SECTION SRS SUPPLEMENTAL RESTRAINT SYSTEM (SRS) С

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PRECAUTIONS

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

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 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 SRS 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 harness connectors.

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

- 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 pre-tensioner to deploy. Therefore, do not work on any SRS connectors or wires until at least 3 minutes have passed.

- The diagnosis sensor unit must always be installed with the arrow mark "
 "
 " pointing toward 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 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.

Trouble Diagnosis Precaution

When you read wiring diagrams, refer to the following:

- GI-12, "How to Read Wiring Diagrams" in GI section
- PG-3, "POWER SUPPLY ROUTING CIRCUIT" in PG section

When you perform trouble diagnosis, refer to the following:

- GI-10, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES" in GI section
- GI-25, "How to Perform Efficient Diagnosis for an Electrical Incident" in GI section

Check for any service bulletins before servicing the vehicle.

PREPARATION

PREPARATION

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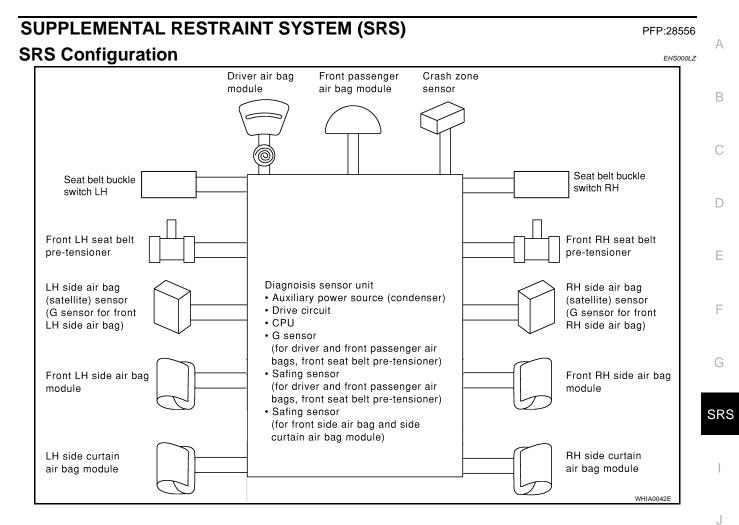
Special Service Tool

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

| Tool number (Kent-Moore No.) Tool name | | Description |
|--|------------------|--|
| KV99105300 (J41246) Air bag module bracket | S-NT354 | Anchoring air bag module |
| KV99106400 (J38381) Deployment tool | S-NT357 | Disposing of air bag modules and front seat belt pre-tensioners |
| (J38381-80) Deployment tool adapter for front driver air bag module, side curtain air bag module and front seat belt pre-tensioner | WHIA0089E | Connection between the deployment tool and front driver air bag module, side curtain air bag module and front seat belt pre-ten- sioner |
| (J38381-65) Deployment tool adapter for front passenger air bag module (service replacement) | SHIA0173E | Connection between the deployment tool and front passenger air bag module (service replacement) |
| KV99109000 (J44230) Deployment tool adapter for front side air bag module | ZZA1190D | Connection between the deployment tool and front side air bag module |
| (J44615) Air bag lock master key set | R R LRS210 | Removing and installing air bag lock |

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)



The air bag deploys if the diagnosis sensor unit activates while the ignition switch is in the ON or START position.

The collision modes for which supplemental restraint systems are activated are different among the SRS systems. For example, the driver air bag module and front passenger air bag module are activated in a frontal collision but not in a side collision.

SRS configurations which are activated for some collision modes are as follows;

| SRS configuration | Frontal collision | Left side collision | Right side collision |
|----------------------------------|-------------------|---------------------|----------------------|
| Driver air bag module | × | _ | — |
| Front passenger air bag module | × | _ | — |
| Front LH seat belt pre-tensioner | × | _ | — |
| Front RH seat belt pre-tensioner | × | _ | — |
| Front LH side air bag module | - | × | — |
| Front RH side air bag module | _ | _ | × |
| LH side curtain air bag module | - | × | — |
| RH side curtain air bag module | _ | _ | × |

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Front Seat Belt Pre-tensioner with Load Limiter

The seat belt pre-tensioner system with load limiter is installed for both the driver's seat and the front passenger's seat. It operates simultaneously with the SRS air bag system in the event of a frontal collision with an impact exceeding a specified level.

When the frontal collision with an impact exceeding a specified level occurs, seat belt slack resulting from clothing or other factors is immediately taken up by the pre-tensioner. Vehicle passengers are securely restrained.

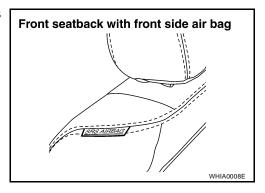
When passengers in a vehicle are thrown forward in a collision and the restraining force of the seat belt exceeds a specified level, the load limiter permits the specified extension of the seat belt by the twisting of the ELR shaft, and a relaxation of the chest-area seat belt web tension while maintaining force.

Front Side Air Bag

Front side air bag is built-in type.

The front seatbacks with built-in type side air bag have the labels as shown.

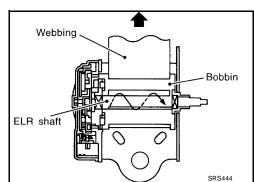
EHS000M1



Side Curtain Air Bag

The side curtain air bags have the labels as shown.





EHS000M0

SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

Direct-connect SRS Component Connectors EHS000M3 А The following SRS components use direct-connect style harness connectors. Driver air bag module Front passenger air bag module В LH side curtain air bag module RH side curtain air bag module Front LH seat belt pre-tensioner Front RH seat belt pre-tensioner Always pull up to release black locking tab prior to removing connector from SRS component. Always push down to lock black locking tab after installing connector D to SRS component. When locked, the black locking tab is level with UNLOCK LOCK the connector housing. = Е F

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After

Insertion

Before Insertion

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Trouble Diagnoses Introduction

CAUTION:

- 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 harness connectors.
- Do not attempt to repair, splice or modify the SRS wiring harness. If the harness is damaged, replace it with a new one.
- Keep ground portion clean.

DIAGNOSIS FUNCTION

The SRS self-diagnosis results can be read by using "AIR BAG" warning lamp and/or CONSULT-II.

The User mode is exclusively prepared for the customer (driver). This mode warns the driver of a system malfunction through the operation of the "AIR BAG" warning lamp.

The Diagnosis mode allows the technician to locate and inspect the malfunctioning part.

The mode applications for the "AIR BAG" warning lamp and CONSULT-II are as follows:

| | User mode | Diagnosis mode | Display type |
|------------------------|-----------|----------------|------------------|
| "AIR BAG" warning lamp | Х | Х | ON-OFF operation |
| CONSULT-II | _ | Х | Monitoring |

HOW TO PERFORM TROUBLE DIAGNOSES FOR QUICK AND ACCURATE REPAIR

A good understanding of the malfunction conditions can make troubleshooting faster and more accurate. In general, each customer feels differently about a malfunction. It is important to fully understand the symptoms or conditions for a customer complaint.

Information From Customer

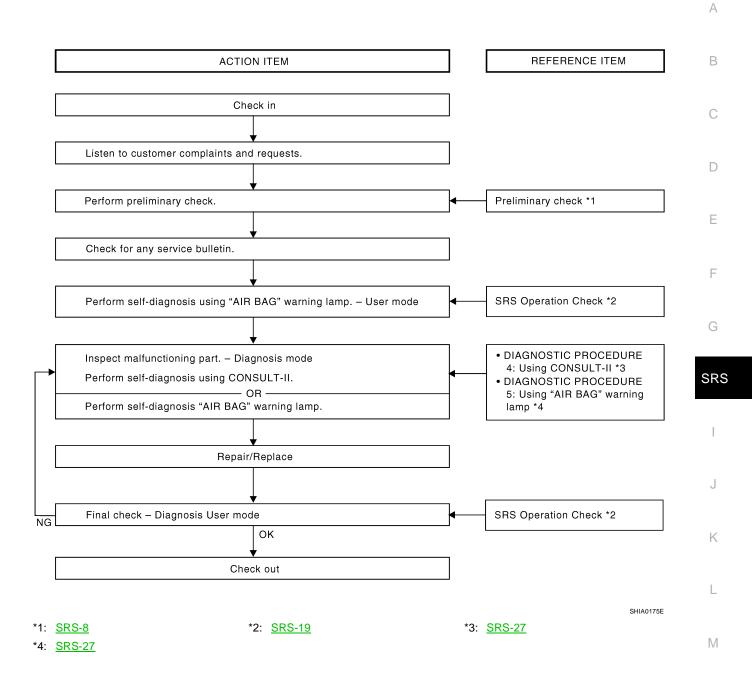
WHAT..... Vehicle model WHEN..... Date, Frequencies WHERE..... Road conditions HOW..... Operating conditions, Symptoms

Preliminary Check

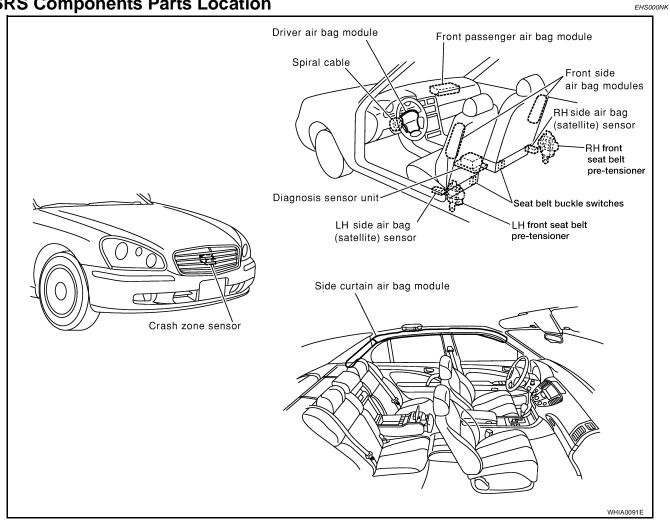
Check that the following parts are in good order.

- Battery (Refer to <u>SC-4, "How to Handle Battery"</u>.)
- Fuse (Refer to <u>SRS-11, "Schematic"</u>.)
- System component-to-harness connections

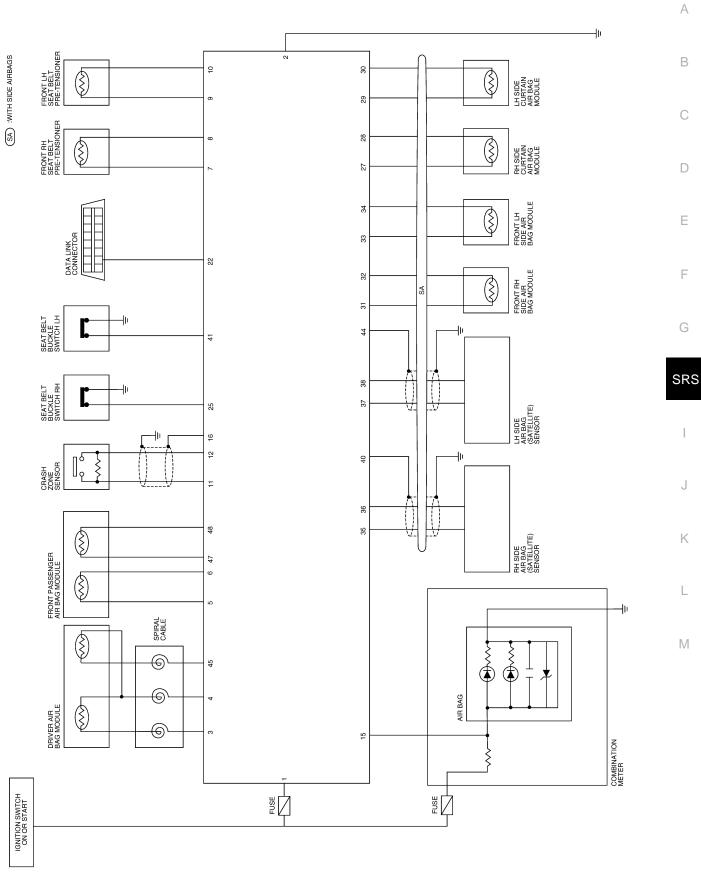
WORK FLOW



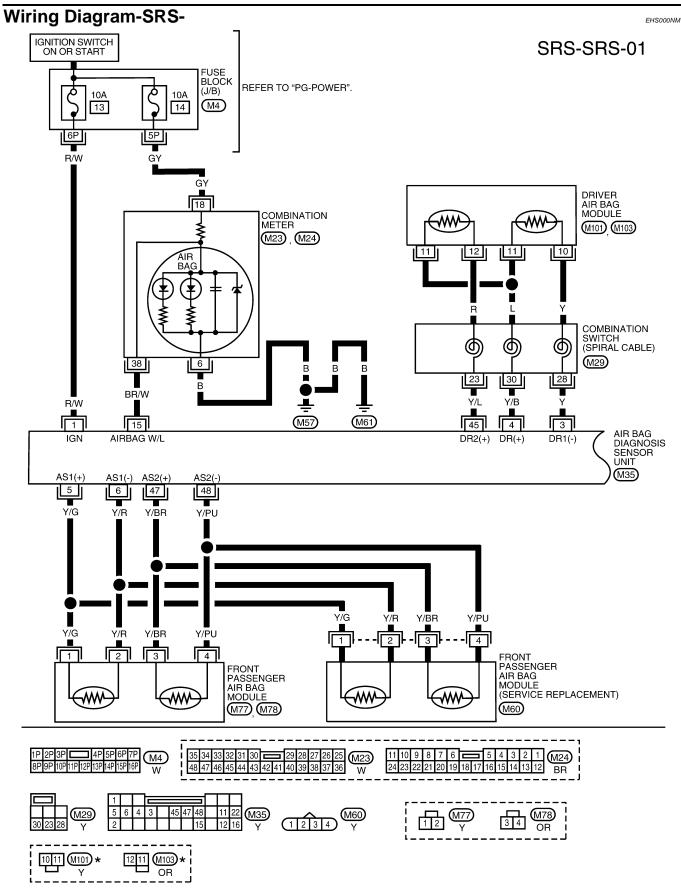
SRS Components Parts Location



Schematic



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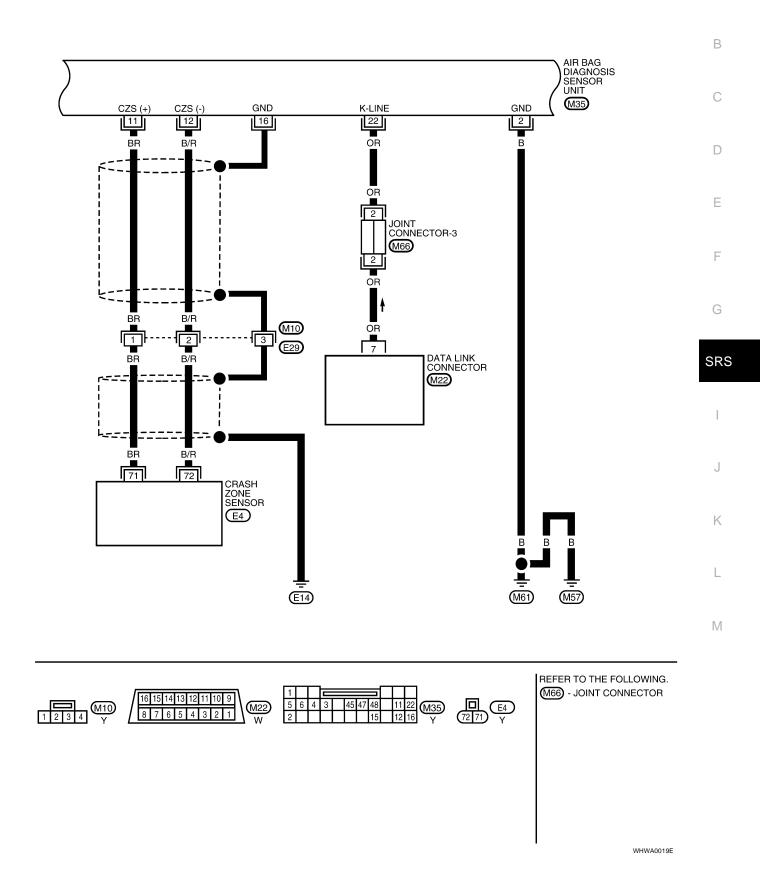


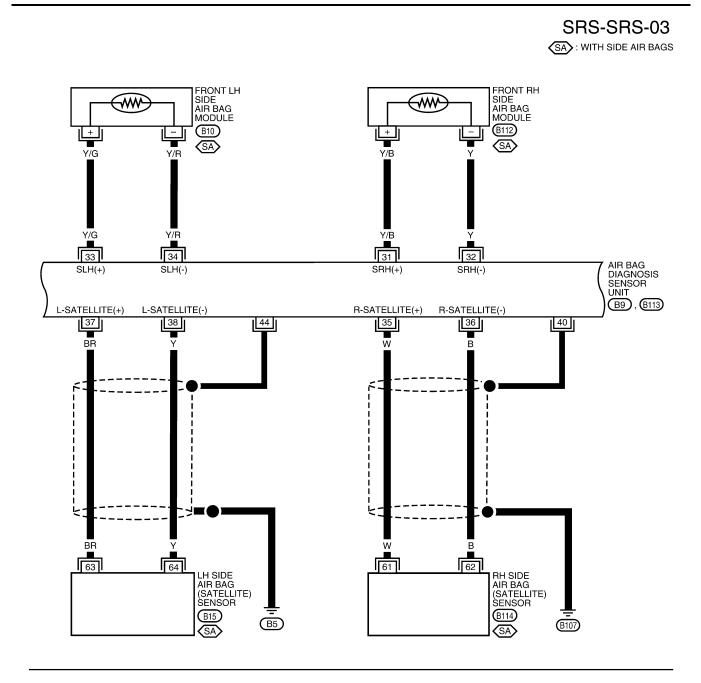
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

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SRS-SRS-02

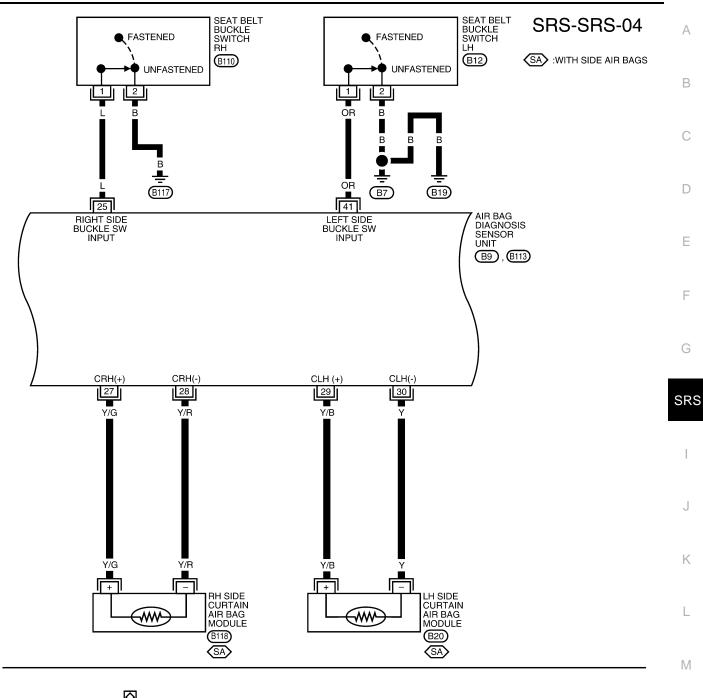
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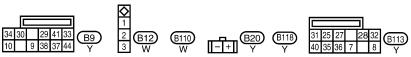






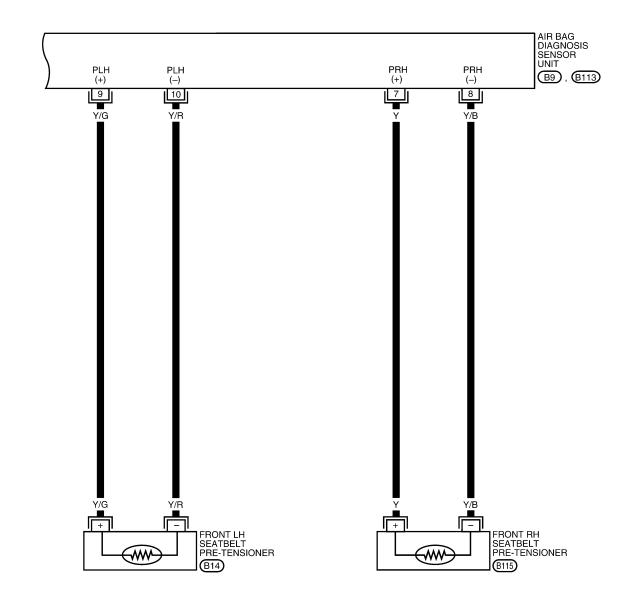
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SRS-SRS-05

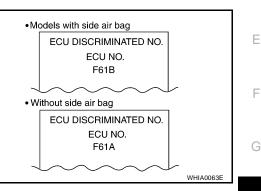




WHWA0022E

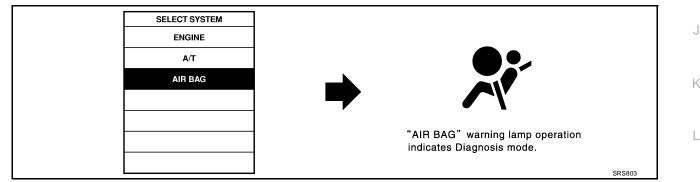
CONSULT-II FUNCTION DIAGNOSIS MODE FOR CONSULT-II

- "SELF-DIAG [CURRENT]"
 A current Self-diagnosis result (also indicated by the number of warning lamp flashes in the Diagnosis mode) is displayed on the CONSULT-II screen in real time. This refers to a malfunctioning part requiring B repairs.
- "SELF-DIAG [PAST]"
 Diagnosis results previously stored in the memory are displayed on the CONSULT-II screen. The stored results are not erased until memory erasing is executed.
- "TROUBLE DIAG RECORD"
 With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed on the CONSULT-II screen.
- "ECU DISCRIMINATED NO." The diagnosis sensor unit for each vehicle model is assigned with its own, individual classification number. This number will be displayed on the CONSULT-II screen, as shown. When replacing the diagnosis sensor unit, refer to the part number for the compatibility. After installation, replacement with a correct unit can be checked by confirming this classification number on the CONSULT-II screen.



B HOW TO CHANGE SELF-DIAGNOSIS MODE WITH CONSULT-II From User Mode to Diagnosis Mode

After selecting "AIR BAG" on the "SELECT SYSTEM" screen, User mode automatically changes to Diagnosis mode.



From Diagnosis Mode to User Mode

To return to User mode from Diagnosis mode, touch "BACK" key of CONSULT-II until "SELECT SYSTEM" appears, Diagnosis mode automatically changes to User mode.

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HOW TO ERASE SELF-DIAGNOSIS RESULTS

- "SELF-DIAG [CURRENT]"
 A current Self-diagnosis result is displayed on the CONSULT-II screen in real time.
 After the malfunction is repaired completely, no malfunction is detected on "SELF-DIAG [CURRENT]".
- "SELF-DIAG [PAST]" Return to the "SELF-DIAG [CURRENT]" CONSULT-II screen by touching "BACK" key of CONSULT-II and select "SELF-DIAG [CURRENT]" in SELECT DIAG MODE. Touch "ERASE" in "SELF-DIAG [CURRENT]" mode.

NOTE:

If the memory of the malfunction in "SELF-DIAG [PAST]" is not erased, the User mode shows the system malfunction by the operation of the warning lamp even if the malfunction is repaired completely.

• "TROUBLE DIAG RECORD" The memory of "TROUBLE DIAG RECORD" cannot be erased.

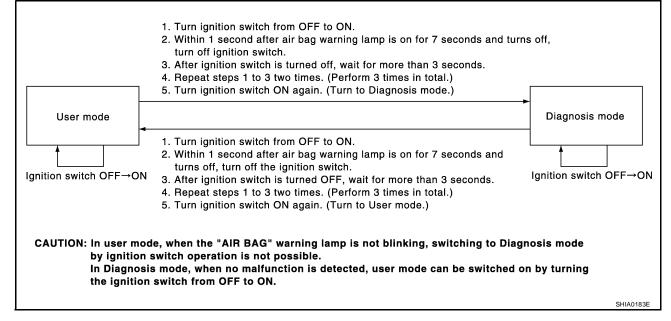
| SELF-DIAG [CUF | RENT] | |
|---|-------|--------|
| DTC RESULTS: | | |
| NO DTC IS DETE FURTHER TES MAY BE REQUI | TING | |
| | | |
| | | |
| | | SRS701 |
| | | |

SELF-DIAGNOSIS FUNCTION (WITHOUT CONSULT-II)

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- The reading of these results is accomplished using one of two modes "User mode" and "Diagnosis mode".
- After a malfunction is repaired, turn the ignition switch OFF for at least one second, then back ON. Diagnosis mode returns to the User mode. At that time, the self-diagnostic result is cleared.

HOW TO CHANGE SELF-DIAGNOSIS MODE

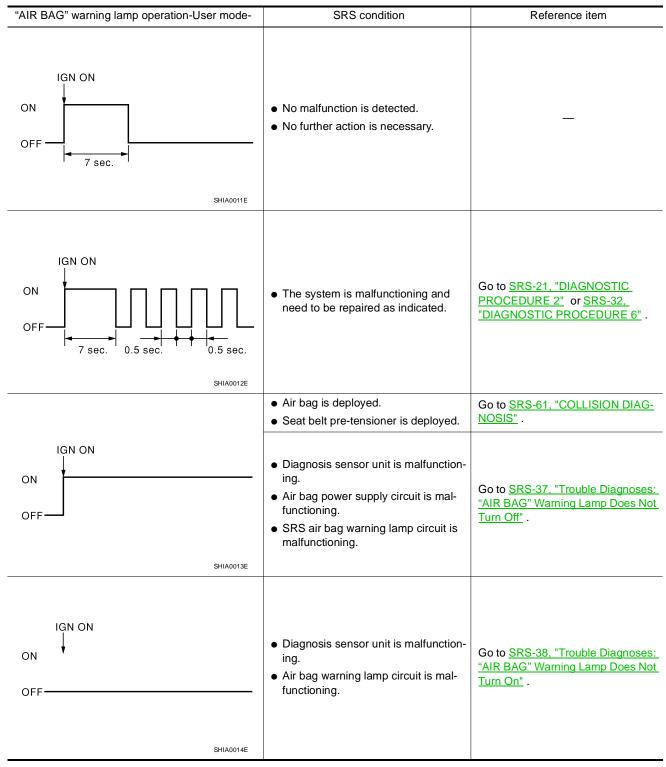


HOW TO ERASE SELF-DIAGNOSIS RESULTS

After a malfunction is repaired, turn the ignition switch OFF for at least one second, then back ON. Diagnosis mode returns to the User mode. At that time, the self-diagnostic result is cleared.



Warning lamp examples



Trouble Diagnoses with CONSULT-II DIAGNOSTIC PROCEDURE 2

- 1. Turn ignition switch OFF.
- 2. Connect CONSULT-II to the data link connector.

Hood opener handle В С Data link connector D BBIA0002E Ε NISSAN F CONSULT-II G START SRS SUB MODE SRS695

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| SELECT SYSTEM | | |
|---------------|--------|-----|
| ENGINE | | |
| A/T | | |
| AIR BAG | | J |
| | | |
| | | K |
| | | |
| | | |
| | SRS771 | |
| | | - L |

| SELECT DIAG MODE | | |
|-----------------------|--------|---|
| SELF-DIAG [CURRENT] | | ľ |
| SELF-DIAG [PAST] | | |
| TROUBLE DIAG RECORD | | |
| ECU DISCRIMINATED NO. | | |
| | | |
| | | |
| | | |
| | SRS697 | |

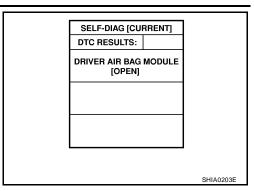
3. Turn ignition switch ON.

4. Touch "START".

5. Touch "AIR BAG".

6. Touch "SELF-DIAG [CURRENT]".

7. Diagnostic code is displayed on "SELF-DIAG [CURRENT]".



 SELF-DIAG [CURRENT]

 DTC RESULTS:

 NO DTC IS DETECTED.

 FURTHER TESTING

 MAY BE REQUIRED.

If no malfunction is detected on "SELF-DIAG [CURRENT]" even though malfunction is detected in "SRS Operation Check", refer to <u>SRS-27, "DIAGNOSTIC PROCEDURE 4 (CONTINUED FROM</u> <u>DIAGNOSTIC PROCEDURE 2)"</u>, to diagnose the following cases:

- Self-diagnostic result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair.
- The SRS system malfunctions intermittently.

CONSULT-II Diagnostic Code Chart ("SELF-DIAG [CURRENT]")

| Diagnostic item | | Explanation | Repair order Recheck SRS at each replacement |
|------------------------------------|---|--|---|
| NO DTC IS DETECTED. | When malfunction is indicated by the "AIR | • Low battery voltage (Less than 9V) | Go to <u>SRS-25, "DIAGNOSTIC PRO-</u> <u>CEDURE 3"</u> . |
| | BAG" warning lamp in User mode. | Self-diagnostic result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair. Intermittent malfunction has been detected in the past. | Go to <u>SRS-27</u>, "DIAGNOSTIC PRO- CEDURE 4 (CONTINUED FROM DIAGNOSTIC PROCEDURE 2)" Go to <u>SRS-27</u>, "DIAGNOSTIC PRO- CEDURE 5". |
| | No malfunction is determined | ected. | — |
| DRIVER AIRBAG MODULE [OPEN] | Driver air bag module | circuit is open (including the spiral cable). | 1. Visually check the wiring harness connection. |
| | Driver air bag medule | circuit is charted to come power supply | 2. Replace the harness if it has visible damage. |
| MODULE [VB-SHORT] | Driver air bag module circuit is shorted to some power supply circuit (including the spiral cable). | | 3. Replace driver air bag module. (Before disposal, it must be |
| | | circuit is shorted to ground (including the | deployed.) 4. Replace the spiral cable. |
| MODULE [GND-SHORT] | spiral cable). | | 5. Replace the diagnosis sensor unit. |
| DRIVER AIRBAG MODULE [SHORT] | Driver air bag module circuits are shorted to each other. | | 6. Replace the related harness. |
| ASSIST A/B MODULE [VB-SHORT] | Front passenger air bag module circuit is shorted to some power supply circuit. | | 1. Visually check the wiring harness connection. |
| ASSIST A/B MODULE [OPEN] | • Front passenger air bag module circuit is open. | | 2. Replace the harness if it has visible damage. |
| ASSIST A/B MODULE [GND-SHORT] | • Front passenger air bag module circuit is shorted to ground. | | 3. Replace front passenger air bag module. (Before disposal, it must be deployed.) |
| ASSIST A/B MODULE [SHORT] | • Front passenger air bag module circuits are shorted to each other. | | 4. Replace the diagnosis sensor unit. 5. Replace the related harness. |

| Diagnostic item | Explanation | Repair order Recheck SRS at each replacement |
|----------------------------------|---|--|
| CRASH ZONE SEN [UNIT FAIL] | Crash zone sensor | 1. Visually check the wiring harness connection. |
| CRASH ZONE SEN [COMM FAIL] | | 2. Replace the harness if it has visible damage. |
| CRASH ZONE SEN [UNMATCH] | | 3. Replace the crash zone sensor. |
| | | 4. Replace the diagnosis sensor unit. |
| | | 5. Replace the related harness. |
| SIDE MODULE LH [OPEN] | • Front LH side air bag module circuit is open. | 1. Visually check the wiring harness connection. |
| SIDE MODULE LH [VB-SHORT] | • Front LH side air bag module circuit is shorted to some power supply circuit. | 2. Replace the harness if it has visible damage. |
| SIDE MODULE LH [GND-SHORT] | • Front LH side air bag module circuit is shorted to ground. | 3. Replace front LH seatback assem- bly (front LH side air bag module). (Before disposal, it must be |
| SIDE MODULE LH | • Front LH side air bag module circuits are shorted to each other. | deployed.) |
| [SHORT] | | 4. Replace the diagnosis sensor unit. |
| | | 5. Replace the related harness. |
| SIDE MODULE RH [OPEN] | Front RH side air bag module circuit is open. | 1. Visually check the wiring harness connection. |
| SIDE MODULE RH [VB-SHORT] | • Front RH side air bag module circuit is shorted to some power supply circuit. | Replace the harness if it has visible damage. |
| SIDE MODULE RH [GND-SHORT] | • Front RH side air bag module circuit is shorted to ground. | 3. Replace front RH seatback assem- bly (front RH side air bag module). (Before disposal, it must be |
| SIDE MODULE RH | • Front RH side air bag module circuits are shorted to each other. | deployed.) |
| [SHORT] | | 4. Replace the diagnosis sensor unit. |
| | | 5. Replace the related harness. |
| SATELLITE SENS LH [UNIT FAIL] | LH side air bag (Satellite) sensor | 1. Visually check the wiring harness connection. |
| SATELLITE SENS LH [COMM FAIL] | | 2. Replace the harness if it has visible damage. |
| SATELLITE SENS LH [UNMATCH] | | 3. Replace the LH side air bag (satel- lite) sensor. |
| | | 4. Replace the diagnosis sensor unit. |
| | | 5. Replace the related harness. |
| SATELLITE SENS RH [UNIT FAIL] | RH side air bag (Satellite) sensor | 1. Visually check the wiring harness connection. |
| SATELLITE SENS RH [COMM FAIL] | | 2. Replace the harness if it has visible damage. |
| SATELLITE SENS RH [UNMATCH] | | 3. Replace the RH side air bag (satel- lite) sensor. |
| | | 4. Replace the diagnosis sensor unit. |
| | | 5. Replace the related harness. |

| Diagnostic item | Explanation | Repair order Recheck SRS at each replacement | |
|----------------------------------|--|--|--|
| PRE-TEN FRONT LH [OPEN] | • The circuit for front LH pre-tensioner is open. | 1. Visually check the wiring harness | |
| PRE-TEN FRONT LH [VB-SHORT] | • The circuit for front LH pre-tensioner is shorted to some power supply circuit. | visually check the wining namess connections. Replace the harness if it has visible | |
| PRE-TEN FRONT LH [GND-SHORT] | • The circuit for front LH pre-tensioner is shorted to ground. | damage. 3. Replace front LH seat belt pre-ten- | |
| PRE-TEN FRONT LH | The circuits for the front LH pre-tensioner are shorted to each | sioner. (Before disposal, it must be deployed.) | |
| [SHORT] | other. | 4. Replace the diagnosis sensor unit. 5. Replace the related harness. | |
| PRE-TEN FRONT RH [OPEN] | • The circuit for front RH pre-tensioner is shorted to some power supply circuit. | 1. Visually check the wiring harness | |
| PRE-TEN FRONT RH [VB-SHORT] | • The circuit for front RH pre-tensioner is shorted to some power supply circuit. | connections. 2. Replace the harness if it has visible | |
| PRE-TEN FRONT RH [GND-SHORT] | • The circuit for front RH pre-tensioner is shorted to ground. | damage. 3. Replace front RH seat belt pre-ten- | |
| | | sioner. (Before disposal, it must be deployed.) | |
| PRE-TEN FRONT RH [SHORT] | The circuits for the front RH pre-tensioner are shorted to each other. | 4. Replace the diagnosis sensor unit. 5. Replace the related harness. | |
| CURTAIN MODULE LH [OPEN] | • The LH side curtain air bag module circuit is open. | 1. Visually check the wiring harness connection. | |
| CURTAIN MODULE LH [VB-SHORT] | • The LH side curtain air bag module circuit is shorted to some power supply circuits. | 2. Replace the harness if it has visible damage. | |
| CURTAIN MODULE LH [GND-SHORT] | • The LH side curtain air bag module circuit is shorted to ground. | Replace LH side curtain air bag module. (Before disposal, it must be deployed.) | |
| | | 4. Replace the diagnosis sensor unit.5. Replace the related harness. | |
| CURTAIN MODULE RH [OPEN] | • The RH side curtain air bag module circuit is open. | 1. Visually check the wiring harness connection. | |
| CURTAIN MODULE RH [VB-SHORT] | • The RH side curtain air bag module circuit is shorted to some power supply circuit. | 2. Replace the harness if it has visible damage. | |
| CURTAIN MODULE RH [GND-SHORT] | • The RH side curtain air bag module circuit is shorted to ground. | Replace RH side curtain air bag module. (Before disposal, it must be deployed.) | |
| | | 4. Replace the diagnosis sensor unit. | |
| | | 5. Replace the related harness. | |
| CONTROL UNIT | • Diagnosis sensor unit is malfunctioning. | 1. Visually check the wiring harness connection. | |
| | | 2. Replace the diagnosis sensor unit. | |

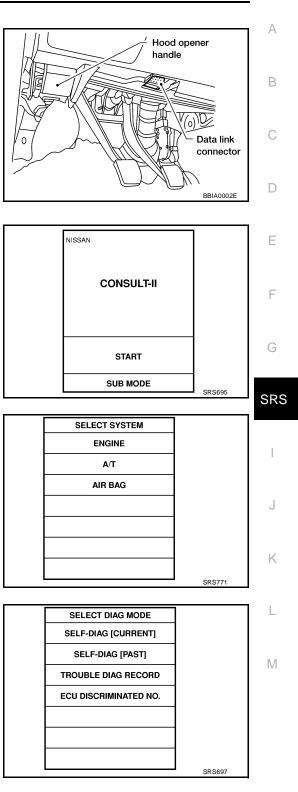
NOTE:

• Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using air bag warning lamp or CONSULT-II each time repair is finished. If malfunction is still observed, proceed to the next step. When malfunction is eliminated, further repair work is not required.

DIAGNOSTIC PROCEDURE 3

Final checking after repairing SRS by using CONSULT-II — Diagnosis mode

- 1. After repairing SRS, connect both battery cables.
- 2. Connect CONSULT-II to data link connector.
- 3. Turn ignition switch "ON".



4. Touch "START".

5. Touch "AIR BAG".

6. Touch "SELF-DIAG [CURRENT]".

- 7. If no malfunction is detected on "SELF-DIAG [CURRENT]", SELF-DIAG [CURRENT] repair of SRS is completed. Go to step 8. DTC RESULTS: If any malfunction is detected on "SELF-DIAG [CURRENT]", the malfunctioning part is not repaired completely or another mal-NO DTC IS DETECTED. FURTHER TESTING functioning part is detected. Go to SRS-21, "DIAGNOSTIC MAY BE REQUIRED. PROCEDURE 2", and repair malfunctioning part completely. SRS701 Touch "ERASE". 8. SELF-DIAG [CURRENT] NOTE: DTC RESULTS: Touch "ERASE" to clear the memory of the malfunction AIR BAG MODULE ("SELF-DIAG [PAST]"). [OPEN] If the memory of the malfunction in "SELF-DIAG [PAST]" is not erased, the User mode shows the system malfunction by the operation of the warning lamp even if the malfunction is repaired completely. ERASE SRS773 Touch "BACK" key of CONSULT-II to "SELECT DIAG MODE" 9. SELECT DIAG MODE screen. Touch "SELF-DIAG [PAST]". SELF-DIAG [CURRENT] SELF-DIAG (PAST) TROUBLE DIAG RECORD ECU DISCRIMINATED NO. SRS697 10. Check that no malfunction is detected on "SELF-DIAG [PAST]".
- 11. Touch "BACK" key of CONSULT-II until "SELECT SYSTEM" appears in order to return to User mode from Diagnosis mode.
- 12. Turn ignition switch OFF then turn off and disconnect CON-SULT-II.
- 13. Go to <u>SRS-19</u>, "Checking Air Bag Operation by Using "AIR <u>BAG</u>" Warning Lamp-User Mode".

| SELF-DIAG [PAST] | | |
|--|------|--------|
| DTC RESULTS: | | |
| NO DTC IS DETE FURTHER TEST MAY BE REQUI | TING | |
| | | |
| | | |
| | | |
| | | SRS702 |

DIAGNOSTIC PROCEDURE 4 (CONTINUED FROM DIAGNOSTIC PROCEDURE 2) Inspecting SRS malfunctioning record

1. CONSIDER POSSIBILITY OF NOT ERASING SELF-DIAGNOSTIC RESULT AFTER REPAIRING

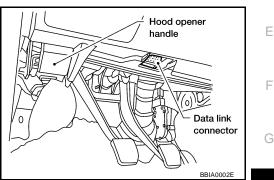
Is it the first time for maintenance of SRS?

Yes or No

- Yes >> Go to <u>SRS-21, "DIAGNOSTIC PROCEDURE 2"</u>.
- No >> Self-diagnostic result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair. Go to <u>SRS-25, "DIAGNOSTIC PROCEDURE 3"</u>.

DIAGNOSTIC PROCEDURE 5

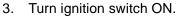
- Inspecting SRS intermittent malfunction by using CONSULT-II Diagnosis mode
- 1. Turn ignition switch OFF.
- 2. Connect "CONSULT-II" to data link connector.



А

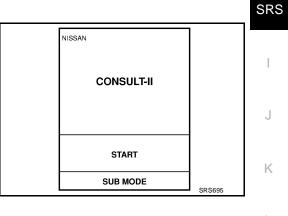
В

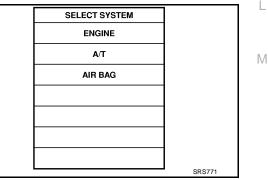
D



4. Touch "START".

5. Touch "AIR BAG".

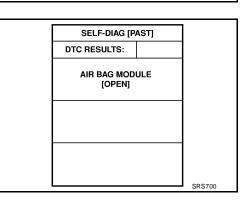




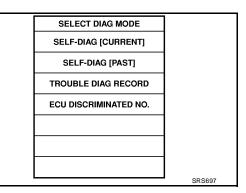
6. Touch "SELF-DIAG [PAST]".

| SELECT DIAG MODE | |
|-----------------------|--------|
| SELF-DIAG [CURRENT] | |
| SELF-DIAG [PAST] | |
| TROUBLE DIAG RECORD | |
| ECU DISCRIMINATED NO. | |
| | |
| | |
| | |
| | SRS697 |

7. If diagnostic codes are displayed on "SELF-DIAG [PAST]", go to step 10.



Ch SELF-DIAG [PAST] DTC RESULTS: NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.



SRS702

9. Diagnostic code is displayed on "TROUBLE DIAG RECORD".

Touch "TROUBLE DIAG RECORD".

10. Touch "PRINT".

8.

NOTE:

- 11. Compare diagnostic codes to <u>SRS-29</u>, "CONSULT-II Diagnostic <u>Code Chart</u> ("SELF-DIAG [PAST]" or "TROUBLE DIAG <u>RECORD")"</u>.
- 12. Touch "BACK" key of CONSULT-II until "SELECT SYSTEM" appears.
- 13. Turn ignition switch OFF, then turn off and disconnect CON-SULT-II, and both battery cables.

| TROUBLE DIAG RECORD | | |
|----------------------------|--------|-----------|
| DTC RESULTS: | | |
| DRIVER AIR BAG I [OPEN] | NODULE | |
| | | |
| | | |
| | | |
| | | SUIV0183E |

If no malfunction is detected on "SELF-DIAG [PAST]", touch "BACK" and go back to "SELECT DIAG MODE".

With "TROUBLE DIAG RECORD", diagnosis results previ-

ously erased by a reset operation can be displayed.

14. Repair the system as outlined by the "Repair order" in "Intermittent Malfunction Diagnostic Code Chart", that corresponds to the self-diagnostic result. For replacement procedure of component parts, refer to the Removal and Installation procedure for the appropriate component.

А

В

15. Go to SRS-25, "DIAGNOSTIC PROCEDURE 3", for final checking.

CONSULT-II Diagnostic Code Chart ("SELF-DIAG [PAST]" or "TROUBLE DIAG RECORD")

| Diagnostic item | Explanation | | Repair order Recheck SRS at each replacement |
|---|---|--|--|
| NO DTC IS DETECTED. | When malfunction is indicated by the "AIR • Low battery voltage (Less than 9V) | | Go to <u>SRS-25, "DIAGNOSTIC PRO-</u> <u>CEDURE 3"</u> . |
| | BAG" warning lamp in User mode. | Self-diagnostic result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair. Intermittent malfunction has been detected in the past. | Go to <u>SRS-27, "DIAGNOSTIC PRO-CEDURE 4 (CONTINUED FROM</u>DIAGNOSTIC PROCEDURE 2)". Go to <u>SRS-27, "DIAGNOSTIC PROCEDURE 5"</u>. |
| | No malfunction is determined | cted. | |
| DRIVER AIRBAG MODULE [OPEN] | Driver air bag module | circuit is open (including the spiral cable). | Visually check the wiring harness connection. Peplace the harness if it has visible |
| DRIVER AIRBAG MODULE [VB-SHORT] | Driver air bag module circuit (including the sp | circuit is shorted to some power supply biral cable). | Replace the harness if it has visible damage. Replace driver air bag module. (Before disposal, it must be |
| DRIVER AIRBAG MODULE [GND-SHORT] | Driver air bag module spiral cable). | circuit is shorted to ground (including the | deployed.) 4. Replace the spiral cable. 5. Replace the diagnosis sensor unit. |
| DRIVER AIRBAG MODULE [SHORT] | Driver air bag module circuits are shorted to each other. | | 6. Replace the related harness. |
| ASSIST A/B MODULE [VB-SHORT] | Front passenger air bag module circuit is shorted to some power supply circuit. | | 1. Visually check the wiring harness connection. |
| ASSIST A/B MODULE [OPEN] | • Front passenger air bag module circuit is open. | | 2. Replace the harness if it has visible damage. |
| ASSIST A/B MODULE [GND-SHORT] | • Front passenger air bag module circuit is shorted to ground. | | 3. Replace front passenger air bag module. (Before disposal, it must be deployed.) |
| ASSIST A/B MODULE [SHORT] | Front passenger air bag module circuits are shorted to each other. | | Replace the diagnosis sensor unit. Replace the related harness. |
| CRASH ZONE SEN [UNIT FAIL] | Crash zone sensor | | 1. Visually check the wiring harness connection. |
| CRASH ZONE SEN [COMM FAIL] CRASH ZONE SEN | | | 2. Replace the harness if it has visible damage. |
| [UNMATCH] | | | 3. Replace the crash zone sensor. |
| | | | Replace the diagnosis sensor unit. Replace the related harness. |
| SIDE MODULE LH [OPEN] | • Front LH side air bag module circuit is open. | | Visually check the wiring harness connection. |
| SIDE MODULE LH [VB-SHORT] | Front LH side air bag r supply circuit. | nodule circuit is shorted to some power | 2. Replace the harness if it has visible damage. |
| SIDE MODULE LH [GND-SHORT] | Front LH side air bag module circuit is shorted to ground. | | Replace front LH seatback assem- bly (front LH side air bag module). (Before disposal, it must be |
| SIDE MODULE LH [SHORT] | Front LH side air bag module circuits are shorted to each other. | | deployed.) 4. Replace the diagnosis sensor unit. 5. Replace the related harness. |

| Diagnostic tiem Explanation Recheck SRS at each replacement SIDE MODULE RH (VB-SHORT) | | | Repair order |
|--|------------------|--|---------------------------------------|
| [OPEN] connection. SIDE MODULE RH (WS-SHORT] • Front RH side air bag module circuit is shorted to some power supply circuit. 2. Replace the harness if it has visible damage. SIDE MODULE RH [SHORT] • Front RH side air bag module circuit is shorted to ground. 3. Replace the harness if it has visible damage. SIDE MODULE RH [SHORT] • Front RH side air bag module circuits are shorted to each other. 7. Replace the related harness. STELLITE SENS LH [UNIT FAIL] • Front RH side air bag (Satellite) sensor 4. Replace the related harness. SATELLITE SENS LH [UNIMATCH] • LH side air bag (Satellite) sensor 2. Replace the harness if it has visible damage. SATELLITE SENS RH [UNIMATCH] • LH side air bag (Satellite) sensor 2. Replace the harness if it has visible damage. SATELLITE SENS RH [UNIMATCH] • RH side air bag (Satellite) sensor 2. Replace the harness. SATELLITE SENS RH [UNIMATCH] • RH side air bag (Satellite) sensor 2. Replace the related harness. SATELLITE SENS RH [UNIMATCH] • The circuit for front LH pre-tensioner is shorted to some power supply circuit. 3. Replace the diagnosis sensor unit. SATELLITE SENS RH [UNIMATCH] • The circuit for front LH pre-tensioner is shorted to some power supply circuit. 3. Replace the related harness. PRE-TEN FRONT LH [GND-SHORT | Diagnostic item | Explanation | • |
| [VB-SHORT] • supply circuit. • Replace front RH side air bag module circuits are shorted to ground. • Replace front RH sateback assembly (front RH side air bag module) • Replace the diagnosis sensor unit. • Replace the winns phamess. SATELLITE SENS LH (COMM FAIL) • LH side air bag (Satellite) sensor • Replace the diagnosis sensor unit. • Replace the winns phamess. SATELLITE SENS RH (COMM FAIL) • RH side air bag (Satellite) sensor • Nisually check the winns phamess. • Nisually check the winns phamess. • Nisually check the winns phamess. SATELLITE SENS RH (LUMM FAIL) • The circuit for front LH pre-tensioner is shorted to some power • Nisually check the winns phamess. • Nisually check the winns phamess. SATELLITE SENS RH (LUMM FAIL) • The circuit for front LH pre-tensioner is sho | | Front RH side air bag module circuit is open. | |
| SILE MODUCE RN • Front RH side air bag include circuits are shorted to ground. by (front RH side air bag module). (Before disposal, it must be deployed.) SIDE MODULE RH [SHORT] • Front RH side air bag module circuits are shorted to each other. by (front RH side air bag module). (Before disposal, it must be deployed.) SATELLITE SENS LH [UNM FAIL] SATELLITE SENS RH [COMM FAIL] SATELET SENS RH [COMM FAIL] SATELITE SENS RH [COMM FAIL] SATELET SENS RH [COMM FA | | | · · |
| [SHORT] 4. Replace the diagnosis sensor unit. SATELLITE SENS LH [UNIT FAIL] SATELLITE SENS LH [UNMATCH] • LH side air bag (Satellite) sensor 1. Visually check the wiring harness connection. SATELLITE SENS LH [UNMATCH] • RH side air bag (Satellite) sensor 1. Visually check the wiring harness. SATELLITE SENS RH [UNIT FAIL] SATELLITE SENS RH [UNIT FAIL] • RH side air bag (Satellite) sensor 1. Visually check the wiring harness. SATELLITE SENS RH [UNIT FAIL] • RH side air bag (Satellite) sensor 1. Visually check the wiring harness. SATELLITE SENS RH [UNIT FAIL] • RH side air bag (Satellite) sensor 1. Visually check the wiring harness. SATELLITE SENS RH [UNIT FAIL] • Replace the related harness. 1. Visually check the wiring harness connection. SATELLITE SENS RH [UNMATCH] • The circuit for front LH pre-tensioner is open. 1. Visually check the wiring harness connection. PRE-TEN FRONT LH [VB-SHORT] • The circuit for front LH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connections. PRE-TEN FRONT LH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connections. <tr< td=""><td>[GND-SHORT]</td><td></td><td>bly (front RH side air bag module).</td></tr<> | [GND-SHORT] | | bly (front RH side air bag module). |
| SATELLITE SENS LH [INIT FAL] SATELLITE SENS LH [COMM FAL] SATELLITE SENS LH [COMM FAL] SATELLITE SENS LH [INIT FAL] SATELLITE SENS LH [INIT FAL] SATELLITE SENS LH [INIT FAL] SATELLITE SENS RH [INIT SENS RH [INIT FAL] SATELLITE SENS RH [INIT SATE SEN | | • Front RH side air bag module circuits are shorted to each other. | |
| SATELLITE SENS LH [UMIT FAL] SATELLITE SENS LH [COMM FAL] SATELLITE SENS LH [UMMATCH] • LH side air bag (Satellite) sensor 1. Visually check the wining hamess connection. SATELLITE SENS LH [UMMATCH] • RH side air bag (Satellite) sensor 3. Replace the hamess if it has visible damage. SATELLITE SENS RH [UNMATCH] • RH side air bag (Satellite) sensor 4. Replace the diagnosis sensor unit. SATELLITE SENS RH [UNMATCH] • RH side air bag (Satellite) sensor 1. Visually check the wining hamess connection. SATELLITE SENS RH [UNMATCH] • RH side air bag (Satellite) sensor 1. Visually check the wining hamess connection. SATELLITE SENS RH [UNMATCH] • The circuit for front LH pre-tensioner is open. 2. Replace the RH side air bag (satel- lite) sensor. PRE-TEN FRONT LH [OPEN] • The circuit for front LH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wining hamess connections. PRE-TEN FRONT LH [GND-SHORT] • The circuit for front LH pre-tensioner is shorted to ground. 1. Visually check the wining hamess connections. PRE-TEN FRONT RH [OPEN] • The circuit for front RH pre-tensioner is shorted to ground. 3. Replace the taleate belt pre-ten- sioner. PRE-TEN FRONT RH [OPEN] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wining hamess connections. PRE-TEN FRONT RH [GND-SHORT] • Th | [energy | | |
| [UNIT FAIL] SATELLITE SENS LH [UNMATCH]connection.SATELLITE SENS LH [UNMATCH]. Replace the serve the diagnosis sensor unit. 5. Replace the arress. 1. Visually check the wiring harness connection. 2. Replace the harness. 1. Visually check the wiring harness connection. 2. Replace the harness. 1. Visually check the wiring harness connection. 2. Replace the harness. 3. Replace the harness. 1. Visually check the wiring harness connection. 2. Replace the harness. 3. Replace the harness. 3. Replace the harness. 3. Replace the harness. 3. Replace the harness. 4. Replace the diagnosis sensor unit. 5. Replace the related harness.PRE-TEN FRONT LH [OPEN]• The circuit for front LH pre-tensioner is shorted to ground. The circuit for front LH pre-tensioner is shorted to ground.1. Visually check the wiring harness connections. 2. Replace the harness. 3. Replace the harness. 3. Replace the harness.PRE-TEN FRONT LH [OPEN]• The circuit for front LH pre-tensioner is shorted to ground. The circuit for front LH pre-tensioner is shorted to ground.1. Visually check the wiring harness connections. 2. Replace the related harness. 2. Replace the related harness.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to ground. (Before disposal, it must be deployed.)1. Visually check the wiring harness connections. 3. Replace the related harness.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.1. Visually check the wiring harness connections.< | | | |
| [COM FAIL] SATELLITE SENS RH [UMATCH]• RH side air bag (Satellite) sensor3. Replace the LH side air bag (satel- lite) sensor.SATELLITE SENS RH [COMM FAIL] SATELLITE SENS RH [COPEN]• The circuit for front LH pre-tensioner is open. Implement to related harness.2. Replace the alignosis sensor unit. S. Replace the alignosis sensor unit. S. Replace the related harness.PRE-TEN FRONT LH [GND-SHORT]• The circuit for front LH pre-tensioner is shorted to some power supply circuit.3. Replace thron LH seat belt pre-ten- sioner. (Before disposal, it must be deployed.) 4. Replace the alignosis sensor unit. S. Replace the related harness.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to some power sup | [UNIT FAIL] | LH side air bag (Satellite) sensor | |
| [UNMATCH] S. Replace the LH side air bag (Satel- life) sensor. S. Replace the diagnosis sensor unit. SATELLITE SENS RH [UNIT FAIL] • RH side air bag (Satellite) sensor 1. Visually check the wiring harness connection. SATELLITE SENS RH [COMM FAIL] • RH side air bag (Satellite) sensor 1. Visually check the wiring harness connection. SATELLITE SENS RH [COMM FAIL] • The circuit for front LH pre-tensioner is open. 2. Replace the RH side air bag (satel- life) sensor. RPE-TEN FRONT LH [OPEN] • The circuit for front LH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connections. PRE-TEN FRONT LH [GND-SHORT] • The circuit for front LH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. PRE-TEN FRONT LH [GND-SHORT] • The circuit for front LH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. PRE-TEN FRONT LH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 3. Replace the ataebelt pre-ten- sioner. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connections. PRE-TEN FRONT | [COMM FAIL] | | - |
| SATELLITE SENS RH [UNIT FAIL] • RH side air bag (Satellite) sensor 1. Visually check the wiring harness connection. SATELLITE SENS RH [COMM FAIL] • RH side air bag (Satellite) sensor 2. Replace the harness if it has visible damage. SATELLITE SENS RH [UNMATCH] • The circuit for front LH pre-tensioner is open. 3. Replace the related harness. PRE-TEN FRONT LH [OPEN] • The circuit for front LH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connection. PRE-TEN FRONT LH [VB-SHORT] • The circuit for front LH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. PRE-TEN FRONT LH [VB-SHORT] • The circuit for front LH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. PRE-TEN FRONT LH [GND-SHORT] • The circuit for front LH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [GPEN] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness. PRE-TEN FRONT RH [GPEN] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 1. Visually check the wiring harness. PRE-TEN FRONT RH [GND-SHORT] | | | |
| SATELLITE SENS RH [UNIT FAIL] SATELLITE SENS RH [COMM FAIL] SATELLITE SENS RH [UNMATCH] Relace the harness if it has visible damage. Replace the harness if it has visible damage. Replace the diagnosis sensor unit. Replace the diagnosis sensor unit. Replace the related harness. Replace the harness if it has visible damage. Replace the diagnosis sensor unit. Replace the diagnosis sensor unit. Replace the related harness. Replace the related harness. Replace the harness if it has visible damage. Visually check the wiring harness connections. Replace the related harness. Replace the related harness. Replace the harness if it has visible damage. Nisually check the wiring harness connections. Replace the related harness. Replace the harness if it has visible damage. Replace the diagnosis sensor unit. Replace the diagnosis sensor unit. Replace the diagnosis sensor unit. Replace the related harness. Replace the diagnosis sensor unit. | | | 4. Replace the diagnosis sensor unit. |
| [UNIT FAIL] SATELLITE SENS RH [COMM FAIL] SATELLITE SENS RH [UNMATCH] Connection. 2. Replace the harness if it has visible damage. PRE-TEN FRONT LH [OPEN] • The circuit for front LH pre-tensioner is open. 9. Replace the diagnosis sensor unit. PRE-TEN FRONT LH [VB-SHORT] • The circuit for front LH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connections. PRE-TEN FRONT LH [GND-SHORT] • The circuit for front LH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. PRE-TEN FRONT LH [GND-SHORT] • The circuit for front LH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 3. Replace the diagnosis sensor unit. PRE-TEN FRONT RH [OPEN] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 1. Visually check the wiring harness conn | | | 5. Replace the related harness. |
| [COMM FAIL] SATELLITE SENS RH [UNMATCH]PRE-TEN FRONT LH [OPEN]• The circuit for front LH pre-tensioner is open.2. Replace the RH side air bag (satel- lite) sensor.PRE-TEN FRONT LH [OPEN]• The circuit for front LH pre-tensioner is open.1. Visually check the wiring harness connections.PRE-TEN FRONT LH [OPEN]• The circuit for front LH pre-tensioner is shorted to some power supply circuit.1. Visually check the wiring harness connections.PRE-TEN FRONT LH [GND-SHORT]• The circuit for front LH pre-tensioner is shorted to ground. [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground. [Before disposal, it must be deployed.)PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.• The circuit for front RH pre-tensioner is shorted to some power supply circuit.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.• The circuit for front RH pre-tensioner is shorted to some power supply circuit.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.• The circuit for front RH pre-tensioner is shorted to ground. [GND-SHORT]PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground. [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground. [GND-SHORT]PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground. [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground. [GND-SHORT]PRE-TEN FRONT RH [GND-SHORT] <t< td=""><td></td><td>RH side air bag (Satellite) sensor</td><td></td></t<> | | RH side air bag (Satellite) sensor | |
| [UNMATCH]3. Replace the RH side air bag (satel-lite) sensor.PRE-TEN FRONT LH [OPEN]• The circuit for front LH pre-tensioner is open.PRE-TEN FRONT LH [VB-SHORT]• The circuit for front LH pre-tensioner is shorted to some power supply circuit.PRE-TEN FRONT LH [GND-SHORT]• The circuit for front LH pre-tensioner is shorted to ground.PRE-TEN FRONT LH [GND-SHORT]• The circuit for front LH pre-tensioner is shorted to ground.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.PRE-TEN FRO | [COMM FAIL] | | |
| PRE-TEN FRONT LH [OPEN]• The circuit for front LH pre-tensioner is open.1. Visually check the wiring harness connections.PRE-TEN FRONT LH [VB-SHORT]• The circuit for front LH pre-tensioner is shorted to some power supply circuit.1. Visually check the wiring harness connections.PRE-TEN FRONT LH [GND-SHORT]• The circuit for front LH pre-tensioner is shorted to ground. I The circuit for front LH pre-tensioner is shorted to ground.3. Replace the harness if it has visible damage.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.3. Replace the diagnosis sensor unit. 5. Replace the related harness.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.2. Replace front RH seat belt pre-ten- sioner. (Before disposal, it must be deployed.)PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.3. Replace front RH seat belt pre-ten- sioner. (Before d | | | |
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| [OPEN]1. Visually check the wiring harness connections.PRE-TEN FRONT LH [VB-SHORT]• The circuit for front LH pre-tensioner is shorted to some power supply circuit.• The circuit for front LH pre-tensioner is shorted to ground.2. Replace the harness if it has visible damage.PRE-TEN FRONT LH [GND-SHORT]• The circuit for front LH pre-tensioner is shorted to ground.3. Replace front LH seat belt pre-ten- sioner. (Before disposal, it must be deployed.)4. Replace the diagnosis sensor unit. 5. Replace the related harness.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [OND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.2. Replace the harness if it has visible damage.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.3. Replace the harness if it has visible damage.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.3. Replace the harness if it has visible damage.PRE-TEN FRONT RH [GND-S | | | 5. Replace the related harness. |
| PRE-TEN FRONT LH [VB-SHORT] The circuit for front LH pre-tensioner is shorted to some power supply circuit. The circuit for front LH pre-tensioner is shorted to ground. The circuit for front LH pre-tensioner is shorted to ground. Replace the harness if it has visible damage. Replace the diagnosis sensor unit. Replace the diagnosis sensor unit. PRE-TEN FRONT RH [GND-SHORT] The circuit for front RH pre-tensioner is shorted to some power supply circuit. The circuit for front RH pre-tensioner is shorted to some power supply circuit. The circuit for front RH pre-tensioner is shorted to some power supply circuit. The circuit for front RH pre-tensioner is shorted to some power supply circuit. The circuit for front RH pre-tensioner is shorted to ground. Nisually check the wiring harness connections. Replace the harness if it has visible damage. Replace the harness if it has visible damage. Replace the harness if it has visible damage. Replace front RH seat belt pre-tensioner. (Before disposal, it must be deployed.) PRE-TEN FRONT RH [GND-SHORT] The circuit for front RH pre-tensioner is shorted to ground. Replace the harness if it has visible damage. Replace front RH seat belt pre-tensioner. | | • The circuit for front LH pre-tensioner is open. | |
| IVB-SHORT]• The circuit for front LH pre-tensioner is shorted to ground.2. Replace the harness if it has visible damage.PRE-TEN FRONT LH [GND-SHORT]• The circuit for front LH pre-tensioner is shorted to ground.3. Replace front LH seat belt pre-ten- sioner. (Before disposal, it must be deployed.)4. Replace the diagnosis sensor unit. 5. Replace the related harness.PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [VB-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.2. Replace front RH seat belt pre-ten- sioner. (Before disposal, it must be deployed.)PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.3. Replace front RH seat belt pre-ten- sioner. (Before disposal, it must be deployed.)PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.4. Replace the diagnosis sensor unit. | [OPEN] | | |
| PRE-TEN FRONT LH [GND-SHORT] • The circuit for front LH pre-tensioner is shorted to ground. damage. 9RE-TEN FRONT ILH [GND-SHORT] • The circuit for front LH pre-tensioner is shorted to ground. 3. Replace front LH seat belt pre-tensioner. (Before disposal, it must be deployed.) 9RE-TEN FRONT RH [OPEN] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness PRE-TEN FRONT RH [OPEN] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 3. Replace the harness if it has visible damage. 9RE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 3. Replace front RH seat belt pre-ten- sioner. (Before disposal, it must be deployed.) 9. The circuit for front RH pre-tensioner is shorted to ground. 3. Replace front RH seat belt pre-ten- sioner. (Before disposal, it must be deployed.) | | | |
| PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 3. Replace front LH seat belt pre-tensioner. (Before disposal, it must be deployed.) PRE-TEN FRONT RH [OPEN] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [VB-SHORT] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 3. Replace the harness if it has visible damage. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 3. Replace the harness if it has visible damage. • The circuit for front RH pre-tensioner is shorted to ground. • The circuit for front RH pre-tensioner is shorted to ground. • The circuit for front RH pre-tensioner is shorted to ground. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. • The circuit for front RH pre-tensioner is shorted to ground. Before disposal, it must be deployed.) • The circuit for front RH pre-tensioner is shorted to ground. • Replace front RH seat belt pre-tensioner. Before disposal, it must be deployed.) • Replace the diagnosis sensor unit. • Replace the diagnosis sensor unit. | - | | - |
| sioner. (Before disposal, it must be deployed.)PRE-TEN FRONT RH [OPEN]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.4. Replace the diagnosis sensor unit. 5. Replace the related harness.PRE-TEN FRONT RH [VB-SHORT]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [VB-SHORT]• The circuit for front RH pre-tensioner is shorted to some power supply circuit.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.3. Replace the harness if it has visible damage.0• The circuit for front RH pre-tensioner is shorted to ground.0. Replace front RH seat belt pre-ten- sioner. (Before disposal, it must be deployed.)0• The circuit for front RH pre-tensioner is shorted to ground.0. Replace the diagnosis sensor unit.0• The circuit for front RH pre-tensioner is shorted to ground.0. Replace front RH seat belt pre-ten- sioner. (Before disposal, it must be deployed.)0• The circuit for front RH pre-tensioner is shorted to ground.0. Replace the diagnosis sensor unit. | - | | - |
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| PRE-TEN FRONT RH [OPEN] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [VB-SHORT] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [VB-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. Visually check the wiring harness (BID - SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. Visually check the wiring harness (BID - SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. Visually check the wiring harness (BID - SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 1. Visually check the wiring harness connections. | | | |
| [OPEN]supply circuit.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [VB-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.1. Visually check the wiring harness connections.PRE-TEN FRONT RH [GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.2. Replace the harness if it has visible damage.Output (GND-SHORT]• The circuit for front RH pre-tensioner is shorted to ground.3. Replace front RH seat belt pre-ten- sioner. (Before disposal, it must be deployed.)Output (Before disposal, it must be deployed.)4. Replace the diagnosis sensor unit. | | | 5. Replace the related harness. |
| PRE-TEN FRONT RH [VB-SHORT] • The circuit for front RH pre-tensioner is shorted to some power supply circuit. • The circuit for front RH pre-tensioner is shorted to ground. 2. Replace the harness if it has visible damage. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 3. Replace front RH seat belt pre-ten- sioner. (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. | PRE-TEN FRONT RH | • The circuit for front RH pre-tensioner is shorted to some power | |
| [VB-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 2. Replace the harness if it has visible damage. PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. 3. Replace front RH seat belt pre-tensioner. (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. | [OPEN] | supply circuit. | 1. Visually check the wiring harness |
| PRE-TEN FRONT RH [GND-SHORT] • The circuit for front RH pre-tensioner is shorted to ground. damage. 3. Replace front RH seat belt pre-tensioner. (Before disposal, it must be deployed.) demage. | - | | |
| [GND-SHORT] 3. Replace front RH seat belt pre-ten-sioner. (Before disposal, it must be deployed.) 4. Replace the diagnosis sensor unit. | | | |
| (Before disposal, it must be deployed.)4. Replace the diagnosis sensor unit. | | | |
| 4. Replace the diagnosis sensor unit. | | | (Before disposal, it must be |
| 5. Replace the related harness. | | | |
| | | | 5. Replace the related harness. |

| Diagnostic item | Explanation | Repair order Recheck SRS at each replacement |
|----------------------------------|--|---|
| CURTAIN MODULE LH [OPEN] | • The LH side curtain air bag module circuit is open. | 1. Visually check the wiring harness connection. |
| CURTAIN MODULE LH [VB-SHORT] | • The LH side curtain air bag module circuit is shorted to some power supply circuits. | 2. Replace the harness if it has visible damage. |
| CURTAIN MODULE LH [GND-SHORT] | • The LH side curtain air bag module circuit is shorted to ground. | Replace LH side curtain air bag module. (Before disposal, it must be deployed.) |
| | | 4. Replace the diagnosis sensor unit. |
| | | 5. Replace the related harness. |
| CURTAIN MODULE RH [OPEN] | • The RH side curtain air bag module circuit is open. | 1. Visually check the wiring harness connection. |
| CURTAIN MODULE RH [VB-SHORT] | • The RH side curtain air bag module circuit is shorted to some power supply circuit. | 2. Replace the harness if it has visible damage. |
| CURTAIN MODULE RH [GND-SHORT] | The RH side curtain air bag module circuit is shorted to ground. | Replace RH side curtain air bag module. (Before disposal, it must be deployed.) |
| | | Replace the diagnosis sensor unit. Replace the related harness. |
| CONTROL UNIT | Diagnosis sensor unit is malfunctioning. | Visually check the wiring harness connection. Replace the diagnosis sensor unit. |

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Trouble diagnoses without CONSULT-II. DIAGNOSTIC PROCEDURE 6

Inspecting SRS malfunctioning parts by using "AIR BAG" warning lamp—Diagnosis mode NOTE:

SRS will not enter Diagnosis mode if no malfunction is detected in User mode.

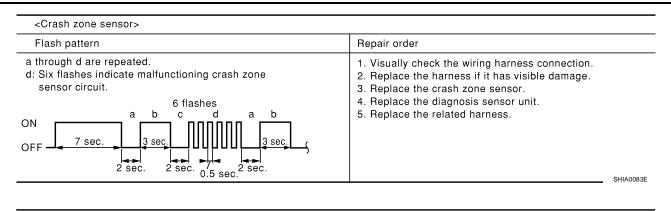
- 1. Turn ignition switch ON.
- 2. After "AIR BAG" warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.
- 3. Wait more than 3 seconds.
- 4. Repeat steps 1 to 3 two times.
- 5. Turn ignition switch ON.

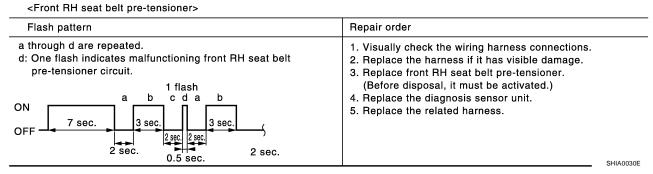
SRS is now in Diagnosis mode.

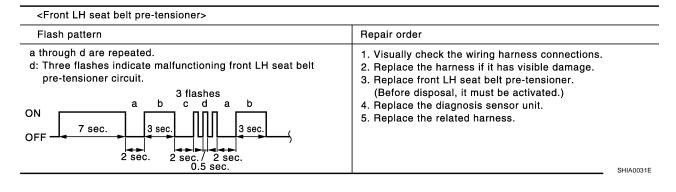
"AIR BAG" warning lamp operates in Diagnosis mode as follows:

WARNING LAMP FLASH CODE CHART А < Diagnosis results (previously stored in the memory) might not be erased after repair or intermittent malfunctions have been detected in the past.> Repair order Flash pattern В a through b are repeated. 1. Go to DIAGNOSTIC PROCEDURES 2 and 3. IGN ON а b b ON 3 7 sec OFF 2 sec. 2 sec SHIA0026E <Driver air bag module> Ε Flash pattern Repair order a through d are repeated. 1. Visually check the wiring harness connection. d: Two flashes indicate malfunctioning driver air bag 2. Replace the harness if it has visible damage. F module circuits. 3. Replace the spiral cable. 4. Replace driver air bag module. 2 flashes а b d b (Before disposal, it must be deployed.) с а ON 5. Replace the diagnosis sensor unit. 7 sec 3 sec 3 sec 6. Replace the related harness. OFF 2 sec. 2 sec. 2 sec. 0.5 sec LHIA0023E SRS <Diagnosis sensor unit> Flash pattern Repair order a through d are repeated. 1. Visually check the wiring harness connections. d: Seven flashes indicate malfunctioning diagnosis sensor unit 2. Replace the harness if it has visible damage. circuit. 3. Replace the diagnosis sensor unit. 4. Replace the related harness. 7 flashes а b С d b а ON 7 sec 3 sec 3 sec OFF Κ 2 sec. 2 sec 2 sec. 0.5 sec. SHIA0028E L <Front passenger air bag module> Μ

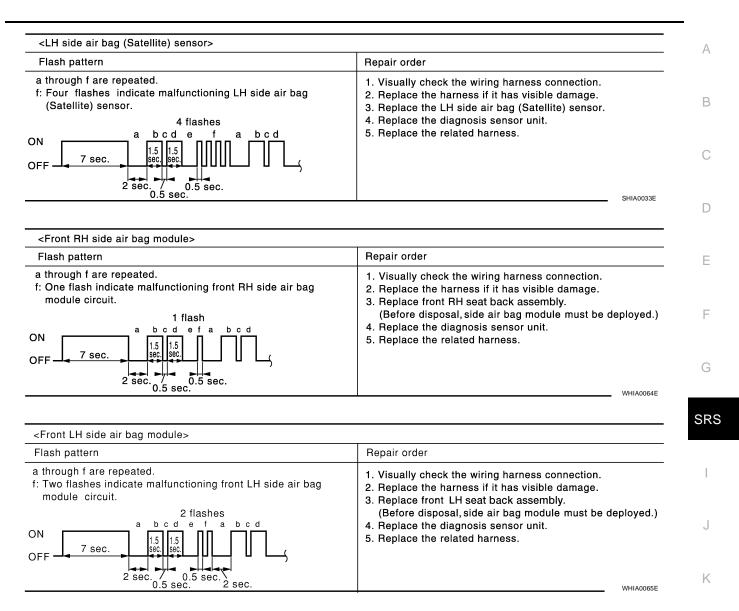
| Flash pattern | Repair order |
|--|---|
| a through d are repeated. d: Eight flashes indicate malfunctioning front passenger air bag module circuit. 8 flashes ON OFF 7 sec. 2 sec. 2 sec. 0.5 sec. 2 sec. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace front passenger air bag module. (Before disposal, it must be deployed.) Replace the diagnosis sensor unit. Replace the related harness. |
| | 311700232 |



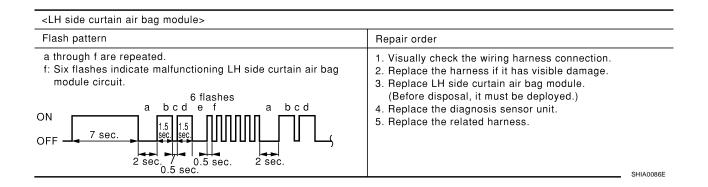




| <rh (satellite)="" air="" bag="" sensor="" side=""></rh> | | | | |
|---|---|--|--|--|
| Flash pattern | Repair order | | | |
| a through f are repeated. f: Three flashes indicate malfunctioning RH side air bag (Satellite) sensor circuit. ON OFF 7 sec. 0.5 sec. 0.5 sec. 2 sec. 0.5 sec. 2 sec. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the RH side air bag (Satellite) sensor. Replace the diagnosis sensor unit. Replace the related harness. | | | |



| <rh air="" bag="" curtain="" module="" side=""></rh> | | L |
|---|---|-----------|
| Flash pattern | Repair order | |
| a through f are repeated. f: Five flashes indicate malfunctioning RH side curtain air bag module circuit. 5 flashes ON OFF 7 sec. 2 sec. 0.5 sec. 2 sec. 7 sec. 0.5 sec. 2 sec. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace RH side curtain air bag module. (Before disposal, it must be deployed.) Replace the diagnosis sensor unit. Replace the related harness. | Μ |
| 0.5 Sec. | | SHIA0084E |



TROUBLE DIAGNOSIS

| Trouble Diagnoses: "AIR BAG" Warning Lamp Doe DIAGNOSTIC PROCEDURE 6 | es Not Turn Off | EHS000NS A |
|--|-----------------|------------|
| 1. SEE THE DEPLOYMENT OF AIR BAG MODULE | | |
| Is air bag module deployed? Yes or No | | В |
| Yes >> Refer to <u>SRS-61, "COLLISION DIAGNOSIS"</u> . No >> GO TO 2. | | С |
| 2. CHECK THE AIR BAG FUSE | | |
| Check 10A fuse [No. 13, located in the fuse block (J/B)]. Refer to <u>PG-3, "POWER SUPPLY ROUTING CIRCUIT"</u> . | | D |
| <u>OK or NG</u> OK >> GO TO 4. NG >> GO TO 3. | | E |
| 3. CHECK AIR BAG FUSE AGAIN | | F |
| Replace "AIR BAG" fuse and turn ignition switch ON. <u>Does the "AIR BAG" fuse blow again?</u> Yes >> Repair main harness. | | G |
| No >> INSPECTION END. 4. CHECK DIAGNOSIS SENSOR UNIT | | SR |
| Connect CONSULT-II and touch "START". | | |
| Is "AIR BAG" displayed on CONSULT-II? | SELECT SYSTEM | |
| <u>Yes or No</u> Yes >> GO TO 5. | ENGINE | J |
| No >> Visually check the wiring harness connection of diagno- | A/T | |

No >> Visually check the wiring harness connection of diagnosis sensor unit. If the harness connection check result is OK, replace diagnosis sensor unit.

| SELECT SYSTEM | | |
|---------------|---------------|--------------------------|
| ENGINE | | J |
| A/T | | |
| AIR BAG | | |
| | | K |
| | | |
| | | L |
| | | |
| | SRS771 | |
| | | M |
| | ENGINE A/T | ENGINE A/T AIR BAG |

5. CHECK HARNESS CONNECTION

Is harness connection between warning lamp and diagnosis sensor unit OK?

OK or NG

- OK >> Replace diagnosis sensor unit.
- NG >> Connect "AIR BAG" warning lamp and diagnosis sensor unit connector properly. If "AIR BAG" warning lamp still does not go off, replace harness.

Trouble Diagnoses: "AIR BAG" Warning Lamp Does Not Turn On DIAGNOSTIC PROCEDURE 7

1. CHECK "METER" FUSE

Check the 10A meter fuse [No. 14, located in the fuse block (J/B)] . Refer to $\underline{\text{PG-3}}, \underline{\text{"POWER SUPPLY ROUTING CIRCUIT"}}$.

OK or NG

OK >> GO TO 3. NG >> GO TO 2.

2. CHECK "METER" FUSE AGAIN

Replace 10A meter fuse [No. 14, located in the fuse block (J/B)] and turn ignition switch ON. Does the meter fuse blow again?

Yes >> Repair the related harness.

No >> **INSPECTION END.**

$\mathbf{3.}\ check$ harness connection between diagnosis sensor unit and combination meter

Disconnect diagnosis sensor unit connector and turn ignition switch ON.

• Does "AIR BAG" warning lamp turn on?

Yes or No

- Yes >> Replace diagnosis sensor unit.
- No >> Check the ground circuit of "AIR BAG" warning lamp.

DRIVER AIR BAG MODULE

DRIVER AIR BAG MODULE

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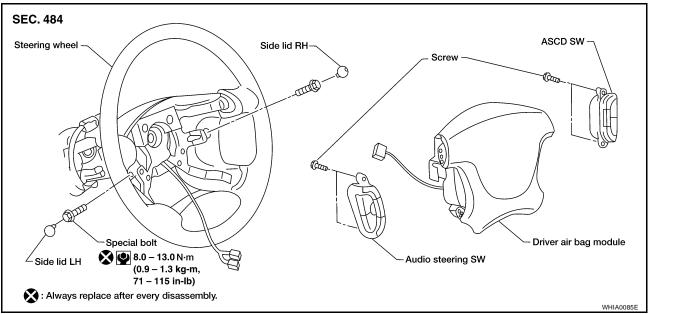
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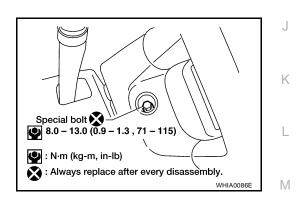
Removal and Installation



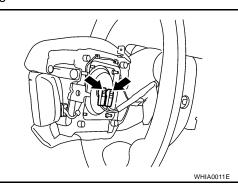
REMOVAL

CAUTION:

- Do not attempt to repair or replace damaged direct-connect driver air bag module connectors. If a direct-connect harness connector is damaged, the spiral cable must be replaced.
- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- Always work from the side of driver air bag module.
- 1. Remove the side lids.
- 2. Remove the right and left side special hex head bolts.



- 3. Disconnect the steering wheel switches sub-harness connector.
- 4. Disconnect the air bag harness connectors, and remove the air bag module.
 - For removal/installation of the direct-connect SRS connectors, refer to <u>SRS-7</u>, "Direct-connect SRS Component Connectors".



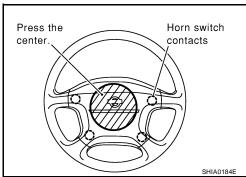
5. Remove the steering switch from the air bag module.

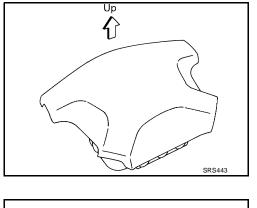
CAUTION:

- Always work from the side of driver air bag module.
- Always place driver air bag module with pad side facing upward.
- Do not insert any foreign objects (screwdriver, etc.) into driver air bag module.
- Do not attempt to disassemble driver air bag module.
- Do not use old bolts after removal; replace with new bolts.
- Do not expose the driver air bag module to temperatures exceeding 90°C (194°F).
- Replace driver 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.

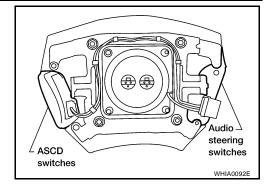
INSTALLATION To install, reverse the removal procedure.

- For removal/installation of the direct-connect SRS connectors, refer to <u>SRS-7</u>, "Direct-connect SRS Component Connectors".
- For installing the air bag module, tighten the special bolts with the center of the horn pad pressed to make the contacts (RH/LH) ON.
- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-19, "SRS Operation</u> <u>Check"</u>.

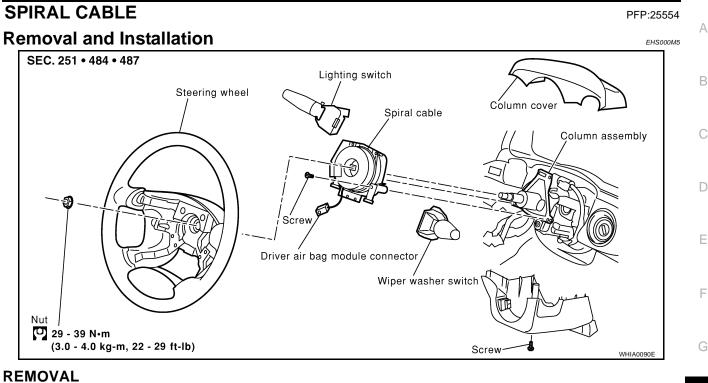








SPIRAL CABLE



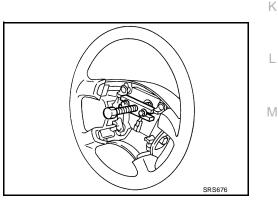
CAUTION:

- SRS Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- 1. Remove driver air bag module. Refer to <u>SRS-39, "Removal and Installation"</u>.
- 2. Set the steering wheel in the neutral position.
- 3. Disconnect the horn switch connector.
- 4. Remove the column cover. Refer to IP-10, "INSTRUMENT PANEL ASSEMBLY" .
- 5. Disconnect the spiral cable connector.

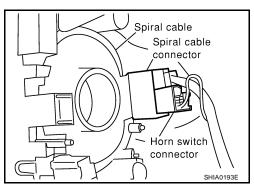
CAUTION:

Do not tap or bump the steering wheel.

6. Remove steering wheel with steering wheel puller. Be careful not to over-tighten puller on steering wheel.

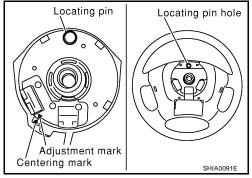


- 7. Remove the spiral cable fixing screws, remove the spiral cable. **CAUTION:**
 - Do not attempt to disassemble spiral cable.
 - Do not apply lubricant to the spiral cable.
- 8. Remove the wiper washer switch and lighting switch from the spiral cable.



CAUTION:

- The spiral cable may snap due to steering operation if the cable is installed in an improper position.
- Also, with the steering linkage disconnected the 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 right end position.



INSTALLATION

To install, reverse the removal procedure.

• After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-19, "SRS Operation Check"</u>.

FRONT PASSENGER AIR BAG MODULE

FRONT PASSENGER AIR BAG MODULE

Removal and Installation

The passenger air bag module originally installed in the vehicle uses direct-connect style harness connectors. Service replacement passenger air bag modules use tab-locking style harness connectors. If the passenger air bag module is replaced or if the direct-connect harness connectors are damaged, the vehicle wiring harness must be modified to allow connection of the service replacement passenger air bag module. Refer to SRS-44, "WIRING HARNESS MODIFICATION" for wiring harness modification procedure.

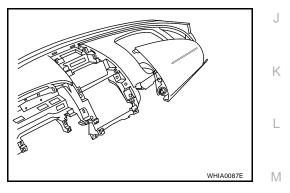
REMOVAL

CAUTION:

- Do not attempt to repair or replace damaged direct-connect front passenger air bag module connectors. If a direct-connect harness connector is damaged, the front passenger air bag must be replaced and the wiring harness modified.
- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- Always work from the side of or under front passenger air bag module.
- 1. Remove the glove box. Refer to IP-15, "Glove Box" .
- 2. Remove cluster lid C. Refer to IP-12, "Cluster Lid C" .
- 3. Remove cluster lid D. Refer to IP-13, "Cluster Lid D" .
- 4. Remove the side ventilator grille RH. Refer to <u>ATC-118, "Side Ventilator Grille RH"</u> (auto A/C) or <u>MTC-78,</u> G <u>"Side Ventilator Grille RH"</u> (manual A/C).
- 5. Remove screws retaining instrument panel pad assembly.
- 6. Remove hex head bolt (through glove box opening) retaining front passenger air bag module to instrument panel crossmember.
- 7. Remove instrument panel pad and front passenger air bag module assembly from opening in instrument panel. Rest air bag module on the front edge of the instrument panel opening (crossmember) taking care to not allow module to hang by the connected wiring.

CAUTION:

 Do not allow the front passenger air bag module to hang by the connected wires.



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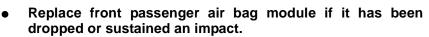
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- 8. Disconnect the passenger air bag module electrical connector(s) and remove the instrument panel pad and front passenger air bag module assembly from the vehicle.
 - For removal/installation of the direct-connect SRS connectors, refer to <u>SRS-7</u>, "Direct-connect <u>SRS</u> <u>Component Connectors</u>".

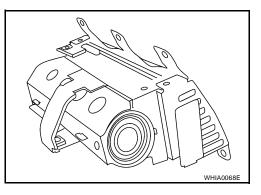
FRONT PASSENGER AIR BAG MODULE

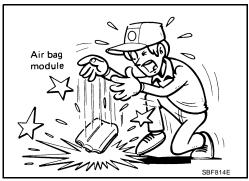
CAUTION:

- Always place front passenger air bag module with caution label side facing upward.
- Do not insert any foreign objects (screwdriver, etc.) into front passenger air bag module.
- Do not attempt to disassemble front passenger air bag module.
- Do not use old bolt after removal; replace with new bolt.



- Do not expose the front passenger air bag module to temperatures exceeding 90°C (194°F).
- Do not allow oil, grease or water to come in contact with the front passenger air bag module.





INSTALLATION

Original Passenger Air Bag Module

To install, reverse the removal procedure.

For removal/installation of the direct-connect SRS connectors, refer to <u>SRS-7</u>, "Direct-connect SRS Component Connectors".

CAUTION:

- Always work from the side of or under front passenger air bag module.
- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-19, "SRS Operation Check"</u>.

Service Replacement Passenger Air Bag Module

- 1. Untape yellow 4-pin service replacement air bag connector from the main harness.
- 2. Position the front passenger air bag module and instrument panel pad assembly in the instrument panel.
- 3. Install the hex head bolt to secure front passenger air bag module to the instrument panel crossmember.
- 4. Install screws to secure the instrument panel pad.
- 5. Clip the front passenger air bag module connector to the mounting bracket.
- 6. Install the side ventilator grille RH. Refer to <u>ATC-118</u>, "Side Ventilator Grille RH" (auto A/C) or <u>MTC-78</u>, "Side Ventilator Grille RH" (manual A/C).
- 7. Install cluster lid D. Refer to IP-13, "Cluster Lid D".
- 8. Install cluster lid C. Refer to IP-12, "Cluster Lid C".
- 9. Install the glove box. Refer to <u>IP-15, "Glove Box"</u>.
- 10. Connect the front passenger air bag module harness connector to yellow 4-pin service replacement air bag connector.

CAUTION:

- Always work from the side of or under front passenger air bag module.
- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-19, "SRS Operation Check"</u>.

WIRING HARNESS MODIFICATION

The passenger air bag module originally installed in the vehicle uses direct-connect style harness connectors. Service replacement passenger air bag modules use tab-locking style harness connectors. If the passenger

SRS-44

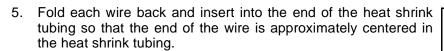
air bag module is replaced or if the direct-connect harness connectors are damaged, the vehicle wiring harness must be modified to allow connection of the service replacement passenger air bag module.

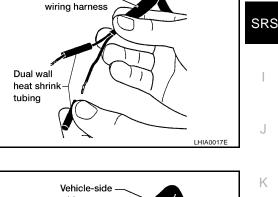
NOTE:

The wiring harness modification is to be performed only if the vehicle is equipped with the original passenger air bag which uses direct-connect harness connectors. If the passenger air bag is to be replaced in a vehicle that has already had the service replacement passenger air bag installed, the wiring harness modification is not required.

CAUTION:

- Do not attempt to repair or replace damaged direct-connect front passenger air bag module connectors. If a direct-connect harness connector is damaged, the front passenger air bag must be replaced and the wiring harness modified.
- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- Always work from the side of or under front passenger air bag module.
- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-19, "SRS Operation Check"</u>.
- 1. Locate the yellow and orange direct-connect passenger air bag module harness connectors.
- 2. Use wire cutters to cut back both previously used direct-connect passenger air bag module harness connectors from the vehicle wiring harness approximately 50 mm (1.9 in) from the connectors.
- 3. Remove approximately 150 mm (5.9 in) of the vehicle harness covering from the cut end.
- 4. Slide a piece of dual-wall heat shrink tubing (provided in the passenger air bag service kit) onto each wire of the previously used vehicle wiring harness.



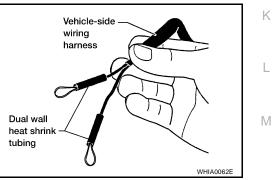


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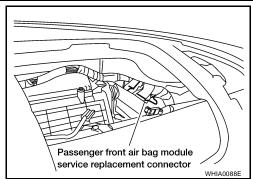
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- 6. Use a heat gun to shrink the heat shrink tubing and seal the wire.
- 7. Use electrical tape to secure the modified circuits to the outside of the wiring harness.

FRONT PASSENGER AIR BAG MODULE

8. Locate the front passenger air bag service replacement connector that is taped back to the main harness. Unwrap the tape to access the yellow service replacement connector.



FRONT SIDE AIR BAG MODULE

Removal

WARNING:

Removal of front side air bag module should only be done to allow deployment of front side air bag module prior to disposal of seatback assembly.

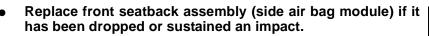
Only complete seatback assemblies can be replaced. Refer to SEC. 870 SE-16, "Removal of seatback assembly" .

CAUTION:

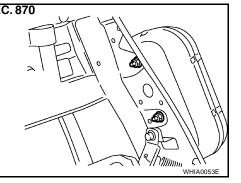
- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- Always work from the rear of the front side air bag module.
- 1. Remove the front seat. Refer to SE-15, "REMOVAL".
- 2. Remove the seatback trim and pad. Refer to SE-15, "SEAT-BACK TRIM AND PAD" .
- 3. Remove the seatback rear finisher, and remove the retainers securing the seat cushion trim. Refer to SE-16, "SEAT CUSH-ION TRIM AND PAD" .
- 4. Remove air bag module harness clips.
- 5. Remove the special fasteners coated with bonding agent from the front side air bag module, and remove the front side air bag module.

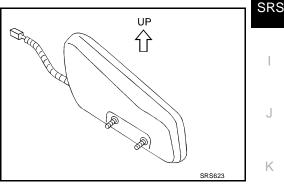
CAUTION:

- When using a clip removal tool to remove the seatback board, take care not to damage the harness for front side air bag module.
- Always place the front side air bag module standing with the stud bolt side facing down.
- Do not insert any foreign objects (screwdrivers, etc.) into front side air bag module.
- Do not attempt to disassemble front side air bag module.



- Do not expose front seatback assembly (side air bag module) to temperatures exceeding 90°C (194°F).
- Do not allow oil, grease or water to come in contact with the front side air bag module.
- After front side air bag module inflates, front seatback assembly must be replaced.







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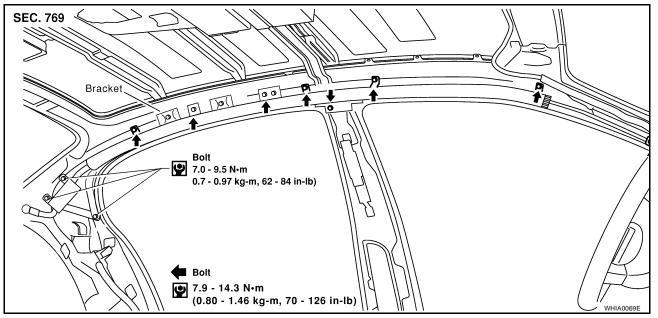
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SIDE CURTAIN AIR BAG MODULE

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Removal and Installation





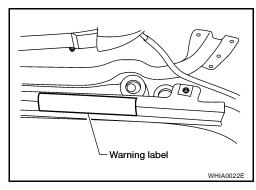
REMOVAL

CAUTION:

- Do not attempt to repair or replace damaged direct-connect side curtain air bag module connectors. If a direct-connect harness connector is damaged, the harness must be replaced.
- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- Always work from the side of the side curtain air bag module.
- 1. Remove headlining. Refer to EI-33, "Removal and Installation" .
- 2. Remove three rearmost side curtain air bag inflator fixing bolts, and unhook the side curtain air bag inflator.
- 3. Disconnect side curtain air bag connector.
 - For removal/installation of the direct-connect SRS connectors, refer to <u>SRS-7</u>, "<u>Direct-connect SRS</u> <u>Component Connectors</u>".
- 4. Unclip wiring harness from side curtain air bag module bracket.
- 5. Remove side curtain air bag module fixing bolts and remove the side curtain air bag module.

CAUTION:

- Always place the side curtain air bag module with the warning label facing upward.
- Do not attempt to disassemble side curtain air bag module.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module connector.



- Replace side curtain air bag module if it has been dropped or sustained an impact.
- Do not expose the air bag module to temperatures exceeding 90°C (194°F).
- Do not allow oil, grease or water to come in contact with the side curtain air bag module.



INSTALLATION

To install, reverse the removal procedure.

 For removal/installation of the direct-connect SRS connectors, refer to <u>SRS-7</u>, "Direct-connect SRS Component Connectors".

CAUTION:

- Always work from the side of the side curtain air bag module.
- After replacement of side curtain air bag module, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-19, "SRS Operation Check"</u>.

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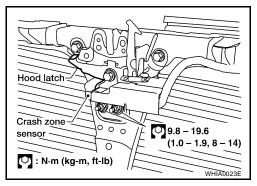
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CRASH ZONE SENSOR

Removal and Installation REMOVAL

CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- 1. Remove front grille. Refer to EI-17, "Removal and Installation" .
- 2. Remove crash zone sensor connector.
- 3. Remove crash zone sensor fixing nuts.



CAUTION:

- Replace crash zone sensor if it has been dropped or sustained an impact.
- Do not attempt to disassemble crash zone sensor.

INSTALLATION

To install, reverse the removal procedure.

CAUTION:

- Check crash zone sensor for proper installation.
- After the work is complete, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-19, "SRS Operation Check"</u>.

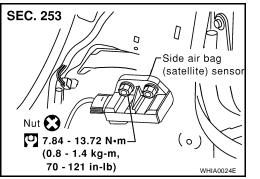
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SIDE AIR BAG (SATELLITE) SENSOR

Removal and Installation REMOVAL

CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- 1. Remove seat belt pre-tensioner. Refer to <u>SB-3</u>, "Removal and <u>Installation of Front Seat Belt"</u>.
- 2. Remove side air bag (satellite) sensor fixing nuts.
- 3. Remove the side air bag (satellite) sensor connector.



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CAUTION:

- Do not use old nuts; replace with new ones.
- Check side air bag (satellite) sensor to ensure it is free of deformities, dents, cracks or rust. If it shows any visible signs of damage, replace it with new one.
- Do not attempt to disassemble side air bag (satellite) sensor.
- Replace side air bag (satellite) sensor if it has been dropped or sustained an impact.

INSTALLATION

To install, reverse the removal procedure.

CAUTION:

- Check side air bag (satellite) sensor for proper installation.
- After replacement of side air bag (satellite) sensor, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-19, "SRS Operation Check"</u>.

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FRONT SEAT BELT PRE-TENSIONER

FRONT SEAT BELT PRE-TENSIONER

Removal and Installation

For removal and installation procedures, refer to <u>SB-3</u>, "Removal and Installation of Front Seat Belt" .

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DIAGNOSIS SENSOR UNIT

Removal and Installation REMOVAL

CAUTION:

- Before servicing SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- 1. Disconnect each harness connector for the air bag module and seat belt pre-tensioner.
- Remove center console. Refer to <u>IP-12</u>, "Removal and Installation".
- 3. Disconnect diagnosis sensor unit connectors.
- 4. Remove special hex bolts from the diagnosis sensor unit.

CAUTION:

- Do not use old bolts. Replace with new ones.
- Check diagnosis sensor unit bracket to ensure it is free of deformities, dents, cracks or rust. If it shows any visible signs of damage, replace with new one.
- Replace diagnosis sensor unit if it has been dropped or sustained an impact.

INSTALLATION

To install, reverse the removal procedure.

NOTE:

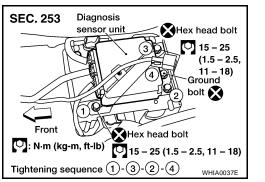
The diagnosis sensor unit must always be installed with the arrow mark "
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pointing toward the front of the vehicle for proper operation.

CAUTION:

- Check the diagnosis sensor unit for proper installation.
- After replacement of diagnosis sensor unit, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-19, "SRS Operation Check"</u>.

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 <u>SRS-17, "DIAGNOSIS MODE FOR CONSULT-II"</u>.



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Caution for Air Bag Module and Seat Belt Pre-tensioner

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- Before disposing of air bag module, seat belt pre-tensioner or vehicle equipped with such systems, deploy the systems. If such systems have already been deployed due to an accident, dispose of them as indicated in "<u>SRS-60, "DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER"</u>.
- When deploying the air bag module or seat belt pre-tensioner, always use the Special Service Tool; Deployment tool [KV99106400 (J38381)].
- When deploying the air bag module or seat belt pre-tensioner, stand at least 5 m (16 ft) away from the deployment component.
- When deploying air bag module or 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 deploy 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.
- Be sure to wear gloves when handling a deployed air bag module or seat belt pre-tensioner.
- Never apply water to the deployed air bag module or seat belt pre-tensioner.
- Wash your hands clean 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 or seat belt pre-tensioner while mounted in vehicle.
- Use a voltmeter to make sure the vehicle battery is fully charged.
- Do not dispose of the air bag module or seat belt pre-tensioner undeployed.

CHECKING DEPLOYMENT TOOL

Connecting to Battery

CAUTION:

The battery must show voltage of 9.6V or more.

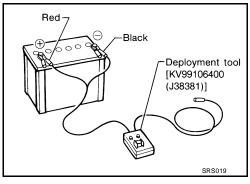
Remove the battery from the vehicle and place it on dry wood blocks approximately 5 m (16 ft) away from the vehicle.

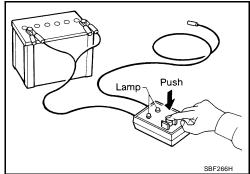
- Wait 3 minutes after the vehicle battery is disconnected before proceeding.
- Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.

Make sure 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 to the ON position. The left side lamp in the tool, marked "air bag connector voltage" should illuminate. If it does not illuminate, replace the tool.





Air Bag Deployment Tool Lamp Illumination Chart (Battery connected)

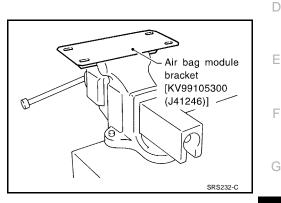
| | _ | |
|------------------|--|---|
| Switch operation | Left side lamp, green* "AIR BAG CONNECTOR VOLTAGE" | Right side lamp, green* "DEPLOYMENT TOOL POWER" |
| OFF | OFF | ON |
| ON | ON | ON |

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

DEPLOYMENT PROCEDURES FOR AIR BAG MODULE (OUTSIDE OF VEHICLE)

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 [KV99105300 (J41246)] in a vise secured to a firm foundation during deployment.



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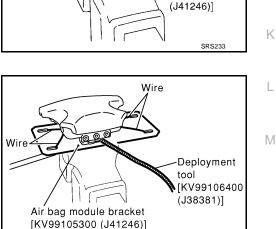
Deployment of Driver Air Bag Module (Outside of vehicle)

1. Using wire, secure air bag module to air bag module bracket [SST: KV99105300 (J41246)] at two places.

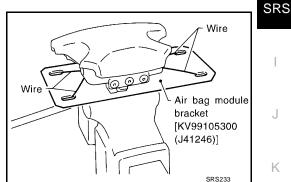
CAUTION:

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

- 2. Firmly secure air bag module bracket [SST: KV99105300 (J41246)] with air bag module attached, in a vise.
- 3. Connect deployment tool [SST: KV99106400 (J38381)] to air bag module connector using deployment tool adapter (J38381-80).



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- 4. Connect red clip of deployment tool 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 "air bag connector voltage", will illuminate and the air bag module 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 Front Passenger Air Bag Module (Outside of vehicle)

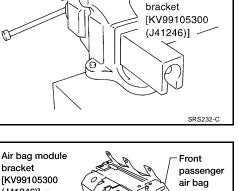
- Make an 8.5 mm (0.335 in) diameter hole in air bag module bracket [SST: KV99105300 (J41246)] at the position shown in figure.
- 2. Firmly secure air bag module bracket [SST: KV99105300 (J41246)] in a vise.

3. Match the two holes in air bag module bracket (held in vise) and front passenger air bag module and fix them with two bolts [M8 \times 25 - 30 mm (0.98 - 1.18 in)].

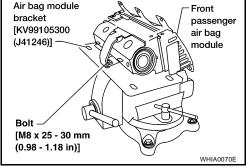
CAUTION:

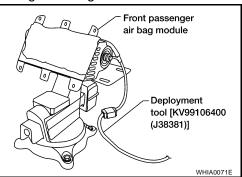
If a gap exists between front passenger air bag module and air bag module bracket, use a piece of wood inserted in the gap to stabilize the air bag module.

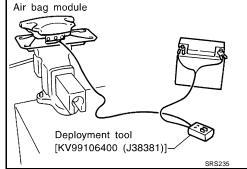
- 4. Connect deployment tool [SST: KV99106400 (J38381)] to front passenger air bag module. For service replacement front passenger air bag module, use deployment tool adapter (J38381-65).
- 5. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
- 6. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.



Air bag module







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 will deploy.

CAUTION:

1.

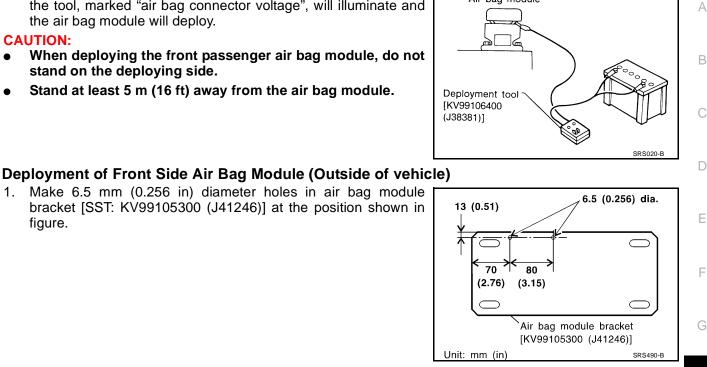
figure.

When deploying the front passenger air bag module, do not stand on the deploying side.

Make 6.5 mm (0.256 in) diameter holes in air bag module

bracket [SST: KV99105300 (J41246)] at the position shown in

Stand at least 5 m (16 ft) away from the air bag module.



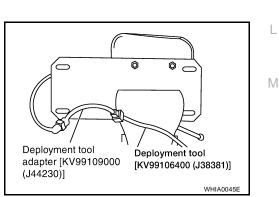
Air bag module

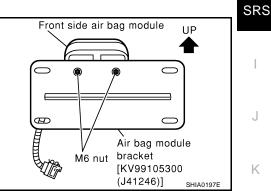
- 2. Firmly secure air bag module bracket [SST: KV99105300 (J41246)] in a vise.
- 3. Insert the stud bolts of side air bag module into the two holes in air bag module bracket (held in vise) and fix them with two M6 nuts.

CAUTION:

Side air bag module should be secured to air bag module bracket [SST: KV99105300 (J41246)] in a vise with stud bolt side facing down.

4. Connect deployment tool [SST: KV99106400 (J38381)] connector to connector on air bag module using deployment tool adapter [SST: KV99109000 (J44230)].





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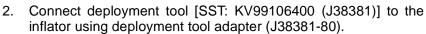
- 5. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
- 6. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- 7. Press the button on the deployment tool. The left side lamp on the tool, marked "air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

CAUTION:

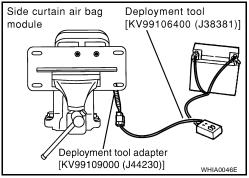
When deploying the front side air bag module, stand at least 5 m (16 ft) away from the air bag module.

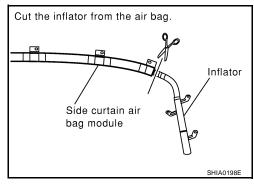
Deployment of Side Curtain Air Bag Module (Outside of vehicle)

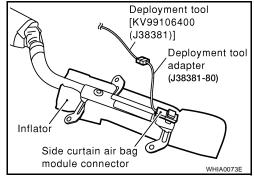
1. Cut the inflator from side curtain air bag module.

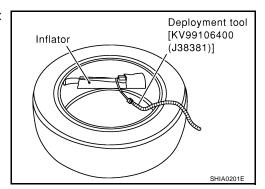


3. Put the inflator connected with the deployment tool [SST: KV99106400 (J38381)] into a tire without a wheel.









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

CAUTION:

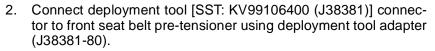
Tie all tires together with a strap in order keep them standing.

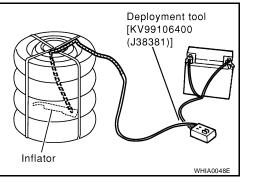
- 5. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
- 6. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- Press the button on the deployment tool. The left side lamp on the tool, marked "air bag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

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

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

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



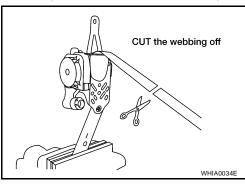


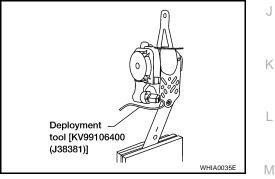
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SRS

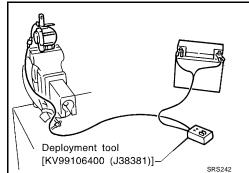




- 3. Connect red clip of deployment tool to battery positive terminal and black clip to negative terminal.
- 4. The lamp on the right side of the tool, marked "deployment tool power", should glow green, not red.
- 5. Press the button on the deployment tool. The left side lamp on the tool, marked "seat 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 m (16 ft) away from the seat belt pre-tensioner.



DEPLOYMENT OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER WHILE MOUNTED IN VEHICLE

When disposing of a vehicle, deploy air bag module and seat belt pre-tensioners while they are mounted in vehicle.

CAUTION:

When deploying air bag module or seat belt pre-tensioner, ensure vehicle is empty.

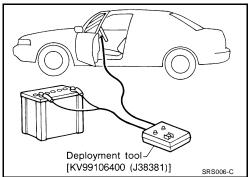
- 1. Disconnect both the vehicle battery cables and wait 3 minutes.
- 2. Disconnect air bag module and seat belt pre-tensioner connector.

 Connect deployment tool [SST: KV99106400 (J38381)] to air bag module or seat belt pre-tensioner. For front driver air bag module, use deployment tool adapter (J38381-80). For front passenger air bag module (service replacement), use deployment tool adapter (J38381-65). For side curtain air bag module, use deployment tool adapter (J38381-80). For side air bag module, use deployment tool adapter [SST: KV99109000 (J44230)].

- 4. Connect red clip of deployment tool 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 "air bag connector voltage", will illuminate and the air bag module or seat belt pre-tensioner will deploy.

CAUTION:

Activate only one air bag module or seat belt pre-tensioner at a time.

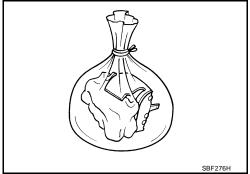


DISPOSING OF AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Deployed air bag module and seat belt pre-tensioner are very hot. Before disposing of air bag module or seat belt pre-tensioner, wait at least 30 minutes or 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.
- Be sure to 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 attempt to disassemble air bag module or seat belt pre-tensioner.
- Air bag module and seat belt pre-tensioner cannot be reused.
- Wash your hands clean after finishing work.



COLLISION DIAGNOSIS

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For Frontal Collision

To repair the SRS, perform the following steps.

| | ······································ | |
|----|---|---|
| | IEN SRS (EXCEPT THE FRONT SIDE AIR BAG AND SIDE CURTAIN AIR BAG MODULES) IS TIVATED IN A COLLISION | В |
| 1. | Replace the diagnosis sensor unit. | |
| 2. | Remove the air bag modules (except the front side air bag modules and side curtain air bag modules), crash zone sensor assembly, bracket and seat belt pre-tensioner assemblies. | С |
| 3. | Check the SRS components using the table below: | |
| | • Replace any SRS components showing visible signs of damage (dents, cracks and deformation). | D |
| 4. | Install new air bag modules (except the front side air bag modules and side curtain air bag modules) crash zone sensor assembly, bracket and seat belt pre-tensioner assemblies. | _ |
| 5. | Conduct self-diagnosis using CONSULT-II or "AIR BAG" warning lamp. Refer to <u>SRS-19</u> , " <u>SRS Operation</u> <u>Check</u> " for details. Ensure entire SRS operates properly. | E |
| WF | IEN SRS IS NOT ACTIVATED IN A COLLISION | F |
| 1. | Check the SRS components using the table below: | I |
| | • Replace any SRS components showing visible signs of damage (dents, cracks and deformation). | |
| 2. | Conduct self-diagnosis using CONSULT-II or "AIR BAG" warning lamp. Refer to <u>SRS-19, "SRS Operation</u> <u>Check"</u> for details. Ensure entire SRS operates properly. | G |
| | | |

SRS INSPECTION (FOR FRONTAL COLLISION)

| Part | SRS is activated | SRS is NOT activated | SRS |
|--|---|--|-----|
| Air bag module (driver and front pas- | REPLACE Install with new bolts. | 1. Remove air bag module. Check harness cover and connectors for damage, termi- nals for deformities, and harness for binding. | |
| senger air bag mod- ule) | | 2. Install driver air bag module into the steering wheel to check fit and alignment with the wheel. | |
| | | 3. Install passenger air bag module into the instrument panel to check fit with the instrument panel. | J |
| | | 4. If no damage is found, reinstall with new bolts. | |
| | | If damaged—REPLACE. Install air bag modules with new special bolts. Air bag modules must be deployed before disposal. | K |
| Crash zone sensor | REPLACE the crash zone sensor and | 1. Remove the crash zone sensor. Check harness connectors for damage, terminals for deformities, and harness for binding. | - |
| | bracket with new nuts. | 2. Check for visible signs of damage (dents, cracks, deformation) of the crash zone sensor and bracket. | L |
| | | 3. Install the crash zone sensor to check fit. | |
| | | 4. If no damage is found, reinstall with new nuts. | M |
| | | 5. If damaged—REPLACE the crash zone sensor and bracket with new nuts. | |
| Seat belt pre-ten- sioner assemblies | REPLACE Install seat belt pre- tensioner with new | 1. Remove seat belt pre-tensioners. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. | - |
| | bolts. | 2. Check belts for damage and anchors for loose mounting. | |
| | | 3. Check retractor for smooth operation. | |
| | | 4. Check seat belt adjuster for damage. | |
| | | 5. If no damage is found, reinstall seat belt pre-tensioner assembly. | |
| | | If damaged—REPLACE. Install the seat belt pre-tensioners with new bolts. Seat belt pre-tensioners must be deployed before disposal. | |
| Diagnosis sensor unit | REPLACE | 1. Check case for dents, cracks or deformities. | - |
| | Install with new bolts. | 2. Check connectors for damage, and terminals for deformities. | |
| | | 3. If no damage is found, reinstall with new bolts and ground bolt. | |
| | | If damaged—REPLACE. Install diagnosis sensor unit with new bolts and ground bolt. | _ |

SRS-61

COLLISION DIAGNOSIS

| Part | SRS is activated | SRS is NOT activated | |
|---------------------|--|--|--|
| Steering wheel | 1. Visually check steeri | ng wheel for deformities. | |
| | 2. Check harness (built | into steering wheel) and connectors for damage, and terminals for deformities. | |
| | 3. Install air bag module to check fit or alignment with steering wheel. | | |
| | 4. Check steering wheel for excessive free play. | | |
| | 5. If no damage is foun | d, reinstall with nuts. | |
| | 6. If damaged—REPLA | ACE. | |
| Spiral cable | 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 with screws. | | |
| | 5. If damaged—REPLA | NCE. | |
| Harness and connec- | 1. Check connectors fo | r poor connection, damage, and terminals for deformities. | |
| tors | 2. Check harness for bi | inding, chafing, cuts, or deformities. | |
| | 3. If no damage is foun | d, 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 | 1. Visually check instrument panel for damage. | | |
| | 2. If no damage is found, reinstall the instrument panel. | | |
| | 3. If damaged—REPLA | CE the instrument panel with bolts. | |

For Side Collision

To repair the SRS, perform the following steps.

WHEN SRS IS ACTIVATED IN THE SIDE COLLISION

- 1. Replace the following components:
- Front seat back assembly (on the side on which side air bag is activated)
- Diagnosis sensor unit
- (LH and RH) side air bag (satellite) sensors
- 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).

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3. Conduct self-diagnosis using CONSULT-II and "AIR BAG" warning lamp. Refer to <u>SRS-19</u>, <u>"SRS Opera-</u> <u>tion Check"</u> for details. Ensure entire SRS operates properly.

WHEN SRS IS NOT ACTIVATED IN THE SIDE 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-II and "AIR BAG" warning lamp. Refer to <u>SRS-19</u>, <u>"SRS Opera-</u> <u>tion Check"</u> for details. Ensure entire SRS operates properly.

COLLISION DIAGNOSIS

SRS INSPECTION (FOR SIDE COLLISION)

| Part | Front side air bag and side curtain air bag are activated | Front side air bag and side curtain air bag are NOT activated | |
|---|--|--|--|
| | Doploce the side our | 1. Check for visible signs of damage (dents, tears, deformation) of the center pillar on the collision side. | |
| | Replace the side cur- tain air bag module. | 2. If damaged— Remove the side curtain air bag module. | |
| (LH or RH) side cur- | (Repair the center pil- | 3. Check for visible signs of damaged (tears etc.) of the side curtain air bag module. | |
| tain air bag module | lar inner, etc. before | 4. Check harness and connectors for damage, and terminals for deformities. | |
| | installing new one if | 5. If no damage is found, reinstall the side curtain air bag module with new bolts. | |
| | damaged.) | If damaged—REPLACE the side curtain air bag module with new bolts. Air bag modules must be deployed before disposal. | |
| Front (LH or RH) side air bag module | REPLACE front seat back assembly. | 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 seat back assembly. | |
| (LH or RH) side air bag (satellite) sensor | REPLACE the side air bag (satellite) | 1. Remove the side air bag (satellite) sensor on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding. | |
| | sensor on the colli- sion side with new nuts. | 2. Check for visible signs of damage (dents, cracks, deformation) of the side air bag (satellite) sensor. | |
| | (Repair the center pil- | 3. Install the side air bag (satellite) sensor to check fit. | |
| | lar inner, etc. before | 4. If no damage is found, reinstall the side sir bag (satellite) sensor with new nuts. | |
| | installing new one if damaged.) | 5. If damaged—REPLACE the side air bag (satellite) sensor with new nuts. | |
| Diagnosis sensor unit | REPLACE the diag- | 1. Check case and bracket for dents, cracks or deformities. | |
| | nosis sensor unit with the new bolts. | 2. Check connectors for damage, and terminals for deformities. | |
| | the new boils. | If no damage is found, reinstall the diagnosis sensor unit with new bolts and ground bolt. | |
| | | 4. If damaged—REPLACE the diagnosis sensor unit with new bolts and ground bolt. | |
| Seat belt pre-ten- sioner assembly | | t can be extended smoothly. ot be extended smoothly, | |
| Sioner assembly | | s of the center pillar inner. | |
| | | | |
| | If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly. Remove the seat belt pre-tensioner assembly on the collision side. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. | | |
| | 3. Check for visible signs of damage (dents, cracks, deformation) of the seat belt pre-tensioner assembly. | | |
| | 4. Check seat belt adjuster for damage. | | |
| | - | - | |
| | 5. If no damage is found, reinstall the seat belt pre-tensioner assembly.6. If damaged—REPLACE the seat belt pre-tensioner assembly with new bolts. | | |
| | | isioner assembly must be deployed before disposing of it. | |
| Seat (with front side | REPLACE front seat | 1. Visually check the seat on the collision side. | |
| air bag) | back assembly. | 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. | |
| | | If damaged—REPLACE the damaged seat parts using new bolts. If the front seat back is damaged, the front seat back assembly must be replaced. | |
| Center inner pillar | 1. Check the center inn | er pillar on the collision side for damage (dents, cracks, deformation). | |
| | 2. If damaged—REPAI | R the center inner pillar. | |
| Trim/headliner | Check for visible signs of damage (dents, cracks, deformation) of the interior trim on the collision side. If damaged—REPLACE the damaged trim parts. | | |