battery.**
- **Before disconnecting the air bag sensor unit harness connector, be sure to disconnect each harness connector of the air bag modules and seat belt pre-tensioners 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).**
- **When replacing the air bag diagnosis sensor unit, always check with the parts department for the latest parts information. Installing an incorrect air bag diagnosis sensor unit may or may not cause the air bag warning lamp to illuminate and may cause incorrect deployment of the supplemental air bags and seat belt pre-tensioners in a collision resulting in serious personal injury or death.**

REMOVAL

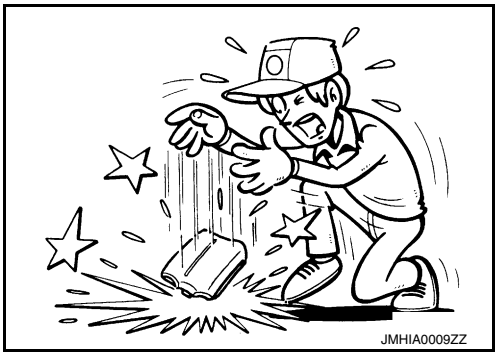
NOTE:

When replacing air bag diagnosis sensor unit, the procedures of before replacement mast be performed. Refer to SRC-54, "Description".

1. Disconnect connector of all air bag modules and seat belt pre-tensioners.
2. Remove center console assembly. Refer to IP-22, "Removal and Installation".
3. Disconnect air bag diagnosis sensor unit harness connectors.
4. Remove air bag diagnosis sensor unit mounting bolts, and then remove air bag diagnosis sensor unit.

CAUTION:

- **To prevent damage to the air bag diagnosis sensor unit, never impact it**
- **Replace 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 and deployed seat belt pre-tensioners.**

INSTALLATION

NOTE:

When replacing air bag diagnosis sensor unit, the procedures of after replacement mast be performed. Refer to SRC-54, "Description".

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.**
- **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-16, "CONSULT Function".**
- **After the work is completed, check that no system malfunction is detected by air bag warning lamp in the user mode.**
- **After replacing the air bag diagnosis sensor unit, confirm using CONSULT that the ECU discriminated number (identification number) of the new replacement air bag sensor unit matches the ECU discriminated number (identification number) of the replaced (old) air bag diagnosis sensor unit.**

PYROFUSE

Exploded View

INFOID:0000000014327523

For exploded view of pyrofuse, refer to PG-108, "MAIN BATTERY : Exploded View".

Removal and Installation

INFOID:0000000014327524

For removal and installation procedures, refer to PG-109, "MAIN BATTERY : Removal and Installation".