

A

B

C

SECTION

SR

SRS AIRBAG

D

E

CONTENTS

PRECAUTION	2	SIDE CURTAIN AIR BAG MODULE	10	F
PRECAUTIONS	2	Component	10	
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	2	Removal and Installation	10	G
Precaution for SRS "AIR BAG" and "SEAT BELT PRE-TENSIONER" Service	2	SIDE AIR BAG (SATELLITE) SENSOR	12	
PREPARATION	3	Removal and Installation	12	
PREPARATION	3	PASSENGER AIR BAG DEACTIVATION SWITCH	13	SR
Special Service Tool	3	Passenger Air Bag Deactivation Switch	13	
ON-VEHICLE REPAIR	4	FRONT SEAT BELT PRE-TENSIONER	14	I
DRIVER AIR BAG MODULE	4	Removal and Installation	14	
Removal and Installation	4	DIAGNOSIS SENSOR UNIT	15	J
SPIRAL CABLE	7	Removal and Installation	15	
Removal and Installation	7	DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER	16	K
FRONT PASSENGER AIR BAG MODULE	9	Caution for Air Bag Module and Seat Belt Pre-tensioner	16	L
Removal and Installation	9	COLLISION DIAGNOSIS	23	
		For Frontal Collision	23	M
		For Side and Rollover Collision	24	

N

O

P

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000001404297

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

WARNING:

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

Precaution for SRS "AIR BAG" and "SEAT BELT PRE-TENSIONER" Service

INFOID:000000001404298

- Do not use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pretensioner to deploy. Therefore, do not work on any SRS connectors or wires until at least 3 minutes have passed.
- The air bag diagnosis sensor unit must always be installed with the arrow mark "←" pointing toward the front of the vehicle for proper operation. Also check air bag diagnosis sensor unit for cracks, deformities or rust before installation and replace as required.
- The spiral cable must be aligned with the neutral position since its rotations are limited. Do not attempt to turn steering wheel or column after removal of steering gear.
- Handle air bag module carefully. Always place driver and front passenger air bag modules with the pad side facing upward and seat mounted front side air bag module standing with the stud bolt side facing down.
- Conduct self-diagnosis to check entire SRS for proper function after replacing any components.
- After air bag inflates, the front instrument panel assembly should be replaced if damaged.

PREPARATION

< PREPARATION >

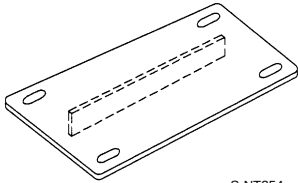
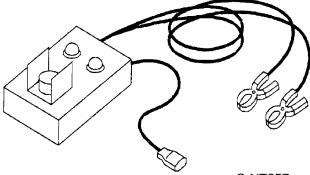
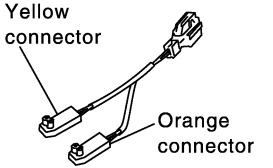
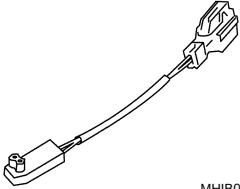
PREPARATION

PREPARATION

Special Service Tool

INFOID:000000001404303

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  S-NT354	Anchoring air bag module
KV99106400 Deployment tool  S-NT357	Disposing of air bag module and front seat belt pre-tensioner
KV99110500 - 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-tensioner2 (Orange connector) - Deployment tool adapter for front passenger air bag module (Yellow and orange connector)  PHIA0184E	- Connecting between the deployment tool and driver air bag module - Connecting between the deployment tool and front seat belt pre-tensioner - Connecting between the deployment tool and seat belt pre-tensioner2 - Connecting between the deployment tool and front passenger air bag module
KV99109800 Deployment tool adapter for front side air bag module, side curtain air bag module  MHI0112E	Connecting between the deployment tool and front side air bag module, side curtain air bag module

DRIVER AIR BAG MODULE

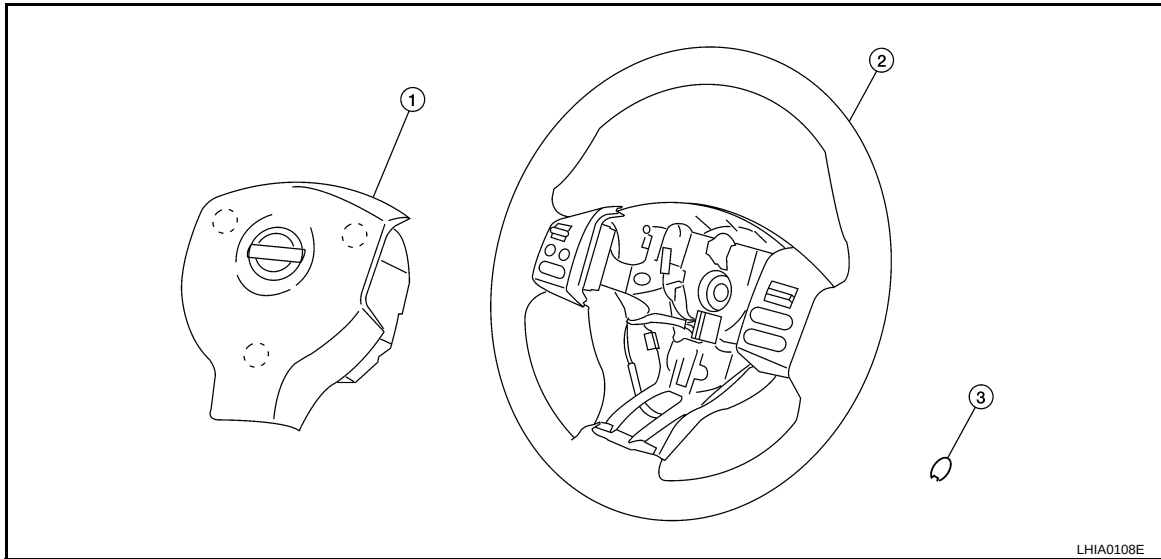
< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

DRIVER AIR BAG MODULE

Removal and Installation

INFOID:000000001404299



1. Driver air bag module

2. Steering wheel

3. Cover

○ Pawl

REMOVAL

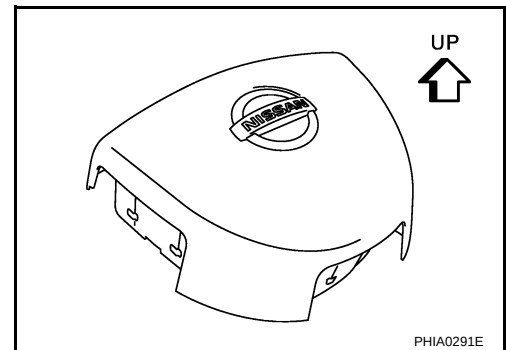
WARNING:

- When servicing the SRS, do not work from directly in front of air bag module.
- Always place air bag module with pad side facing upward.

CAUTION:

- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables, then wait at least 3 minutes.
- Do not attempt to repair or replace damaged direct-connect SRS component connectors. If a driver air bag direct-connect harness connector is damaged, the spiral cable must be replaced.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module or harness connectors.
- Do not disassemble air bag module.
- Do not expose the air bag module to temperatures exceeding 90°C (194°F).

- Replace the air bag module if it has been dropped or sustained an impact.
- Do not allow oil, grease or water to come in contact with the air bag module.



1. Disconnect the negative and positive battery cables, then wait at least 3 minutes.
2. Remove the covers RH/LH.
3. Place the steering wheel in the straight ahead position.

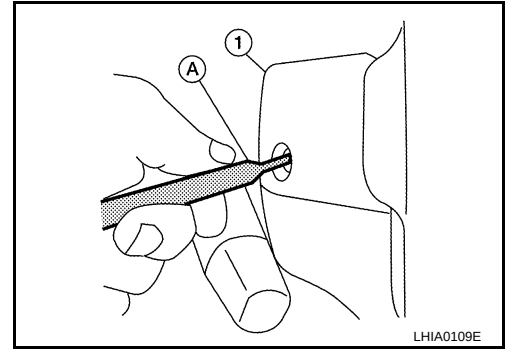
DRIVER AIR BAG MODULE

< ON-VEHICLE REPAIR >

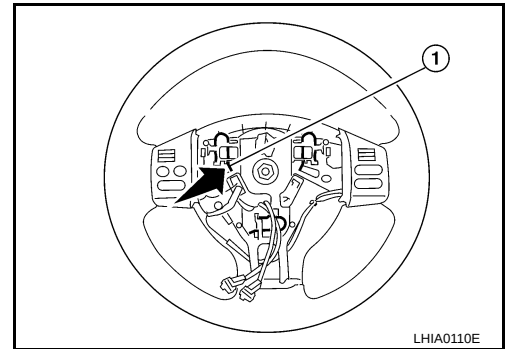
4. Release the driver air bag module retaining clips RH/LH.
- Insert suitable 4mm - 6mm blunt tool (A) through LH access hole on back side of steering wheel (1) and contact retaining clip.

CAUTION:

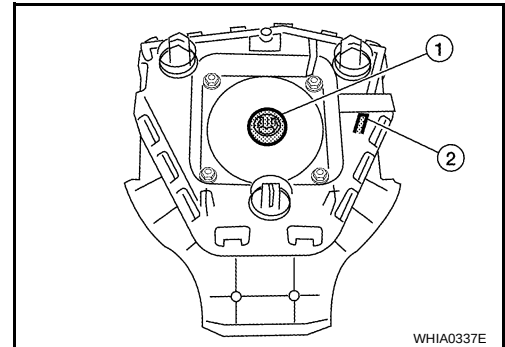
Do not use sharp edged objects such as screwdrivers to release driver air bag module from steering wheel, SRS components may be unintentionally damaged.



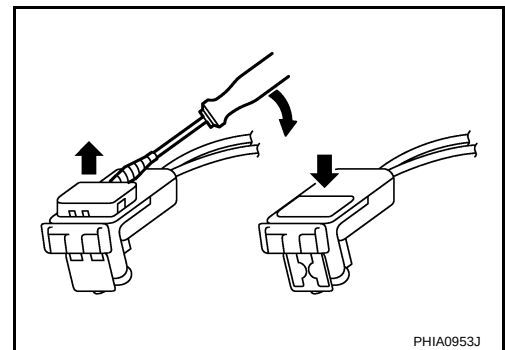
- Press tool inward with sufficient force on retaining clip (1) to release LH pawl of driver air bag module from steering wheel.
- Repeat for RH pawl of driver air bag module from steering wheel.
- Tilt top edge away from steering wheel, then lift upward releasing lower pawl of driver air bag module from steering wheel.



5. Disconnect driver air bag module connector (1) and horn connector (2).



- For removal/installation of the direct-connect SRS connectors, refer to [SRC-13, "CONSULT-III Function \(AIR BAG\)"](#).



INSTALLATION

Installation is in the reverse order of removal.

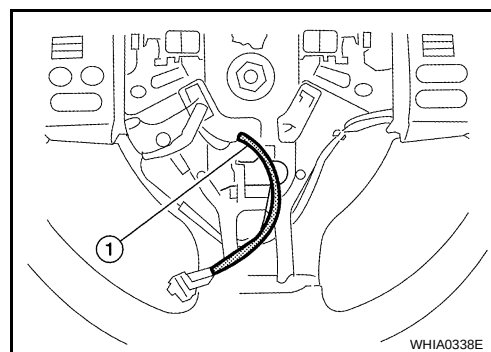
- For removal/installation of the direct-connect SRS connectors, refer to [SRC-9, "Direct-connect SRS Component Connectors"](#).
- If driver air bag module is being replaced due to deployment, spiral cable must also be replaced. Refer to [SR-7, "Removal and Installation"](#).
- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRC-11, "SRS Operation Check"](#).

CAUTION:

DRIVER AIR BAG MODULE

< ON-VEHICLE REPAIR >

- Make sure driver air bag module harness (1) is routed properly to avoid SRS component damage during installation.



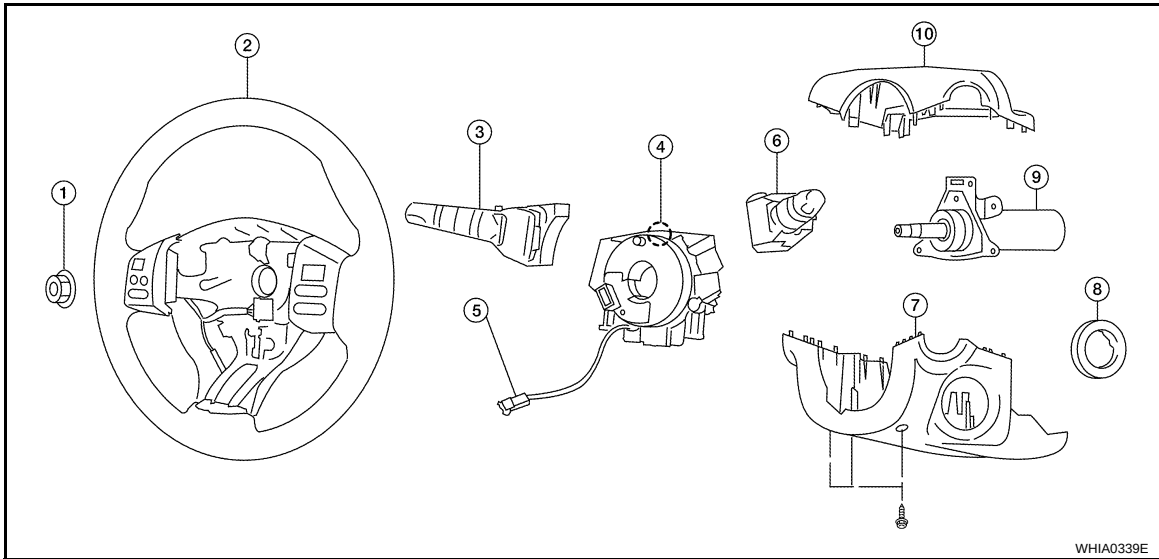
SPIRAL CABLE

< ON-VEHICLE REPAIR >

SPIRAL CABLE

Removal and Installation

INFOID:000000001404300



- | | | |
|---|-------------------------------------|------------------------------------|
| 1. Nut, refer to ST-8. "Removal and Installation" | 2. Steering wheel | 3. Lighting and turn signal switch |
| 4. Spiral cable | 5. Driver air bag module connectors | 6. Wiper and washer switch |
| 7. Column cover lower | 8. Steering lock escutcheon | 9. Steering column assembly |
| 10. Column cover upper | ○ Pawl | |

REMOVAL

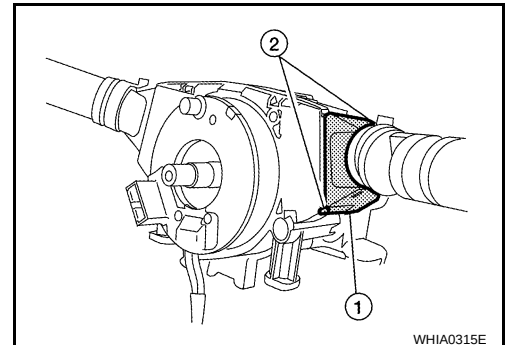
WARNING:

When servicing the SRS, do not work from directly in front of air bag module.

CAUTION:

- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
- Do not tap or bump the steering wheel.
- Do not disassemble the spiral cable.
- Do not allow oil, grease or water to come in contact with the spiral cable.
- Replace the spiral cable if it has been dropped or sustained an impact.
- With the steering linkage disconnected, the spiral cable may snap by turning the steering wheel beyond the limited number of turns. The spiral cable can be turned counterclockwise about 2.5 turns from the neutral position.

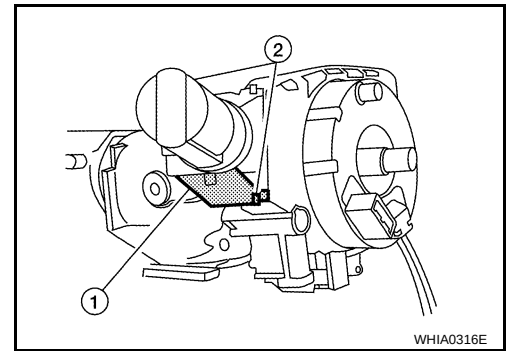
1. Disconnect the negative and positive battery cables, then wait at least 3 minutes.
2. Set the front wheels to the straight-ahead/neutral position.
3. Remove the steering wheel. Refer to [ST-8. "Removal and Installation"](#).
4. Remove the column cover upper and lower.
5. Disconnect wiper and washer switch connector (1). Then while pressing tabs (2), pull wiper and washer switch away from spiral cable to remove.



SPIRAL CABLE

< ON-VEHICLE REPAIR >

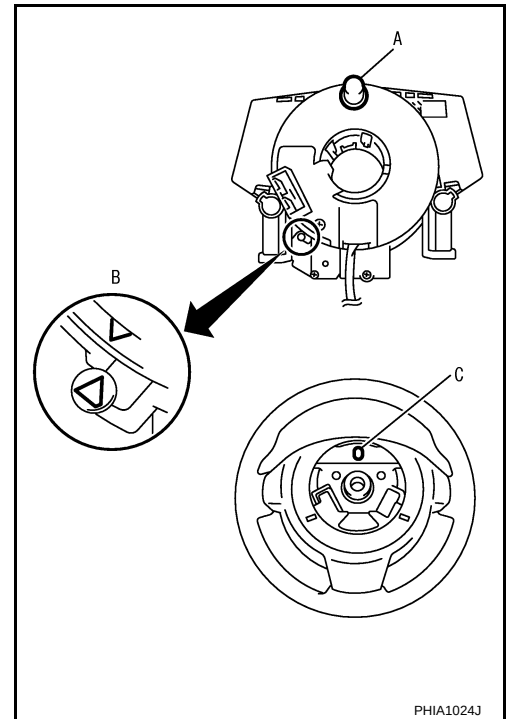
6. Disconnect lighting and turn signal switch connector (1). Then while pressing tabs (2), pull lighting and turn signal switch toward driver door to remove.
7. Remove the screws, then release the tab at the top and pull the spiral cable away from the steering column assembly.
8. Disconnect spiral cable connectors.



INSTALLATION

Installation is in the reverse order of removal.

- Align spiral cable correctly when installing steering wheel, refer to [ST-8, "Removal and Installation"](#). Make sure spiral cable alignment and centering marks (B) are matched and in the neutral position. The neutral position is detected by turning left 2.6 revolutions from the right end position, ending with the locating pin (A) at the top. Place steering wheel in straight ahead position, then install it with the locating pin hole (C) directly over spiral cable locating pin.
- After the work is completed, perform self-diagnosis to make sure no malfunction is detected. Refer to [SRC-11, "SRS Operation Check"](#).



FRONT PASSENGER AIR BAG MODULE

< ON-VEHICLE REPAIR >

FRONT PASSENGER AIR BAG MODULE

Removal and Installation

INFOID:000000001350506

REMOVAL

WARNING:

- When servicing the SRS, do not work from directly in front of air bag module.
- Always place front passenger air bag module with pad side facing upward.

CAUTION:

- Before servicing SRS, turn the ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
- Do not use old bolts after removal; replace with new bolts.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module or harness connectors.
- Do not disassemble air bag module.
- Do not expose the front passenger air bag module to temperatures exceeding 90°C (194°F).
- Replace the front passenger air bag module if it has been dropped or sustained an impact.
- Do not allow oil, grease or water to come in contact with the front passenger air bag module.

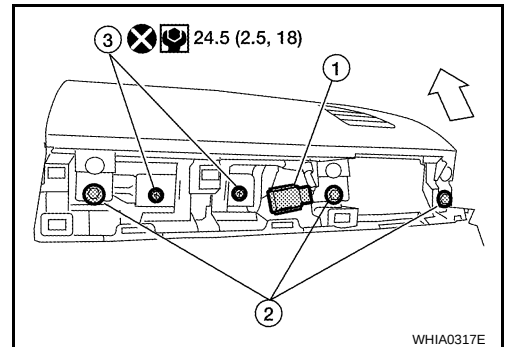


1. Disconnect the negative and positive battery cables, then wait at least 3 minutes.
2. Remove the side ventilator assembly (right). Refer to [VTL-23, "Removal and Installation"](#).
3. Disconnect front passenger air bag module connector (1) and remove the upper instrument panel assembly bolts (2).
←: Vehicle front

NOTE:

LHD shown, RHD similar

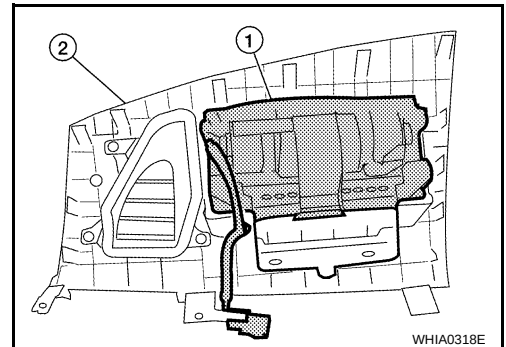
4. Remove the front passenger air bag module bolts (3) from the steering member.



5. Release the pawls and remove the front passenger air bag module (1) from the upper instrument panel assembly (2).

NOTE:

LHD shown, RHD similar



INSTALLATION

Installation is in the reverse order of removal.

- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRC-11, "SRS Operation Check"](#).

SIDE CURTAIN AIR BAG MODULE

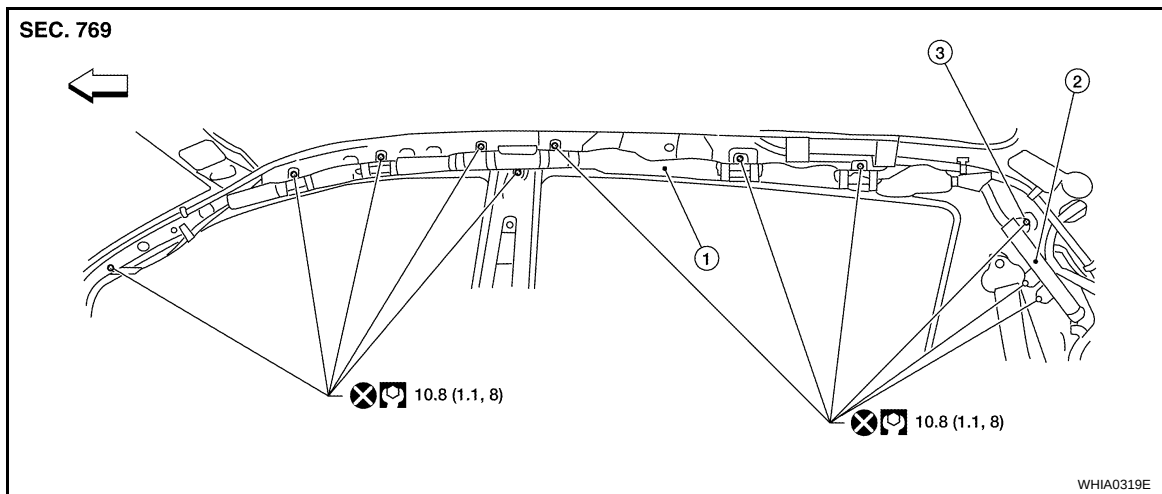
< ON-VEHICLE REPAIR >

SIDE CURTAIN AIR BAG MODULE

Component

INFOID:000000001350507

Hatchback Models



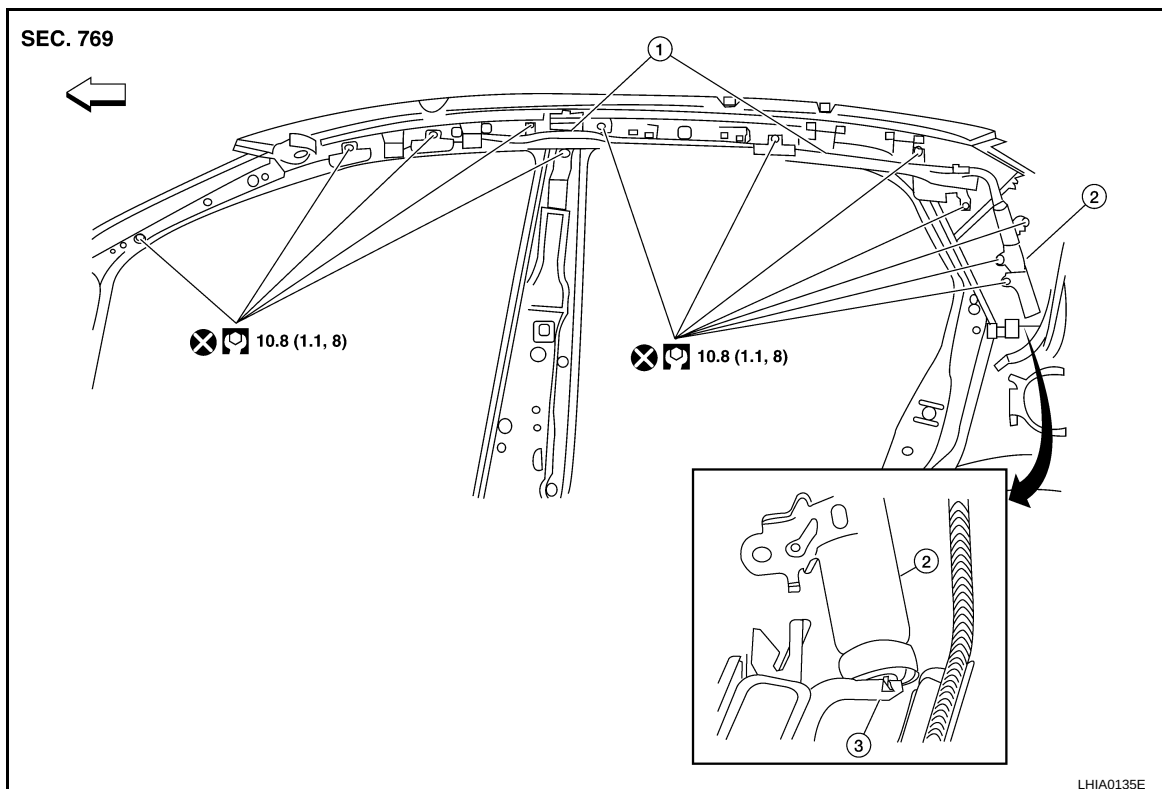
1. Side curtain air bag module

2. Inflator

3. Ground bolt

← Vehicle front

Sedan Models



1. Side curtain air bag module

2. Inflator

3. Side air bag module connector

← Vehicle front

Removal and Installation

INFOID:000000001350508

REMOVAL

WARNING:

SIDE CURTAIN AIR BAG MODULE

< ON-VEHICLE REPAIR >

- When servicing the SRS, do not work from directly in front of air bag module.
- Always place the curtain air bag module with deployment side facing upward.
- Do not reuse center pillar upper garnish if removed.

CAUTION:

- Before servicing SRS, turn the ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
- Do not use old bolts after removal; replace with new bolts.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module or harness connectors.
- Do not disassemble air bag module.
- Do not expose the side curtain air bag module to temperatures exceeding 90°C (194°F).
- Replace the side curtain air bag module if it has been dropped or sustained an impact.
- Do not allow oil, grease or water to come in contact with the side curtain air bag module.
- Do not attempt to repair or replace damaged direct-connect SRS component connectors. If a direct-connect harness connector is damaged, the harness must be replaced.

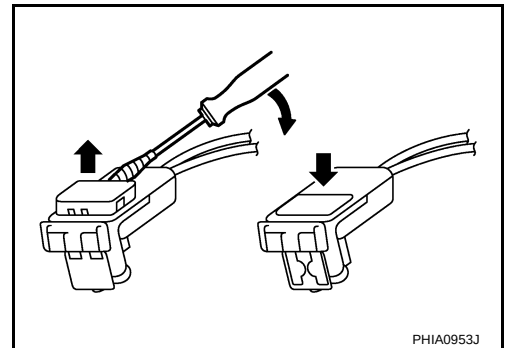


1. Disconnect both the negative and positive battery cables, then wait at least 3 minutes.
2. Remove the headlining. Refer to [INT-29, "Component"](#).
3. Disconnect side curtain air bag module connector.

NOTE:

For removal/installation of the direct-connect SRS connectors, refer to [SRC-9, "Direct-connect SRS Component Connectors"](#).

4. Remove the bolts in order starting at the rear, then remove the side curtain air bag module.



INSTALLATION

Installation is in the reverse order of removal.

- For removal/installation of the direct-connect SRS connectors, refer to [SRC-9, "Direct-connect SRS Component Connectors"](#).
- After replacement of side curtain air bag module, perform self-diagnosis to check that no malfunction is detected. Refer to [SRC-11, "SRS Operation Check"](#).

SIDE AIR BAG (SATELLITE) SENSOR

< ON-VEHICLE REPAIR >

SIDE AIR BAG (SATELLITE) SENSOR

Removal and Installation

INFOID:000000001350510

REMOVAL

WARNING:

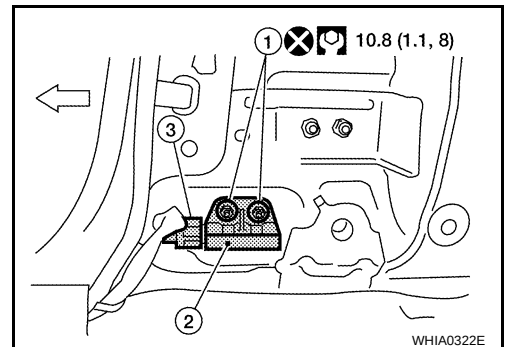
Do not reuse center pillar upper garnish if removed.

CAUTION:

- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
- Do not disassemble the side air bag (satellite) sensor.
- Do not use old nuts after removal; replace with new nuts.
- Replace the side air bag (satellite) sensor if it has been dropped or sustained an impact.
- Check side air bag (satellite) sensor to make sure it is free of deformities, dents, cracks or rust. If it shows any visible signs of damage, replace it with a new one.



1. Disconnect both the negative and positive battery cables, then wait at least 3 minutes.
2. Remove the front seat belt retractor. Refer to [SB-6, "Removal and Installation of Front Seat Belt"](#).
3. Remove the nuts (1) and remove side air bag (satellite) sensor (2).
⇐: Vehicle front
4. Disconnect the side air bag (satellite) sensor harness connector (3).



INSTALLATION

Installation is in the reverse order of removal.

- After the work is completed, perform self-diagnosis to make sure no malfunction is detected. Refer to [SRC-11, "SRS Operation Check"](#).

PASSENGER AIR BAG DEACTIVATION SWITCH

< ON-VEHICLE REPAIR >

PASSENGER AIR BAG DEACTIVATION SWITCH

Passenger Air Bag Deactivation Switch

INFOID:000000001404301

REMOVAL

CAUTION:

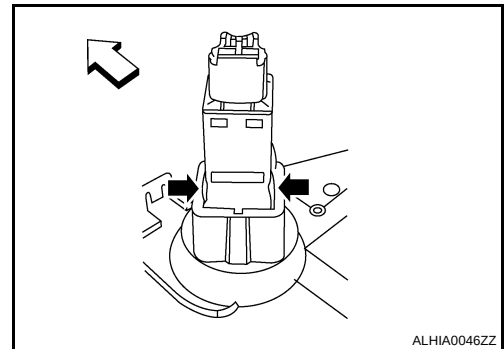
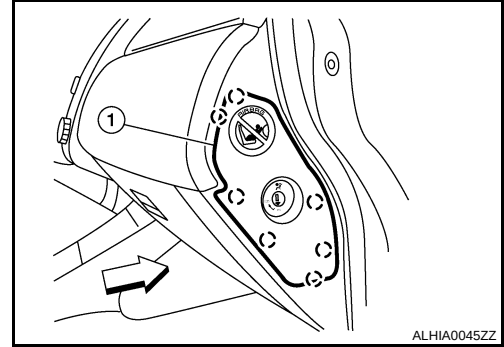
Before servicing SRS, turn ignition switch OFF, disconnect both battery cables, then wait at least 3 minutes.

1. Disconnect the negative and positive battery cables, then wait at least 3 minutes.
2. Using a suitable tool, release the instrument panel side cover (1) pawls.

NOTE:

LHD shown, RHD similar.

3. Lift the instrument panel side cover upward and away from the instrument panel to remove.
4. Disconnect the passenger air bag deactivation switch harness connector.
5. Pinch the side tabs and release switch from the instrument panel side cover to remove.



INSTALLATION

CAUTION:

Passenger air bag deactivation switch is keyed for proper installation. Improper positioning or excessive force of the switch will result in damage.

Installation is in the reverse order of removal.

NOTE:

After replacement, perform self-diagnosis for SRS. Refer to XXX.

FRONT SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

FRONT SEAT BELT PRE-TENSIONER

Removal and Installation

INFOID:000000001350511

For removal and installation procedures, refer to [SB-6, "Removal and Installation of Front Seat Belt"](#).

DIAGNOSIS SENSOR UNIT

< ON-VEHICLE REPAIR >

DIAGNOSIS SENSOR UNIT

Removal and Installation

INFOID:000000001350512

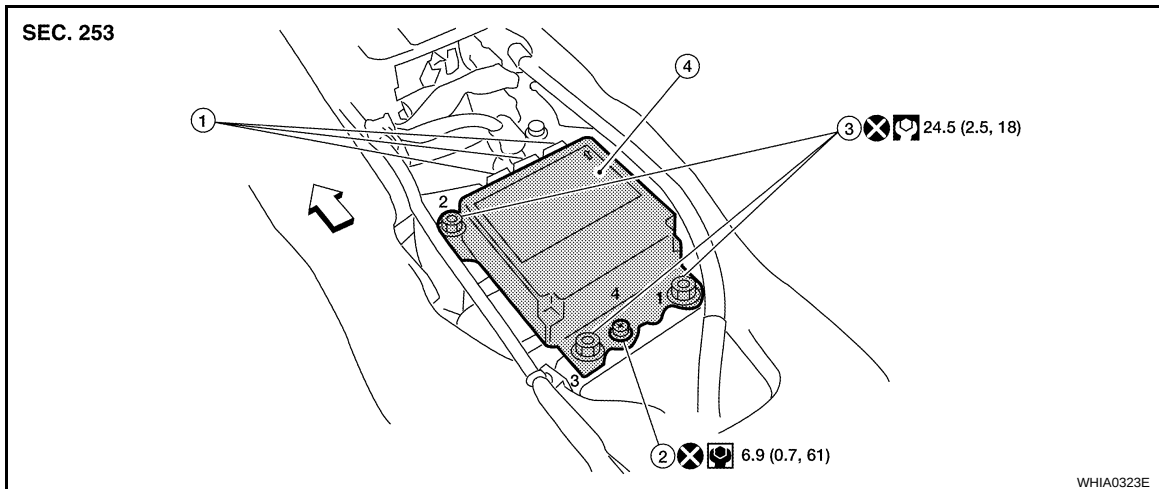
REMOVAL

WARNING:

Before disconnecting diagnosis sensor unit harness connector(s), be sure to disconnect harness connectors from air bag modules and front seat belt pre-tensioner to prevent deployment by static electricity.

CAUTION:

- Before servicing the SRS, turn the ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
- Do not disassemble diagnosis sensor unit.
- Do not use old bolts; replace with new bolts.
- Replace the diagnosis sensor unit if it has been dropped or sustained an impact.
- Check diagnosis sensor unit bracket to make sure it is free of deformities, dents, cracks or rust. If it shows any visible signs of damage, replace with new one.
- The diagnosis sensor unit must always be installed with the arrow mark "⇐" pointing toward the front of the vehicle for proper operation.



- | | | |
|-------------------------------------|-----------------|---------|
| 1. Diagnosis sensor unit connectors | 2. Ground Bolt | 3. Bolt |
| 4. Diagnosis sensor unit | ⇐ Vehicle front | |

1. Disconnect the negative and positive battery cables, then wait at least 3 minutes.
2. Disconnect the harness connectors for each air bag module and seat belt pre-tensioner. Refer to [SR-4, "Removal and Installation"](#), [SR-9, "Removal and Installation"](#), [SR-10, "Removal and Installation"](#), [SR-14, "Removal and Installation"](#).
3. Remove center console assembly. Refer to [IP-11, "Removal and Installation"](#).
4. Disconnect diagnosis sensor unit connectors.
5. Remove the bolts and the ground bolt, then remove the diagnosis sensor unit.

INSTALLATION

Installation is in the reverse order of removal.

- The diagnosis sensor unit must always be installed with the arrow mark "⇐" pointing toward the front of the vehicle.
- Follow the tightening sequence 1,2,3,4 as shown.
- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRC-11, "SRS Operation Check"](#).

ECU DISCRIMINATED NO.

After replacing the diagnosis sensor unit, confirm that the diagnosis sensor unit identification is correct for the vehicle as equipped. Refer to [SRC-13, "CONSULT-III Function \(AIR BAG\)"](#).

DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Caution for Air Bag Module and Seat Belt Pre-tensioner

INFOID:000000001404296

- 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 m (16 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 finishing work.
- Place the vehicle outdoors with an open space of at least 6 m (20 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.
- Do not dispose of the air bag module and seat belt pre-tensioner undeployed.

CHECKING DEPLOYMENT TOOL

Connecting to Battery

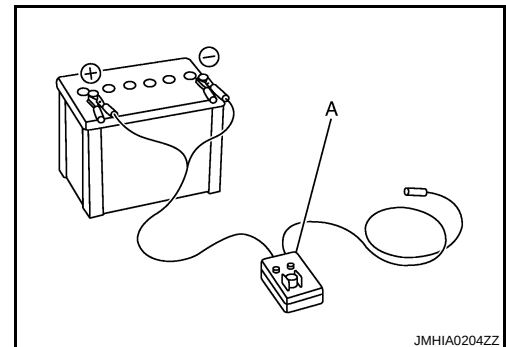
CAUTION:

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 m (16 ft) away from the vehicle.

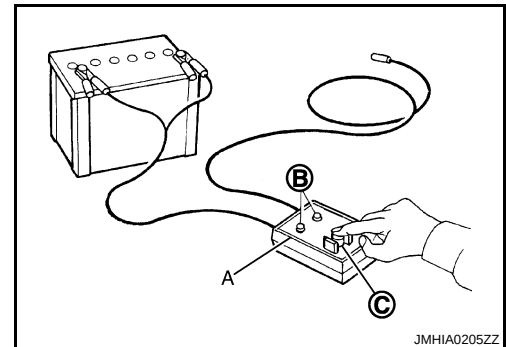
- Wait 3 minutes after the vehicle battery is disconnected before proceeding.
- Connect red clip of deployment tool (A) to battery positive terminal and black clip to negative terminal.

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

DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

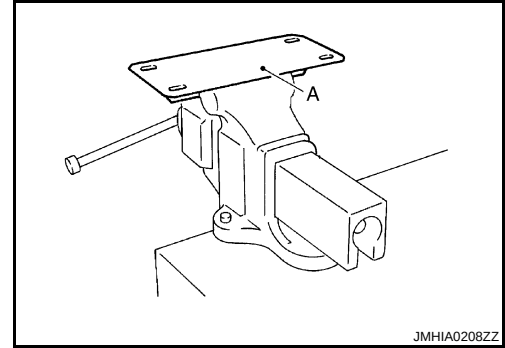
*: If this lamp glows red, the tool is connected to the battery incorrectly. Reverse the connections and check the lamp glows green.

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.

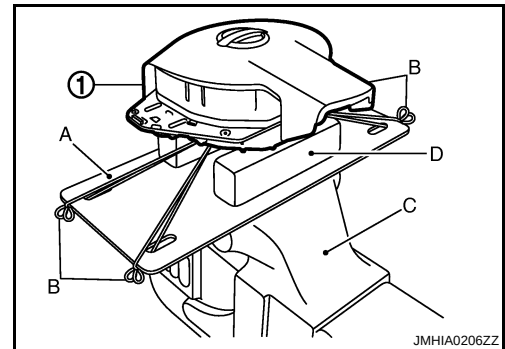


2. Using wire (B), secure air bag module (1) to air bag module bracket (SST: KV99105300) (A) at four places.

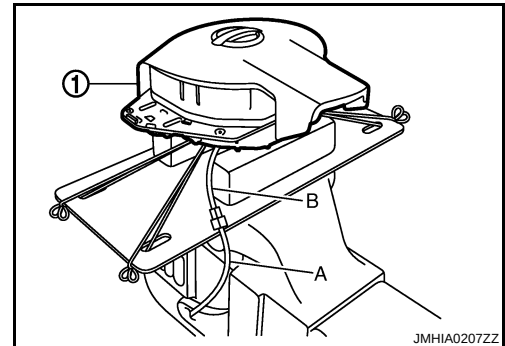
CAUTION:

- Use wire of at least 1 mm (0.04 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.

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



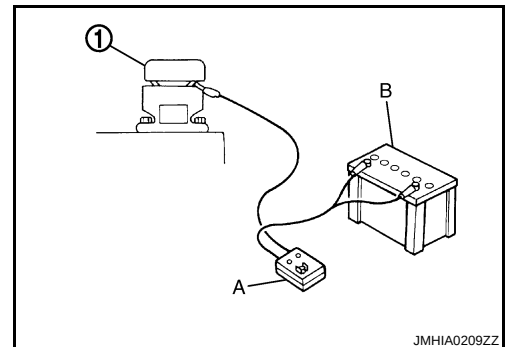
4. Connect deployment tool adapter (SST: KV99110500) (B) to air bag module (1) and deployment tool connector (SST: KV99106400) (A).



5. Connect red clip of deployment tool (A) to battery positive terminal and black clip to negative terminal (B).
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 (A). 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 m (16 ft) away from the air bag module.



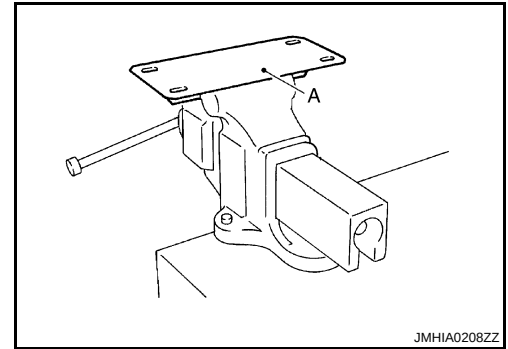
DEPLOYMENT OF AIR BAG MODULE (OUTSIDE OF VEHICLE)

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

DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

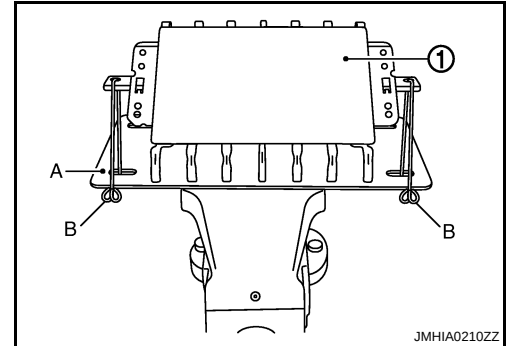
1. Firmly secure air bag module bracket (SST: KV99105300) (A) in a vise.



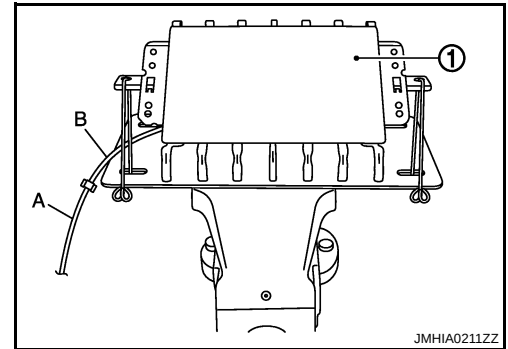
2. Using wire, secure air bag module to air bag module bracket (SST: KV99105300) (A) at two places.

CAUTION:

Use wire of at least 1 mm (0.04 in) diameter.



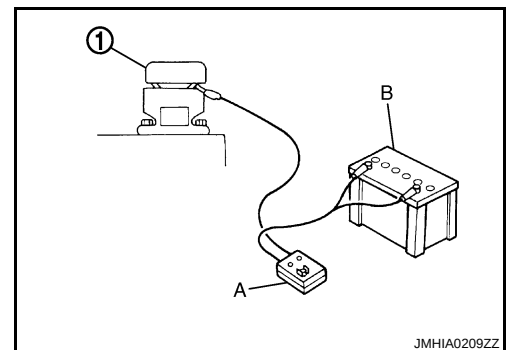
3. Connect deployment tool (SST: KV99106400) (A) and deployment tool adapter (SST: KV99110500) (B) to front passenger air bag module connector (1).



4. Connect red clip of deployment tool (A) to battery positive terminal and black clip to negative terminal (B).
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 (A). 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, do not stand on the deploying side.
- Stand at least 5 m (16 ft) away from the air bag module.



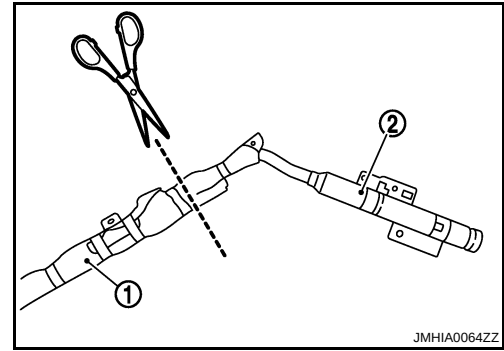
DEPLOYMENT OF AIR BAG MODULE (OUTSIDE VEHICLE)

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

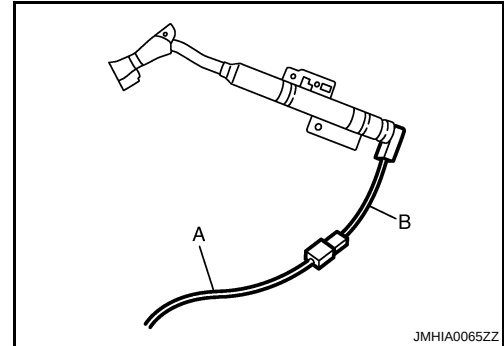
DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

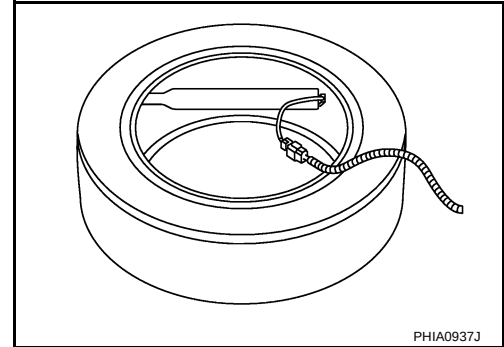
1. Cut the inflator (2) from side curtain air bag module (1).



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 a wheel. Add an additional tire without a wheel and then a tire mounted on a wheel on top.

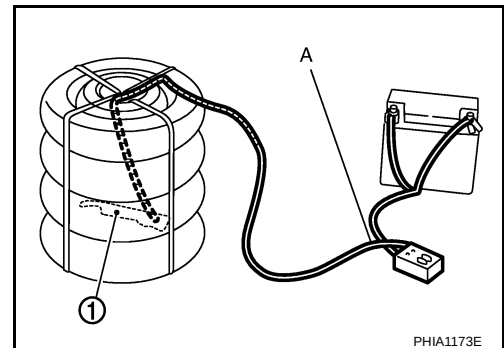
CAUTION:

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 (A). 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 m (16ft) away from the side curtain air bag module.



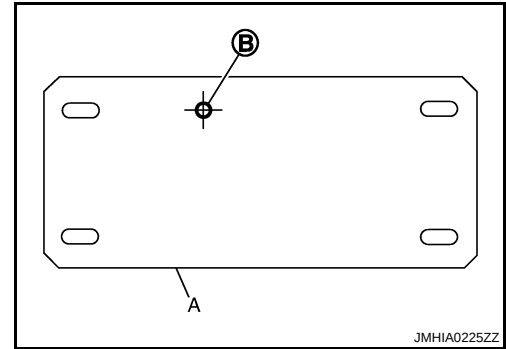
DEPLOYMENT OF AIR BAG MODULE (OUTSIDE VEHICLE)

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

DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

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

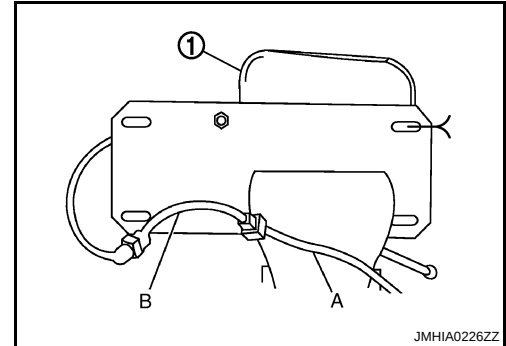


2. Firmly secure air bag module bracket in a vise.
3. Insert one bolt through air bag module bracket and air bag module upper side holes, and fix them with one M6 bolt/nut. Insert wire through air bag module bracket and air bag module lower side holes, and fix them.

CAUTION:

Using wire, of at least 1 mm (0.04 in) diameter.

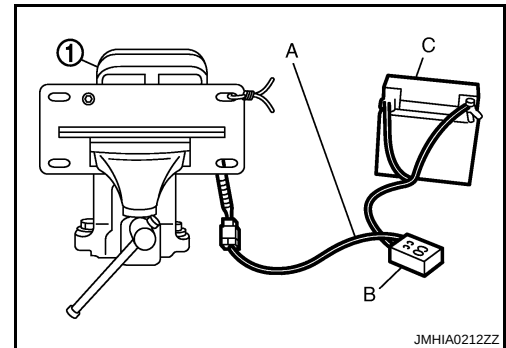
4. Connect deployment tool (SST: KV99106400) (A) and deployment tool adapter (SST: KV99109800) (B) to air bag module (1) connector.



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:

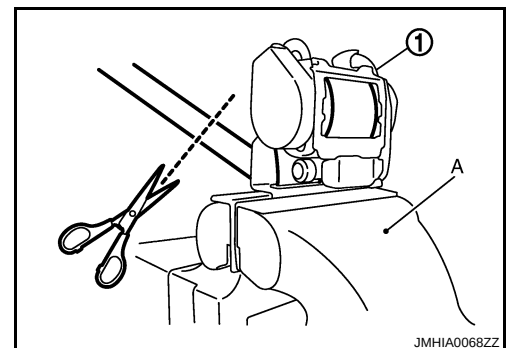
When deploying the front side air bag module, stand at least 5 m (16ft) away from the air bag module.



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.



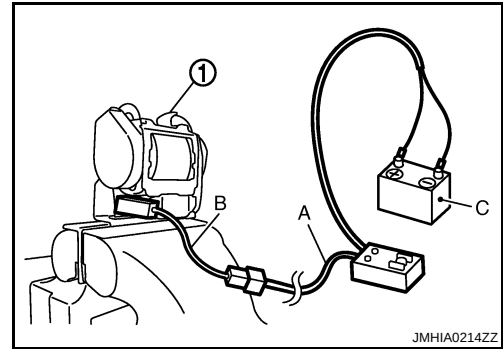
DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

2. Connect deployment tool (SST: KV99106400) (A) and deployment tool adapter (SST: 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 (1) will deploy.

CAUTION:

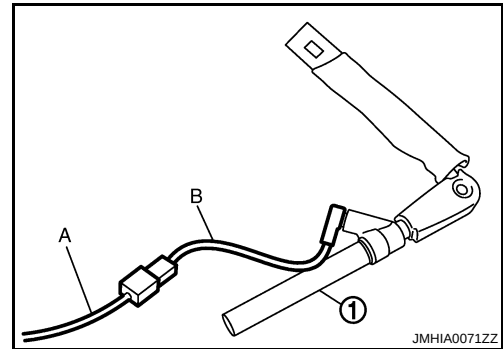
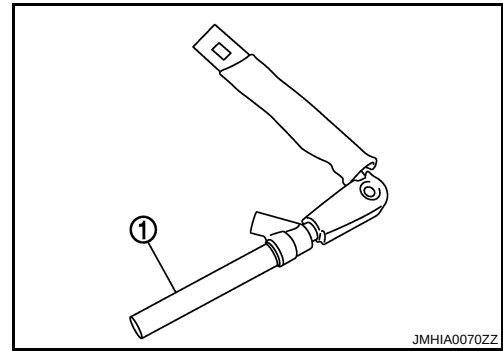
When deploying the front seat belt pre-tensioner, stand at least 5 m(16 ft) away from the seat belt pre-tensioner.



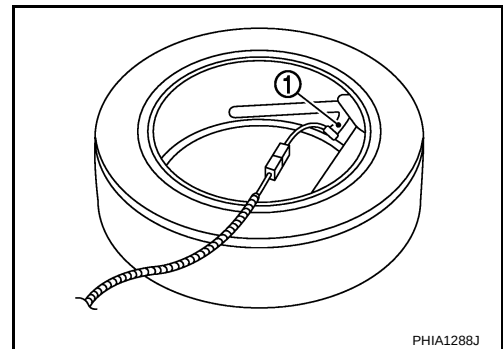
DEPLOYMENT OF SEAT BELT PRE-TENSIONER (OUTSIDE OF VEHICLE)

Deployment of Front Seat Belt Pre-Tensioner2 (Outside of Vehicle)

1. Disconnect the webbing of seat belt pre-tensioner2 (1).
2. Connect deployment tool (SST: KV99106400) (A) and deployment tool adapter (SST: KV99110500) (B) orange connector to seat belt pre-tensioner2 (1).



3. Put the seat belt pre-tensioner2 (1) connected with the deployment tool into a tire without a wheel.



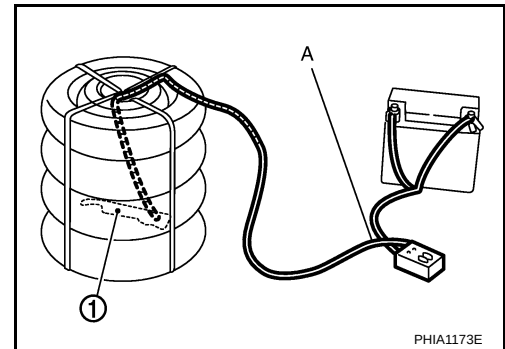
DISPOSAL OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

< ON-VEHICLE REPAIR >

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 (A). The left side lamp on the tool, marked "seat belt pre-tensioner2 connector voltage", will illuminate and the seat belt pre-tensioner2 (1) will deploy.

CAUTION:

When deploying the front seat belt pre-tensioner2, stand at least 5 m(16 ft) away from the seat belt pre-tensioner2.

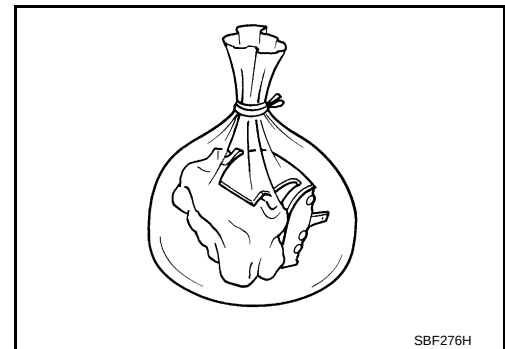


DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

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:

- 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.
- Do not 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.



COLLISION DIAGNOSIS

< ON-VEHICLE REPAIR >

COLLISION DIAGNOSIS

For Frontal Collision

INFOID:000000001350514

Check the SRS components using the following table.

- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRC-11, "SRS Operation Check"](#).

SRS INSPECTION (FOR FRONTAL COLLISION)

Part	SRS is activated	SRS is NOT activated
Driver air bag module	If the driver air bag has deployed: REPLACE Install with new fasteners.	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.
Front passenger air bag module	If the front passenger air bag has deployed: REPLACE Install with new fasteners.	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.
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-III only.	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, reel, 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-III only.	If the pre-tensioners have NOT been activated: 1. Remove seat belt pre-tensioners. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Check belts for damage and anchors for loose mounting. 3. Check retractor for smooth operation. 4. Check seat belt adjuster for damage. 5. Check for deformities of the center pillar inner. 6. If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly. 7. If no damage is found, reinstall seat belt pre-tensioner assembly. 8. If damaged— REPLACE . Install the seat belt pre-tensioners with new fasteners.
Diagnosis sensor unit	If any of the SRS components have been activated: REPLACE the diagnosis sensor unit. Install with new fasteners.	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.

COLLISION DIAGNOSIS

< ON-VEHICLE REPAIR >

Part	SRS is activated	SRS is NOT activated
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.	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. 2. Check control unit case for dents, cracks or deformities. 3. Check connectors and pressure sensor tube for damage, and terminals for deformities. 4. Check seat frame and cushion pan for dents or deformities. 5. If no damage is found, reinstall seat with new fasteners. 6. If damaged — REPLACE seat cushion assembly with new fasteners.	
Harness and connectors	1. Check connectors for poor connection, damage, and terminals for deformities. 2. Check harness for binding, chafing, cuts, or deformities. 3. If no damage is found, reinstall the harness and connectors. 4. If damaged—REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness.	
Instrument panel	If the passenger front air bag has deployed: REPLACE the 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. 3. If damaged—REPLACE the instrument panel.

For Side and Rollover Collision

INFOID:000000001350515

Check the SRS components using the following table.

- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRC-11, "SRS Operation Check"](#).

WHEN SRS IS ACTIVATED IN THE SIDE OR ROLLOVER COLLISION

1. Replace the following components:
 - Front seat back assembly (on the side on which side air bag is activated)
 - Diagnosis sensor unit
 - (LH or RH) side air bag (satellite) sensor (on the side on which side air bag is activated)
2. 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).
3. Conduct self-diagnosis using CONSULT-III and "AIR BAG" warning lamp. Refer to [SRC-11, "SRS Operation Check"](#) for details. Ensure entire SRS operates properly.

WHEN SRS IS NOT ACTIVATED IN THE SIDE OR ROLLOVER COLLISION

1. 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.
2. Conduct self-diagnosis using CONSULT-III and "AIR BAG" warning lamp. Refer to [SRC-11, "SRS Operation Check"](#) for details. Ensure entire SRS operates properly.

SRS INSPECTION (FOR SIDE AND ROLLOVER COLLISION)

COLLISION DIAGNOSIS

< ON-VEHICLE REPAIR >

Part	SRS is activated	SRS is NOT activated
LH side curtain air bag module	If the LH side curtain air bag has deployed: REPLACE the LH side curtain air bag module. (Repair the center pillar inner, etc. before installing new one if damaged.)	If the LH side curtain air bag 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 LH side curtain air bag module. 3. Check for visible signs of damaged (tears etc.) of the LH side curtain air bag module. 4. Check harness and connectors for damage, and terminals for deformities. 5. If no damage is found, reinstall the LH side curtain air bag module with new fasteners. 6. If damaged—REPLACE the LH side curtain air bag module with new fasteners.
RH side curtain air bag module	If the RH side curtain air bag has deployed: REPLACE the RH side curtain air bag module. (Repair the center pillar inner, etc. before installing new one if damaged.)	If the RH side curtain air bag 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 RH side curtain air bag module. 3. Check for visible signs of damaged (tears etc.) of the RH side curtain air bag module. 4. Check harness and connectors for damage, and terminals for deformities. 5. If no damage is found, reinstall the RH side curtain air bag module with new fasteners. 6. If damaged—REPLACE the RH side curtain air bag module with new fasteners.
Front LH side air bag module	If the front LH side air bag has deployed: REPLACE front LH seatback assembly.	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 LH seatback assembly.
Front RH side air bag module	If the front RH side air bag has deployed: REPLACE front RH seatback assembly.	If the front RH 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 RH seatback assembly.
(LH or RH) side air bag (satellite) sensor	If any of the SRS components have deployed: REPLACE the side air bag (satellite) sensor on the collision side with new fasteners. (Repair the center pillar inner, etc. before installing new one if damaged.)	If none of the SRS components have been activated: 1. Remove the side air bag (satellite) sensor 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. 3. Install the side air bag (satellite) sensor to check fit. 4. If no damage is found, reinstall the side sir bag (satellite) sensor with new fasteners. 5. If damaged—REPLACE the side air bag (satellite) sensor with new fasteners.
Diagnosis sensor unit	If any of the SRS components have deployed: REPLACE the diagnosis sensor unit with new fasteners.	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, reel, 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-III only.	If the pre-tensioners have NOT been activated: 1. Remove seat belt pre-tensioners. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. 2. Check belts for damage and anchors for loose mounting. 3. Check retractor for smooth operation. 4. Check seat belt adjuster for damage. 5. Check for deformities of the center pillar inner. 6. If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly. 7. If no damage is found, reinstall seat belt pre-tensioner assembly. 8. If damaged—REPLACE. Install the seat belt pre-tensioners with new fasteners.

A

B

C

D

E

F

G

SR

I

J

K

L

M

N

O

P

COLLISION DIAGNOSIS

< ON-VEHICLE REPAIR >

Part	SRS is activated	SRS is NOT activated
Seat (with front side air bag)	If either the front LH or front RH side air bag modules has been deployed: REPLACE front seat-back assembly on the deployed side.	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). 2. If damaged—REPAIR the center inner pillar.	
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.	