

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:0000000004902140

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

WARNING:

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

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

WARNING:

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

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:0000000004953659

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYSTEM).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.

For models equipped with the Intelligent Key system and NATS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the 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. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
4. Perform the necessary repair operation.
5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)

PRECAUTIONS

< PRECAUTION >

Precaution for Disposal

INFOID:000000004902142

- 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: KV99106400).
- 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

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- Never use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
For approximately 3 minutes after the cables 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 rotate steering wheel and column after removal of steering gear.
- Handle air bag module carefully. Always place driver and front passenger air bag modules with the pad side facing upward and seat mounted front side air bag module standing with the stud bolt side facing down.
- Perform self-diagnosis to check entire SRS for proper function after replacing any components.
- After air bag inflates, the front instrument panel assembly should be replaced if damaged.
- Always replace instrument panel pad following front passenger air bag deployment.

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SR

PREPARATION

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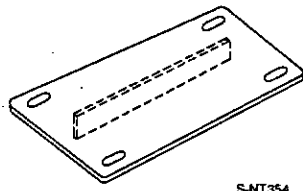
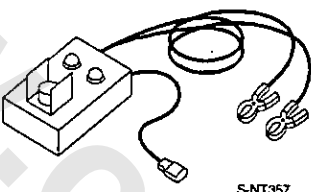
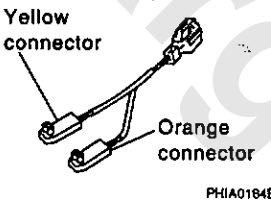
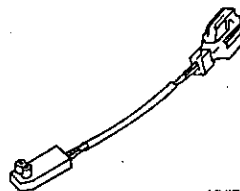
PREPARATION

PREPARATION

Special Service Tool

INFOID:000000004902144

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

Tool number Tool name		Description
KV99105300 Air bag module bracket		Anchors air bag module
KV99106400 Deployment tool		Disposes of air bag module and front seat belt pre-tensioner
KV99110500 Deployment tool adapter <ul style="list-style-type: none"> Deployment tool adapter for driver air bag module (Yellow and orange connectors) Deployment tool adapter for seat belt pre-tensioner (Yellow connector) Deployment tool adapter for seat belt pre-tensioner 2 (Orange connector) Deployment tool adapter for front passenger air bag module (Yellow and orange connector) 		<ul style="list-style-type: none"> Connects the deployment tool and driver air bag module Connects the deployment tool and front seat belt pre-tensioner Connects the deployment tool and seat belt pre-tensioner 2 Connects the deployment tool and front passenger air bag module
KV99109800 Deployment tool adapter <ul style="list-style-type: none"> Deployment tool adapter for front side air bag module Deployment tool adapter for side curtain air bag module 		<ul style="list-style-type: none"> Connects the deployment tool and front side air bag module Connects the deployment tool and side curtain air bag module

DRIVER AIR BAG MODULE

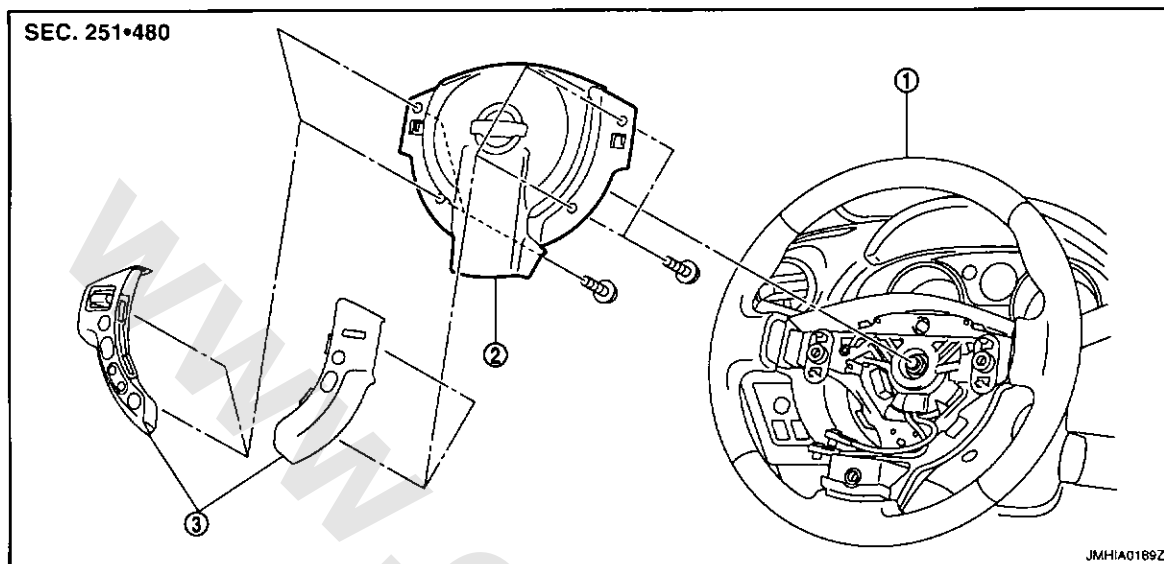
< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

DRIVER AIR BAG MODULE

Exploded View

INFOID:000000004902145



Removal and Installation

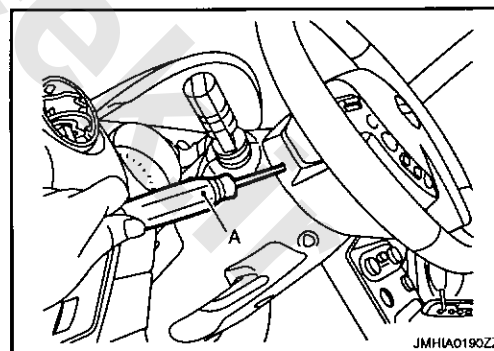
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REMOVAL

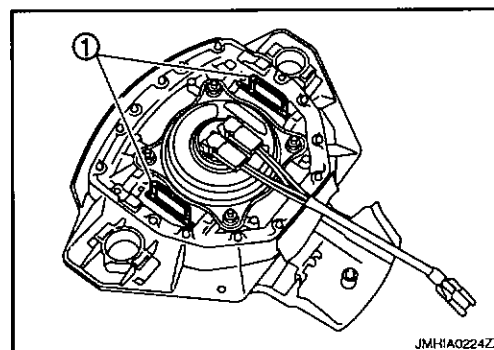
WARNING:

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

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



2. Press upward on retaining clip (1) until driver air bag module is released from steering wheel.



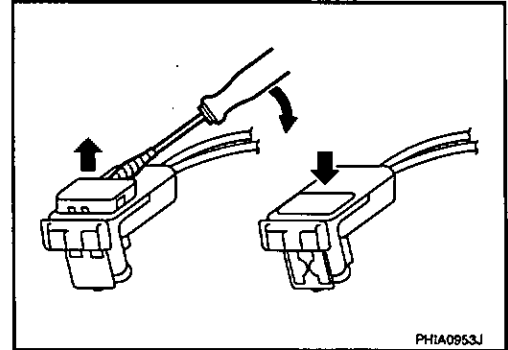
DRIVER AIR BAG MODULE

< ON-VEHICLE REPAIR >

3. Lift the driver air bag module from the steering wheel.
4. Disconnect the driver air bag module and horn connectors, then remove the driver air bag module.

CAUTION:

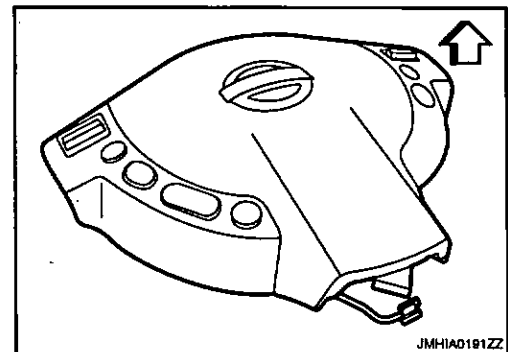
- For installing/removing the driver air bag module connector, insert thin flat-bladed screwdriver wrapped in tape into notch, lift lock and remove the connector.
- Install connector with lock raised, and push lock into the connector.
- After installing the connector, check that the lock is pushed securely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



CAUTION:

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

↖ : Upward



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



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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never 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. Refer to SRC-7. "Diagnosis Description".
- After the work is completed, check that no malfunctioning system is detected by air bag warning lamp.

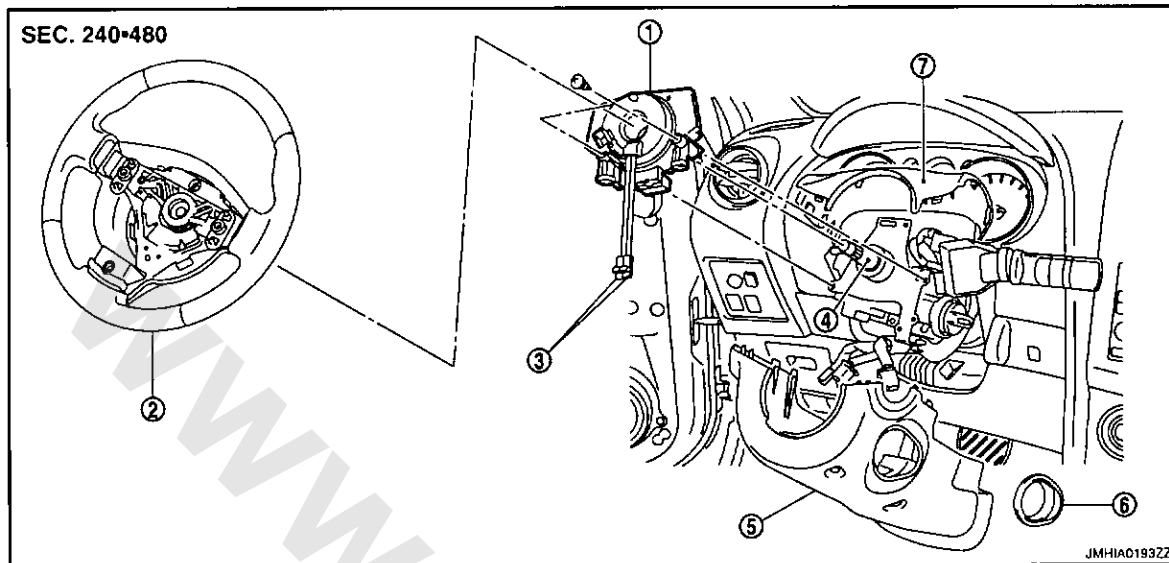
SPIRAL CABLE

< ON-VEHICLE REPAIR >

SPIRAL CABLE

Exploded View

INFOID.0000000004902147



- | | | |
|----------------------------------|----------------------------------|---|
| 1. Spiral cable | 2. Steering wheel | 3. Driver air bag module harness connectors |
| 4. Steering column assembly | 5. Steering column cover (lower) | 6. Steering lock escutcheon |
| 7. Steering column cover (upper) | | |

Removal and Installation

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REMOVAL

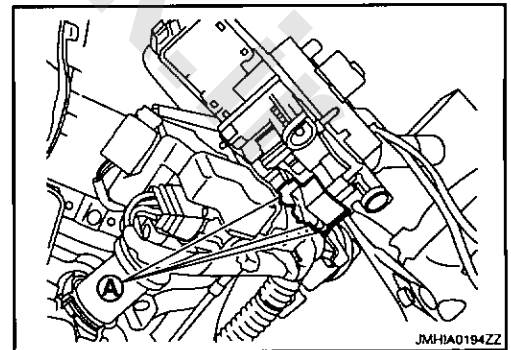
WARNING:

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

1. Remove the driver air bag module. Refer to [SR-5, "Removal and Installation"](#).
2. Remove the steering wheel. Refer to [ST-9, "Removal and Installation"](#).
3. Remove the column cover (upper/lower). Refer to [IP-12, "Removal and Installation"](#).
4. Disconnect the spiral cable body side connectors (A).

NOTE:

Disconnect spiral cable body side connectors after remove the spiral cable.



5. Remove spiral cable fixing screws, and pawls (LH/RH).
6. Pull out forward the spiral cable.

CAUTION:

SPIRAL CABLE

< ON-VEHICLE REPAIR >

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



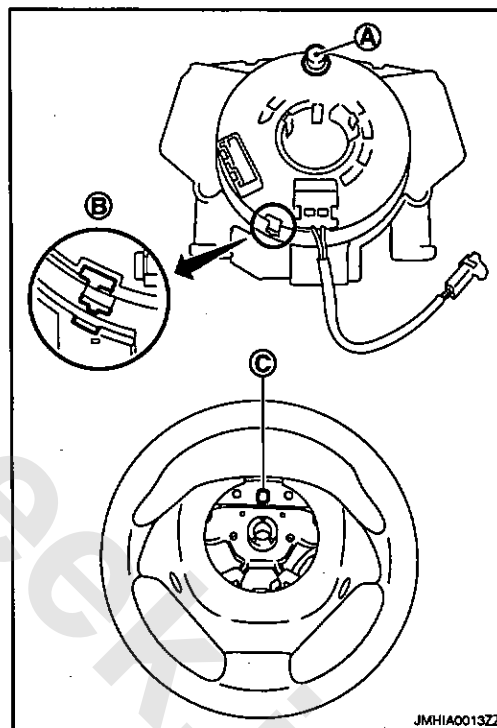
- Never disassemble the spiral cable.
- Never apply lubricant to the spiral cable.
- Never allow oil, grease, detergent, or water to come in contact with the spiral cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- The spiral cable may snap during steering operation if the cable is installed in an improper position. The 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 point (B) when the stopper insertion holes are in the same position.
- The service part is installed in the neutral position by the stopper and can be set without adjusting after the stopper is removed.
- Never over turn the spiral cable or go beyond the number of turns required. (This will cause cable snap.)
- Adjust the spiral cable locating pin (A) to the steering wheel locating pin hole (C).



- Secure the air bag harness with the harness fixing hook.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis. Refer to SRC-7, "Diagnosis Description".
- After the work is completed, check that no malfunctioning system is detected by air bag warning lamp.

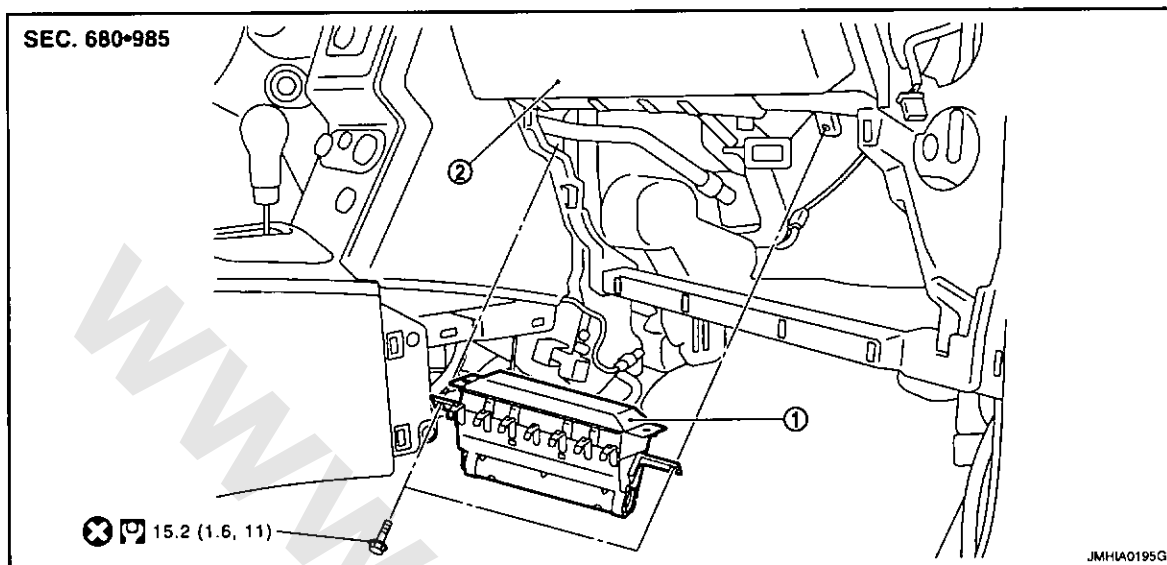
FRONT PASSENGER AIR BAG MODULE

< ON-VEHICLE REPAIR >

FRONT PASSENGER AIR BAG MODULE

Exploded View

INFOID:0000000004902149



1. Passenger air bag module
2. Instrument panel assembly

Refer to GI-3, "Components" for symbols in the figure.

SR

Removal and Installation

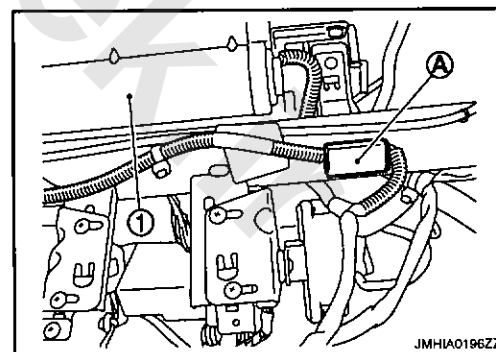
INFOID:0000000004902150

REMOVAL

WARNING:

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

1. Remove the glove box assembly. Refer to IP-12, "Removal and Installation".
2. Remove the Instrument lower assist panel. Refer to IP-12, "Removal and Installation".
3. Disconnect the harness connector (A) of passenger air bag module (1).



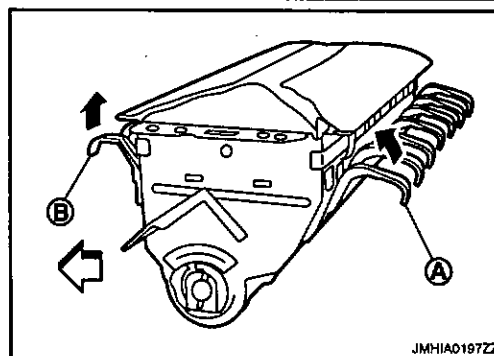
4. Remove the passenger air bag module fixing bolts.

FRONT PASSENGER AIR BAG MODULE

< ON-VEHICLE REPAIR >

5. Disconnect the rearward pawl (B) first by rotating passenger air bag car forwards, rear of air bag can then be pulled downwards to disconnect toward pawl (A).

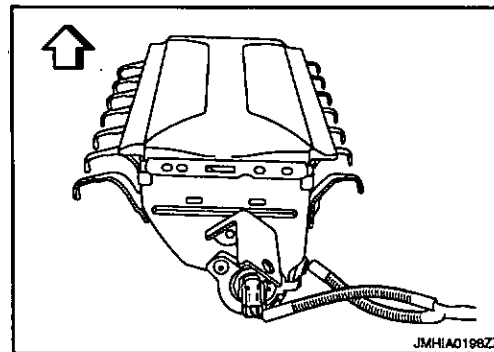
↔ : Vehicle rear



CAUTION:

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

↕ : Upward



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



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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never use the old fixing bolts after removal, replace with the new bolts.
- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis. Refer to SRC-7, "Diagnosis Description".
- After the work is completed, check that no malfunctioning system is detected by air bag warning lamp.

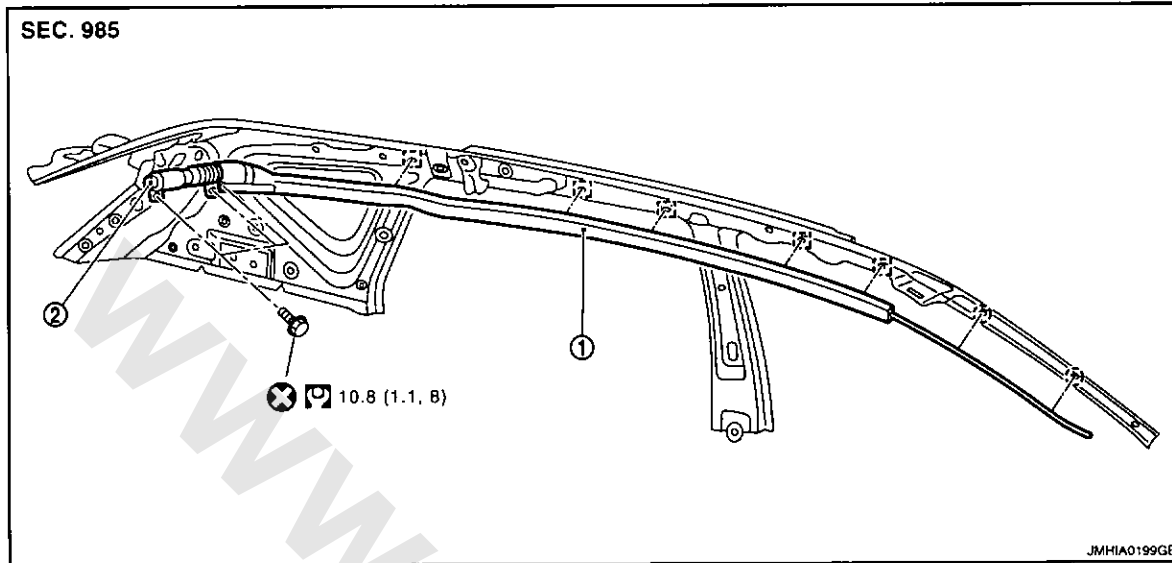
SIDE CURTAIN AIR BAG MODULE

< ON-VEHICLE REPAIR >

SIDE CURTAIN AIR BAG MODULE

Exploded View

INFOID:000000004902151



1. Side curtain air bag module 2. Side curtain air bag inflator

○ : Clip

□ : Metal clip

Refer to GI-3, 'Components' for symbols in the figure.

SR

Removal and Installation

INFOID:000000004902152

REMOVAL

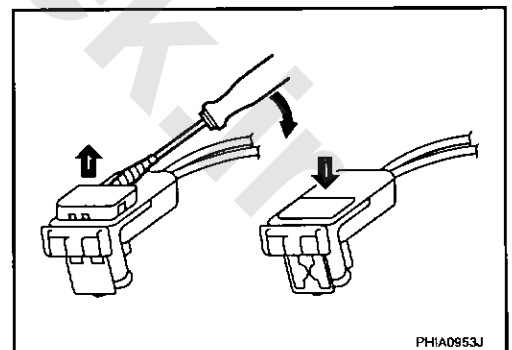
WARNING:

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

1. Remove the headlining. Refer to INT-21, "Removal and Installation".
2. Remove the side curtain air bag module connector.

CAUTION:

- For installing/removing the side curtain air bag module harness connector, insert thin flat-bladed 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 the side curtain air bag module fixing bolts and clips.
4. Remove the side curtain air bag module.

CAUTION:

SIDE CURTAIN AIR BAG MODULE

< ON-VEHICLE REPAIR >

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



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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never use the old fixing nut after removal, replace with the new bolts.
- Never damage the air bag harness.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis. Refer to SRC-7. "Diagnosis Description".
- After the work is completed, check that no malfunctioning system is detected by air bag warning lamp.

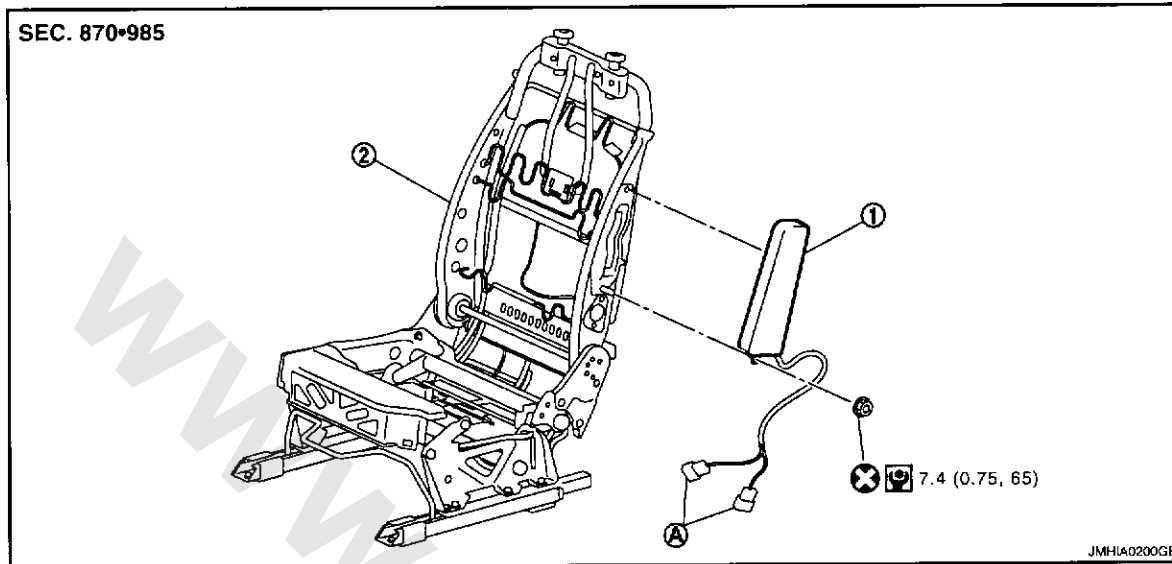
FRONT SIDE AIR BAG MODULE

< ON-VEHICLE REPAIR >

FRONT SIDE AIR BAG MODULE

Exploded View

INFOID:000000004902153



1. Front side air bag module 2. Front seatback frame

(A) Front side air bag module connector

Refer to [GI-9, "Components"](#) for symbols in the figure.

SR

Removal and Installation

INFOID:000000004902154

REMOVAL

WARNING:

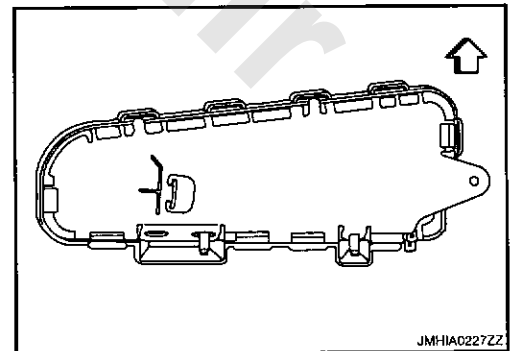
- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Always work from the rear of the side air bag module.
- Never use the air tools or electric tools for servicing.

1. Remove the front seat. Refer to [SE-14, "Removal and Installation"](#).
2. Remove the seatback trim and pad. Refer to [SE-15, "Disassembly and Assembly"](#).
3. Remove the side air bag module fixing nut, and/or harness connector.
4. Remove the side air bag module.

CAUTION:

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

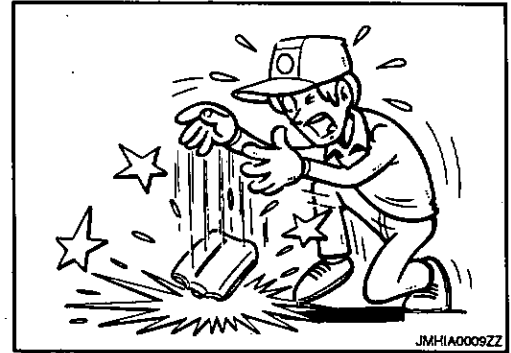
↖ : Upward



FRONT SIDE AIR BAG MODULE

< ON-VEHICLE REPAIR >

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



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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never use the old fixing nut after removal, replace with the new nut.
- Never damage the air bag harness.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis. Refer to SRC-7, "Diagnosis Description".
- After the work is completed, check that no malfunctioning system is detected by air bag warning lamp.

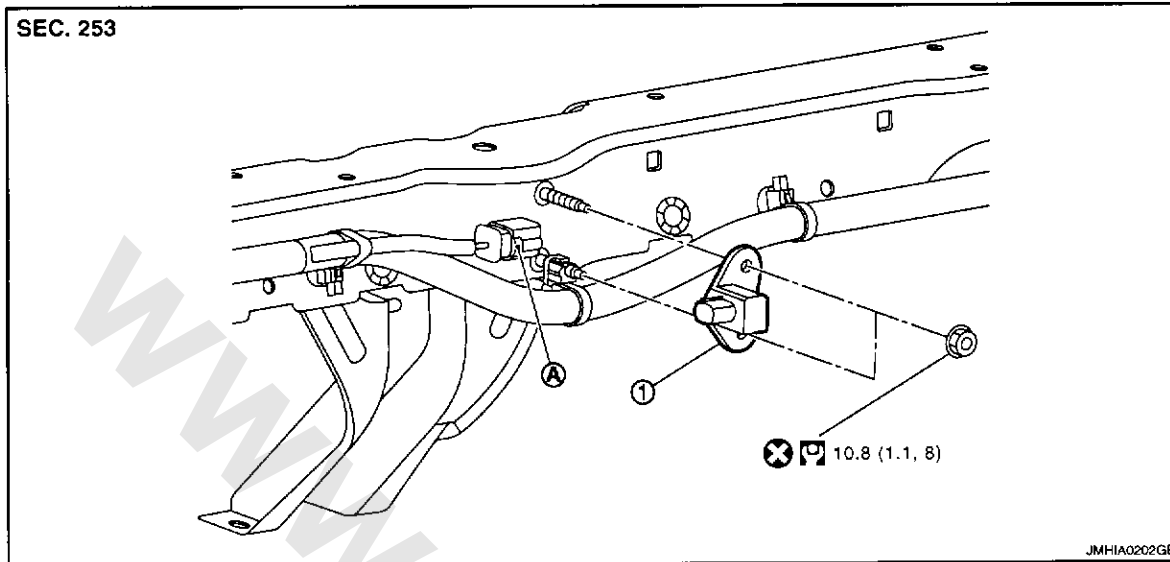
CRASH ZONE SENSOR

< ON-VEHICLE REPAIR >

CRASH ZONE SENSOR

Exploded View

INFOID:0000000004902155



1. Crash zone sensor

(A) Harness connector

Refer to [GI-3, "Components"](#) for symbols in the figure.

SR

Removal and Installation

INFOID:0000000004902156

REMOVAL

WARNING:

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

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

CAUTION:

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



- Replace the crash zone sensor of deployed SRS driver air bag and deployed SRS front passenger air bag.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never use the old fixing nuts after removal, replace with the new nuts.
- Never damage the crash zone sensor harness.

CRASH ZONE SENSOR

< ON-VEHICLE REPAIR >

- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis. Refer to SRC-7, "Diagnosis Description".
- After the work is completed, check that no malfunctioning system is detected by air bag warning lamp.

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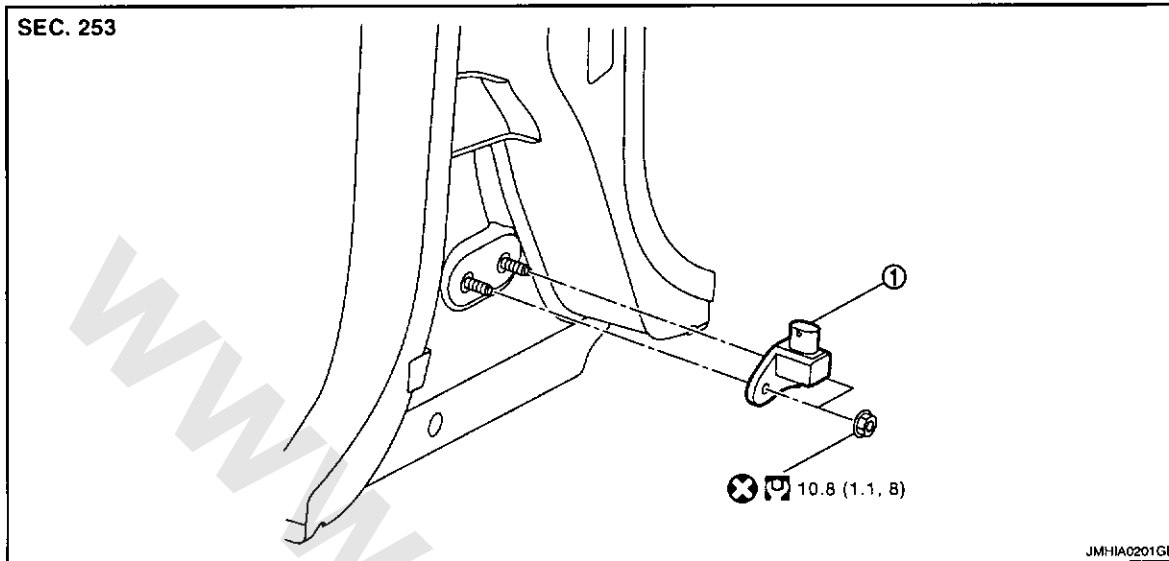
SIDE AIR BAG (SATELLITE) SENSOR

< ON-VEHICLE REPAIR >

SIDE AIR BAG (SATELLITE) SENSOR

Exploded View

INFOID:000000004902157



1. Satellite sensor

Refer to GI-3, "Components" for symbols in the figure.

Removal and Installation

INFOID:000000004902158

REMOVAL

WARNING:

- Before servicing, turn ignition switch OFF, disconnect the battery negative terminal and wait 3 minutes or more.
 - Never use the air tools or electric tools for servicing.
1. Remove the front seat belt. Refer to SB-7, "SEAT BELT RETRACTOR : Removal and Installation".
 2. Remove the side air bag (satellite) sensor fixing nuts.
 3. Disconnect the harness connector and then remove the side air bag (satellite) sensor.

CAUTION:

- Never impact the side air bag (satellite) sensor.
- Replace the side air bag (satellite) sensor if it has been dropped or sustained an impact.



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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never use the old fixing nuts after removal, replace with the new nuts.
- Never damage the satellite sensor harness.

SIDE AIR BAG (SATELLITE) SENSOR

< ON-VEHICLE REPAIR >

- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis. Refer to SRC-7, "Diagnosis Description".
- After the work is completed, check that no malfunctioning system is detected by air bag warning lamp.

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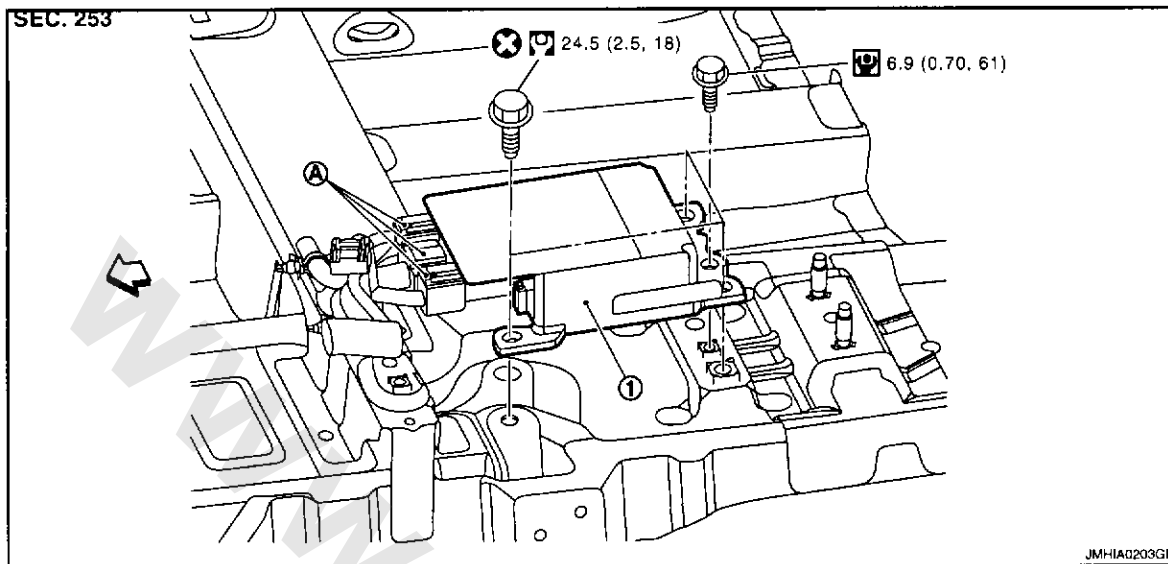
DIAGNOSIS SENSOR UNIT

< ON-VEHICLE REPAIR >

DIAGNOSIS SENSOR UNIT

Exploded View

INFOID:0000000004902159



1. Diagnosis sensor unit

(A) : Harness connectors

↩ : Vehicle front

Refer to [GI-3, "Components"](#) for symbols in the figure.

SR

Removal and Installation

INFOID:0000000004902160

REMOVAL

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Before disconnecting the air bag sensor unit harness connector, be sure to disconnect the each harness connector of the air bag module and pre-tensioner seat belt to prevent air bag deployment by static electricity and pre-tensioner seat belt operation.
- Never use the air tools or electric tools for servicing.

1. Disconnect the each connector of all air bag modules and pre-tensioner seat belts.
2. Remove the center console assembly. Refer to [JP-18, "Removal and Installation"](#).
3. Disconnect the diagnosis sensor unit harness connectors.
4. Remove the fixed bolts and ground bolt, and then remove the diagnosis sensor unit.

CAUTION:

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



DIAGNOSIS SENSOR UNIT

< ON-VEHICLE REPAIR >

- Replace the diagnosis sensor unit of deployed SRS air bag and deployed SRS front seat belt pre-tensioner.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never use the old fixing bolts after removal, replace with the new bolts.
- Never damage the diagnosis sensor harness.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis. Refer to SRC-7, "Diagnosis Description".
- After the work is completed, check that no malfunctioning system is detected by air bag warning lamp.

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FRONT SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

FRONT SEAT BELT PRE-TENSIONER

Removal and Installation

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

A
B
C
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DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Deployment

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CHECKING DEPLOYMENT TOOL

Connecting to Battery

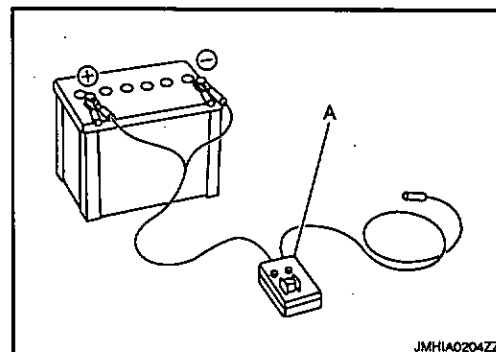
CAUTION:

The battery must show voltage of 9.6 V or more.

Remove the battery from the vehicle and place it on dry wood blocks approximately 5.0 m (16.4 ft.) away from the vehicle.

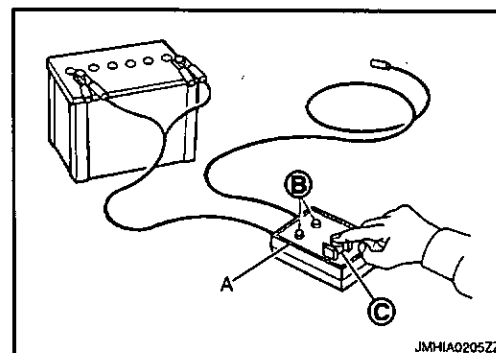
- Wait 3 minutes after the vehicle battery is disconnected before proceeding.
- Connect red clip of deployment tool (A) to battery positive terminal and black clip to negative terminal.

Check that the polarity is correct. The right side lamp in the tool, marked "deployment tool power", should glow with a green light. If the right side lamp glows red, reverse the connections to the battery.



Deployment Tool Check

Press the deployment tool switch (C) to the ON position. The left side lamp in the tool, marked "air bag connector voltage" should illuminate (B). If it does not illuminate, replace the deployment tool (A).



Air Bag Deployment Tool Lamp Illumination Chart (Battery Connected)

Switch operation	Left side lamp, green* "AIR BAG CONNECTOR VOLTAGE"	Right side lamp, green* "DEPLOYMENT TOOL POWER"
OFF	OFF	ON
ON	ON	ON

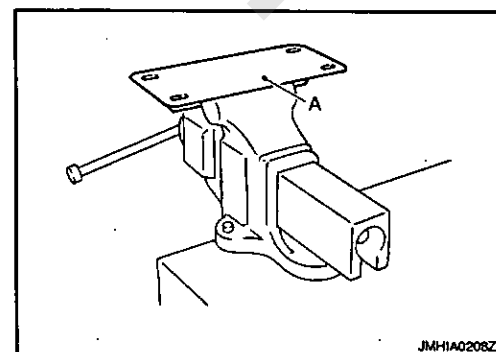
*: If this lamp glows red, the tool is connected to the battery incorrectly. Reverse the connections and check the lamp glows green.

DEPLOYMENT OF AIR BAG MODULE (OUTSIDE OF VEHICLE)

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.



DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

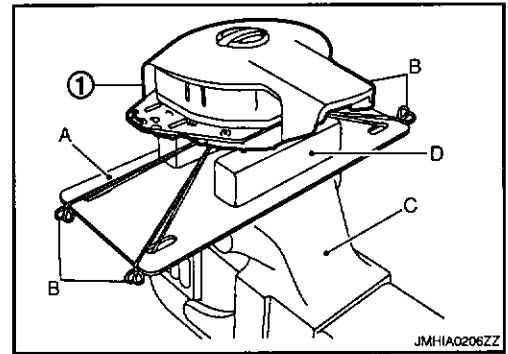
< ON-VEHICLE REPAIR >

- Using wire (B), secure air bag module (1) to air bag module bracket (SST: KV99105300) (A) at four places.

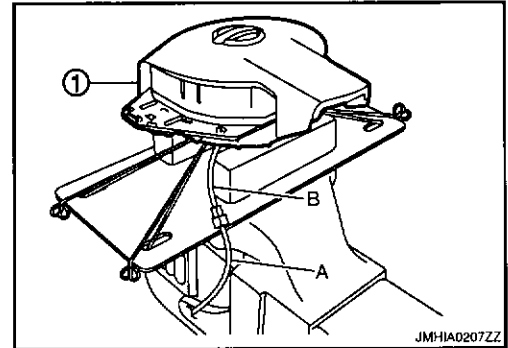
CAUTION:

- Use wire of at least 1.0 mm (0.039 in) diameter.
- If a gap exists between air bag module and air bag module bracket, use a piece of wood (D) inserted in the gap to stabilize the air bag module.

- Firmly secure air bag module bracket (SST: KV99105300) with air bag module attached, in a vise (C).



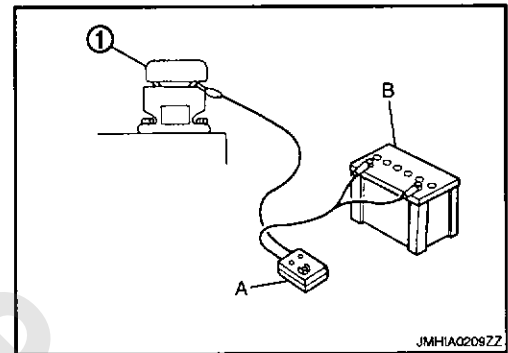
- Connect deployment tool adapter (SST: KV99110500) (B) to air bag module (1) and deployment tool connector (SST: KV99106400) (A).



- Connect red clip of deployment tool (A) to battery positive terminal and black clip to negative terminal (B).
- The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector voltage", will illuminate and the air bag module (1) will deploy.

CAUTION:

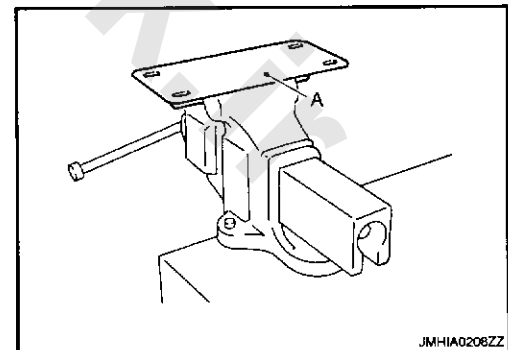
When deploying the driver air bag module, stand at least 5.0 m (16.4 ft.) away from the air bag module.



DEPLOYMENT OF AIR BAG MODULE (OUTSIDE OF VEHICLE)

Deployment of Front Passenger Air Bag Module (Outside of Vehicle)

- Firmly secure air bag module bracket (SST: KV99105300) (A) in a vise.



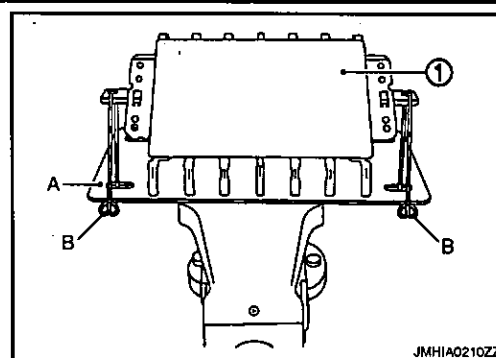
DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

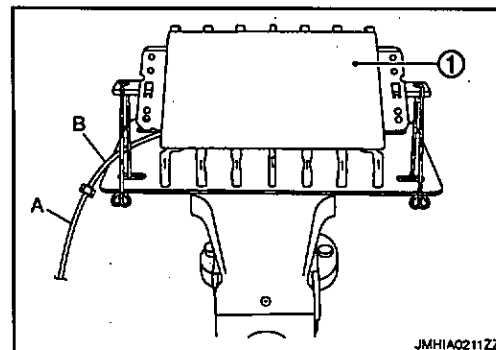
- Using wire, secure air bag module to air bag module bracket (SST: KV99105300) (A) at two places.

CAUTION:

Use wire of at least 1.0 mm (0.039 in) diameter.



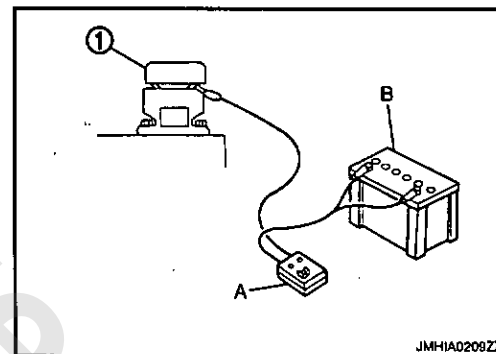
- Connect deployment tool (SST: KV99106400) (A) and deployment tool adapter (SST: KV99110500) (B) to front passenger air bag module connector (1).



- Connect red clip of deployment tool (A) to battery positive terminal and black clip to negative terminal (B).
- The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector voltage", will illuminate and the air bag module (1) will deploy.

CAUTION:

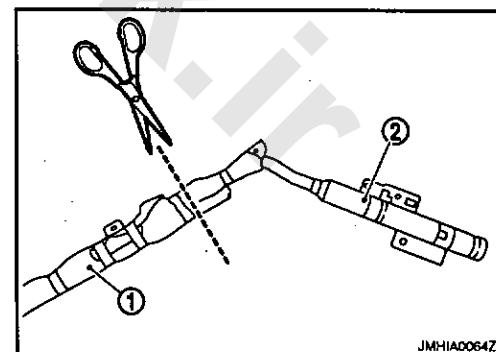
- When deploying the front passenger air bag module, never stand on the deploying side.
- Stand at least 5.0 m (16.4 ft.) away from the air bag module.



DEPLOYMENT OF AIR BAG MODULE (OUTSIDE VEHICLE)

Deployment of Side Curtain Air Bag Module (Outside of Vehicle)

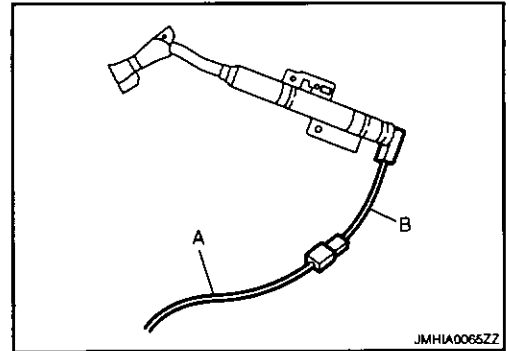
- Cut the inflator (2) from side curtain air bag module (1).



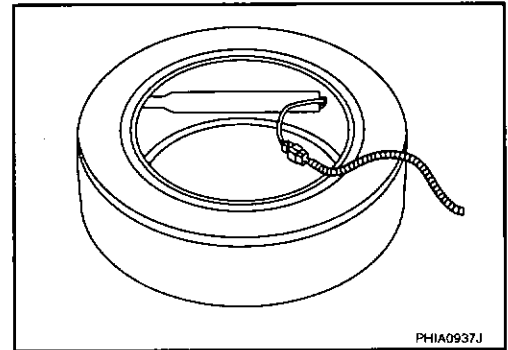
DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

2. Connect deployment tool (SST: KV99106400) (A) and deployment tool adapter (SST: KV99109800) (B) to the inflator.



3. Put the inflator connected with the deployment tool (SST: KV99106400) and deployment tool adapter (SST: KV99109800) into a tire without a wheel.



4. Put the tire with the inflator (1) onto another tire without wheel. Add an additional tire without a wheel and then a tire mounted on a wheel on top.

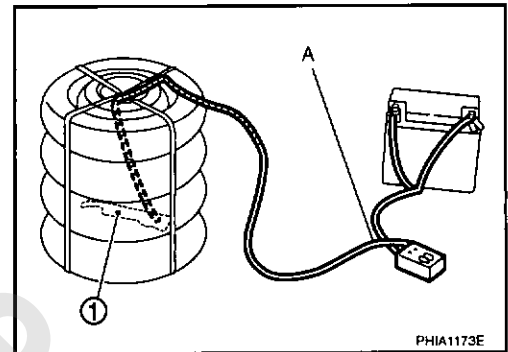
CAUTION:

Tie all tires together with a strap in order keep them standing.

5. Connect red clip of deployment tool (A) to battery positive terminal and black clip to negative terminal.
6. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
7. Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector voltage", will illuminate and the air bag module inflator (1) will deploy.

CAUTION:

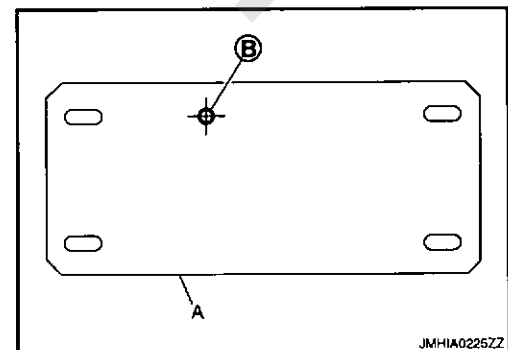
When deploying the side curtain air bag module, stand at least 5.0 m (16.4 ft) away from the side curtain air bag module.



DEPLOYMENT OF AIR BAG MODULE (OUTSIDE VEHICLE)

Deployment of Front Side Air Bag Module (Outside of Vehicle)

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



DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

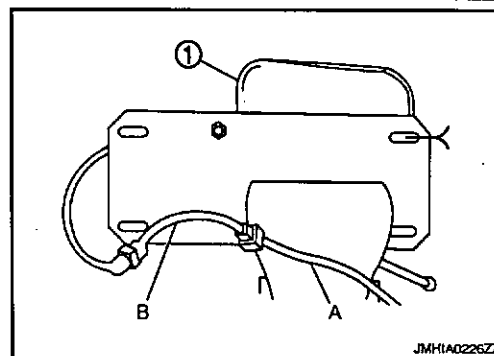
< ON-VEHICLE REPAIR >

2. Firmly secure air bag module bracket in a vise.
3. Insert one bolt through air bag module bracket and air bag module upper side holes, and fix them with one M6 bolt/nut. Insert wire through air bag module bracket and air bag module lower side holes, and fix them.

CAUTION:

Using wire, of at least 1.0 mm (0.039 in) diameter.

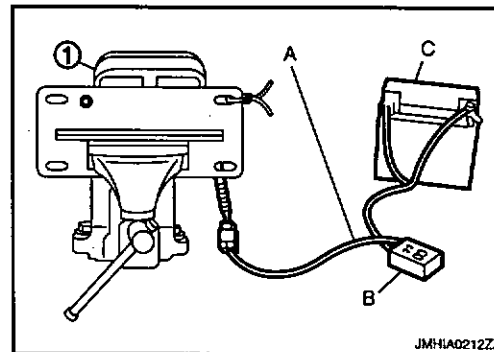
4. Connect deployment tool (SST: KV99106400) (A) and deployment tool adapter (SST: KV99109800) (B) to air bag module (1) connector.



5. Connect red clip of deployment tool (SST: KV99106400) (A),(B) to battery positive terminal and black clip to negative terminal (C).
6. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
7. Press the button on the deployment tool. The left side lamp on the tool, marked "air bag connector voltage", will illuminate and the air bag module (1) will deploy.

CAUTION:

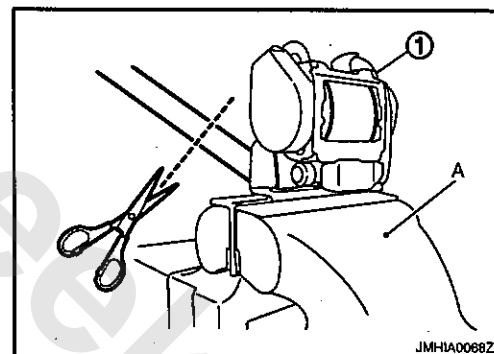
When deploying the front side air bag module, stand at least 5.0 m (16.4 ft) away from the air bag module.



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

Deployment of Front Seat Belt Pre-Tensioner (Outside of Vehicle)

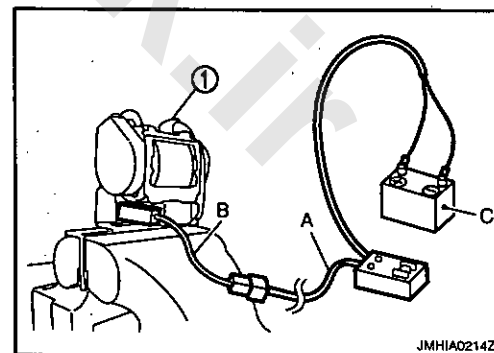
1. Firmly grip pre-tensioner (1) in a vise (A) and cut off the webbing.



2. Connect deployment tool (SST: KV99106400) (A) and deployment tool adapter (SST: KV99110500) (B) yellow connector to front seat belt pre-tensioner (1).
3. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal (C).
4. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
5. Press the button on the deployment tool. The left side lamp on the tool, marked "seat belt pre-tensioner connector voltage", will illuminate and the seat belt pre-tensioner will deploy.

CAUTION:

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



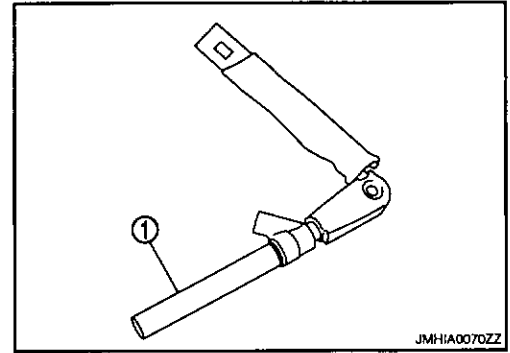
DEPLOYMENT OF SEAT BELT PRE-TENSIONER (OUTSIDE OF VEHICLE)

Deployment of Front Seat Belt Pre-Tensioner 2 (Outside of Vehicle)

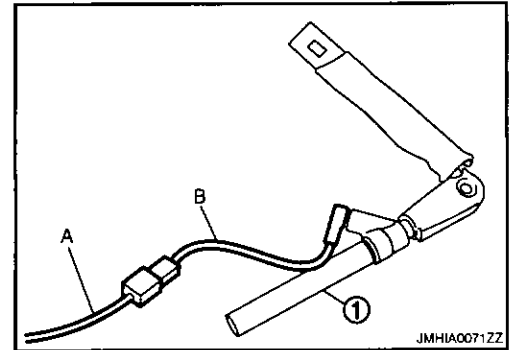
DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

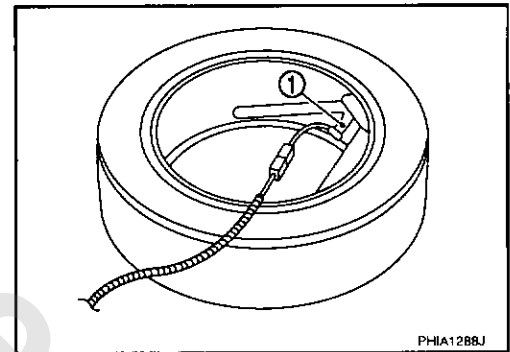
1. Disconnect the webbing of seat belt pre-tensioner 2 (1).



2. Connect deployment tool (SST: KV99106400) (A) and deployment tool adapter (SST: KV99110500) (B) orange connector to seat belt pre-tensioner 2 (1).



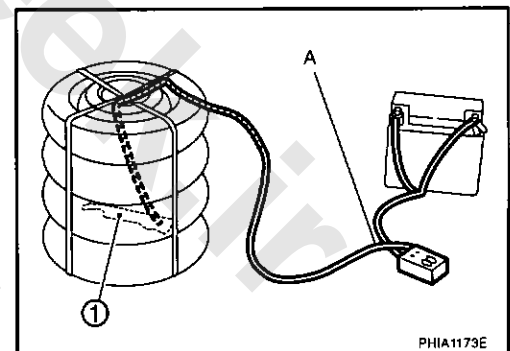
3. Put the seat belt pre-tensioner 2 (1) connected with the deployment tool into a tire without a wheel.



4. Connect red clip of deployment tool (A) to battery positive terminal and black clip to negative terminal.
5. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
6. Press the button on the deployment tool. The left side lamp on the tool, marked "seat belt pre-tensioner 2 connector voltage", will illuminate and the seat belt pre-tensioner 2 (1) will deploy.

CAUTION:

When deploying the front seat belt pre-tensioner 2, stand at least 5.0 m (16.4 ft.) away from the seat belt pre-tensioner 2.



Disposal

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DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Deployed air bag module and seat belt 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 AND SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

- Never apply water to a deployed air bag module or seat belt pre-tensioner.
- Wear gloves when handling a deployed air bag module or seat belt 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 and seat belt pre-tensioner.
- Air bag module and seat belt pre-tensioner cannot be reused.
- Wash your hands clean after finishing work.

