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PRECAUTIONS PFP:00001

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

HS0012C

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 Man-

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 harnesses or harness connectors.

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

EHS0012D

- 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 air bag diagnosis sensor unit must always be installed with the arrow mark "←" pointing toward the front of the vehicle for proper operation. Also check the air bag diagnosis sensor unit for cracks, deformities or rust before installation and replace as required.
- The spiral cable must be aligned with the neutral position since its rotations are limited. Do not attempt to turn steering wheel or column after removal of steering gear.
- Handle air bag module carefully. Always place driver and front passenger air bag modules with the pad side facing upward and seat mounted front side air bag module standing with the stud bolt side facing down.
- Conduct self-diagnosis to check entire SRS for proper function after replacing any components.
- After air bag inflates, the front instrument panel assembly should be replaced if damaged.

Occupant Classification System Precaution

EHS0012E

Replace control unit and passenger front seat cushion as an assembly.

Trouble Diagnosis Precaution

EHS0012F

When you read wiring diagrams, refer to the following:

- GI-15, "How to Read Wiring Diagrams" in GI section
- PG-4, "POWER SUPPLY ROUTING CIRCUIT" in PG section

When you perform trouble diagnosis, refer to the following:

- GI-11, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES" in GI section
- GI-27, "How to Perform Efficient Diagnosis for an Electrical Incident" in GI section

Check for any service bulletins before servicing the vehicle.

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Revision: November 2005 SRS-3 2005 Pathfinder

PREPARATION

PREPARATION PFP:00002

Special Service Tools

EHS0012G

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 |
|--|-------|--------------------------------------|
| — (J-42057-UPD) Air bag key set Part of kit (J-42057) | RS210 | Removing and installing air bag lock |

Commercial Service Tools

EHS0012H

| (Kent-Moore No.) Tool name | | Description |
|---|-----------|-------------------------|
| (J-1859A) | | Removing steering wheel |
| Steering wheel puller | | |
| | LHIA0043E | |
| (J-42578) Steering wheel puller legs | | Removing steering wheel |
| | | |
| | LHIA0044E | |

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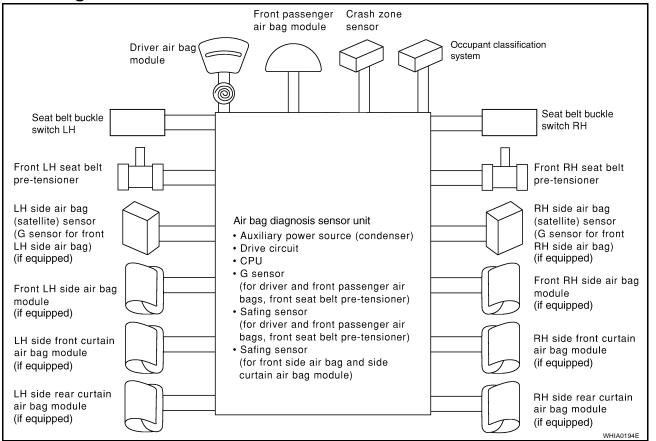
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FHS00121

SUPPLEMENTAL RESTRAINT SYSTEM (SRS) PFP:28556 **SRS Configuration** Front passenger Crash zone



The air bag deploys if the air bag diagnosis sensor unit is activated 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, front passenger air bag module and front seat belt pre-tensioners are activated in a frontal collision but not in a side collision.

SRS configurations for some collision modes are as follows:

| SRS configuration | Frontal collision | Left side collision | Right side colli- sion | Rollover |
|--|-------------------|---------------------|---------------------------|----------|
| Driver air bag module | х | _ | _ | _ |
| Front passenger air bag module | х | _ | _ | _ |
| Front LH seat belt pre-tensioner | х | _ | _ | х |
| Front RH seat belt pre-tensioner | х | _ | _ | х |
| Front LH side air bag module (if equipped) | _ | х | _ | _ |
| Front RH side air bag module (if equipped) | _ | _ | х | _ |
| LH side front curtain air bag module (if equipped) | _ | х | _ | х |
| LH side rear curtain air bag module (if equipped) | _ | х | _ | х |
| RH side front curtain air bag module (if equipped) | _ | _ | х | х |
| RH side rear curtain air bag module (if equipped) | _ | _ | х | х |

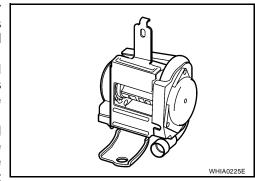
SRS-5 2005 Pathfinder Revision: November 2005

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.

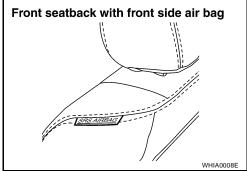


Front Side Air Bag

EHS0012K

EHS0012J

Front side air bag modules are built into the front seatback assemblies. Vehicles with side air bags are equipped with labels as shown.



Side Curtain Air Bag

EHS0012L

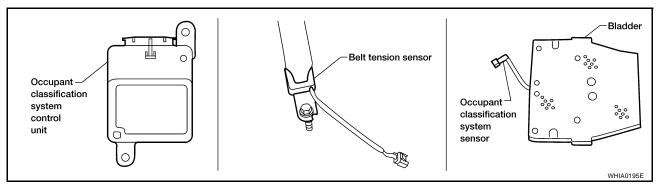
Side curtain air bag modules are located above the vehicle headlining. Vehicles with side curtain air bags are equipped with labels as shown.



Occupant Classification System

FHS0012N

The occupant classification system identifies different size occupants, out of position occupants, and detects if child seat is present in the front passenger seat. The occupant classification system receives inputs from the occupant classification system sensor (located inside the passenger seat cushion assembly) and belt tension sensor (part of the passenger front seat belt assembly and located at the belt anchor location). Depending on classification of passenger, the occupant classification system sends a signal to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit uses this signal to determine deployment or non deployment of the passenger front air bag in the event of a collision. Depending on the signal received, the air bag diagnosis sensor unit can disable the passenger front air bag completely. If this occurs the air bag diagnosis sensor unit will turn on the PASS AIR BAG OFF indicator.



Direct-connect SRS Component Connectors

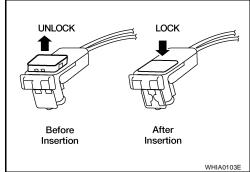
EHS0012N

The following SRS components use direct-connect style harness connectors.

- Driver air bag module
- Front passenger air bag module
- LH side front curtain air bag module
- LH side rear curtain air bag module
- RH side front curtain air bag module
- RH side rear 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 to SRS component. When locked, the black locking tab is level with the connector housing.



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TROUBLE DIAGNOSIS

PFP:00004

FHS00120

Trouble Diagnosis Introduction

CAUTION:

- Do not use electrical test equipment on any circuit related to the SRS unless instructed to do so 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 SRS wiring harnesses. If a harness is damaged, replace it with a new one.
- Keep ground connections 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 | X | ON-OFF operation |
| CONSULT-II | _ | X | 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 SC-4, "How to Handle Battery" .)
- Fuse (Refer to <u>SRS-12, "Wiring Diagram SRS —"</u>.)
- System component-to-harness connections

WORK FLOW Α REFERENCE ITEM В **ACTION ITEM** Check in Listen to customer complaints and requests. D Preliminary check *1 Perform preliminary check. Е Check for any service bulletin. SRS Operation Check *2 Perform self-diagnosis using "AIR BAG" warning lamp. - User mode • DIAGNOSTIC PROCEDURE Inspect malfunctioning part. - Diagnosis mode 4: Using CONSULT-II *3 Perform self-diagnosis using CONSULT-II. **SRS** • DIAGNOSTIC PROCEDURE 6: Using "AIR BAG" warning Perform self-diagnosis "AIR BAG" warning lamp.

WHIA0098E

*1: <u>SRS-8</u>
*4: SRS-36

*2: <u>SRS-20</u>

Repair/Replace

OK

Check out

Final check - Diagnosis User mode

*3: <u>SRS-30</u>

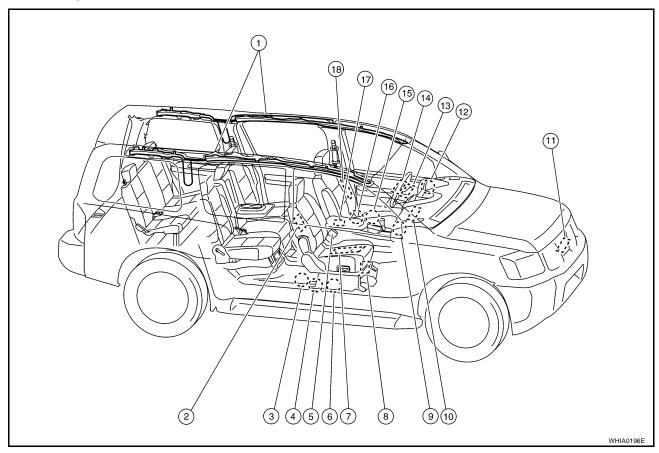
SRS Operation Check *2

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Revision: November 2005

SRS Components Parts Location

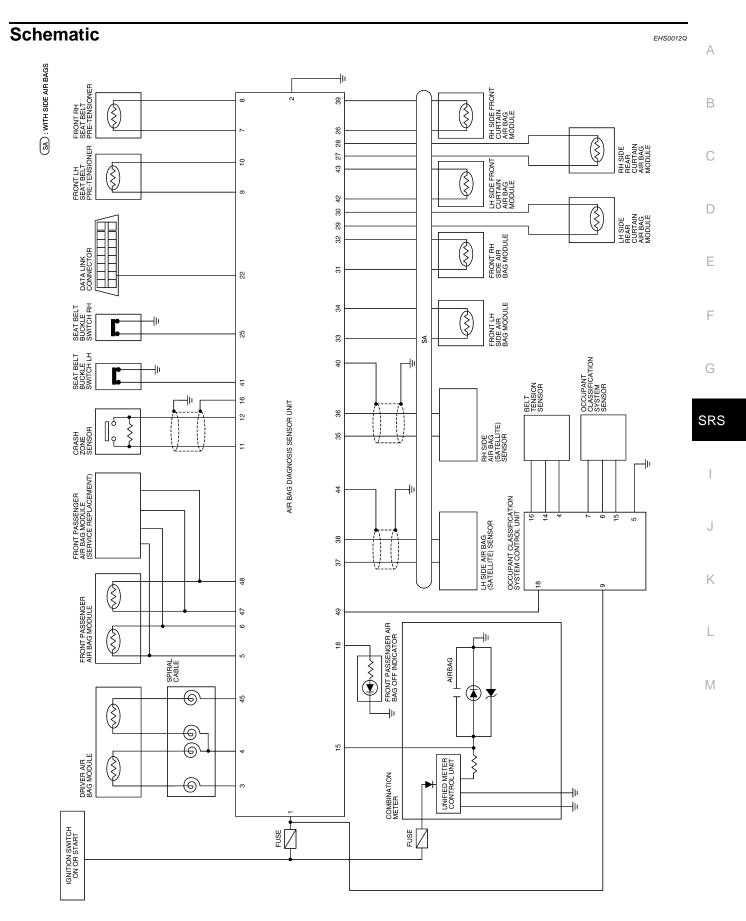
EHS0012P



- 1. Side curtain air bag modules (If equipped)
- 4. Belt tension sensor
- Occupant classification system sen- 8. sor
- 10. Front passenger air bag module
- Spiral cable
- 16. Front LH seat belt pre-tensioner

- Front RH side air bag module (If equipped)
- 5. Seat belt buckle switch RH
- 8. Occupant classification system control unit
- 11. Crash zone sensor
- 14. Driver air bag module
- 17. Air bag diagnosis sensor unit

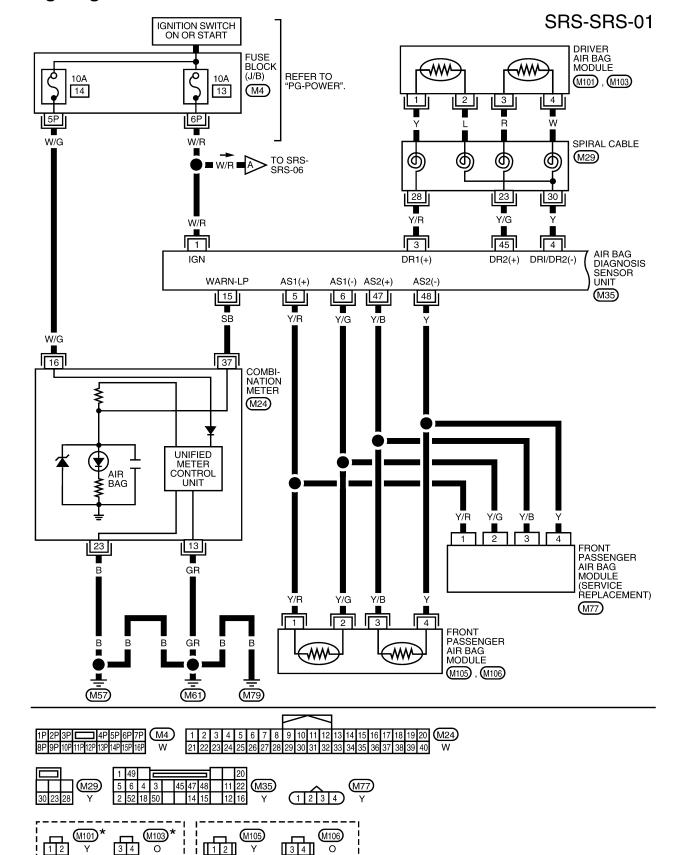
- 3. Front RH seat belt pre-tensioner
- RH side air bag (satellite) sensor (If equipped)
- 9. Front passenger air bag off indicator
- 12. Air bag warning lamp
- LH side air bag (satellite) sensor (If equipped)
- 18. Front LH side air bag module (If equipped)



WHWA0176E

Wiring Diagram — SRS —

EHS0012R



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

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SRS-SRS-02

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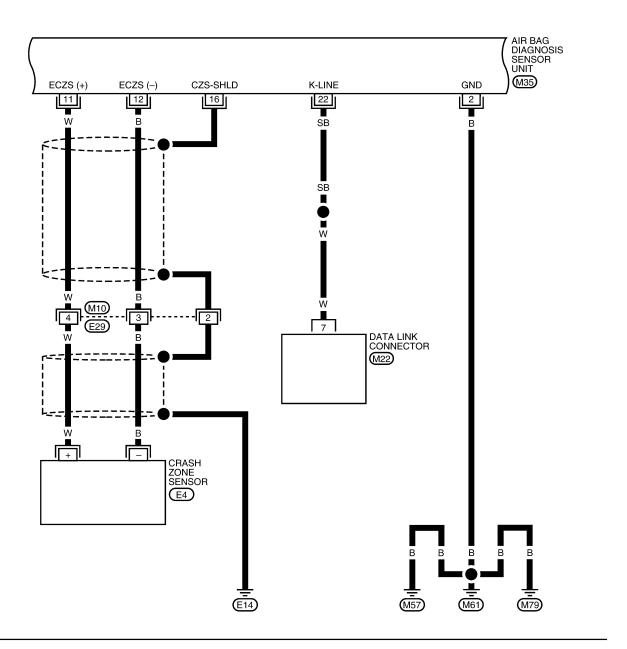
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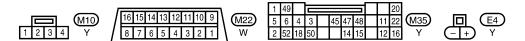
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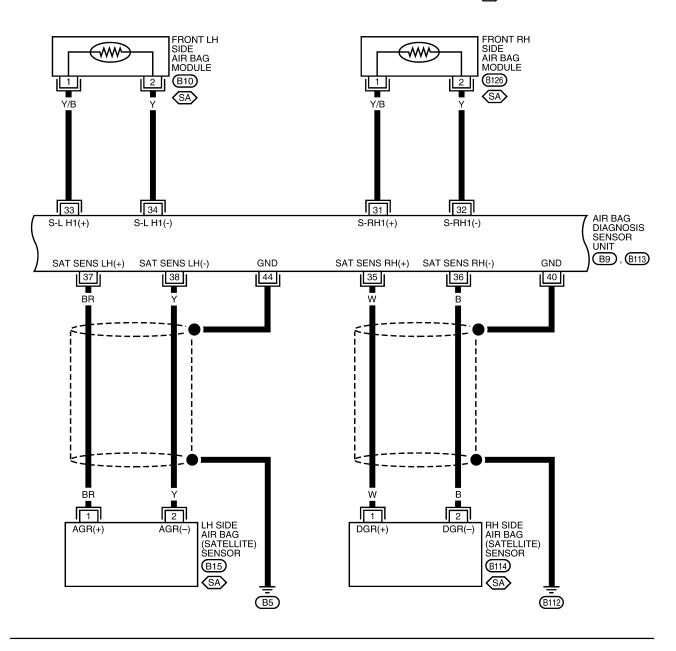


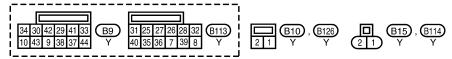


WHWA0110E

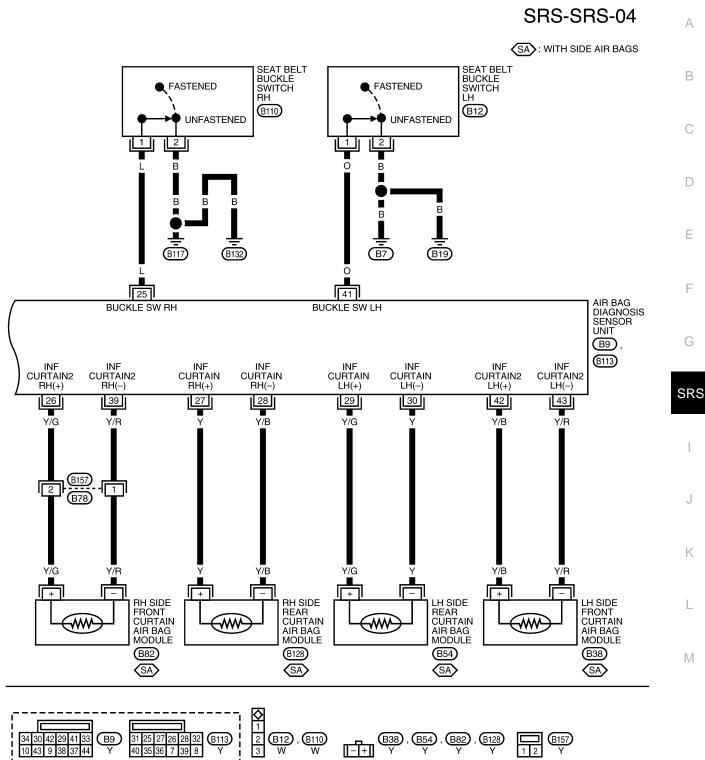
SRS-SRS-03







WHWA0111E



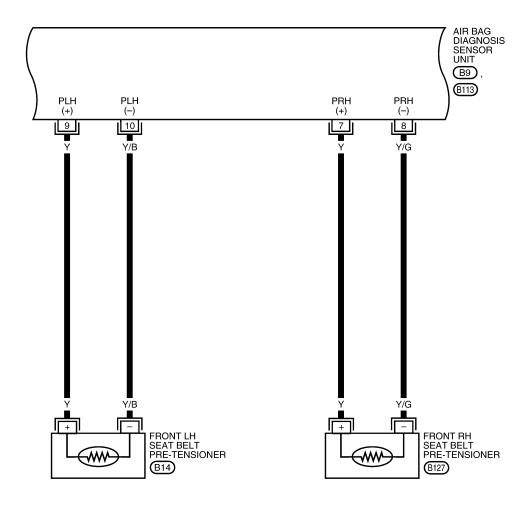
WHWA0112E

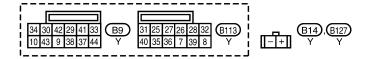
B12

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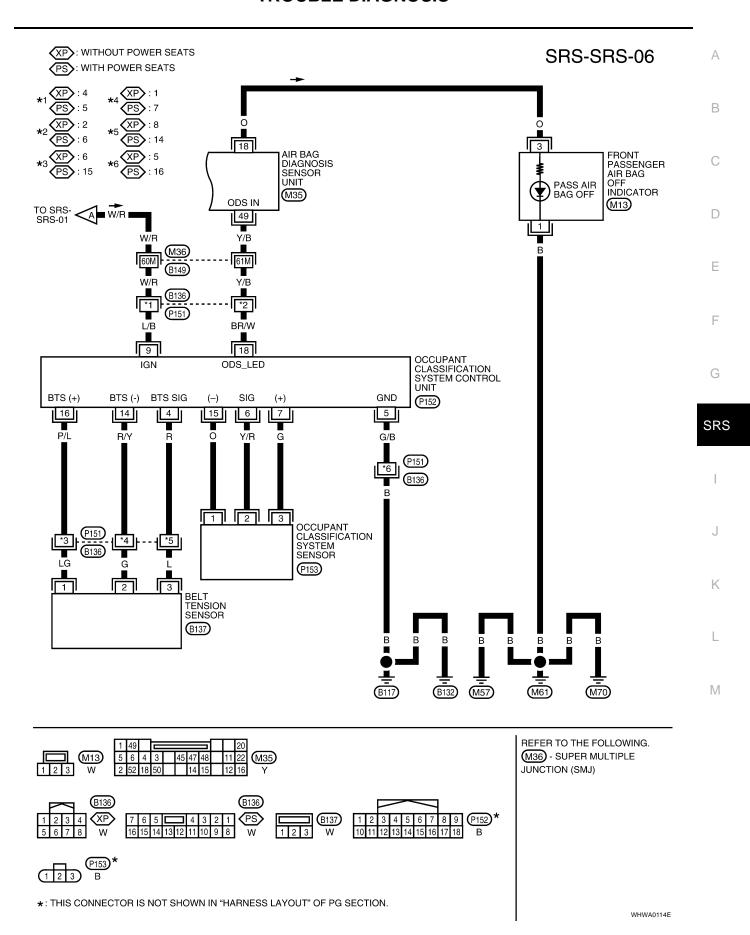
(B9)

SRS-SRS-05





WHWA0113E



CONSULT-II Function (AIR BAG)

EHS001D6

CONSULT-II can display each diagnostic item using the diagnostic test modes shown following.

| AIR BAG diagnostic mode | Description | | |
|-------------------------|--|--|--|
| 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 repairs. | | |
| SELF-DIAG [PAST] | Diagnosis results previously stored in the memory are displayed on the CONSULT-II screen. The stored results will remain 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 air bag 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 air bag 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. For NISSAN MODEL R51, the air bag diagnosis sensor unit discriminated numbers assigned are FA07 (for models with side and side front curtain air bags) and FA16 (for models without side and side front curtain air bags). | ECU DISCRIMINATED NO. ECU No. XXXX PRINT BACK LIGHT COPY ARS366 | |

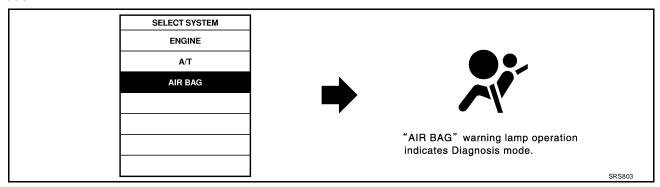
CONSULT-II Function

(F) HOW TO CHANGE SELF-DIAGNOSIS MODE WITH CONSULT-II

EHS0012S

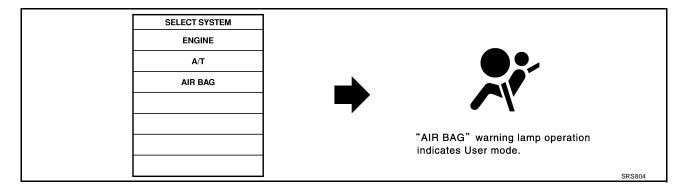
From User Mode to Diagnosis Mode

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.

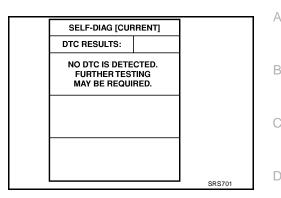


HOW TO ERASE SELF-DIAGNOSIS RESULTS

"SELF-DIAG [CURRENT]"

A current self-diagnosis result is displayed on the CONSULT-II screen in real time.

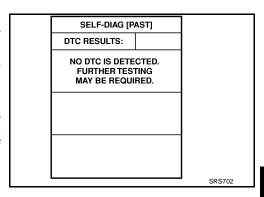
After the malfunction is repaired completely, no malfunction is detected on "SELF-DIAG [CURRENT]".



"SELF-DIAG [PAST]" Return to the "SELF-DIAG [CURRENT]" CONSULT-II screen by touching "BACK" key of CONSULT-II and select "SELF-DIAG [PAST]" in SELECT DIAG MODE. Touch "ERASE" in "SELF-DIAG [PAST]" mode.

NOTE:

If the memory of the malfunction in "SELF-DIAG [PAST]" is not erased, the User mode will continue to show 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-Diagnosis Function (Without CONSULT-II)

EHS0012T

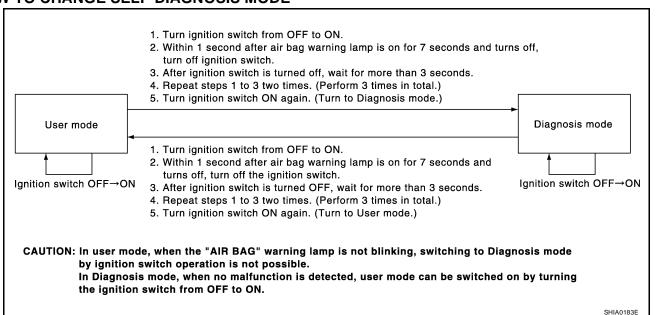
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- The reading of these results is accomplished using one of two modes "User mode" and "Diagnosis mode".
- After a malfunction is repaired, turn the ignition switch OFF for at least one second, then back ON. Diagnosis mode returns to the User mode.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

HOW TO CHANGE SELF-DIAGNOSIS MODE



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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.

SRS Operation Check DIAGNOSTIC PROCEDURE 1

EHS0012U

Checking SRS Operation Using "AIR BAG" Warning Lamp—User Mode

- 1. Turn the ignition switch from OFF to ON, and check that the air bag warning lamp blinks.
- 2. Compare the SRS air bag warning lamp blinking pattern with the examples.



| AIR BAG" warning lamp operation-User mode- | SRS condition | Reference item |
|--|--|---|
| OFF 7 sec. | No malfunction is detected.No further action is necessary. | _ |
| OFF 7 sec. 0.5 sec. 0.5 sec. SHIA0012E | The system is malfunctioning and needs to be repaired as indicated. | Go to SRS-22, "DIAGNOSTIC PROCEDURE 2" or SRS-36, "DIAGNOSTIC PROCEDURE 6". |
| | Air bag is deployed. | Go to SRS-59, "COLLISION DIAG- |
| | Seat belt pre-tensioner is deployed. | NOSIS". |
| OFF SHIA0013E | Air bag diagnosis sensor unit is malfunctioning. Air bag power supply circuit is malfunctioning. SRS air bag warning lamp circuit is malfunctioning. | Go to SRS-42, "Trouble Diagnosis: "AIR BAG" Warning Lamp Does Not Turn Off". |
| IGN ON ON OFF | Air bag diagnosis sensor unit is malfunctioning. Air bag warning lamp circuit is malfunctioning. | Go to SRS-43, "Trouble Diagnosis: "AIR BAG" Warning Lamp Does Not Turn On". |

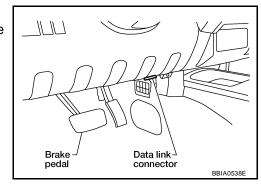
Trouble Diagnosis With CONSULT-II DIAGNOSTIC PROCEDURE 2

EHS0012V

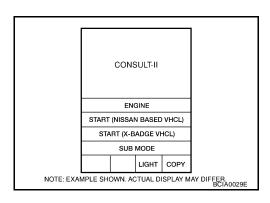
CAUTION:

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunction might be detected in self-diagnosis depending on control unit which carries out CAN communication.

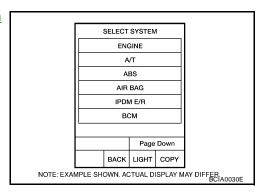
- 1. Turn ignition switch OFF.
- 2. Connect CONSULT-II and CONSULT-II CONVERTER to the data link connector.



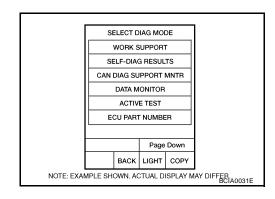
- Turn ignition switch ON.
- 4. Touch "START (NISSAN BASED VHCL)".



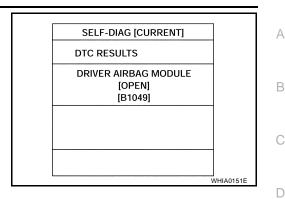
 Touch "AIR BAG".
 If "AIR BAG" is not indicated, refer to GI-39, "CONSULT-II Data Link Connector (DLC) Circuit".



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

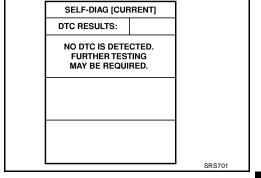


Diagnostic code is displayed on "SELF-DIAG [CURRENT]".



If no malfunction is detected on "SELF-DIAG [CURRENT]" even though malfunction is detected in "SRS Operation Check", refer to SRS-30, "DIAGNOSTIC PROCEDURE 4 (CONTINUED FROM <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 | |
|---|--|---|---|---|
| | When malfunction is indicated by the "AIR | Low battery voltage (Less than 9V) | Go to <u>SRS-27</u> , " <u>DIAGNOSTIC PRO-CEDURE 3</u> ". | |
| NO DTC IS DETECTED | BAG" warning lamp in User mode. | Self-diagnostic result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair. | Go to SRS-30, "DIAGNOSTIC PRO- CEDURE 4 (CONTINUED FROM DIAGNOSTIC PROCEDURE 2)". Go to SRS-30, "DIAGNOSTIC PRO- | J |
| | | Intermittent malfunction has been detected in the past. | CEDURE 5" . | K |
| | No malfunction is detected. | | _ | |
| DRIVER AIRBAG MODULE [OPEN] | Driver air bag module circuit is open (including the spiral cable). | | Visually check the wiring harness connection. | L |
| [B1049] or [B1054] | | | 2. Replace the harness if it has visible | |
| DRIVER AIRBAG MODULE [VB-SHORT] | Driver air bag module ply circuit (including) | e circuit is shorted to some power sup- | damage. 3. Replace driver air bag module. | M |
| [B1050] or [B1055] | pry on our (morading | are spiral sasie). | 4. Replace the spiral cable. | |
| DRIVER AIRBAG MODULE [GND-SHORT] [B1051] or [B1056] | Driver air bag module circuit is shorted to ground (including the spiral cable). | | Replace the air bag diagnosis sensor unit. | |
| | | | 6. Replace the related harness. | |
| DRIVER AIRBAG MODULE [SHORT] [B1052] or [B1057] | Driver air bag module circuits are shorted to each other. | | | |

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| Diagnostic item | Explanation | Repair order Recheck SRS at each replacement | |
|--|---|---|--|
| ASSIST A/B MODULE [OPEN] [B1065] or [B1070] | Front passenger air bag module circuit is open. | Visually check the wiring harness | |
| ASSIST A/B MODULE [VB-SHORT] [B1066] or [B1071] | Front passenger air bag module circuit is shorted to some power supply circuit. | connection. 2. Replace the harness if it has visible damage. | |
| ASSIST A/B MODULE [GND-SHORT] [B1067] or [B1072] | Front passenger air bag module circuit is shorted to ground. | Replace front passenger air bag module. Replace the air bag diagnosis sen- | |
| ASSIST A/B MODULE [SHORT] [B1068] or [B1073] | Front passenger air bag module circuits are shorted to each other. | sor unit. 5. Replace the related harness. | |
| CRASH ZONE SEN [UNIT FAIL] [B1033] or [B1034] CRASH ZONE SEN [COMM FAIL] [B1035] | Crash zone sensor | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the crash zone sensor. Replace the air bag diagnosis sensor unit. Replace the related harness. | |
| SIDE MODULE LH [OPEN] [B1134] | Front LH side air bag module circuit is open. | Visually check the wiring harness connection. Replace the harness if it has visible. | |
| SIDE MODULE LH [VB-SHORT] [B1135] | Front LH side air bag module circuit is shorted to some power supply circuit. | damage. 3. Replace front LH seat back asser bly (front LH side air bag module) 4. Replace the air bag diagnosis ser sor unit. 5. Replace the related harness. | |
| SIDE MODULE LH [GND-SHORT] [B1136] | Front LH side air bag module circuit is shorted to ground. | | |
| SIDE MODULE LH [SHORT] [B1137] | Front LH side air bag module circuits are shorted to each other. | | |
| SIDE MODULE RH [OPEN] [B1129] | Front RH side air bag module circuit is open. | Visually check the wiring harness connection. Replace the harness if it has visible. | |
| SIDE MODULE RH [VB-SHORT] [B1130] | Front RH side air bag module circuit is shorted to some power supply circuit. | damage. 3. Replace front RH seat back assembly (front RH side air bag module). | |
| SIDE MODULE RH [GND-SHORT] [B1131] | Front RH side air bag module circuit is shorted to ground. | 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness. | |
| SIDE MODULE RH [SHORT] [B1132] | Front RH side air bag module circuits are shorted to each other. | | |
| SATELLITE SENS LH [UNIT FAIL] [B1118] or [B1119] SATELLITE SENS LH [COMM FAIL] [B1120] | LH side air bag (satellite) sensor | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the LH side air bag (satellite) sensor. Replace the air bag diagnosis sensor unit. Replace the related harness. | |

| Diagnostic item | Explanation | Repair order Recheck SRS at each replacement |
|--|--|---|
| | RH side air bag (satellite) sensor | Visually check the wiring harness connection. |
| SATELLITE SENS RH [UNIT FAIL] | | Replace the harness if it has visible damage. |
| [B1113] or [B1114] SATELLITE SENS RH [COMM FAIL] | | 3. Replace the RH side air bag (satellite) sensor. |
| [B1115] | | Replace the air bag diagnosis sensor unit. |
| | | 5. Replace the related harness. |
| PRE-TEN FRONT LH [OPEN] | The circuit for front LH seat belt pre-tensioner is open. | Visually check the wiring harness connections. |
| [B1086] | | 2. Replace the harness if it has visible |
| PRE-TEN FRONT LH [VB-SHORT] [B1087] | The circuit for front LH seat belt pre-tensioner is shorted to some power supply circuit. | damage. 3. Replace front LH seat belt pre-tensioner. |
| PRE-TEN FRONT LH [GND-SHORT] | The circuit for front LH seat belt pre-tensioner is shorted to ground. | Replace the air bag diagnosis sensor unit. |
| [B1088] | | 5. Replace the related harness. |
| PRE-TEN FRONT LH [SHORT] [B1089] | The circuits for the front LH seat belt pre-tensioner are shorted to each other. | |
| PRE-TEN FRONT RH [OPEN] | The circuit for front RH seat belt pre-tensioner is open. | Visually check the wiring harness connections. |
| [B1081] | The circuit for front DII cont bolt are toncioner in about die | 2. Replace the harness if it has visible damage. |
| PRE-TEN FRONT RH [VB-SHORT] [B1082] | The circuit for front RH seat belt pre-tensioner is shorted to some power supply circuit. | Replace front RH seat belt pre-tensioner. |
| PRE-TEN FRONT RH [GND-SHORT] | The circuit for front RH seat belt pre-tensioner is shorted to ground. | Replace the air bag diagnosis sensor unit. |
| [B1083] | | 5. Replace the related harness. |
| PRE-TEN FRONT RH [SHORT] [B1084] | The circuits for the front RH seat belt pre-tensioner are shorted to each other. | |
| R CURTN MODULE LH [OPEN] | The circuit for LH side front curtain air bag module is open. | Visually check the wiring harness connection. |
| [B1198] | | 2. Replace the harness if it has visible |
| R CURTN MODULE LH [VB-SHORT] [B1199] | The circuit for LH side front curtain air bag module is shorted to some power supply circuits. | damage. 3. Replace LH side curtain air bag module. |
| R CURTN MODULE LH [GND-SHORT] | The circuit for LH side front curtain air bag module is shorted to ground. | Replace the air bag diagnosis sensor unit. |
| [B1200] | | 5. Replace the related harness. |
| R CURTN MODULE LH [SHORT] [B1201] | The circuits for the LH side front curtain air bag module are shorted to each other. | |

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| Diagnostic item | Explanation | Repair order Recheck SRS at each replacement |
|---|--|--|
| FR CURTN MODULE RH [OPEN] [B1193] | The circuit for RH side front curtain air bag module is open. | Visually check the wiring harness connection. Replace the harness if it has visible |
| FR CURTN MODULE RH [VB-SHORT] [B1194] | The circuit for RH side front curtain air bag module is shorted to some power supply circuits. | damage. 3. Replace RH side curtain air bag module. |
| FR CURTN MODULE RH [GND-SHORT] [B1195] | The circuit for RH side front curtain air bag module is shorted to ground. | 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness. |
| FR CURTN MODULE RH [SHORT] [B1196] | The circuits for the RH side front curtain air bag module are shorted to each other. | |
| CURTAIN MODULE LH [OPEN] [B1150] | The circuit for LH side rear curtain air bag module is open. | Visually check the wiring harness connection. Replace the harness if it has visible |
| CURTAIN MODULE LH [VB-SHORT] [B1151] | The circuit for LH side rear curtain air bag module is shorted to some power supply circuits. | damage. 3. Replace LH side curtain air bag module. |
| CURTAIN MODULE LH [GND-SHORT] [B1152] | The circuit for LH side rear curtain air bag module is shorted to ground. | 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness. |
| CURTAIN MODULE LH [SHORT] [B1153] | The circuits for the LH side rear curtain air bag module are shorted to each other. | |
| CURTAIN MODULE RH [OPEN] [B1145] | The circuit for RH side rear curtain air bag module is open. | Visually check the wiring harness connection. Replace the harness if it has visible. |
| CURTAIN MODULE RH [VB-SHORT] [B1146] | The circuit for RH side rear curtain air bag module is shorted to some power supply circuits. | damage. 3. Replace RH side curtain air bag module. |
| CURTAIN MODULE RH [GND-SHORT] [B1147] | The circuit for RH side rear curtain air bag module is shorted to ground. | Replace the air bag diagnosis sensor unit. Replace the related harness. |
| CURTAIN MODULE RH [SHORT] [B1148] | The circuits for the RH side rear curtain air bag module are shorted to each other. | |
| CONTROL UNIT [B1XXX] | Air bag diagnosis sensor unit is malfunctioning. | Visually check the wiring harness connection. Replace the air bag diagnosis sen- |
| [E.//out] | | sor unit. |
| OCCUPANT SENS C/U [UNIT FAIL] [B1017], [B1020] or [B1021] | Occupant classification system is malfunctioning. | Replace RH front seat cushion/ occupant classification system con- trol unit assembly. |
| | Communication between the occupant classification system control unit and air bag diagnosis sensor unit is interrupted. | Visually check the wiring harness connection. Replace the harness if it has visible. |
| OCCUPANT SENS C/U [COMM FAIL] [B1022] | | damage. 3. Replace RH front seat cushion/ occupant classification system control unit assembly. |
| | | Replace the air bag diagnosis sensor unit. |
| OCCUDANT CENO | - Occupant describination concer is the March of the Control of th | 5. Replace the related harness. |
| OCCUPANT SENS [UNIT FAIL] [B1018] | Occupant classification sensor is malfunctioning. | Replace RH front seat cushion/ occupant classification system con trol unit assembly. |

Explanation

• Front passenger air bag off indicator is malfunctioning.

Belt tension sensor is malfunctioning.

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Final Check of SRS Using CONSULT-II—Diagnosis Mode **CAUTION:**

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.

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunction might be detected in self-diagnosis depending on control unit which carries out CAN communication.

- After repairing SRS, connect both battery cables.
- Connect CONSULT-II and CONSULT-II CONVERTER to data link connector.
- Turn ignition switch ON.

DIAGNOSTIC PROCEDURE 3

Diagnostic item

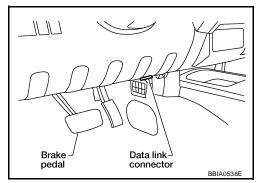
BELT TENSION SENS [UNIT FAIL]

[B1019]

PASS A/B INDCTR CKT

[B1023]

NOTE:



Repair order

Recheck SRS at each replacement

1. Visually check the wiring harness

2. Replace the harness if it has visible

3. Replace RH front seat belt assem-

4. Replace RH front seat cushion/

1. Visually check the wiring harness

3. Replace front passenger air bag off

4. Replace the air bag diagnosis sen-

5. Replace the related harness.

trol unit assembly.

connection.

damage.

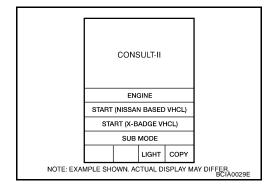
indicator.

sor unit.

connection.

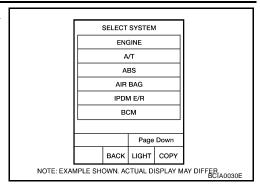
damage.

Touch "START (NISSAN BASED VHCL)".

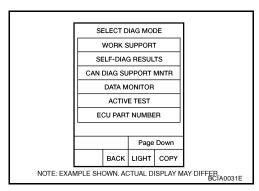


Touch "AIR BAG".

If "AIR BAG" is not indicated, refer to GI-39, "CONSULT-II Data Link Connector (DLC) Circuit" .

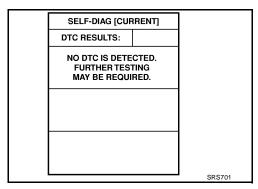


Touch "SELF-DIAG [CURRENT]".



 If no malfunction is detected on "SELF-DIAG [CURRENT]", repair of SRS is completed. Go to step 8.
 If any malfunction is detected on "SELF-DIAG [CURRENT]", the malfunctioning part is not repaired completely or another malfunctioning part is detected. Go to <u>SRS-22</u>, "DIAGNOSTIC

PROCEDURE 2", and repair malfunctioning part completely.

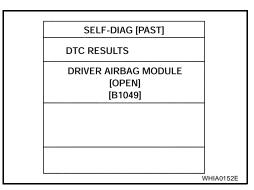


8. Touch "ERASE".

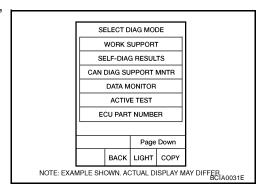
NOTE:

Touch "ERASE" to clear the memory of the malfunction ("SELF-DIAG [PAST]").

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.



Touch "BACK" key of CONSULT-II to "SELECT DIAG MODE" screen. Touch "SELF-DIAG [PAST]".



- 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-20</u>, "Checking <u>SRS Operation Using "AIR BAG"</u> Warning Lamp—User Mode".

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

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DIAGNOSTIC PROCEDURE 4 (CONTINUED FROM DIAGNOSTIC PROCEDURE 2) Check SRS Repair History

1. CONSIDER POSSIBILITY THAT SELF-DIAGNOSTIC RESULT WAS NOT ERASED AFTER REPAIR

Check repair history of the SRS.

Have any previous repairs been made to the SRS?

Yes >> Self-diagnostic result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair. Go to SRS-27, "DIAGNOSTIC PROCEDURE 3".

No >> Go to <u>SRS-22</u>, "<u>DIAGNOSTIC PROCEDURE 2</u>".

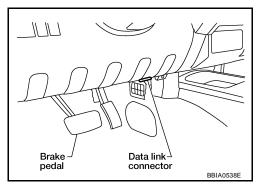
DIAGNOSTIC PROCEDURE 5

Check SRS Intermittent Malfunction Using CONSULT-II—Diagnosis Mode

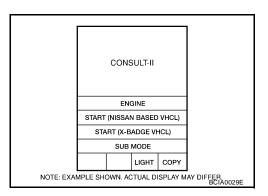
CAUTION:

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunction might be detected in self-diagnosis depending on control unit which carries out CAN communication.

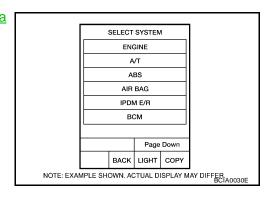
- 1. Turn ignition switch OFF.
- Connect CONSULT-II and CONSULT-II CONVERTER to data link connector.



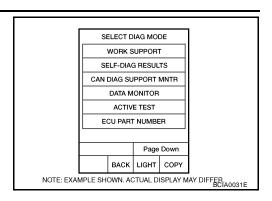
- Turn ignition switch ON.
- 4. Touch "START (NISSAN BASED VHCL)".



 Touch "AIR BAG".
 If "AIR BAG" is not indicated, refer to GI-39, "CONSULT-II Data Link Connector (DLC) Circuit".



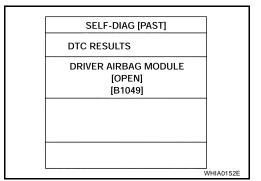
6. Touch "SELF-DIAG [PAST]".



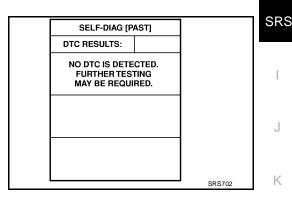
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7. If diagnostic codes are displayed on "SELF-DIAG [PAST]", go to step 10.



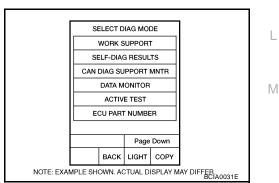
If no malfunction is detected on "SELF-DIAG [PAST]", touch "BACK" and go back to "SELECT DIAG MODE".



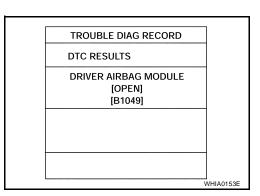
8. Touch "TROUBLE DIAG RECORD".

NOTE:

With "TROUBLE DIAG RECORD", diagnosis results previously erased by a reset operation can be displayed.



- 9. Diagnostic code is displayed on "TROUBLE DIAG RECORD".
- 10. Touch "PRINT".
- 11. Compare diagnostic codes to <u>SRS-32</u>, "CONSULT-II <u>Diagnostic</u> <u>Code Chart</u> ("SELF-DIAG [PAST]" or "TROUBLE <u>DIAG</u> <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.



- 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.
- 15. Go to SRS-27, "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 BAG" warning lamp in User mode. | Low battery voltage (Less than 9V) 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 SRS-27, "DIAGNOSTIC PROCEDURE 3". Go to SRS-30, "DIAGNOSTIC PROCEDURE 4 (CONTINUED FROM DIAGNOSTIC PROCEDURE 2)". Go to SRS-30, "DIAGNOSTIC PROCEDURE 5". | |
| | No malfunction is de | tected. | - | |
| DRIVER AIRBAG MODULE [OPEN] [B1049] or [B1054] | Driver air bag module circuit is open (including the spiral cable). | | Visually check the wiring harness connection. Replace the harness if it has visible | |
| DRIVER AIRBAG MODULE [VB-SHORT] [B1050] or [B1055] | Driver air bag module ply circuit (including) | e circuit is shorted to some power sup- the spiral cable). | damage. 3. Replace driver air bag module. 4. Replace the spiral cable. | |
| DRIVER AIRBAG MODULE [GND-SHORT] [B1051] or [B1056] | Driver air bag module the spiral cable). | e circuit is shorted to ground (including | Replace the air bag diagnosis sensor unit. Replace the related harness. | |
| DRIVER AIRBAG MODULE [SHORT] [B1052] or [B1057] | Driver air bag modul | e circuits are shorted to each other. | o. Replace the related flamess. | |
| ASSIST A/B MODULE [OPEN] [B1065] or [B1070] | Front passenger air I | pag module circuit is open. | Visually check the wiring harness connection. | |
| ASSIST A/B MODULE [VB-SHORT] [B1066] or [B1071] | Front passenger air bag module circuit is shorted to some power supply circuit. | | Replace the harness if it has visible damage. | |
| ASSIST A/B MODULE [GND-SHORT] [B1067] or [B1072] | Front passenger air I ground. | pag module circuit is shorted to | Replace front passenger air bag module. Replace the air bag diagnosis sensor unit. | |
| ASSIST A/B MODULE [SHORT] [B1068] or [B1073] | Front passenger air l each other. | pag module circuits are shorted to | 5. Replace the related harness. | |
| CRASH ZONE SEN [UNIT FAIL] [B1033] or [B1034] CRASH ZONE SEN [COMM FAIL] [B1035] | Crash zone sensor | | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the crash zone sensor. Replace the air bag diagnosis sensor unit. Replace the related harness. | |

| Diagnostic item | Explanation | Repair order Recheck SRS at each replacement |
|--|---|--|
| SIDE MODULE LH [OPEN] | Front LH side air bag module circuit is open. | Visually check the wiring harness connection. |
| [B1134] SIDE MODULE LH | Front LH side air bag module circuit is shorted to some | 2. Replace the harness if it has visible damage. |
| [VB-SHORT] [B1135] | power supply circuit. | Replace front LH seat back assembly (front LH side air bag module). |
| SIDE MODULE LH [GND-SHORT] [B1136] | Front LH side air bag module circuit is shorted to ground. | 4. Replace the air bag diagnosis sensor unit. |
| SIDE MODULE LH [SHORT] [B1137] | Front LH side air bag module circuits are shorted to each other. | 5. Replace the related harness. |
| SIDE MODULE RH [OPEN] [B1129] | Front RH side air bag module circuit is open. | Visually check the wiring harness connection. |
| SIDE MODULE RH | Front RH side air bag module circuit is shorted to some | 2. Replace the harness if it has visible damage. |
| [VB-SHORT] [B1130] | power supply circuit. | Replace front RH seat back assembly (front RH side air bag module). |
| SIDE MODULE RH [GND-SHORT] | Front RH side air bag module circuit is shorted to ground. | Replace the air bag diagnosis sensor unit. |
| [B1131] | Front PU side sinks a social since it and the social size it. | 5. Replace the related harness. |
| SIDE MODULE RH [SHORT] [B1132] | Front RH side air bag module circuits are shorted to each other. | |
| | LH side air bag (satellite) sensor | Visually check the wiring harness connection. |
| SATELLITE SENS LH [UNIT FAIL] | | Replace the harness if it has visible damage. |
| [B1118] or [B1119] SATELLITE SENS LH [COMM FAIL] | | 3. Replace the LH side air bag (satellite) sensor. |
| [B1120] | | Replace the air bag diagnosis sensor unit. |
| | | 5. Replace the related harness. |
| 0.4751.175.05110.511 | RH side air bag (satellite) sensor | Visually check the wiring harness connection. |
| SATELLITE SENS RH [UNIT FAIL] [B1113] or [B1114] | | 2. Replace the harness if it has visible damage. |
| SATELLITE SENS RH [COMM FAIL] | | 3. Replace the RH side air bag (satellite) sensor. |
| [B1115] | | 4. Replace the air bag diagnosis sensor unit. |
| | | 5. Replace the related harness. |
| PRE-TEN FRONT LH [OPEN] | The circuit for front LH seat belt pre-tensioner is open. | Visually check the wiring harness connections. |
| [B1086] | a. The circuit for front III coat belt are to a circuit and the | 2. Replace the harness if it has visible damage. |
| PRE-TEN FRONT LH [VB-SHORT] [B1087] | The circuit for front LH seat belt pre-tensioner is shorted to some power supply circuit. | Replace front LH seat belt pre-tensioner. |
| PRE-TEN FRONT LH [GND-SHORT] [B1088] | The circuit for front LH seat belt pre-tensioner is shorted to ground. | 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness. |
| PRE-TEN FRONT LH [SHORT] [B1089] | The circuits for the front LH seat belt pre-tensioner are shorted to each other. | The second secon |

| Diagnostic item | Explanation | Repair order Recheck SRS at each replacement |
|--|--|--|
| PRE-TEN FRONT RH [OPEN] [B1081] | The circuit for front RH seat belt pre-tensioner is open. | Visually check the wiring harness connections. Replace the harness if it has visible |
| PRE-TEN FRONT RH [VB-SHORT] [B1082] | The circuit for front RH seat belt pre-tensioner is shorted to some power supply circuit. | damage. 3. Replace front RH seat belt pre-tensioner. |
| PRE-TEN FRONT RH [GND-SHORT] [B1083] | The circuit for front RH seat belt pre-tensioner is shorted to ground. | 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness. |
| PRE-TEN FRONT RH [SHORT] [B1084] | The circuits for the front RH seat belt pre-tensioner are shorted to each other. | |
| FR CURTN MODULE LH [OPEN] [B1198] | The circuit for LH side front curtain air bag module is open. | Visually check the wiring harness connection. Replace the harness if it has visible |
| FR CURTN MODULE LH [VB-SHORT] [B1199] | The circuit for LH side front curtain air bag module is shorted to some power supply circuits. | damage. 3. Replace LH side curtain air bag module. |
| FR CURTN MODULE LH [GND-SHORT] [B1200] | The circuit for LH side front curtain air bag module is shorted to ground. | 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness. |
| FR CURTN MODULE LH [SHORT] [B1201] | The circuits for the LH side front curtain air bag module are shorted to each other. | J. Neplace the related flamess. |
| FR CURTN MODULE RH [OPEN] [B1193] | The circuit for RH side front curtain air bag module is open. | Visually check the wiring harness connection. Replace the harness if it has visible |
| FR CURTN MODULE RH [VB-SHORT] [B1194] | The circuit for RH side front curtain air bag module is shorted to some power supply circuits. | damage. 3. Replace RH side curtain air bag module. |
| FR CURTN MODULE RH [GND-SHORT] [B1195] | The circuit for RH side front curtain air bag module is shorted to ground. | 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness. |
| FR CURTN MODULE RH [SHORT] [B1196] | The circuits for the RH side front curtain air bag module are shorted to each other. | |
| CURTAIN MODULE LH [OPEN] [B1150] | The circuit for LH side rear curtain air bag module is open. | Visually check the wiring harness connection. Replace the harness if it has visible |
| CURTAIN MODULE LH [VB-SHORT] [B1151] | The circuit for LH side rear curtain air bag module is shorted to some power supply circuits. | damage. 3. Replace LH side curtain air bag module. |
| CURTAIN MODULE LH [GND-SHORT] [B1152] | The circuit for LH side rear curtain air bag module is shorted to ground. | 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness. |
| CURTAIN MODULE LH [SHORT] [B1153] | The circuits for the LH side rear curtain air bag module are shorted to each other. | |

| Diagnostic item | Explanation | Repair order Recheck SRS at each replacement |
|---|---|--|
| CURTAIN MODULE RH [OPEN] | The circuit for RH side rear curtain air bag module is open. | Visually check the wiring harness connection. |
| [B1145] | The significant DII side year contain significant module is | 2. Replace the harness if it has visible damage. |
| CURTAIN MODULE RH [VB-SHORT] [B1146] | The circuit for RH side rear curtain air bag module is shorted to some power supply circuits. | Replace RH side curtain air bag module. |
| CURTAIN MODULE RH [GND-SHORT] | The circuit for RH side rear curtain air bag module is shorted to ground. | Replace the air bag diagnosis sensor unit. |
| [B1147] | The singuity for the DU side are contain sink a readule see | 5. Replace the related harness. |
| CURTAIN MODULE RH [SHORT] [B1148] | The circuits for the RH side rear curtain air bag module are shorted to each other. | |
| CONTROL UNIT [B1XXX] | Air bag diagnosis sensor unit is malfunctioning. | Visually check the wiring harness connection. |
| | | Replace the air bag diagnosis sensor unit. |
| OCCUPANT SENS C/U [UNIT FAIL] [B1017], [B1020] or [B1021] | Occupant classification system is malfunctioning. | Replace RH front seat cushion/ occupant classification system con- trol unit assembly. |
| OCCUPANT SENS C/U [COMM FAIL] [B1022] | Communication between the occupant classification system control unit and air bag diagnosis sensor unit is inter- | Visually check the wiring harness connection. |
| | rupted. | Replace the harness if it has visible damage. |
| | | Replace RH front seat cushion/ occupant classification system con- trol unit assembly. |
| | | Replace the air bag diagnosis sensor unit. |
| | | 5. Replace the related harness. |
| OCCUPANT SENS [UNIT FAIL] [B1018] | Occupant classification sensor is malfunctioning. | Replace RH front seat cushion/ occupant classification system con- trol unit assembly. |
| | Belt tension sensor is malfunctioning. | Visually check the wiring harness connection. |
| BELT TENSION SENS [UNIT FAIL] [B1019] | | Replace the harness if it has visible damage. |
| | | Replace RH front seat belt assembly. |
| | | Replace RH front seat cushion/ occupant classification system con- trol unit assembly. |
| | Front passenger air bag off indicator is malfunctioning. | Visually check the wiring harness connection. |
| PASS A/B INDCTR CKT [B1023] | | Replace the harness if it has visible damage. |
| | | Replace front passenger air bag off indicator. |
| | | Replace the air bag diagnosis sensor unit. |
| | | 5. Replace the related harness. |

SRS-35 Revision: November 2005 2005 Pathfinder

Trouble Diagnosis Without CONSULT-II DIAGNOSTIC PROCEDURE 6

EHS0012W

Inspect SRS Malfunction 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 more times (3 times total).
- 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

<Diagnosis results (previously stored in the memory) might not be erased after repair or intermittent malfunctions have been detected in the past.>

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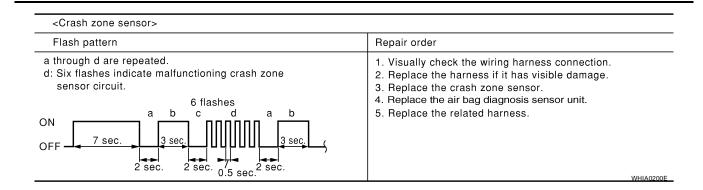
M

| Flash pattern | Repair order |
|---------------------------|---|
| a through b are repeated. | 1. Go to DIAGNOSTIC PROCEDURES 2 and 3. |
| ON T sec. Sec. 2 sec. | SHIA0026E |

<Driver air bag module> 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. module circuits. 3. Replace the spiral cable. 4. Replace driver air bag module. 2 flashes 5. Replace the air bag diagnosis sensor unit. d a ON 6. Replace the related harness. 3 sec. 7 sec 2 sec. 2 sec. 0.5 sec WHIA0260E

| <air bag="" diagnosis="" sensor="" unit=""></air> | | |
|---|---|--|
| Flash pattern | Repair order | |
| a through d are repeated. d: Seven flashes indicate malfunctioning diagnosis sensor unit circuit. 7 flashes ON 7 sec. 2 sec. 2 sec. 0.5 sec. | Visually check the wiring harness connections. Replace the harness if it has visible damage. Replace the air bag diagnosis sensor unit. Replace the related harness. WHIA0198E | |

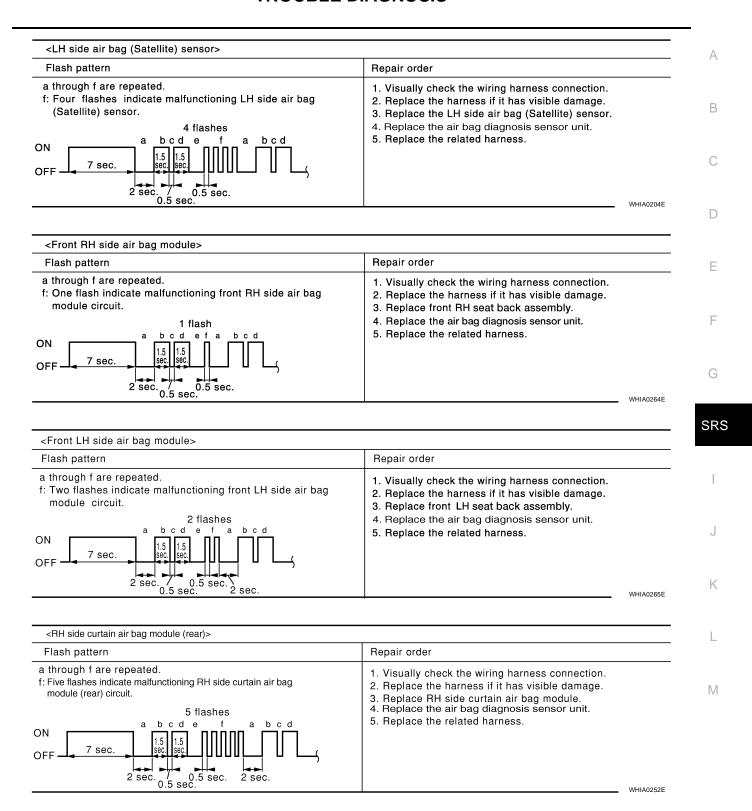
| <front air="" bag="" module="" passenger=""></front> | | |
|--|---|----------|
| Flash pattern | Repair order | |
| a through d are repeated. d: Eight flashes indicate malfunctioning front passenger air bag module circuit. 8 flashes ON OFF 7 sec. 2 sec. 2 sec. 0.5 sec. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace front passenger air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness. | 1IA0261E |

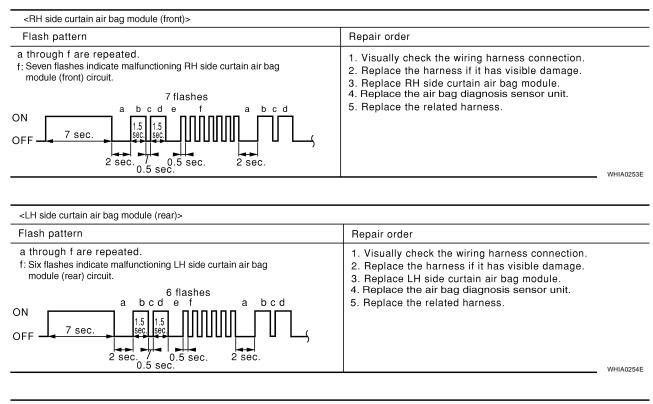


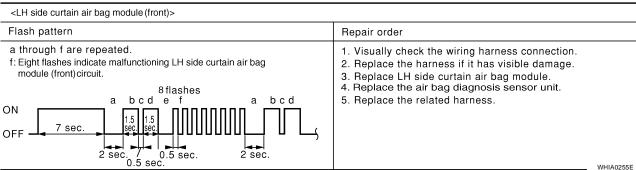
| <front belt="" pre-tensioner="" rh="" seat=""></front> | | |
|--|--|--|
| Flash pattern | Repair order | |
| a through d are repeated. d: One flash indicates malfunctioning front RH seat belt pre-tensioner circuit. ON OFF 7 sec. 3 sec. 2 sec. 2 sec. 2 sec. | Visually check the wiring harness connections. Replace the harness if it has visible damage. Replace front RH seat belt pre-tensioner. Replace the air bag diagnosis sensor unit. Replace the related harness. | |

| <front belt="" lh="" pre-tensioner="" seat=""></front> | | |
|--|--|--|
| Flash pattern | Repair order | |
| a through d are repeated. d: Three flashes indicate malfunctioning front LH seat belt pre-tensioner circuit. 3 flashes a b c d a b ON OFF 7 sec. 2 sec. 2 sec. 0.5 sec. | Visually check the wiring harness connections. Replace the harness if it has visible damage. Replace front LH seat belt pre-tensioner. Replace the air bag diagnosis sensor unit. Replace the related harness. | |

| <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. 3 flashes ON 7 sec. 2 sec. 0.5 sec. 2 sec. | 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH side air bag (Satellite) sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness. |







<Occupant classification system>

| Flash pattern | Repair order |
|--|--|
| a through d are repeated. d: Five flashes indicate malfuntioning occupant classification system control unit. ON OFF 7 sec. 3 sec. 2 sec. 2 sec. 0.5 sec. | 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH front seat cushion occupant classification system control unit assembly. 4. Replace the air bag diagnosis sensor unit. |
| | WHIA0211E |

| Flash pattern | Repair order |
|---|--|
| a through d are repeated. d: Eleven flashes indicate malfunctioning front passenger air bag off indicator. 11 flashes 7 sec. 2 sec. 2 sec. 0.5 sec. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace front passenger air bag off indicator. Replace the air bag diagnosis sensor unit. Replace the related harness. |

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Trouble Diagnosis: "AIR BAG" Warning Lamp Does Not Turn Off DIAGNOSTIC PROCEDURE 6

EHS0012)

CHECK CONDITION OF AIR BAG MODULES

Inspect for any deployed air bag modules or seat belt pre-tensioners.

Are any air bag modules or seat belt pre-tensioners deployed?

Yes >> Refer to <u>SRS-59</u>, "COLLISION DIAGNOSIS".

No >> GO TO 2.

$2.\,$ check the air bag fuse

Check 10A fuse [No. 13, located in the fuse block (J/B)]. Refer to PG-4, "POWER SUPPLY ROUTING CIRCUIT".

OK or NG

OK >> GO TO 4. NG >> GO TO 3.

3. Check air bag fuse again

Replace 10A fuse [No. 13, located in the fuse block (J/B)] and turn ignition switch ON.

Does the fuse blow again?

Yes >> Repair harness. No >> Inspection End.

4. CHECK AIR BAG DIAGNOSIS SENSOR UNIT

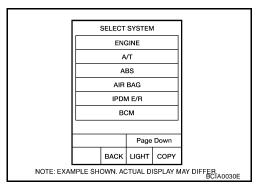
Connect CONSULT-II and CONSULT-II CONVERTER and touch "START (NISSAN BASED VHCL)".

Is "AIR BAG" displayed on CONSULT-II?

Yes >> GO TO 5.

No

>> Visually inspect the air bag diagnosis sensor unit harness connections. If the connections are OK, replace the air bag diagnosis sensor unit. Refer to SRS-57, <a href=""Removal and Installation".



5. CHECK HARNESS CONNECTION

Check for loose connections between the combination meter and the air bag diagnosis sensor unit.

OK or NG

OK >> Replace air bag diagnosis sensor unit. Refer to <u>SRS-57</u>, "Removal and Installation".

NG >> Properly connect the combination meter and air bag diagnosis sensor unit harness connectors. If "AIR BAG" warning lamp still does not turn off, replace the wiring harness.

| 1. сне | ECK METER FUSE | |
|---|---|--|
| | ne 10A fuse [No. 14, located in the fuse block (J/B)]. PG-4, "POWER SUPPLY ROUTING CIRCUIT" . G | |
| OK NG | >> GO TO 3. >> GO TO 2. | |
| 2. сне | ECK METER FUSE AGAIN | |
| • | 10A fuse [No. 14, located in the fuse block (J/B)] and turn ignition switch ON. | |
| Does the Yes No | e fuse blow again? >> Repair the harness. >> Inspection End. | |
| Yes No 3. CHE | >> Repair the harness. >> Inspection End. ECK HARNESS CONNECTION BETWEEN AIR BAG DIAGNOSIS SENSOR UNIT AND COMBINA- | |
| Yes No 3. CHE TION ME | >> Repair the harness. >> Inspection End. ECK HARNESS CONNECTION BETWEEN AIR BAG DIAGNOSIS SENSOR UNIT AND COMBINA- | |
| Yes No 3. CHE TION ME | >> Repair the harness. >> Inspection End. ECK HARNESS CONNECTION BETWEEN AIR BAG DIAGNOSIS SENSOR UNIT AND COMBINA- ETER ect the air bag diagnosis sensor unit harness connectors and turn ignition switch ON. | |
| Yes No 3. CHE TION MI Disconn Does "A Yes | >> Repair the harness. >> Inspection End. ECK HARNESS CONNECTION BETWEEN AIR BAG DIAGNOSIS SENSOR UNIT AND COMBINA- ETER ect the air bag diagnosis sensor unit harness connectors and turn ignition switch ON. IR BAG" warning lamp turn on? >> Replace the air bag diagnosis sensor unit. Refer to SRS-57, "Removal and Installation". | |
| Yes No 3. CHE TION MI Disconn Does "A Yes | >> Repair the harness. >> Inspection End. ECK HARNESS CONNECTION BETWEEN AIR BAG DIAGNOSIS SENSOR UNIT AND COMBINA- ETER ect the air bag diagnosis sensor unit harness connectors and turn ignition switch ON. IR BAG" warning lamp turn on? >> Replace the air bag diagnosis sensor unit. Refer to SRS-57, "Removal and Installation". | |

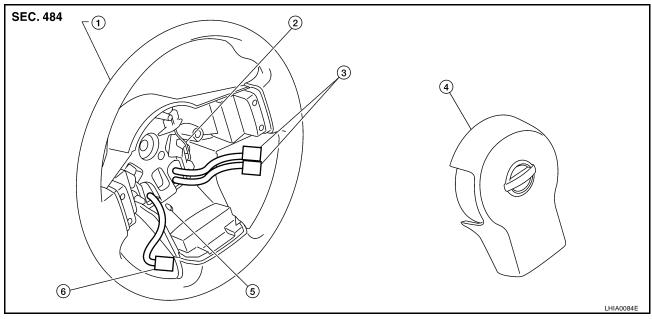
DRIVER AIR BAG MODULE

DRIVER AIR BAG MODULE

PFP:K8510

Removal and Installation

EHS0012Z



- 1. Steering wheel
- 4. Driver air bag module
- Retaining clip
- 5. Retaining clip access hole
- 3. Driver air bag module connectors
- 6. Horn connector

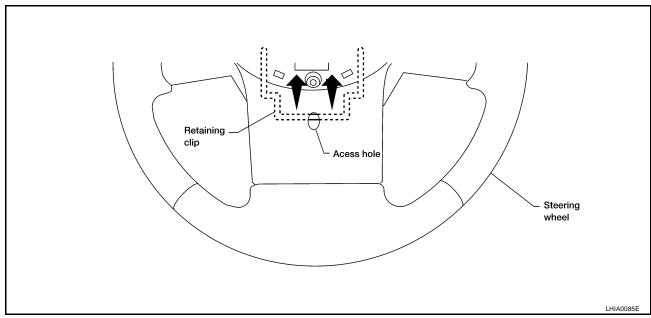
REMOVAL

CAUTION:

- Do not attempt to repair or replace damaged direct-connect SRS component connectors. If a
 driver air bag direct-connect harness connector is damaged, the spiral cable must be replaced.
- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
- When servicing the SRS, do not work from directly in front of air bag module.
- Locate retaining clip access hole and insert suitable 4mm 6mm blunt tool.

NOTE:

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



Press upward (toward center of steering wheel) on retaining clip until driver air bag module is released from steering wheel.

DRIVER AIR BAG MODULE

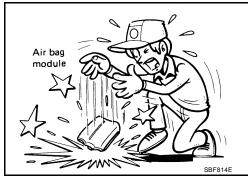
- 3. Lift the driver air bag module from the steering wheel.
- 4. Disconnect the driver air bag module and horn connectors, then remove the driver air bag module.
 - For removal/installation of the direct-connect SRS connectors, refer to <u>SRS-7</u>, "<u>Direct-connect SRS Component Connectors</u>".

CAUTION:

- When servicing the SRS, do not work from directly in front of air bag module.
- Always place air bag module with pad side facing upward.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module or connectors.
- Do not disassemble air bag module.
- Do not expose the air bag module to temperatures exceeding 90°C (194°F).



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



INSTALLATION

Installation is in the reverse order of installation.

- If driver air bag module is being replaced due to deployment, spiral cable must also be replaced. Refer to SRS-46, "SPIRAL CABLE".
- For removal/installation of the direct-connect SRS connectors, refer to <u>SRS-7</u>, "<u>Direct-connect SRS Component Connectors</u>".
- After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to SRS-20, "SRS Operation Check".

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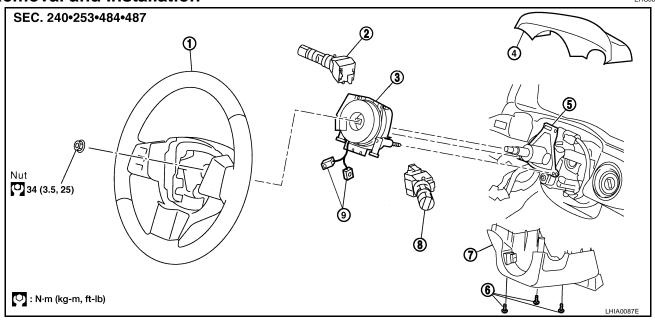
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SPIRAL CABLE PFP:25554

Removal and Installation

FHS00130

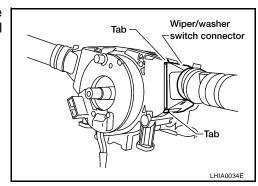


- 1. Steering wheel
- 4. Column cover upper
- 7. Column cover lower
- 2. Lighting and turn signal switch
- 5. Steering column assembly
- 8. Wiper and washer switch
- 3. Spiral cable
- 6. Screw
- 9. Driver air bag module connectors

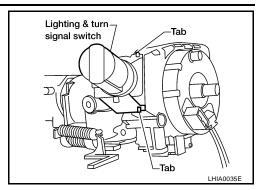
REMOVAL

CAUTION:

- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
- When servicing the SRS, do not work from directly in front of air bag module.
- 1. Set the front wheels in the straight-ahead position.
- 2. Remove the steering wheel. Refer to PS-9, "Removal and Installation".
- 3. Remove the column cover upper and lower.
- 4. Disconnect wiper and washer switch connector. Then while pressing tabs, pull wiper and washer switch away from spiral cable to remove.



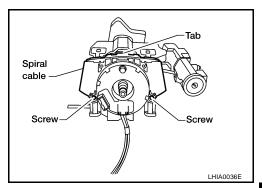
Disconnect lighting and turn signal switch connector. Then while pressing tabs, pull lighting and turn signal switch toward driver door to remove.



6. Remove the screws. Then while pressing the tab, pull the spiral cable away from steering column assembly.

CAUTION:

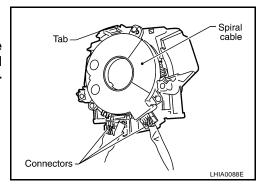
- Do not disassemble spiral cable.
- Do not apply lubricant to the spiral cable.



7. Disconnect the spiral cable connectors.

CAUTION:

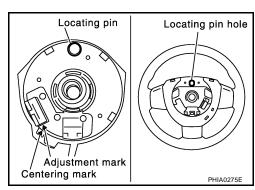
With the steering linkage disconnected, the spiral cable may snap by turning the steering wheel beyond the limited number of turns. The spiral cable can be turned counterclockwise about 2.5 turns from the neutral position.



INSTALLATION

Installation is in the reverse order of removal.

- Align spiral cable correctly when installing steering wheel, refer to <u>PS-9</u>, "INSTALLATION". Make sure that the spiral cable is in the neutral position. The neutral position is detected by turning left 2.6 revolutions from the right end position and ending with the locating pin at the top.
- Reset the steering angle sensor calibration after installing spiral cable. Refer to <u>BRC-58</u>, "Adjustment of Steering Angle Sensor Neutral Position".
- After the work is completed, perform self-diagnosis to make sure no malfunction is detected. Refer to <u>SRS-20</u>, <u>"SRS Operation Check"</u>.



CAUTION:

- The spiral cable may snap due to steering operation if the cable is not installed in the correct position.
- 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 neutral position.

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FRONT PASSENGER AIR BAG MODULE

PFP:K8515

Removal and Installation

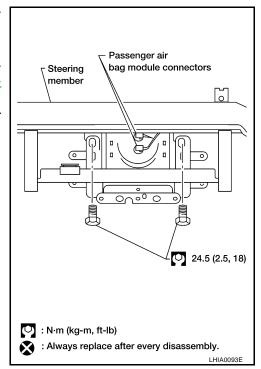
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The passenger air bag module originally installed in the vehicle uses direct-connect style harness connectors. Service replacement passenger air bag modules use tab-locking style harness connectors. If the passenger air bag module is replaced or if 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-50, "WIRING HARNESS MODIFICATION" for wiring harness modification procedure.

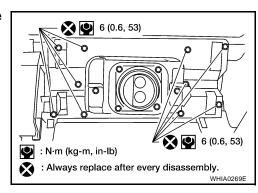
REMOVAL

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-10, "INSTRUMENT PANEL ASSEMBLY".
- 2. Remove 2 bolts (through glove box opening) retaining front passenger air bag module to the steering member.
- 3. Disconnect the passenger air bag module connectors.
 - For removal/installation of the direct-connect SRS connectors, refer to SRS-7, "Direct-connect SRS Component Connectors".
- 4. Remove the instrument panel assembly from the vehicle. Refer to [P-10, "INSTRUMENT PANEL ASSEMBLY".

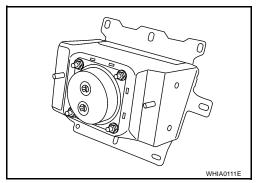


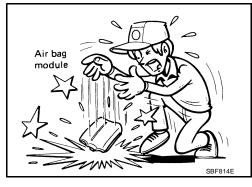
5. Remove front passenger air bag module screws then remove passenger air bag module from instrument panel assembly.



CAUTION:

- When servicing the SRS, do not work from directly in front of air bag module.
- Always place front passenger air bag module with caution label side facing upward.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module or harness connectors.
- Do not disassemble air bag module.
- Do not use old nuts after removal; replace with new nuts.
- Do not expose the front passenger air bag module to temperatures exceeding 90°C (194°F).
- Replace the air bag module if it has been dropped or sustained an impact.
- Do not allow oil, grease or water to come in contact with the air bag module.
- For removal/installation of the direct-connect SRS connectors, refer to SRS-7, "Direct-connect SRS Component Connectors".





INSTALLATION

Original Passenger Air Bag Module

To install, reverse the removal procedure.

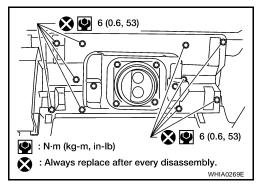
For removal/installation of the direct-connect SRS connectors, refer to SRS-7, "Direct-connect SRS Component Connectors".

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-20, "SRS Operation Check"</u>.

Service Replacement Passenger Air Bag Module

1. Install the front passenger air bag module to the instrument panel pad assembly.



- Install the instrument panel assembly. Refer to IP-10, "INSTRUMENT PANEL ASSEMBLY".
- 3. Connect the front passenger air bag module harness connector to yellow 4-pin service replacement air bag connector and fasten connector to mounting bracket.

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 SRS-20, "SRS Operation Check".

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WIRING HARNESS MODIFICATION

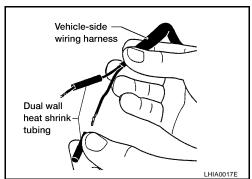
The passenger air bag module originally installed in the vehicle uses direct-connect style harness connectors. Service replacement passenger air bag modules use tab-locking style harness connectors. If the passenger air bag module is replaced or if the direct-connect harness connectors are damaged, the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

NOTE:

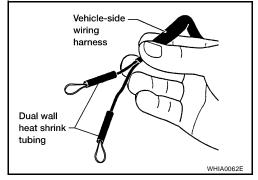
The wiring harness modification is to be performed only if the vehicle is equipped with the original passenger air bag which uses direct-connect harness connectors. If the passenger air bag is to be replaced in a vehicle that has already had the service replacement passenger air bag installed, the wiring 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 SRS-20, "SRS Operation Check".
- 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.

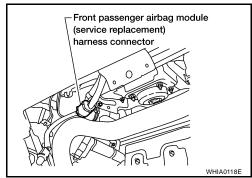


Fold each wire back and insert into the end of the heat shrink tubing so that the end of the wire is approximately centered in the heat shrink tubing.



- 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.

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 and remove the dust cover from the connector.



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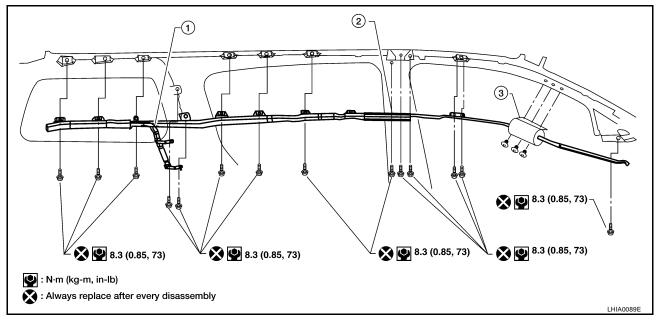
SIDE CURTAIN AIR BAG MODULE

SIDE CURTAIN AIR BAG MODULE

PFP:985P0

Removal and Installation

EHS00133



- 1. Rear curtain air bag module connector
- 2. Front curtain air bag module connector
- 3. Sail panel extrusion

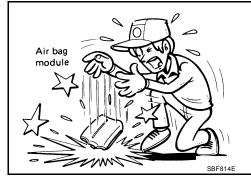
REMOVAL

CAUTION:

- Do not attempt to repair or replace damaged direct-connect SRS component connectors. If a direct-connect harness connector is damaged, the harness must be replaced.
- Before servicing the SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- When servicing the SRS, do not work from directly in front of air bag module.
- 1. Remove headlining. Refer to El-30, "Removal and Installation".
- 2. Disconnect front and rear side curtain air bag module connectors.
 - For removal/installation of the direct-connect SRS connectors, refer to <u>SRS-7</u>, "<u>Direct-connect SRS Component Connectors</u>".
- Remove the bolts in order starting at the front or rear, and remove the side curtain air bag module.

CAUTION:

- When servicing the SRS, do not work from directly in front of air bag module.
- Do not insert any foreign objects (screwdriver, etc.) into air bag module or harness connectors.
- Do not disassemble air bag module.
- Do not expose the air bag module to temperatures exceeding 90°C (194°F).
- Replace side curtain air bag module if it has been dropped or sustained an impact.
- Do not allow oil, grease or water to come in contact with the air bag module.



INSTALLATION

Installation is in the reverse order of removal.

SIDE CURTAIN AIR BAG MODULE

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

• After replacement of side curtain air bag module, perform self-diagnosis to check that no malfunction is detected. Refer to SRS-20, "SRS Operation Check".

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CRASH ZONE SENSOR

CRASH ZONE SENSOR

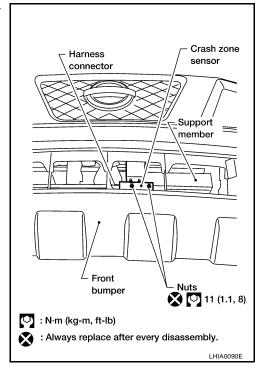
PFP:98531

Removal and Installation REMOVAL

EHS00134

CAUTION:

- Before servicing the SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- Remove crash zone sensor nuts and shield from support member
- 2. Disconnect the crash zone sensor harness connector.
- 3. Remove crash zone sensor.



CAUTION:

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

INSTALLATION

Installation is in the reverse order of removal.

After the work is complete, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-20</u>, "SRS Operation Check".

SIDE AIR BAG (SATELLITE) SENSOR

SIDE AIR BAG (SATELLITE) SENSOR

PFP:98830

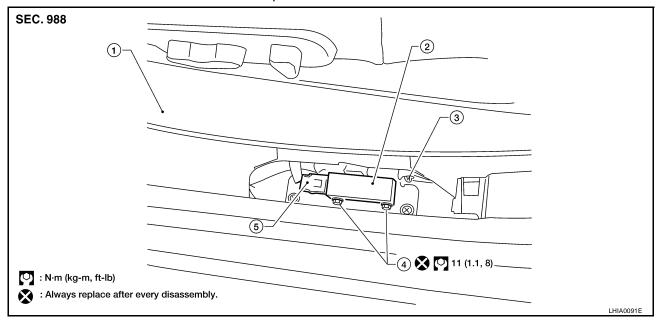
Removal and Installation REMOVAL

FHS00135

Α

CAUTION:

- Before servicing the SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- 1. Remove front door sill finisher and lift carpet.



- 1. Front seat finisher
- 2. Side air bag (satellite) sensor
- 3. Clip

4. Nuts

- 5. Side air bag (Satellite) sensor connector
- 2. Remove side air bag (satellite) sensor nuts and release the clip.
- Disconnect the side air bag (satellite) sensor connector.

CAUTION:

- Do not use old nuts after removal; replace with new nuts.
- 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 disassemble side air bag (satellite) sensor.
- Replace side air bag (satellite) sensor if it has been dropped or sustained an impact.

INSTALLATION

Installation is in the reverse order of removal.

 After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to SRS-20, "SRS Operation Check".

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FRONT SEAT BELT PRE-TENSIONER

FRONT SEAT BELT PRE-TENSIONER

PFP:86884

Removal and Installation

EHS00136

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

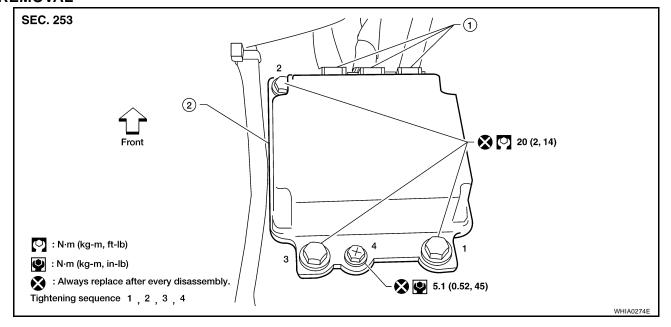
DIAGNOSIS SENSOR UNIT

PFP:28556

Removal and Installation REMOVAL

FHS00137

Α



1. Diagnosis sensor unit connectors

2. Diagnosis sensor unit

CAUTION:

- Before servicing the SRS, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- 1. Disconnect the connectors for each air bag module and seat belt pre-tensioner.
- 2. Remove center console. Refer to IP-10, "INSTRUMENT PANEL ASSEMBLY".
- 3. Disconnect diagnosis sensor unit connectors.
- 4. Remove bolts from the diagnosis sensor unit.

CAUTION:

- Do not use old bolts; replace with new bolts.
- 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

Installation is in the reverse order of removal.

 After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-20, "SRS Operation Check"</u>.

CAUTION:

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

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After replacing the diagnosis sensor unit, confirm that the diagnosis sensor unit identification is correct for the vehicle as equipped. Refer to <u>SRS-18</u>, "<u>CONSULT-II Function</u> (<u>AIR BAG</u>)".

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OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

PFP:98852

Removal and Installation

EHS00138

The occupant classification control unit, occupant classification (pressure) sensor, and bladder are an integral part of the front passenger seat cushion and are replaced as an assembly. Refer to <u>SE-94, "REMOVAL"</u> to remove the seat, and SE-96, "SEAT CUSHION TRIM AND PAD" to replace the seat cushion.

COLLISION DIAGNOSIS

PFP:00015

EHS0013A

Α

For Frontal Collision

Check the SRS components using the following table.

 After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-20, "SRS Operation Check"</u>.

SRS INSPECTION (FOR FRONTAL COLLISION)

| Part | SRS is activated | SRS is NOT activated | |
|---|--|---|--|
| Air bag module (driver and front pas- | REPLACE Install with new fas- | Remove air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. | |
| senger air bag mod- ule) | teners. | 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. | |
| | | 4. If no damage is found, reinstall with new fasteners. | |
| | | 5. If damaged—REPLACE. Install air bag modules with new fasteners. | |
| Crash zone sensor REPLACE the crash zone sensor and | Remove the crash zone sensor. Check harness connectors for damage, terminals for deformities, and harness for binding. | | |
| | bracket with new fas- teners. | Check for visible signs of damage (dents, cracks, deformation) of the crash zone sensor and bracket. | |
| | | 3. Install the crash zone sensor to check fit. | |
| | | 4. If no damage is found, reinstall with new fasteners. | |
| | | 5. If damaged—REPLACE the crash zone sensor and bracket with new fasteners. | |
| sioner assemblies | REPLACE Install seat belt pre- tensioner with new | Remove seat belt pre-tensioners. Check harness cover and connectors for damage, terminals for deformities, and harness for binding. | |
| | fasteners. | 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. | |
| | | 6. If damaged—REPLACE. Install the seat belt pre-tensioners with new fasteners. | |
| Diagnosis sensor unit | REPLACE | 1. Check case for dents, cracks or deformities. | |
| | Install with new fas- | 2. Check connectors for damage, and terminals for deformities. | |
| | teners. | 3. If no damage is found, reinstall with new fasteners. | |
| | | 4. If damaged—REPLACE. Install diagnosis sensor unit with new fasteners. | |
| Steering wheel | Visually check steering wheel for deformities. | | |
| | 2. Check harness (built into steering wheel) and connectors for damage, and terminals for deformities. | | |
| | 3. Install driver air bag module into the steering wheel to check fit and alignment with the wheel. | | |
| | 4. Check steering wheel for excessive free play. | | |
| | 5. If no damage is found, reinstall. | | |
| | 6. If damaged—REPLACE. | | |
| Spiral cable | REPLACE the spiral | Visually check spiral cable and combination switch for damage. | |
| | cable. | Check connectors and protective tape for damage. | |
| | | 3. Check steering wheel for noise, binding or heavy operation. | |
| | | 4. If no damage is found, reinstall. | |
| | | 5. If damaged—REPLACE. | |

| Part | SRS is activated | SRS is NOT activated |
|--|--|---|
| Occupant classifica- | 1. Remove passenger | seat. |
| tion system (Passen- | 2. Check control unit ca | ase for dents, cracks of deformities. |
| ger seat) | 3. Check connectors and pressure sensor tube for damage, and terminals for deformities. | |
| 4. Check the seat cushion frame and pan for any deformation, dents, cracks, or rust. Replace da ponents as necessary. (The occupant classification system will not function as designed with cany of it's components.) | | |
| | 5. If no damage is foun | d, reinstall seat with new fasteners. |
| | 6. If damaged — REPL | ACE seat cushion assembly with new fasteners. |
| Harness and connec- | 1. Check connectors for poor connection, damage, and terminals for deformities. | |
| tors | 2. Check harness for b | inding, chafing, cuts, or deformities. |
| | 3. If no damage is found, reinstall the harness and connectors. | |
| | 4. If damaged—REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness. | |
| Instrument panel | DEDI AGE II | 1. Visually check instrument panel for damage. |
| | REPLACE the instrument panel assembly. | 2. If no damage is found, reinstall the instrument panel. |
| | | 3. If damaged—REPLACE the instrument panel. |

For Side Collision

EHS0013B

Check the SRS components using the following table.

 After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to <u>SRS-20, "SRS Operation Check"</u>.

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 or RH) side air bag (satellite) sensor (on the side on which side air bag is activated)
- 2. Check the SRS components and the related parts using the following table.
- Replace any SRS components and the related parts showing visible signs of damage (dents, cracks, deformation).
- 3. Conduct self-diagnosis using CONSULT-II and "AIR BAG" warning lamp. Refer to <u>SRS-20, "SRS Operation 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-20, "SRS Operation Check"</u> for details. Ensure entire SRS operates properly.

SRS INSPECTION (FOR SIDE COLLISION)

| Part | SRS is activated | SRS is NOT activated |
|---|---|---|
| (LH or RH) side cur- tain air bag module | Replace the side curtain air bag module. (Repair the center pillar inner, etc. before installing new one if damaged.) | 1. Check for visible signs of damage (dents, tears, deformation) of the center pillar on the collision side. 2. If damaged—Remove the side curtain air bag module. 3. Check for visible signs of damaged (tears etc.) of the side curtain air bag module. 4. Check harness and connectors for damage, and terminals for deformities. 5. If no damage is found, reinstall the side curtain air bag module with new fasteners. 6. If damaged—REPLACE the side curtain air bag module with new fasteners. |
| Front (LH or RH) side air bag module | REPLACE front seat- back assembly. | Check for visible signs of damage (dents, tears, deformation) of the seat back on the collision side. Check harness and connectors for damage, and terminals for deformities. If damaged—REPLACE the front seatback assembly. |

| Part | SRS is activated | SRS is NOT activated | |
|---|--|--|--|
| (LH or RH) side air bag (satellite) sensor | REPLACE the side air bag (satellite) sensor on the collision side with new fasteners. (Repair the center pillar inner, etc. before installing new one if damaged.) | Remove the side air bag (satellite) sensor on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding. | |
| | | 2. Check for visible signs of damage (dents, cracks, deformation) of the side air bag (satellite) sensor. | |
| | | 3. Install the side air bag (satellite) sensor to check fit. | |
| | | 4. If no damage is found, reinstall the side sir bag (satellite) sensor with new fasteners. | |
| | | 5. If damaged—REPLACE the side air bag (satellite) sensor with new fasteners. | |
| Diagnosis sensor unit | REPLACE the diagnosis sensor unit with new fasteners. | 1. Check case and bracket for dents, cracks or deformities. | |
| | | 2. Check connectors for damage, and terminals for deformities. | |
| | | 3. If no damage is found, reinstall the diagnosis sensor unit with new fasteners. | |
| | | 4. If damaged—REPLACE the diagnosis sensor unit with new fasteners. | |
| Seat belt pre-tensioner assembly | Check if the seat belt can be extended smoothly. If the seat belt cannot be extended smoothly, | | |
| | - Check for deformities of the center pillar inner. | | |
| | If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly. | | |
| | 2. 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 fasteners. | | |
| Seat (with front side air bag) | REPLACE front seat- back assembly. | 1. Visually check the seat on the collision side. | |
| | | Remove the seat on the collision side and check the following for damage and deformities. | |
| | | Harness, connectors and terminals | |
| | | Frame and recliner (for front and rear seat), and also adjuster and slides (for front seat) | |
| | | 3. If no damage is found, reinstall the seat. | |
| | | 4. If damaged—REPLACE the damaged seat parts using new fasteners. If the front seat back is damaged, the front seat back assembly must be replaced. | |
| Center inner pillar | 1. Check the center inner pillar on the collision side for damage (dents, cracks, deformation). | | |
| | 2. If damaged—REPAIR the center inner pillar. | | |
| Trim/headlining | 1. Check for visible signs of damage (dents, cracks, deformation) of the interior trim on the collision side. | | |
| | 2. If damaged—REPLACE the damaged trim parts. | | |

Check the SRS components using the following table.

After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to SRS-20, "SRS Operation Check".

WHEN SRS IS ACTIVATED IN THE ROLLOVER

- 1. Replace the following components:
- Diagnosis sensor unit
- (LH or RH) side air bag (satellite) sensor (on the side on which side air bag is activated)
- 2. Check the SRS components and the related parts using the following table.
- Replace any SRS components and the related parts showing visible signs of damage (dents, cracks, deformation).
- 3. Conduct self-diagnosis using CONSULT-II and "AIR BAG" warning lamp. Refer to SRS-20, "SRS Operation Check" for details. Ensure entire SRS operates properly.

WHEN SRS IS NOT ACTIVATED IN THE ROLLOVER

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-20, "SRS Operation Check"</u> for details. Ensure entire SRS operates properly.

SRS INSPECTION (FOR ROLLOVER)

| Part | SRS is activated | SRS is NOT activated | |
|---|--|--|--|
| | Onto to dour diod | Check for visible signs of damage (dents, tears, deformation) of the center pillar on | |
| (LH or RH) side cur- tain air bag module | Replace the side curtain air bag module. (Repair the center pillar inner, etc. before installing new one if damaged.) | the collision side. | |
| | | 2. If damaged—Remove the side curtain air bag module. | |
| | | 3. Check for visible signs of damaged (tears etc.) of the side curtain air bag module. | |
| | | 4. Check harness and connectors for damage, and terminals for deformities. | |
| | | 5. If no damage is found, reinstall the side curtain air bag module with new fasteners. | |
| | | 6. If damaged—REPLACE the side curtain air bag module with new fasteners. | |
| Front (LH or RH) side air bag module | REPLACE front seat- back assembly. | Check for visible signs of damage (dents, tears, deformation) of the seat back on the collision side. | |
| | | 2. Check harness and connectors for damage, and terminals for deformities. | |
| | | 3. If damaged—REPLACE the front seatback assembly. | |
| (LH or RH) side air bag (satellite) sensor | REPLACE the side air bag (satellite) sensor on the collision side with new fasteners. (Repair the center pillar inner, etc. before installing new one if damaged.) | Remove the side air bag (satellite) sensor on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding. | |
| | | 2. Check for visible signs of damage (dents, cracks, deformation) of the side air bag (satellite) sensor. | |
| | | 3. Install the side air bag (satellite) sensor to check fit. | |
| | | 4. If no damage is found, reinstall the side sir bag (satellite) sensor with new fasteners. | |
| | | 5. If damaged—REPLACE the side air bag (satellite) sensor with new fasteners. | |
| Diagnosis sensor unit | REPLACE the diag- | Check case and bracket for dents, cracks or deformities. | |
| | nosis sensor unit with new fasteners. | 2. Check connectors for damage, and terminals for deformities. | |
| | | 3. If no damage is found, reinstall the diagnosis sensor unit with new fasteners. | |
| | | 4. If damaged—REPLACE the diagnosis sensor unit with new fasteners. | |
| Seat belt pre-ten- sioner assembly | Check if the seat belt can be extended smoothly. If the seat belt cannot be extended smoothly, | | |
| | Check for deformities of the center pillar inner. | | |
| | - If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly. | | |
| | 2. 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 fasteners. | | |
| Seat (with front side air bag) | REPLACE front seat- | Visually check the seat on the collision side. | |
| | 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. | |
| | | 4. If damaged—REPLACE the damaged seat parts using new fasteners. If the front seat back is damaged, the front seat back assembly must be replaced. | |
| Center inner pillar | Check the center inner pillar on the collision side for damage (dents, cracks, deformation). | | |
| | 2. If damaged—REPAIR the center inner pillar. | | |
| Trim/headlining | 1. Check for visible signs of damage (dents, cracks, deformation) of the interior trim on the collision side. | | |
| | 2. If damaged—REPLACE the damaged trim parts. | | |