

SECTION **SR**
SRS AIRBAG

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

CONTENTS

PRECAUTION	2	Removal and Installation	8
PRECAUTIONS	2	FRONT PASSENGER AIR BAG MODULE	11
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	2	Exploded View	11
Precaution Necessary for Steering Wheel Rotation after Battery Disconnect	2	Removal and Installation	11
Precaution for Battery Service	2	SIDE CURTAIN AIR BAG MODULE	13
Service	3	Exploded View	13
Occupant Classification System	3	Removal and Installation	13
PREPARATION	4	CRASH ZONE SENSOR	15
PREPARATION	4	Exploded View	15
Commercial Service Tools	4	Removal and Installation	15
ON-VEHICLE REPAIR	5	SIDE AIR BAG (SATELLITE) SENSOR	17
DRIVER AIR BAG MODULE	5	Exploded View	17
Exploded View	5	Removal and Installation	17
Removal and Installation	5	DIAGNOSIS SENSOR UNIT	19
SPIRAL CABLE	8	Exploded View	19
Exploded View	8	Removal and Installation	19
		OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT	21
		Removal and Installation	21

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000003941277

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 AIRBAG" 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 AIRBAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:000000004051277

NOTE:

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

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the 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. Turn the push-button ignition switch to ACC position.
(At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

Precaution for Battery Service

INFOID:000000004051278

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

PRECAUTIONS

< PRECAUTION >

Service

INFOID:000000003941278

- Never use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes.
For approximately 3 minutes after the battery negative terminal is removed, it is still possible for the air bag and seat belt pre-tensioner to deploy. Therefore, never work on any SRS connectors or wires until at least 3 minutes have elapsed.
- Diagnosis sensor unit must always be installed with their arrow marks “←” pointing towards the front of the vehicle for proper operation. Also check diagnosis sensor unit for cracks, deformities, or rust before installation and replace as required.
- The spiral cable must be aligned in the neutral position since its rotations are limited. Never turn steering wheel and column after removal of steering gear.
- Handle air bag module carefully. Always place driver and 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 downward.
- Perform self-diagnosis to check entire SRS for proper function after replacing any components.
- After air bag deploys, the front instrument panel assembly should be replaced if damaged.
- Always replace instrument panel pad following front passenger air bag deployment.

Occupant Classification System

INFOID:000000003941279

- Replace occupant classification system control unit and passenger front seat cushion as an assembly. Refer to [SE-29. "Exploded View"](#).

A
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J
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PREPARATION

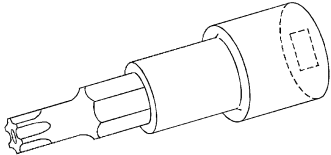
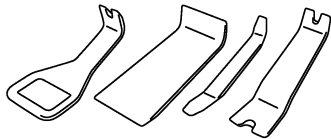
< PREPARATION >

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000003941280

Tool name	Description
<p data-bbox="181 514 451 546">Tamper resistant TORX bit</p>  <p data-bbox="841 630 893 646">S-NT757</p>	<p data-bbox="987 504 1437 562">Removes driver air bag module and/or Air bag diagnosis sensor unit</p>
<p data-bbox="181 766 321 798">Remover tool</p>  <p data-bbox="841 882 906 898">P1187923J</p>	<p data-bbox="987 766 1372 798">Removes clips, pawls, and metal clips</p>

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DRIVER AIR BAG MODULE

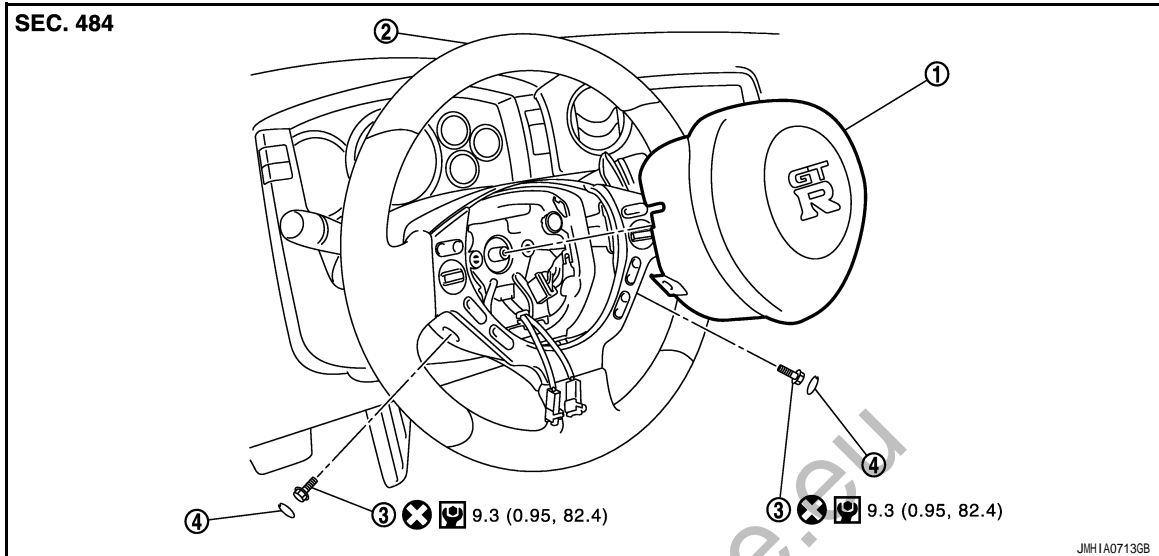
< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

DRIVER AIR BAG MODULE

Exploded View

INFOID:000000003854599



1. Driver air bag module
2. Steering wheel
3. TORX bolt (LH/RH)
4. Side lid (LH/RH)

Refer to [GI-4. "Components"](#) for symbols in the figure.

Removal and Installation

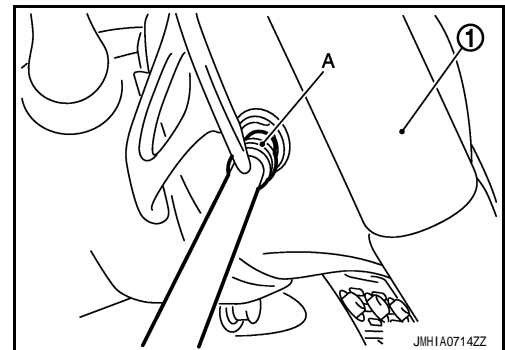
INFOID:000000003854600

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes.
- 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.

REMOVAL

1. Set the steering column to the fullest extent.
2. Remove the side lid (LH/RH).
3. Remove the TORX bolt (LH/RH) from the steering wheel (1) lower side using TORX bit (A).



4. Pull out the driver air bag module.

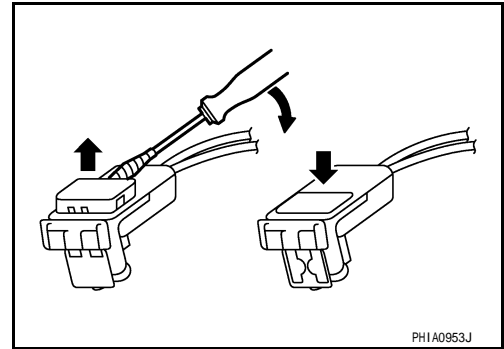
DRIVER AIR BAG MODULE

< ON-VEHICLE REPAIR >

5. Disconnect the driver air bag harness connector.

NOTE:

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

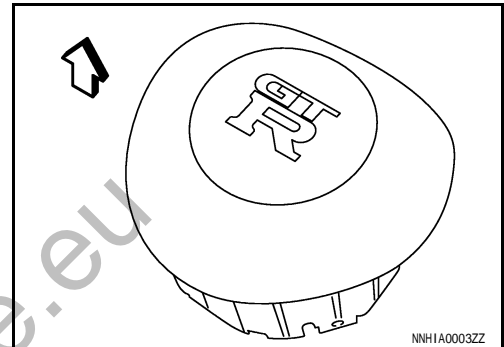


6. Remove the driver air bag module.

CAUTION:

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

↖ : Upward



- Never impact the driver air bag module.
- Replace the driver air bag module if it is dropped or sustains an impact.



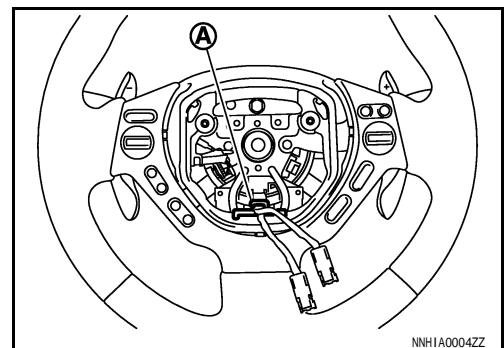
- Never insert any foreign objects (screwdriver, etc.) into driver air bag module.
- Never disassemble the driver air bag module.
- Never expose the driver air bag module to temperatures exceeding 90 °C (194 °F).
- Never allow oil, grease, detergent, or water to come in contact with the driver air bag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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never use the old TORX bolts after removal, replace with the new bolts.
- Fix the driver air bag module harness to the harness fixing hook (A).



DRIVER AIR BAG MODULE

< ON-VEHICLE REPAIR >

- Never damage the harness while installing.
- Tighten the TORX bolts after completely adjusting the centers of fixing holes on the driver air bag module side and the steering wheel side. If the holes are misaligned, the bolt threads are damaged and the module is not installed securely.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRC-13, "Diagnosis Description"](#).
- After the work is complete, check that no system malfunction is detected by air bag warning lamp.

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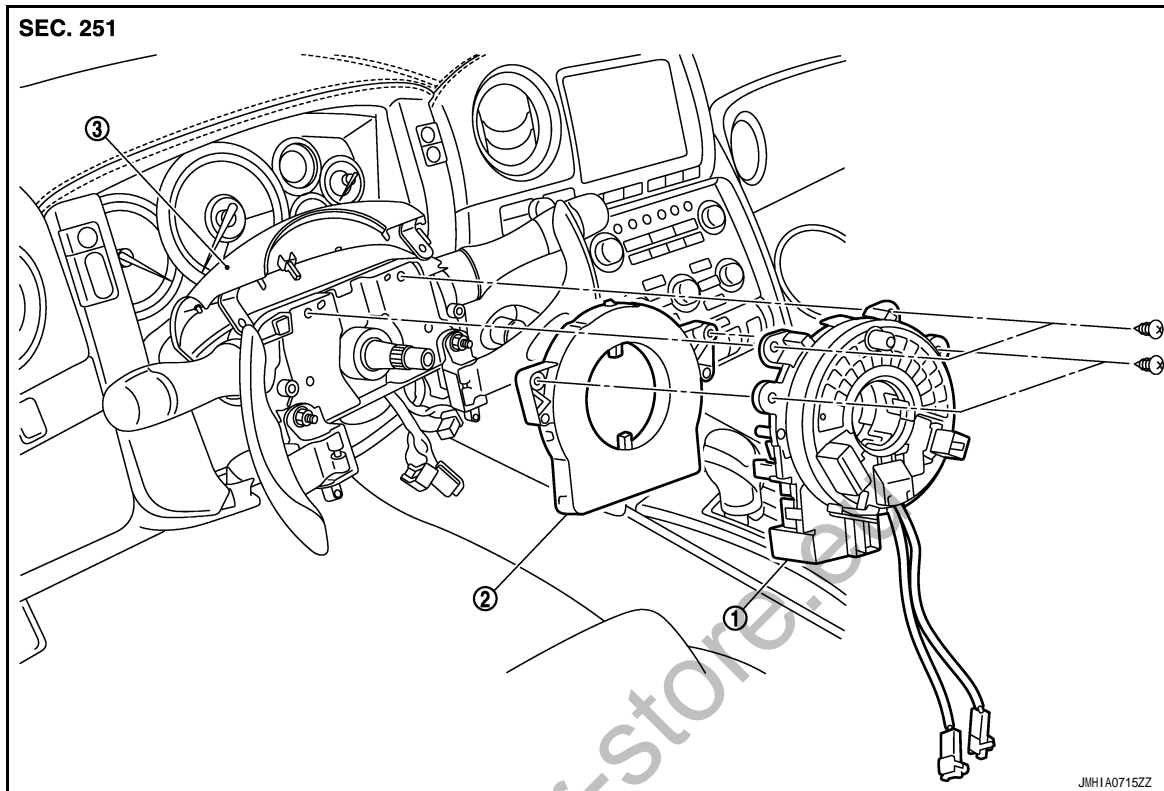
SPIRAL CABLE

< ON-VEHICLE REPAIR >

SPIRAL CABLE

Exploded View

INFOID:000000003854601



1. Spiral cable
2. Steering angle sensor
3. Steering column cover (upper)

Removal and Installation

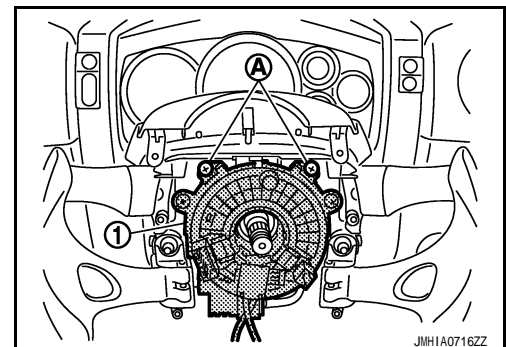
INFOID:000000003854602

WARNING:

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

REMOVAL

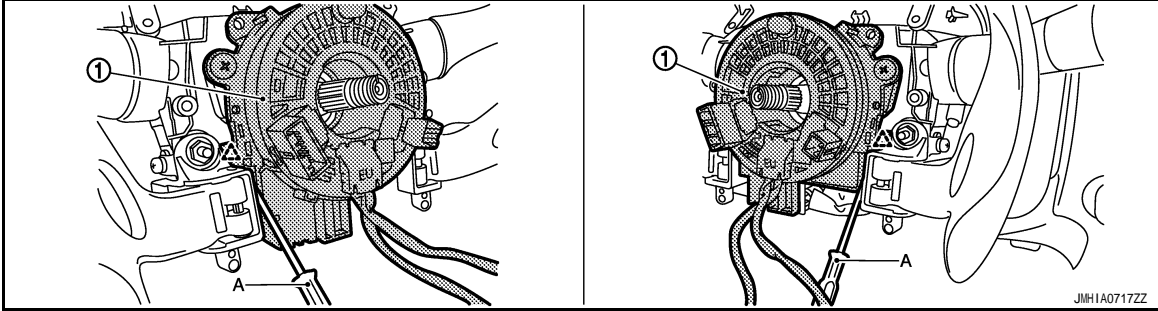
1. Set the steering column to the fullest extent.
2. Remove the driver air bag module. Refer to [SR-5, "Removal and Installation"](#).
3. Remove the steering wheel. Refer to [ST-13, "Removal and Installation"](#).
4. Remove the steering column cover. Refer to [IP-11, "Exploded View"](#).
5. Remove the spiral cable (1) mounting screws (A).




SPIRAL CABLE

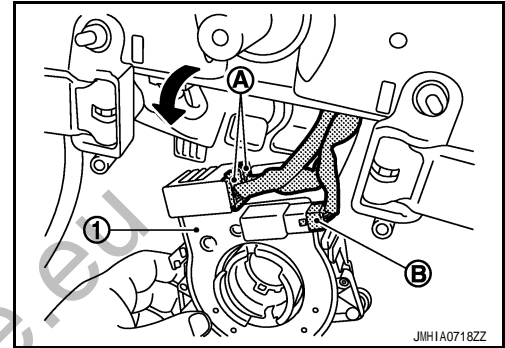
< ON-VEHICLE REPAIR >

6. Remove the spiral cable (1) fixing pawls with remover tool (A).



 : Pawl

7. Pull the spiral cable (1), and then disconnect the spiral cable harness connectors (A) and steering angle sensor harness connector (B).
8. Remove the spiral cable.



CAUTION:

- Never impact the spiral cable.
- Replace the spiral cable if it is dropped or sustains 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

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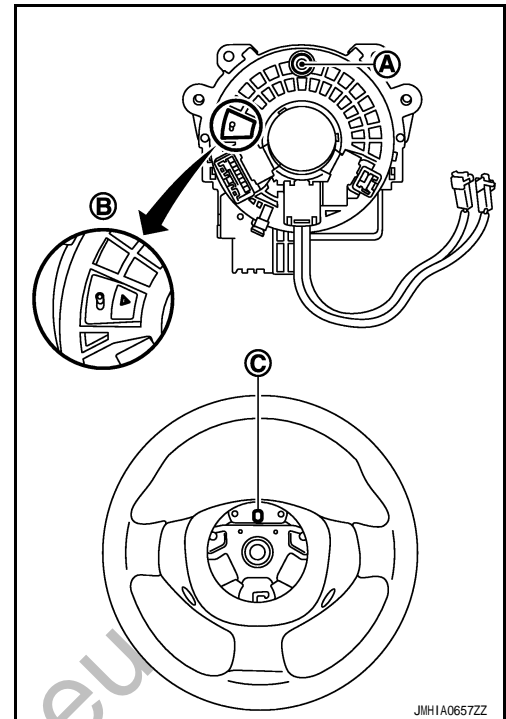
SPIRAL CABLE

< ON-VEHICLE REPAIR >

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 mark (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 causes the cable to snap)
- Adjust the spiral cable locating pin (A) to the steering wheel locating pin hole (C).



JMH1A0657ZZ

- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRC-13, "Diagnosis Description"](#).
- After the work is complete, check that no system malfunction is detected by air bag warning lamp.

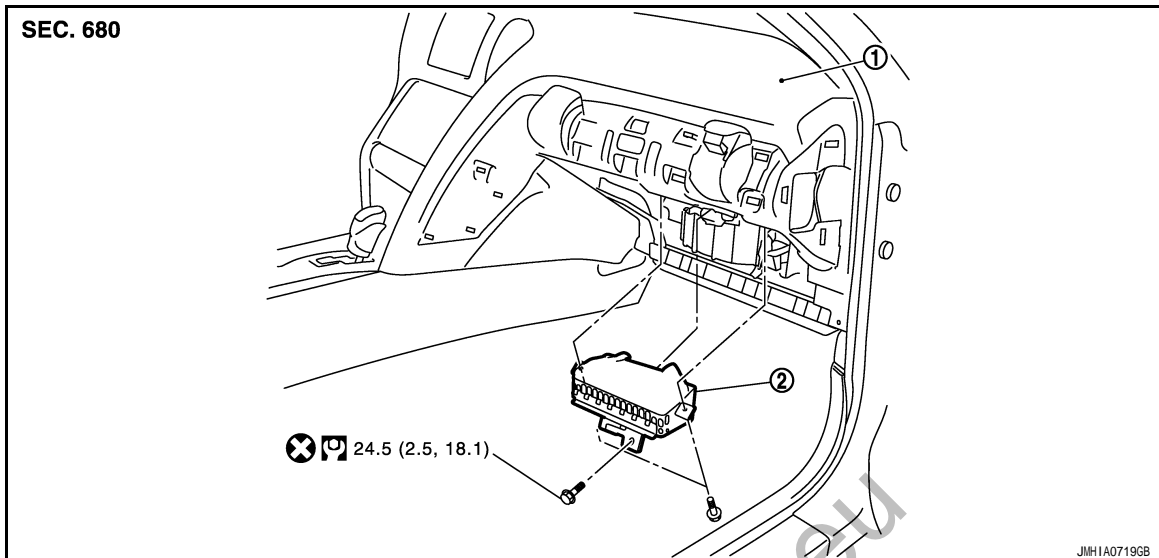
FRONT PASSENGER AIR BAG MODULE

< ON-VEHICLE REPAIR >

FRONT PASSENGER AIR BAG MODULE

Exploded View

INFOID:000000003854603



1. Instrument panel assembly
2. Passenger air bag module

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

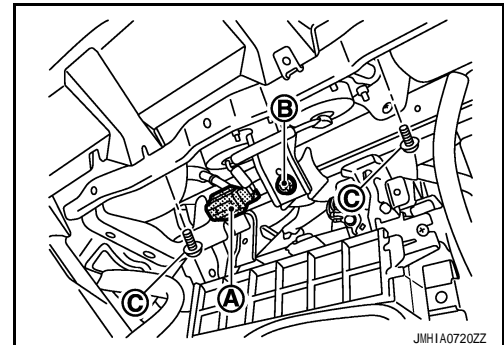
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WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes.
- 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.

REMOVAL

1. Remove the glove box assembly. Refer to [IP-12, "Removal and Installation"](#).
2. Remove the passenger instrument panel (lower). Refer to [IP-12, "Removal and Installation"](#).
3. Disconnect the passenger air bag harness connector (A).
4. Remove the passenger air bag module mounting bolt (B) and screws (C).



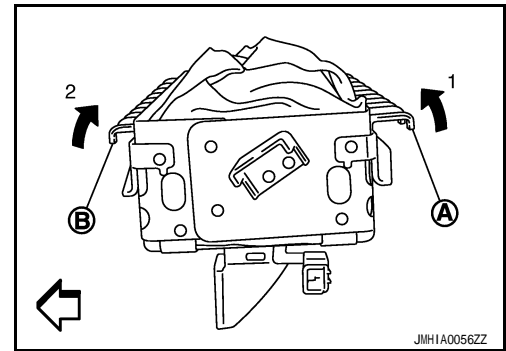
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I
J
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M
N
O
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FRONT PASSENGER AIR BAG MODULE

< ON-VEHICLE REPAIR >

5. Disengage the metal clips (A) and (B), and then remove the passenger air bag module.
- Rotate the metal clips (A) toward vehicle front to remove.
 - Rotate the metal clips (B) toward vehicle rear to remove.

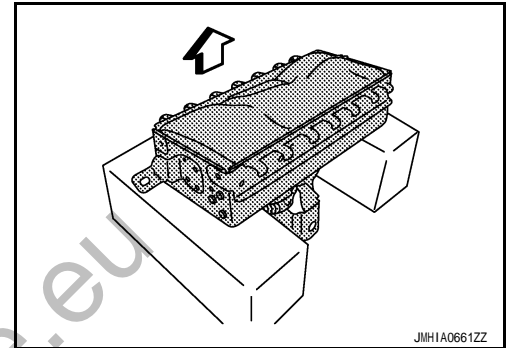
⇐ : Vehicle front



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 is dropped or sustains an impact.



- Never insert any foreign objects (screwdriver, etc.) into passenger air bag module.
- Never disassemble the passenger air bag module.
- Never expose the passenger 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 or CONSULT-III. Refer to [SRC-13, "Diagnosis Description"](#).
- After the work is complete, check that no system malfunction is detected by air bag warning lamp.

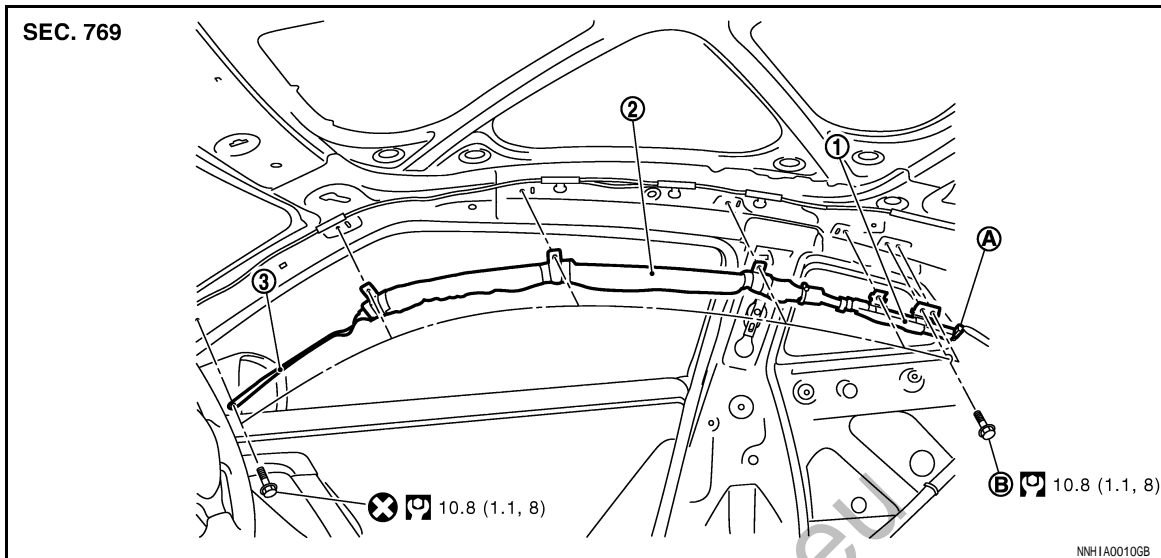
SIDE CURTAIN AIR BAG MODULE

< ON-VEHICLE REPAIR >

SIDE CURTAIN AIR BAG MODULE

Exploded View

INFOID:000000003854607



- | | | |
|-----------------------------|---------------------------|----------|
| 1. Curtain air bag inflator | 2. Curtain air bag module | 3. Strap |
| A. Curtain air bag harness | B. Ground bolt | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000003854608

WARNING:

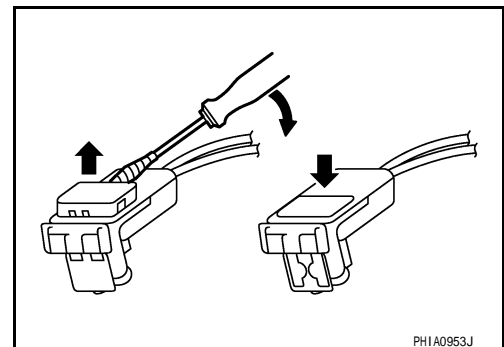
- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes.
- Never use the air tools or electric tools for servicing.

REMOVAL

1. Remove the headlining assembly. Refer to [INT-22, "Removal and Installation"](#).
2. Disconnect the curtain air bag harness connector.

NOTE:

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



3. Remove the mounting bolt, and then remove the 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 is dropped or sustains an impact.



- Never insert any foreign objects (screwdriver, etc.) into side curtain air bag module.
- Never disassemble side curtain air bag module.
- Never expose the side curtain 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:

- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRC-13, "Diagnosis Description"](#).
- After the work is complete, check that no system malfunction is detected by air bag warning lamp.

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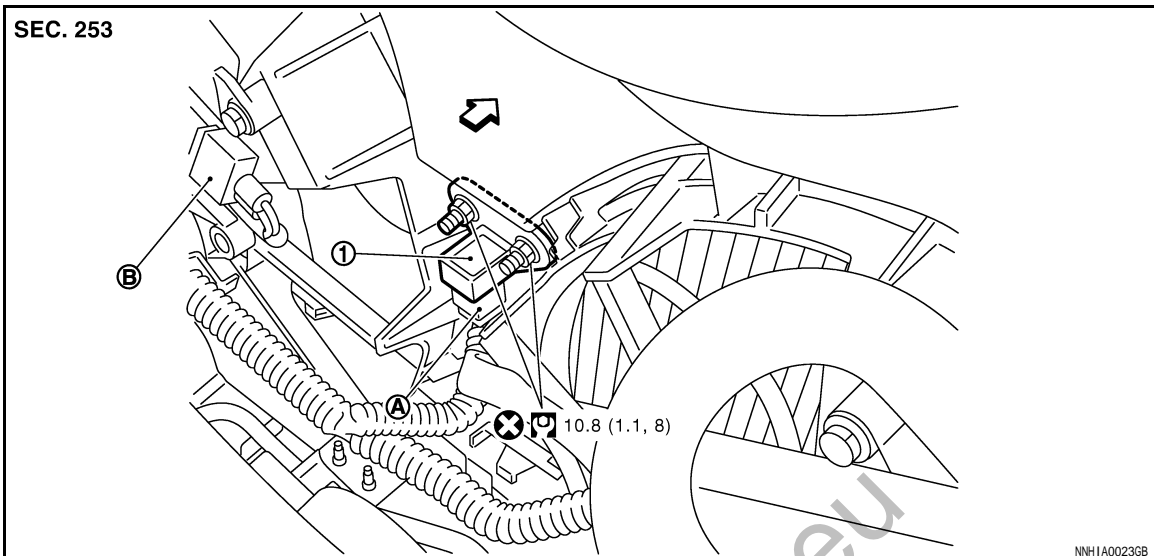
CRASH ZONE SENSOR

< ON-VEHICLE REPAIR >

CRASH ZONE SENSOR

Exploded View

INFOID:000000003854609



- 1. Crash zone sensor
- A. Crash zone sensor harness connector
- B. Cooling fan motor

↔ : Vehicle front

Refer to [GI-4. "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000003854610

WARNING:

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

REMOVAL

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

CAUTION:

- Never impact the crash zone sensor.
- Replace the crash zone sensor if it is dropped or sustains 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.

CRASH ZONE SENSOR

< ON-VEHICLE REPAIR >

CAUTION:

- Never use old fixing nuts after removal, replace with new nuts.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRC-13, "Diagnosis Description"](#).
- After the work is complete, check that no system malfunction is detected by air bag warning lamp.

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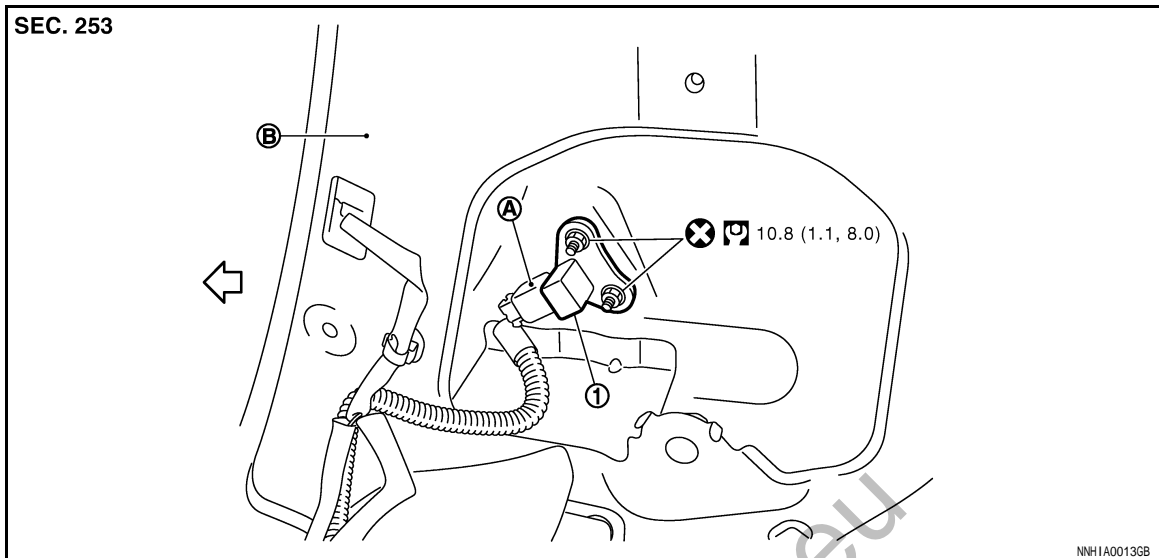
SIDE AIR BAG (SATELLITE) SENSOR

< ON-VEHICLE REPAIR >

SIDE AIR BAG (SATELLITE) SENSOR

Exploded View

INFOID:000000003854611



- 1. Satellite sensor
- A. Satellite sensor harness connector
- B. Center pillar inner panel

← : Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000003854612

WARNING:

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

REMOVAL

1. Remove the front seat belt retractor. Refer to [SB-6, "SEAT BELT RETRACTOR : Removal and Installation"](#).
2. Disconnect the satellite sensor harness connector.
3. Remove the satellite sensor mounting nut, and then remove the satellite sensor.

CAUTION:

- Never impact the side air bag (satellite) sensor.
- Replace the side air bag (satellite) sensor if it is dropped or sustains 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.

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

SIDE AIR BAG (SATELLITE) SENSOR

< ON-VEHICLE REPAIR >

CAUTION:

- Never use the old fixing nuts after removal, replace with the new nuts.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRC-13, "Diagnosis Description"](#).
- After the work is complete, check that no system malfunction is detected by air bag warning lamp.

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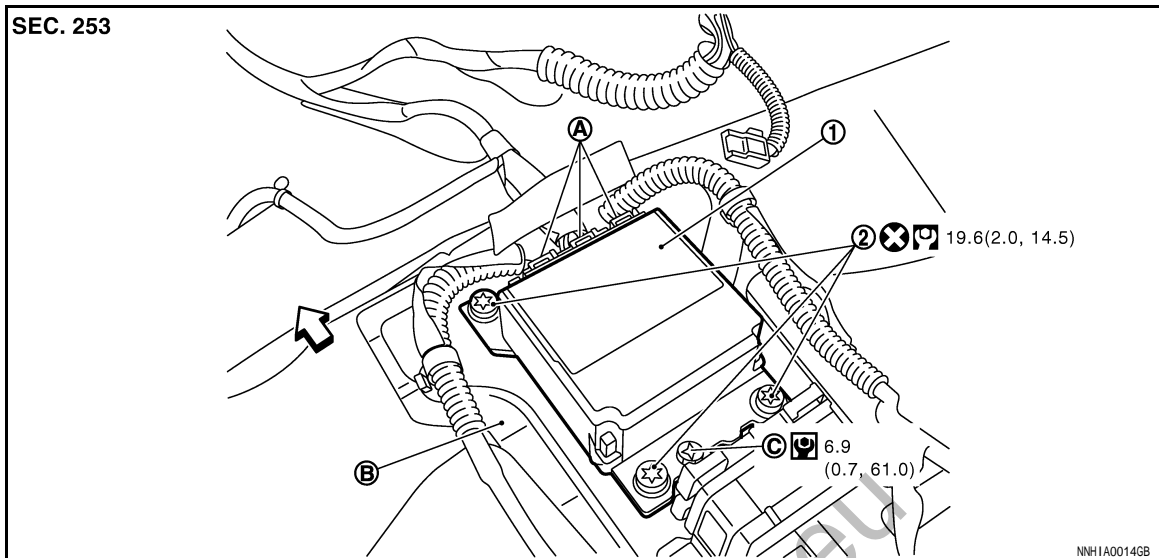
DIAGNOSIS SENSOR UNIT

< ON-VEHICLE REPAIR >

DIAGNOSIS SENSOR UNIT

Exploded View

INFOID:000000003854614



- | | | |
|--|-----------------------|----------------|
| 1. Diagnosis sensor unit | 2. TORX bolt | |
| A. Diagnosis sensor unit harness connector | B. Floor panel center | C. Ground bolt |

↔ : Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000003854615

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes.
- Before disconnecting the diagnosis sensor unit harness connector, always disconnect 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.

REMOVAL

1. Disconnect the each harness connector for air bag module and seat belt pre-tensioner.
2. Remove the rear console assembly. Refer to [IP-21, "Exploded View"](#).
3. Disconnect the diagnosis sensor unit harness connector.
4. Remove the TORX bolt and the ground bolt, and then remove the diagnosis sensor unit.

CAUTION:

- Never impact the diagnosis sensor unit.
- Replace the diagnosis sensor unit if it is dropped or sustains an impact.



DIAGNOSIS SENSOR UNIT

< ON-VEHICLE REPAIR >

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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never use the old fixing bolts after removal; replace with the new fixing bolts.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRC-13, "Diagnosis Description"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

ECU DISCRIMINATION NO.

After replacing the diagnosis sensor unit, check that the diagnosis sensor unit identification is correct for the vehicle as equipped.

Specification	ECU DISCRIMINATION No.
Models with driver air bag, passenger air bag, side air bag and curtain air bag	FA23
Models with driver air bag and passenger air bag	FA22

OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

< ON-VEHICLE REPAIR >

OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

Removal and Installation

INFOID:000000003947608

For removal and installation

The occupant classification system control unit and seat sensor mat are an integral part of the front passenger seat cushion and are replaced as an assembly. Refer to [SE-29, "Exploded View"](#).

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

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