SRS AIRBAG CONTROL SYSTEM

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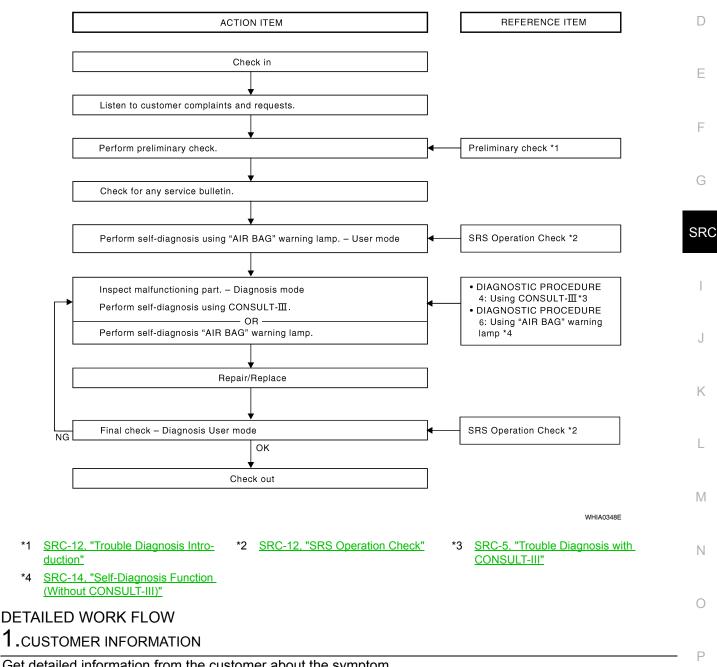
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< BASIC INSPECTION >

BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



Get detailed information from the customer about the symptom.

>> GO TO 2

2. PRELIMINARY CHECK

Perform preliminary check. Refer to SRC-12, "Trouble Diagnosis Introduction".

SRC-3

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

>> GO TO 3

$\mathbf{3}$. TECHNICAL SERVICE BULLETINS

Check for technical service bulletins.

>> GO TO 4

4.USER MODE

Perform self-diagnosis using the "AIR BAG" warning lamp in User mode. Refer to <u>SRC-12, "SRS Operation</u> <u>Check"</u>.

>> GO TO 5

5.self-diagnosis

Perform SELF-DIAGNOSIS. Refer to <u>SRC-5</u>, "Trouble Diagnosis with CONSULT-III" (w/CONSULT-III) or <u>SRC-14</u>, "Self-Diagnosis Function (Without CONSULT-III)" (w/o CONSULT- III).

>> GO TO 6

6.REPLACE PART

Replace the malfunctioning part.

>> GO TO 7

7.FINAL CHECK

Check SRS using Diagnosis mode and User mode.

Does Diagnosis mode and User mode indicate SRS normal?

YES >> Inspection end.

NO >> GO TO 5

INTERMITTENTS INCIDENT

| BASIC INSPECTION > | |
|--|---|
| NTERMITTENTS INCIDENT | Λ |
| nspection Procedure | A |
| NTERMITTENT TROUBLE In intermittent incident may have occured in the past but is not being detected currently. This DTC will not be etected on SELF DIAG [CURRENT], but may be viewed on SELF DIAG [PAST] using CONSULT-III. | В |
| rouble Diagnosis with CONSULT-III | С |
| IAGNOSTIC PROCEDURE 4 | D |
| heck SRS Repair History | D |
| .CONSIDER POSSIBILITY THAT SELF-DIAGNOSTIC RESULT WAS NOT ERASED AFTER REPAIR | _ |
| heck repair history of the SRS. | E |
| lave 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. Proceed to "DIAGNOSTIC PROCEDURE 3". Refer to <u>SRC-14</u> , "Self-Diagnosis Func- tion (Without CONSULT-III)". | F |
| NO >> Proceed to "DIAGNOSTIC PROCEDURE 2". Refer to <u>SRC-12. "SRS Operation Check"</u> . | G |

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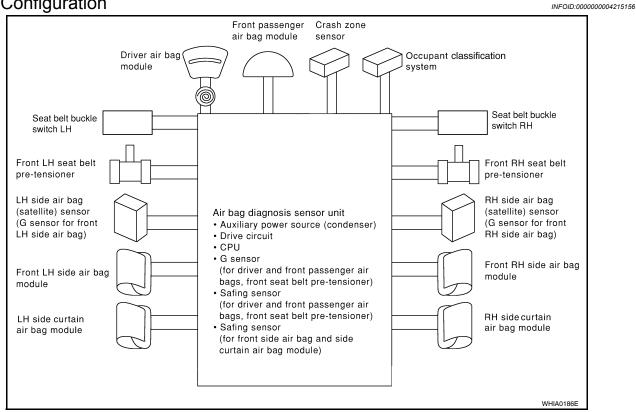
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FUNCTION DIAGNOSIS SRS AIR BAG SYSTEM

SRS Configuration



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

SRS AIR BAG SYSTEM

< FUNCTION DIAGNOSIS >

SRS Component Parts Location

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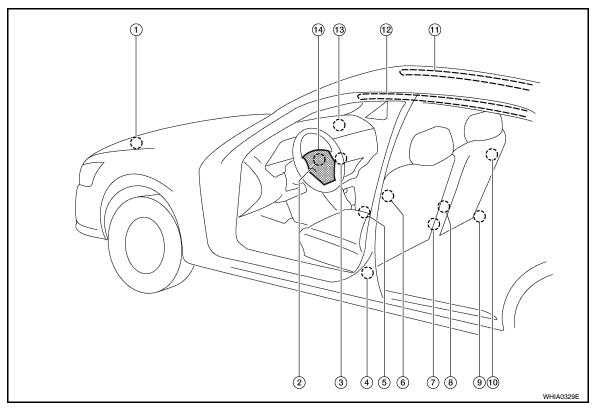
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- 1. Crash zone sensor
- 4. Front LH seatbelt pre-tensioner LH side air bag (satellite) sensor
- 7. Seat belt buckle switch (LH) Seat belt buckle switch (RH)
- 10. Front RH side air bag module
- 13. Front passenger air bag module

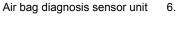
Driver Air Bag Module

The driver air bag module is dual stage and located in the steering wheel assembly. It operates with the SRS system in a frontal collision exceeding a specified level.

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8.



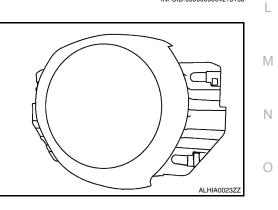
3.

- Occupant classification system 9. control unit and sensor mat
- RH side curtain air bag module 12. LH side curtain air bag module 11.
- 14. Driver air bag module

Spiral cable

- Front passenger air bag off indicator Front LH side air bag module
- Front RH seatbelt pre-tensioner RH side air bag (satellite) sensor

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< FUNCTION DIAGNOSIS >

Front Passenger Air Bag Module

The front passenger air bag module is located behind the instrument panel assembly. It operates with the SRS system in a frontal collision exceeding a specified level. Refer to <u>SRC-10</u>, "Occupant Classification System (OCS)" for more information.

Front Side Air Bag

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

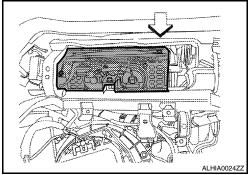
Side curtain air bag modules are located above the vehicle headlining. Vehicles with side curtain air bags are equipped with labels as shown.

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.

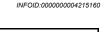
When the frontal collision with an impact exceeding a specified level occurs, seat belt slack resulting from clothing or other factors is immediately taken up by the pre-tensioner. Vehicle passengers are securely restrained.

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.



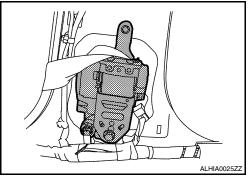


SRS AIRBAG



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< FUNCTION DIAGNOSIS >

Direct-connect SRS Component Connectors

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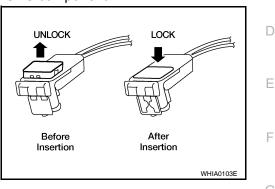
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The following SRS components use direct-connect style harness connectors.

- Driver front air bag module
- Passenger front air bag module
- LH side curtain air bag module
- RH side curtain air bag module
- Front LH seat belt pre-tensioner
- · Front RH seat belt pre-tensioner

Always pull up to release locking tab prior to removing connector from SRS component.

Always push down to lock locking tab after installing connector to SRS component. When locked, the locking tab is level with the connector housing.



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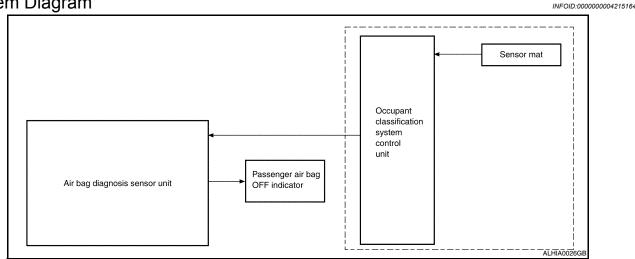
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OCCUPANT CLASSIFICATION SYSTEM

< FUNCTION DIAGNOSIS >

OCCUPANT CLASSIFICATION SYSTEM

System Diagram



Occupant Classification System (OCS)

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The occupant classification system (OCS) identifies if a child or child seat is present in the front passenger seat. The OCS receives inputs from the occupant classification sensor mat (located inside the passenger seat cushion assembly). Depending on classification of the passenger, the OCS control unit sends a signal to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit uses this signal and the seat belt buckle switch RH signal to determine deployment or non deployment of the front passenger air bag module in the event of a collision. Depending on the signals received, the air bag diagnosis sensor unit can disable the front passenger air bag module completely.

NOTE:

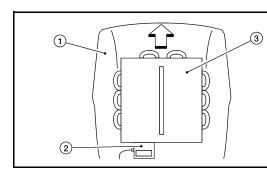
In case of customer concern, CONSULT-III can be used to confirm the front passenger air bag status (readiness).

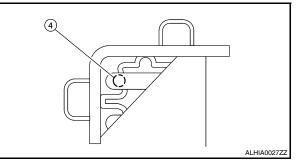
| Front Passenger Seat (Condition) | PASS AIR BAG OFF Indicator (Status) | Front Passenger Air Bag Status (Readiness) | CONSULT-III Display |
|-------------------------------------|--|---|---------------------|
| Seat occupied | OFF | Active (enabled) | ON |
| Seat occupied NOTE | ON | Deactivated (disabled) | OFF |
| Seat empty | OFF | Deactivated (disabled) | OFF |

Front Passenger Air Bag Status Conditions

NOTE:

Passenger does not meet Occupant Classification System specifications for passenger air bag activation.





1. Seat cushion foam

- 2. OCS control unit
- 3. OCS sensor mat

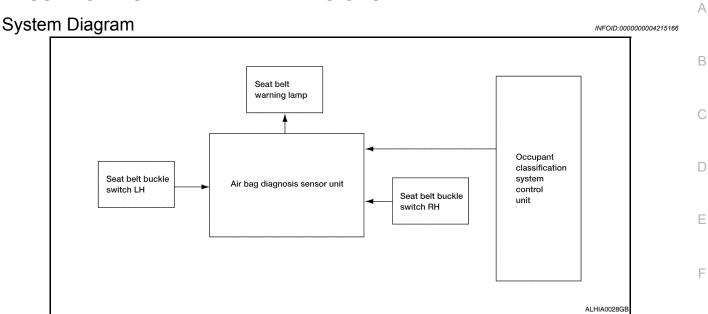
4. OCS sensor mat cell (internal)

SRC-10

PASSENGER SEAT BELT WARNING SYSTEM

< FUNCTION DIAGNOSIS >

PASSENGER SEAT BELT WARNING SYSTEM



System Description

The passenger seat belt warning system will remind the driver if the driver or front passenger seat belt should be buckled. The system works in conjunction with the occupant classification system. Refer to <u>SRC-10</u>, "Occupant Classification System (OCS)".

 $(\mathbf{1})$

Passenger Seat Belt Warning System Operation

| Driver seat status (Ignition switch ON) | Passenger seat status | Seat belt buckle switch LH status | Seat belt buckle switch RH status | Seat belt warning lamp | | |
|--|-----------------------|--------------------------------------|-----------------------------------|------------------------|---|--|
| Seat occupied | Seat occupied | | Buckled | Off | - | |
| | | Buckled | Unbuckled | On | | |
| | Seat unoccupied | | | Off | | |
| | — | Unbuckled | 1 - | On | | |

Component Parts Location

Refer to SRC-7, "SRS Component Parts Location".

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< FUNCTION DIAGNOSIS >

ON BOARD DIAGNOSTIC (OBD) SYSTEM

Trouble Diagnosis Introduction

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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-III. The User mode is exclusively prepared for the customer (driver). This mode warns the driver of a system mal-

function 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-III are as follows:

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

HOW TO PERFORM TROUBLE DIAGNOSES FOR QUICK AND ACCURATE REPAIR

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

Information From Customer WHAT - Vehicle model WHEN - Date, Frequencies WHERE - Road conditions HOW - Operating conditions, Symptoms

Preliminary Check

- Check that the following parts are in good order.
- Battery (Refer to <u>PG-2, "How to Handle Battery"</u>.)
 Fuse (Refer to <u>SRC-58, "Wiring Diagram"</u>.)
- System component-to-harness connections

SRS Operation Check

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DIAGNOSTIC PROCEDURE 1

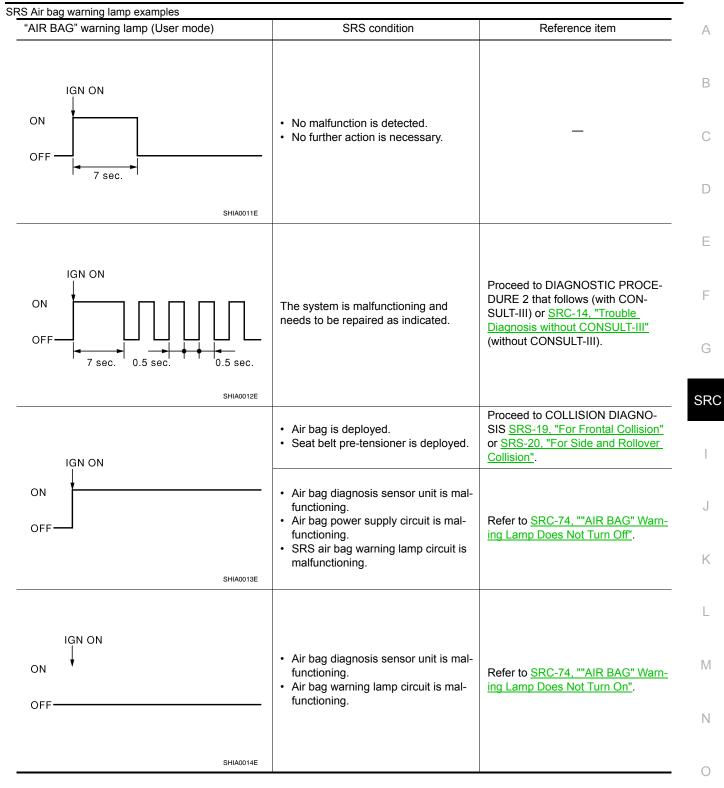
Checking SRS Operation Using "AIR BAG" Warning Lamp—User Mode

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



ON BOARD DIAGNOSTIC (OBD) SYSTEM

< FUNCTION DIAGNOSIS >



DIAGNOSTIC PROCEDURE 2

- 1. Connect CONSULT-III.
- Diagnostic code is displayed on "SELF-DIAG [CURRENT]". If no malfunction is detected on "SELF-DIAG [CURRENT]", but malfunction is detected in "SRS Operation Check" using the "AIR BAG" warning lamp, the following cases may exist:

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- "SELF-DIAG [PAST]" memory might not be erased.
- The SRS system malfunctions intermittently.

Perform DIAGNOSTIC PROCEDURE 4. Refer to <u>SRC-14</u>, "Self-Diagnosis Function (Without CONSULT-III)".

SRC-13

Trouble Diagnosis without CONSULT-III

DIAGNOSTIC PROCEDURE 6

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. Refer to <u>SRC-70, "Trouble Diagnosis without CONSULT-III"</u>.

CONSULT-III Function (AIR BAG)

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CONSULT-III 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-III 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-III 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 dis- played on the CONSULT-III screen. |
| ECU DISCRIMINATED NO. | The air bag diagnosis sensor unit for each vehicle model is assigned with its own, individual classifica- tion number. This number will be displayed on the CONSULT-III screen, as shown. When replacing the air bag diagnosis sensor unit, refer to the part number for the compatibility. After installation, replace- ment with a correct unit can be checked by confirming this classification number on the CONSULT-III screen. The air bag diagnosis sensor unit discriminated number assigned is F669. |
| PASSENGER AIR BAG | The STATUS (readiness) of the front passenger air bag module is displayed. The STATUS displayed (ON/OFF) depends on the signals supplied to the occupant classification system control unit and air bag diagnosis sensor unit. Refer to <u>SRC-10</u> , "Occupant Classification System (OCS)" for more information. |

Self-Diagnosis Function (Without CONSULT-III)

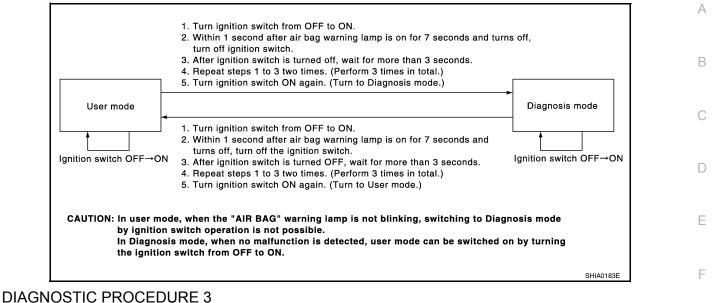
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- The reading of these results is accomplished using one of two modes —"User mode" and "Diagnosis mode".
- After a malfunction is repaired, turn the ignition switch OFF for at least one second, then back ON. Diagnosis
 mode returns to the User mode.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

ON BOARD DIAGNOSTIC (OBD) SYSTEM

< FUNCTION DIAGNOSIS >

HOW TO CHANGE SELF-DIAGNOSIS MODE



Final Check of SRS Using CONSULT-III—Diagnosis Mode

- 1. Connect CONSULT-III.
- If no DTC is detected on "SELF-DIAG [CURRENT]", repair of SRS is completed. Go to step 3. If any DTC is detected on "SELF-DIAG [CURRENT]", the malfunctioning part has not been repaired completely or another malfunctioning part is being detected. Perform DIAGNOSTIC PROCEDURE 2. Refer to <u>SRC-12, "SRS Operation Check"</u>.
- 3. 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. 4. Touch "BACK" key of CONSULT-III. Touch "SELF-DIAG [PAST]". Check that no malfunction is detected on "SELF-DIAG [PAST]". 5. Κ Touch "BACK" key of CONSULT-III to return to User mode from Diagnosis mode. 6. Turn ignition switch OFF and then turn off and disconnect CONSULT-III. 7. 8. Go to SRC-12, "SRS Operation Check". **DIAGNOSTIC PROCEDURE 4** Check SRS Repair History Μ 1.CONSIDER POSSIBILITY THAT SELF-DIAGNOSTIC RESULT WAS NOT ERASED AFTER REPAIR Check repair history of the SRS. Ν 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. Perform DIAGNOSTIC PROCEDURE 3. Refer to <u>SRC-14</u>, "Self-Diagnosis Function (Without CONSULT-III)".

Ρ

NO >> Perform DIAGNOSTIC PROCEDURE 2. Refer to <u>SRC-12</u>, "<u>SRS Operation Check</u>".

B1049 - B1052, B1054 - B1057 DRIVER AIRBAG MODULE

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS B1049 – B1052, B1054 – B1057 DRIVER AIRBAG MODULE

Description

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DTC B1049 - B1052, B1054 - B1057 DRIVER AIRBAG MODULE

The driver air bag module is dual stage and wired to the air bag diagnosis sensor unit through the spiral cable. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the driver air bag module including the spiral cable.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

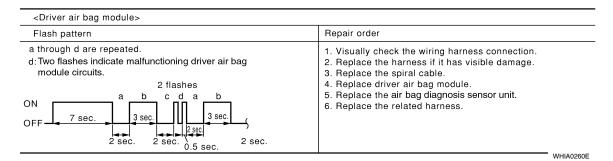
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DTC DETECTION LOGIC

With CONSULT-III

| CONSULT-III name | DTC | DTC detecting condition | | Repair order |
|-------------------------------------|--|--|----------------|---|
| DRIVER AIRBAG MODULE | B1049 | Driver air bag module circuit (DR1) is open (including the spiral cable). | 1. 2. | Visually check the wiring harness connection. Replace the harness if it has visible damage. |
| [OPEN] | B1054 | Driver air bag module circuit (DR2) is open (including the spiral cable). | 3. 4. 5. | Replace the driver air bag module. Replace the spiral cable. Replace the air bag diagnosis sensor unit. |
| DRIVER AIRBAG MODULE | B1050 | Driver air bag module circuit (DR1) is shorted to a power supply circuit (including the spiral cable). | _ | |
| [VB-SHORT] | B1055 Driver air bag module circuit (DR2) is shorted to a power supply circuit (including the spiral cable). | | | |
| DRIVER AIRBAG MODULE [GND-SHORT] | B1051 | Driver air bag module circuit (DR1) is shorted to ground (including the spiral cable). | | |
| | B1056 | Driver air bag module circuit (DR2) is shorted to ground (including the spiral cable). | | |
| DRIVER AIRBAG MODULE [SHORT] | B1052 | Driver air bag module circuits (DR1) are shorted to each other (including the spiral cable). | | |
| | B1057 | Driver air bag module circuits (DR2) are shorted to each other (including the spiral cable). | | |

Without CONSULT-III



DTC CONFIRMATION PROCEDURE (With CONSULT-III)

SRC-16

B1049 – B1052, B1054 – B1057 DRIVER AIRBAG MODULE

< COMPONENT DIAGNOSIS > **1.**INSPECTION START А Turn ignition switch ON. >> GO TO 2. В 2.CHECK SELF-DIAG RESULT Check for the DTC on CONSULT-III. Is the DTC detected? YES >> Refer to <u>SRC-17</u>, "Diagnosis Procedure (Component Diagnosis)". >> Inspection End. NO D DTC CONFIRMATION PROCEDURE (Without CONSULT-III) NOTE: SRS will not enter diagnosis mode if no malfunction is detected in user mode. Е **1.**IGNITION SWITCH Turn ignition switch ON. F >> GO TO 2 2. IGNITION SWITCH After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second. SRC >> GO TO 3 3.WAIT TIME Wait more than 3 seconds. >> GO TO 4 4.REPEAT STEPS Repeat steps 1 to 3 twice. Κ >> GO TO 5 **5.**IGNITION SWITCH Turn ignition switch ON. >> GO TO 6 Μ 6.DIAGNOSTIC MODE SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-70, "Trouble Diag-Ν nosis without CONSULT-III". >> END Diagnosis Procedure (Component Diagnosis) INFOID:000000004495977 Recheck SRS after each replacement. Ρ **1.**HARNESS CONNECTOR Is there any visible damage to the connector? YES or NO YES >> Replace the harness.

NO

>> GO TO 2

B1049 – B1052, B1054 – B1057 DRIVER AIRBAG MODULE

< COMPONENT DIAGNOSIS >

2. WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

YES >> Replace the harness. NO >> GO TO 3

3.DRIVER AIR BAG MODULE

Replace the driver air bag module. Refer to SRS-5, "Removal and Installation".

>> GO TO 4

4.SPIRAL CABLE

Replace the spiral cable. Refer to <u>SRS-8, "Removal and Installation"</u>.

>> GO TO 5

5. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SRS-16, "Removal and Installation".

>> GO TO 6

6.RELATED HARNESS

Replace the related harness.

>> END

B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

< COMPONENT DIAGNOSIS >

B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

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DTC B1065 – B1068, B1070 – B1073 PASSENGER AIR BAG MODULE The passenger air bag module is dual stage and wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the passenger air bag module.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

| CONSULT-III name | DTC | DTC detecting condition | | Repair order | F |
|-------------------|-------|--|----------------|--|-----|
| ASSIST A/B MODULE | B1065 | Front passenger air bag module circuit (AS1) is open. | 1. 2. | Visually check the wiring harness connection. Replace the harness if it has visible damage. | |
| [OPEN] | B1070 | Front passenger air bag module circuit (AS2) is open. | 3. 4. 5. | 4. Replace the air bag diagnosis sensor unit. | G |
| ASSIST A/B MODULE | B1066 | Front passenger air bag module circuit (AS1) is shorted to a power supply circuit. | | | SRC |
| [VB-SHORT] | B1071 | Front passenger air bag module circuit (AS2) is shorted to a power supply circuit. | | | |
| ASSIST A/B MODULE | B1067 | Front passenger air bag module circuit (AS1) is shorted to ground. | | | Ι |
| [GND-SHORT] | B1072 | Front passenger air bag module circuit (AS2) is shorted to ground. | | | .1 |
| ASSIST A/B MODULE | B1068 | Front passenger air bag module circuits (AS1) are shorted to each other. | | | 0 |
| [SHORT] | B1073 | Front passenger air bag module circuits (AS2) are shorted to each other. | | | Κ |

Without CONSULT-III

| Flash pattern | Repair order | M |
|---|---|-------|
| a through d are repeated. d: Eight flashes indicate malfunctioning front passenger air bag module circuit. 8 flashes | 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. | IVI |
| ON <u>3 sec.</u> <u>3 sec.</u> <u>3 sec.</u> | 5. Replace the related harness. | Ν |
| 2 sec. 2 sec. 0.5 sec. | WHIA | 0261E |

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

< COMPONENT DIAGNOSIS >

Is the DTC detected?

YES >> Refer to <u>SRC-20</u>, "Diagnosis Procedure (Component Diagnosis)".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE:

SRS will not enter diagnosis mode if no malfunction is detected in user mode.

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2. IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-70, "Trouble Diag-nosis without CONSULT-III"</u>.

>> END

Diagnosis Procedure (Component Diagnosis)

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector? <u>YES or NO</u>

YES >> Replace the harness.

NO >> GO TO 2

2.WIRING HARNESS

Is there any visible damage to the harness? <u>YES or NO</u>

YES >> Replace the harness. NO >> GO TO 3

3.FRONT PASSENGER AIR BAG MODULE

Replace the front passenger air bag module. Refer to SRS-10, "Removal and Installation".

SRC-20

INFOID:000000004495980

B1065 – B1068, B1070 – B1073 PASSENGER AIRBAG MODULE

| < COMPONENT DIAGNOSIS > | |
|---|-----|
| >> GO TO 4 | A |
| 4. AIR BAG DIAGNOSIS SENSOR UNIT | |
| Replace the air bag diagnosis sensor unit. Refer to <u>SRS-16, "Removal and Installation"</u> . | В |
| | |
| >> GO TO 5 5.RELATED HARNESS | С |
| Replace the related harness. | |
| >> END | D |
| | E |
| | |
| | F |
| | 0 |
| | G |
| | SRC |
| | I |
| | J |
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| | K |
| | L |
| | Μ |
| | N I |
| | Ν |
| | 0 |

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< COMPONENT DIAGNOSIS >

B1134 – B1137 SIDE AIRBAG MODULE LH

Description

INFOID:000000004495981

DTC B1134 – B1137 FRONT LH SIDE AIR BAG MODULE

The front LH side air bag module is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the front LH side air bag module.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:000000004495982

DTC DETECTION LOGIC

With CONSULT-III

| CONSULT-III name | DTC | DTC detecting condition | Repair order |
|-------------------------------|-------|--|--|
| 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 damage. |
| SIDE MODULE LH [VB-SHORT] | B1135 | Front LH side air bag module circuit is shorted to a power supply circuit. | Replace the front LH seat back assembly. Replace the air bag diagnosis sensor unit. 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. | |

Without CONSULT-III

| Flash pattern | Repair order |
|--|--|
| a through f are repeated. f: Two flashes indicate malfunctioning front LH side air bag module circuit. 2 flashes ON 0FF 7 sec. 2 sec. 2 flashes 2 | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace front LH seat back assembly. Replace the air bag diagnosis sensor unit. Replace the related harness. |

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-23</u>, "Diagnosis Procedure (Component Diagnosis)".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE:

SRS will not enter diagnosis mode if no malfunction is detected in user mode.

1.IGNITION SWITCH

E I U D4424 D440 -**C**II

| B1134 – B1137 SIDE AIRBAG MODULE LH | |
|--|----------|
| < COMPONENT DIAGNOSIS > | |
| Turn ignition switch ON. | А |
| >> GO TO 2 | / \ |
| 2.IGNITION SWITCH | В |
| After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second. | |
| >> GO TO 3 | С |
| 3.WAIT TIME | |
| Wait more than 3 seconds. | D |
| >> GO TO 4 | |
| 4.REPEAT STEPS | E |
| Repeat steps 1 to 3 twice. | _ |
| >> GO TO 5 | F |
| 5. IGNITION SWITCH | |
| Turn ignition switch ON. | G |
| >> GO TO 6 | |
| 6.DIAGNOSTIC MODE | SRO |
| SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-70, "Trouble Diag</u> | 1- |
| nosis without CONSULT-III". | |
| >> END | |
| Diagnosis Procedure (Component Diagnosis) | J 183 |
| Recheck SRS after each replacement. | |
| 1.HARNESS CONNECTOR | K |
| Is there any visible damage to the connector? | 1 |
| <u>YES or NO</u> YES >> Replace the harness. | L |
| NO $>>$ GO TO 2 | в. Л. |
| 2.WIRING HARNESS | M |
| Is there any visible damage to the harness? <u>YES or NO</u> | NI |
| YES >> Replace the harness. NO >> GO TO 3 | Ν |
| 3.FRONT LH SIDE AIR BAG MODULE | 0 |
| Replace the front LH seat back assembly. Refer to <u>SE-21, "Removal and Installation"</u> . | _ |
| | Р |
| >> GO TO 4 4. AIR BAG DIAGNOSIS SENSOR UNIT | I |
| Replace the air bag diagnosis sensor unit. Refer to <u>SRS-16, "Removal and Installation"</u> . | _ |
| | |

>> GO TO 5 5.RELATED HARNESS

B1134 – B1137 SIDE AIRBAG MODULE LH

< COMPONENT DIAGNOSIS >

Replace the related harness.

>> END

< COMPONENT DIAGNOSIS >

B1129 – B1132 SIDE AIRBAG MODULE RH А Description INFOID:000000004495984 DTC B1129 – B1132 FRONT RH SIDE AIR BAG MODULE В The front RH side air bag module is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the front RH side air bag module. PART LOCATION Refer to SRC-7, "SRS Component Parts Location". D DTC Logic INFOID:000000004495985 DTC DETECTION LOGIC Е With CONSULT-III CONSULT-III name DTC DTC detecting condition Repair order F SIDE MODULE RH Front RH side air bag module circuit is Visually check the wiring harness connection. 1. B1129 [OPEN] 2. Replace the harness if it has visible damage. open. 3. Replace the front RH seat back assembly. SIDE MODULE RH Front RH side air bag module circuit is B1130 4. Replace the air bag diagnosis sensor unit. [VB-SHORT] shorted to a power supply circuit. Replace the related harness. 5. SIDE MODULE RH Front RH side air bag module circuit is B1131 [GND-SHORT] shorted to ground. SRC SIDE MODULE RH Front RH side air bag module circuits are B1132 shorted to each other. [SHORT] Without CONSULT-III <Front RH side air bag module> Flash pattern Repair order a through f are repeated. 1. Visually check the wiring harness connection. f: One flash indicate malfunctioning front RH side air bag 2. Replace the harness if it has visible damage. module circuit. 3. Replace front RH seat back assembly. Κ 4. Replace the air bag diagnosis sensor unit. 1 flash 5. Replace the related harness. bcd d e fa ON 7 sec OFF . / 0.5 sec. 0.5 sec. 2 sec. WHIA0264E M DTC CONFIRMATION PROCEDURE (With CONSULT-III) **1**.INSPECTION START Turn ignition switch ON. Ν >> GO TO 2. 2.CHECK SELF-DIAG RESULT Check for the DTC on CONSULT-III. Is the DTC detected? Ρ YES >> Refer to SRC-26, "Diagnosis Procedure (Component Diagnosis)". NO >> Inspection End. DTC CONFIRMATION PROCEDURE (Without CONSULT-III) NOTE: SRS will not enter diagnosis mode if no malfunction is detected in user mode. **1.**IGNITION SWITCH

B1129 – B1132 SIDE AIRBAG MODULE RH

< COMPONENT DIAGNOSIS >

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6. DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-70, "Trouble Diag-nosis without CONSULT-III"</u>.

>> END

Diagnosis Procedure (Component Diagnosis)

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector? <u>YES or NO</u> YES >> Replace the harness. NO >> GO TO 2

2. WIRING HARNESS

Is there any visible damage to the harness? <u>YES or NO</u> <u>YES</u> >> Replace the harness.

NO >> GO TO 3

3.FRONT RH SIDE AIR BAG MODULE

Replace the front RH seat back assembly. Refer to <u>SE-21, "Removal and Installation"</u>.

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SRS-16, "Removal and Installation".

>> GO TO 5 **5.**RELATED HARNESS INFOID:000000004495986

B1129 – B1132 SIDE AIRBAG MODULE RH

< COMPONENT DIAGNOSIS >

Replace the related harness.

>> END

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SRC-27

B1150 – B1153 SIDE CURTAIN AIR BAG MODULE LH

< COMPONENT DIAGNOSIS >

B1150 – B1153 SIDE CURTAIN AIR BAG MODULE LH

Description

INFOID:000000004495987

DTC B1150 - B1153 LH SIDE CURTAIN AIR BAG MODULE

The LH side curtain air bag module is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the LH side curtain air bag module.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:000000004495988

DTC DETECTION LOGIC

With CONSULT-III

| CONSULT-III name | DTC | DTC detecting condition | Repair order |
|----------------------------------|-------|--|---|
| CURTAIN MODULE LH [OPEN] | B1150 | LH side curtain air bag module circuit is open. | Visually check the wiring harness connection. Replace the harness if it has visible damage. |
| CURTAIN MODULE LH [VB-SHORT] | B1151 | LH side curtain air bag module circuit is shorted to a power supply circuit. | Replace the LH side curtain air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| CURTAIN MODULE LH [GND-SHORT] | B1152 | LH side curtain air bag module circuit is shorted to ground. | |
| CURTAIN MODULE LH [SHORT] | B1153 | LH side curtain air bag module circuits are shorted to each other. | |

Without CONSULT-III

| Flash pattern | Repair order |
|--|---|
| a through f are repeated. f: Six flashes indicate malfunctioning LH side curtain air bag module circuit. ON DFF 7 sec. 0.5 sec. 0.5 sec. 6 flashes 2 sec. 0.5 sec. 2 sec. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace LH side curtain air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness. |

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-29</u>, "Diagnosis Procedure (Component Diagnosis)".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE:

SRS will not enter diagnosis mode if no malfunction is detected in user mode.

1.IGNITION SWITCH

. . . .

| B1150 – B1153 SIDE CURTAIN AIR BAG MODULE LH | |
|---|-----|
| < COMPONENT DIAGNOSIS > | |
| Turn ignition switch ON. | А |
| >> GO TO 2 | |
| 2.IGNITION SWITCH | В |
| After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second. | |
| >> GO TO 3 | С |
| 3.WAIT TIME | |
| Wait more than 3 seconds. | D |
| >> GO TO 4 | |
| 4.REPEAT STEPS | Ε |
| Repeat steps 1 to 3 twice. | |
| >> GO TO 5 | F |
| 5.IGNITION SWITCH | |
| Turn ignition switch ON. | G |
| >> GO TO 6 | SRC |
| 6. DIAGNOSTIC MODE | SKU |
| SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-70, "Trouble Diag-nosis without CONSULT-III"</u> . | I |
| >> END | |
| Diagnosis Procedure (Component Diagnosis) | J |
| Recheck SRS after each replacement. | 1Z |
| 1.HARNESS CONNECTOR | K |
| Is there any visible damage to the connector? YES or NO | I |
| YES >> Replace the harness. | L |
| NO >> GO TO 2 2.WIRING HARNESS | M |
| Is there any visible damage to the harness? | |
| YES or NO | Ν |
| YES >> Replace the harness. NO >> GO TO 3 | |
| 3.LH SIDE CURTAIN AIR BAG MODULE | 0 |
| Replace the LH side curtain air bag module. Refer to <u>SRS-12, "Removal and Installation"</u> . | |
| >> GO TO 4 | Ρ |
| 4.AIR BAG DIAGNOSIS SENSOR UNIT | |
| Replace the air bag diagnosis sensor unit. SRS-16, "Removal and Installation". | |
| | |

>> GO TO 5

5.RELATED HARNESS

B1150 – B1153 SIDE CURTAIN AIR BAG MODULE LH

< COMPONENT DIAGNOSIS >

Replace the related harness.

>> END

B1145 – B1148 SIDE CURTAIN AIR BAG MODULE RH

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INFOID:000000004495990

INFOID:000000004495991

< COMPONENT DIAGNOSIS >

B1145 – B1148 SIDE CURTAIN AIR BAG MODULE RH

Description

DTC B1145 – B1148 RH SIDE CURTAIN AIR BAG MODULE

The RH side curtain air bag module is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the RH side curtain air bag module.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

| - | CONSULT-III name | DTC | DTC detecting condition | | Repair order | F | |
|---|----------------------------------|-------|--|----------|--|---|---|
| _ | CURTAIN MODULE RH [OPEN] | B1145 | RH side curtain air bag module circuit is open. | 1. 2. | Visually check the wiring harness connection. Replace the harness if it has visible damage. | | |
| | CURTAIN MODULE RH [VB-SHORT] | B1146 | RH side curtain air bag module circuit is shorted to a power supply circuit. | 4. R | 4. Replace the air bag diagnosis sensor | Replace the RH side curtain air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness. | G |
| _ | CURTAIN MODULE RH [GND-SHORT] | B1147 | RH side curtain air bag module circuit is shorted to ground. | | | SR | |
| _ | CURTAIN MODULE RH [SHORT] | B1148 | RH side curtain air bag module circuits are shorted to each other. | | | | |

Without CONSULT-III

| Flash pattern | Repair order | |
|--|---|--|
| a through f are repeated. f: Five flashes indicate malfunctioning RH side curtain air bag module circuit. 5 flashes ON OFF 7 sec. 7 sec. 7 sec. 2 sec. 0.5 sec. 2 sec. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace RH side curtain air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness. | |

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

 Turn ignition switch ON.
 >> GO TO 2.

 2.CHECK SELF-DIAG RESULT
 O

 Check for the DTC on CONSULT-III.
 O

 Is the DTC detected?
 P

 YES
 >> Refer to SRC-32, "Diagnosis Procedure (Component Diagnosis)".

 NO
 >> Inspection End.

 DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

 NOTE:

SRS will not enter diagnosis mode if no malfunction is detected in user mode.

1.IGNITION SWITCH

B1145 – B1148 SIDE CURTAIN AIR BAG MODULE RH

< COMPONENT DIAGNOSIS >

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6. DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-70, "Trouble Diag-nosis without CONSULT-III"</u>.

>> END

Diagnosis Procedure (Component Diagnosis)

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector? <u>YES or NO</u> YES >> Replace the harness. NO >> GO TO 2

2. WIRING HARNESS

Is there any visible damage to the harness? <u>YES or NO</u> <u>YES</u> >> Replace the harness.

3.RH SIDE CURTAIN AIR BAG MODULE

Replace the RH side curtain air bag module. Refer to <u>SRS-12, "Removal and Installation"</u>.

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SRS-16, "Removal and Installation".

>> GO TO 5 **5.**RELATED HARNESS INFOID:000000004495992

B1145 – B1148 SIDE CURTAIN AIR BAG MODULE RH

< COMPONENT DIAGNOSIS >

Replace the related harness.

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SRC-33

B1086 – B1089 SEAT BELT PRE-TENSIONER LH

< COMPONENT DIAGNOSIS >

B1086 – B1089 SEAT BELT PRE-TENSIONER LH

Description

INFOID:000000004495993

DTC B1086 - B1089 SEAT BELT PRE-TENSIONER LH

The seat belt pre-tensioner LH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the seat belt pre-tensioner LH.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:000000004495994

DTC DETECTION LOGIC

With CONSULT-III

| CONSULT-III name | DTC | DTC detecting condition | | Repair order |
|---------------------------------|-------|--|----------------|---|
| PRE-TEN FRONT LH [OPEN] | B1086 | LH seat belt pre-tensioner circuit is open. | 1. 2. | Visually check the wiring harness connection. Replace the harness if it has visible damage. |
| PRE-TEN FRONT LH [VB-SHORT] | B1087 | LH seat belt pre-tensioner circuit is shorted to a power supply circuit. | 3. 4. 5. | Replace the front LH seat belt pre-tensioner. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| PRE-TEN FRONT LH [GND-SHORT] | B1088 | LH seat belt pre-tensioner circuit is shorted to ground. | | |
| PRE-TEN FRONT LH [SHORT] | B1089 | LH seat belt pre-tensioner circuits are shorted to each other. | | |

Without CONSULT-III

| Flash pattern | Repair order |
|--|--|
| a through d are repeated. d: Three flashes indicate malfunctioning front LH seat belt pre-tensioner circuit. 3 flashes DN 0FF 7 sec. 2 sec. 2 sec. 2 sec. 2 sec. 2 sec. 2 sec. 3 flashes 2 sec. 2 sec. 2 sec. 3 flashes 2 sec. 2 sec. 3 sec. 2 sec. 3 sec. 2 sec. 3 sec. 2 sec. 3 se | 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. |

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-35</u>, "Diagnosis Procedure (Component Diagnosis)".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE:

SRS will not enter diagnosis mode if no malfunction is detected in user mode.

1.IGNITION SWITCH

| B1086 – B1089 SEAT BELT PRE-TENSIONER LH | |
|--|-----|
| < COMPONENT DIAGNOSIS > | |
| Turn ignition switch ON. | Λ |
| >> GO TO 2 | А |
| 2.IGNITION SWITCH | _ |
| After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second. | В |
| | |
| >> GO TO 3 3.WAIT TIME | С |
| | |
| Wait more than 3 seconds. | D |
| >> GO TO 4 | |
| 4.REPEAT STEPS | Е |
| Repeat steps 1 to 3 twice. | |
| >> GO TO 5 | F |
| 5. IGNITION SWITCH | |
| Turn ignition switch ON. | G |
| | |
| >> GO TO 6 | SRC |
| 6.DIAGNOSTIC MODE | |
| SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-70, "Trouble Diagnosis without CONSULT-III"</u> . | |
| | |
| >> END | J |
| Diagnosis Procedure (Component Diagnosis) | 0 |
| Recheck SRS after each replacement. | К |
| 1.HARNESS CONNECTOR | Γ |
| Is there any visible damage to the connector? <u>YES or NO</u> | |
| YES >> Replace the harness. | L |
| NO >> GO TO 2 | |
| 2.WIRING HARNESS | Μ |
| Is there any visible damage to the harness? <u>YES or NO</u> | |
| YES >> Replace the harness. | Ν |
| NO >> GO TO 3 | |
| 3.FRONT LH SEAT BELT PRE-TENSIONER | 0 |
| Replace the front LH seat belt pre-tensioner. Refer to <u>SB-7, "Removal and Installation"</u> . | |
| >> GO TO 4 | Ρ |
| 4.AIR BAG DIAGNOSIS SENSOR UNIT | |
| Replace the air bag diagnosis sensor unit. Refer to <u>SRS-16. "Removal and Installation"</u> . | |

>> GO TO 5 5.RELATED HARNESS

B1086 – B1089 SEAT BELT PRE-TENSIONER LH

< COMPONENT DIAGNOSIS >

Replace the related harness.

>> END

B1081 – B1084 SEAT BELT PRE-TENSIONER RH

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INFOID:000000004495996

INFOID:000000004495997

< COMPONENT DIAGNOSIS >

B1081 – B1084 SEAT BELT PRE-TENSIONER RH

Description

DTC B1081 – B1084 SEAT BELT PRE-TENSIONER RH

The seat belt pre-tensioner RH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the seat belt pre-tensioner RH.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

| _ | CONSULT-III name | DTC | DTC detecting condition | | Repair order | F | | |
|---|---------------------------------|-------|---|--|---|--|--|--|
| _ | PRE-TEN FRONT RH [OPEN] | B1081 | RH seat belt pre-tensioner circuit is open. | 2. Replace the harness if it has visible dan | 2. Replace the harness if it has visib | 2. Replace the harness if it has visible | Visually check the wiring harness connection. Replace the harness if it has visible damage. | |
| _ | PRE-TEN FRONT RH [VB-SHORT] | B1082 | RH seat belt pre-tensioner circuit is short- ed to a power supply circuit. | 3. 4. 5. | Replace the front RH seat belt pre-tensioner. Replace the air bag diagnosis sensor unit. Replace the related harness. | G | | |
| | PRE-TEN FRONT RH [GND-SHORT] | B1083 | RH seat belt pre-tensioner circuit is short- ed to ground. | | | SR | | |
| _ | PRE-TEN FRONT RH [SHORT] | B1084 | RH seat belt pre-tensioner circuits are shorted to each other. | | | | | |

Without CONSULT-III

| 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. 2 sec. 2 sec. 0.5 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. | WHI40262E |
| C CONFIRMATION PROCEDURE (With CON | SULT-III) | WHIAU202E |
| NSPECTION START | | |
| | | |

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-38</u>, "Diagnosis Procedure (Component Diagnosis)".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE:

SRS will not enter diagnosis mode if no malfunction is detected in user mode.

1.IGNITION SWITCH

B1081 – B1084 SEAT BELT PRE-TENSIONER RH

< COMPONENT DIAGNOSIS >

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-70, "Trouble Diag-nosis without CONSULT-III"</u>.

>> END

Diagnosis Procedure (Component Diagnosis)

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector? <u>YES or NO</u> YES >> Replace the harness. NO >> GO TO 2

2. WIRING HARNESS

Is there any visible damage to the harness? <u>YES or NO</u> YES >> Replace the harness. NO >> GO TO 3

NO >> GO TO 3

3.FRONT RH SEAT BELT PRE-TENSIONER

Replace the front RH seat belt pre-tensioner. Refer to SB-7, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SRS-16, "Removal and Installation".

>> GO TO 5 5.RELATED HARNESS INFOID:000000004495998

B1081 – B1084 SEAT BELT PRE-TENSIONER RH

< COMPONENT DIAGNOSIS >

Replace the related harness.

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SRC-39

< COMPONENT DIAGNOSIS >

B1033 – B1035 CRASH ZONE SENSOR

Description

INFOID:000000004495999

DTC B1033 - B1035 CRASH ZONE SENSOR

The crash zone sensor is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the crash zone sensor.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

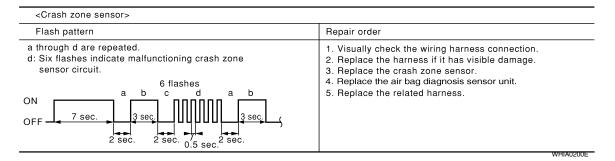
INFOID:000000004496000

DTC DETECTION LOGIC

With CONSULT-III

| CONSULT-III name | DTC | DTC detecting condition | Repair order |
|-------------------------------|---|--|---|
| CRASH ZONE SEN | ZONE SEN B1033 Crash zone sensor has malfunctioned. | Crash zone sensor has malfunctioned. | 1. Visually check the wiring harness connection |
| [UNIT FAIL] | B1034 | | Replace the harness if it has visible damage. Replace the crash zone sensor. |
| CRASH ZONE SEN [COMM FAIL] | B1035 | Crash zone sensor communication error. | Replace the air bag diagnosis sensor unit. Replace the related harness. |

Without CONSULT-III



DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-41</u>. "Diagnosis Procedure (Component Diagnosis)".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE:

SRS will not enter diagnosis mode if no malfunction is detected in user mode.

1.IGNITION SWITCH

Turn ignition switch ON.

SRC-40

B1033 – B1035 CRASH ZONE SENSOR

| B1035 - B1035 CRASH ZONE SENSOR | |
|---|-----|
| < COMPONENT DIAGNOSIS > | |
| 2.IGNITION SWITCH | Λ |
| After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second. | А |
| | _ |
| >> GO TO 3 3.WAIT TIME | В |
| Wait more than 3 seconds. | |
| | С |
| >> GO TO 4 | |
| 4.REPEAT STEPS | D |
| Repeat steps 1 to 3 twice. | |
| >> GO TO 5 | Е |
| 5.IGNITION SWITCH | |
| Turn ignition switch ON. | F |
| | |
| >> GO TO 6 6.DIAGNOSTIC MODE | G |
| SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-70, "Trouble Diag-</u> | |
| nosis without CONSULT-III". | SRC |
| | |
| >> END | I |
| Diagnosis Procedure (Component Diagnosis) | |
| Recheck SRS after each replacement. | I |
| 1.HARNESS CONNECTOR | J |
| Is there any visible damage to the connector? | |
| <u>YES or NO</u> YES >> Replace the harness. | K |
| NO >> GO TO 2 | |
| 2.WIRING HARNESS | L |
| Is there any visible damage to the harness? | |
| YES or NO YES >> Replace the harness. | M |
| NO >> GO TO 3 | |
| 3. CRASH ZONE SENSOR | Ν |
| Replace the crash zone sensor. Refer to <u>SRS-14, "Removal and Installation"</u> . | |
| >> GO TO 4 | 0 |
| 4. AIR BAG DIAGNOSIS SENSOR UNIT | |
| Replace the air bag diagnosis sensor unit. Refer to SRS-16, "Removal and Installation". | Р |
| | |
| >> GO TO 5 | |

5.RELATED HARNESS

Replace the related harness.

< COMPONENT DIAGNOSIS >

>> END

< COMPONENT DIAGNOSIS >

B1118 – B1120 SATELLITE SENSOR LH

Description

DTC B1118 - B1120 SATELLITE SENSOR LH

The satellite sensor LH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor the satellite sensor LH for internal failures and it's circuits for communication errors.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

| CONSULT-III name | DTC | DTC detecting condition | | Repair order | F |
|----------------------------------|----------------|--|----------------|---|---|
| SATELLITE SENS LH [UNIT FAIL] | B1118 B1119 | LH side air bag satellite sensor has mal- functioned. | 1. 2. 3. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the LH side air bag satellite sensor. | |
| SATELLITE SENS LH [COMM FAIL] | B1120 | LH side air bag satellite sensor communi- cation error. | 4. 5. | Replace the air bag diagnosis sensor unit. Replace the related harness. | G |

Without CONSULT-III

| Flash pattern | Repair order | |
|---|---|---|
| a through f are repeated. f: Four flashes indicate malfunctioning 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. | _ |
| 4 flashes | 4. Replace the air bag diagnosis sensor unit. | |
| | 5. Replace the related harness. | |
| OFF 7 Sec. 5ec. sec. 11.5 | | |
| | | |
| 2 sec. / 0.5 sec. 0.5 sec. | WHIA0204E | |

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

| Check for the DTC on CONSULT-III. | |
|---|---|
| Is the DTC detected? | |
| YES >> Refer to <u>SRC-44, "Diagnosis Procedure (Component Diagnosis)"</u> . | 0 |
| NO >> Inspection End. | |
| DTC CONFIRMATION PROCEDURE (Without CONSULT-III) | Р |
| NOTE: | |
| SRS will not enter diagnosis mode if no malfunction is detected in user mode. | |

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

SRC-43

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INFOID:000000004496003

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B1118 – B1120 SATELLITE SENSOR LH

< COMPONENT DIAGNOSIS >

2. IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-70, "Trouble Diagnosis without CONSULT-III"</u>.

>> END

Diagnosis Procedure (Component Diagnosis)

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

YES >> Replace the harness. NO >> GO TO 2

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

YES >> Replace the harness.

NO >> GO TO 3

3.LH SIDE AIR BAG SATELLITE SENSOR

Replace the LH side air bag satellite sensor. Refer to <u>SRS-15. "Removal and Installation"</u>.

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SRS-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

INFOID:000000004496004

B1118 - B1120 SATELLITE SENSOR LH

| < COMPONENT DIAGNOSIS > | | |
|-------------------------|--|--|
| >> END | | |
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B1113 – B1115 SATELLITE SENSOR RH

Description

INFOID:000000004496005

DTC B1113 - B1115 SATELLITE SENSOR RH

The satellite sensor RH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor the satellite sensor RH for internal failures and it's circuits for communication errors.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:000000004496006

DTC DETECTION LOGIC

With CONSULT-III

| CONSULT-III name | DTC | DTC detecting condition | | Repair order |
|----------------------------------|-------|--|---|--|
| SATELLITE SENS RH | | | Visually check the wiring harness connection. | |
| [UNIT FAIL] | B1114 | functioned. | 2. 3. | Replace the harness if it has visible damage. Replace the RH side air bag satellite sensor. |
| SATELLITE SENS RH [COMM FAIL] | B1115 | RH side air bag satellite sensor communi- cation error. | 4. 5. | Replace the air bag diagnosis sensor unit. Replace the related harness. |

Without CONSULT-III

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

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-47. "Diagnosis Procedure (Component Diagnosis)"</u>.

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE:

SRS will not enter diagnosis mode if no malfunction is detected in user mode.

1.IGNITION SWITCH

Turn ignition switch ON.

SRC-46

B1113 – B1115 SATELLITE SENSOR RH

| B1113 – B1115 SATELLITE SENSOR RH | |
|--|-----|
| < COMPONENT DIAGNOSIS > | |
| 2.IGNITION SWITCH | А |
| After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second. | |
| >> GO TO 3 | В |
| 3.WAIT TIME | |
| Wait more than 3 seconds. | С |
| | 0 |
| >> GO TO 4 4.REPEAT STEPS | D |
| Repeat steps 1 to 3 twice. | D |
| | F |
| >> GO TO 5 | E |
| 5.IGNITION SWITCH | |
| Turn ignition switch ON. | F |
| >> GO TO 6 | |
| 6.DIAGNOSTIC MODE | G |
| SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-70, "Trouble Diag- | |
| nosis without CONSULT-III". | SRC |
| >> END | |
| Diagnosis Procedure (Component Diagnosis) | |
| Recheck SRS after each replacement. | |
| 1. HARNESS CONNECTOR | J |
| Is there any visible damage to the connector? | |
| YES or NO | Κ |
| YES >> Replace the harness. NO >> GO TO 2 | |
| 2.WIRING HARNESS | L |
| Is there any visible damage to the harness? | |
| YES or NO YES >> Replace the harness. | M |
| NO >> GO TO 3 | |
| 3.RH SIDE AIR BAG SATELLITE SENSOR | Ν |
| Replace the RH side air bag satellite sensor. Refer to <u>SRS-15, "Removal and Installation"</u> . | |
| >> GO TO 4 | 0 |
| 4. AIR BAG DIAGNOSIS SENSOR UNIT | |
| Replace the air bag diagnosis sensor unit. Refer to <u>SRS-16, "Removal and Installation"</u> . | Р |
| | |
| >> GO TO 5 | |

5.RELATED HARNESS

Replace the related harness.

B1113 - B1115 SATELLITE SENSOR RH

< COMPONENT DIAGNOSIS >

>> END

B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

< COMPONENT DIAGNOSIS >

B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

Description

DTC B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

The air bag diagnosis sensor unit will run self diagnostics when the ignition switch is turned ON. It has the potential to set many diagnostic trouble codes which will conform to the B1XXX format, but will not match any other SRS diagnostic trouble codes. Refer to SRC-67, "Trouble Diagnosis with CONSULT-III".

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

| | | | | | F | |
|------------------|-------|---|----------------------|--|---|--|
| CONSULT-III name | DTC | DTC detecting condition | Repair order | | I | |
| CONTROL UNIT | B1XXX | Air bag diagnosis sensor unit is malfunc- tioning. | 1. 2. 3. 4. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the air bag diagnosis sensor unit. Replace the related harness. | G | |

Without CONSULT-III

| <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 | 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. | J |
| ON OFF 7 sec. 3 sec. 3 sec. 3 sec. 3 sec. 2 sec. 2 sec. | | K |
| | WHIA0198E | <u>:</u> |

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III. Is the DTC detected?

YES >> Refer to SRC-50, "Diagnosis Procedure (Component Diagnosis)". NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE:

SRS will not enter diagnosis mode if no malfunction is detected in user mode.

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

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B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

< COMPONENT DIAGNOSIS >

2. IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-70, "Trouble Diagnosis without CONSULT-III"</u>.

>> END

Diagnosis Procedure (Component Diagnosis)

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

YES >> Replace the harness. NO >> GO TO 2

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

YES >> Replace the harness.

NO >> GO TO 3

 $\mathbf{3}$. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to <u>SRS-16, "Removal and Installation"</u>.

>> GO TO 4

4.RELATED HARNESS

Replace the related harness.

>> END

INFOID:000000004496010

B1023 PASSENGER AIR BAG OFF INDICATOR

< COMPONENT DIAGNOSIS >

B1023 PASSENGER AIR BAG OFF INDICATOR А Description INFOID:000000004496011 DTC B1023 FRONT PASSENGER AIR BAG OFF INDICATOR В The front passenger air bag off indicator is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit monitors the front passenger air bag off indicator and circuit for failures. PART LOCATION Refer to SRC-7, "SRS Component Parts Location". D DTC Logic INFOID:000000004496012 DTC DETECTION LOGIC Ε With CONSULT-III CONSULT-III name DTC DTC detecting condition Repair order F Front passenger air bag off indicator is 1. Visually check the wiring harness connection. malfunctioning. 2. Replace the harness if it has visible damage. 3. Replace the front passenger air bag off indi-PASS A/B INDCTR CKT B1023 cator. 4. Replace the air bag diagnosis sensor unit. Replace the related harness. 5 SRC Without CONSULT-III <Front passenger air bag off indicator> Flash pattern Repair order a through d are repeated. 1. Visually check the wiring harness connection. d: Eleven flashes indicate malfunctioning front 2. Replace the harness if it has visible damage. passenger air bag off indicator. 3. Replace front passenger air bag off indicator. 4. Replace the air bag diagnosis sensor unit. 11 flashes 5. Replace the related harness. а b с d b а ON 7 sec 3 sec Κ OFF 2 sec 2 sec 2 sec 0.5 sec WHIA0212E DTC CONFIRMATION PROCEDURE (With CONSULT-III) **1.INSPECTION START** M Turn ignition switch ON. >> GO TO 2. Ν 2.CHECK SELF-DIAG RESULT Check for the DTC on CONSULT-III. Ο Is the DTC detected? YES >> Refer to SRC-52, "Diagnosis Procedure (Component Diagnosis)". >> Inspection End. NO Ρ DTC CONFIRMATION PROCEDURE (Without CONSULT-III) NOTE: SRS will not enter diagnosis mode if no malfunction is detected in user mode.

1.IGNITION SWITCH

Turn ignition switch ON.

SRC-51

B1023 PASSENGER AIR BAG OFF INDICATOR

< COMPONENT DIAGNOSIS >

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-70, "Trouble Diag-nosis without CONSULT-III"</u>.

>> END

Diagnosis Procedure (Component Diagnosis)

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

<u>YES or NO</u>

YES >> Replace the harness. NO >> GO TO 2

2.WIRING HARNESS

Is there any visible damage to the harness?

<u>YES or NO</u>

YES >> Replace the harness. NO >> GO TO 3

3.FRONT PASSENGER AIR BAG OFF INDICATOR

Replace the front passenger air bag off indicator. IP-12, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SRS-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

INFOID:000000004496013

B1023 PASSENGER AIR BAG OFF INDICATOR

>> END

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B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM

< COMPONENT DIAGNOSIS >

B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM

Description

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INFOID:000000004496015

DTC B1017 - B1022 OCCUPANT CLASSIFICATION SYSTEM (OCS)

The occupant classification system control unit is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor the occupant classification system for control unit and sensor mat failures and interuptions in communication between the OCS control unit and the air bag diagnosis sensor unit.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

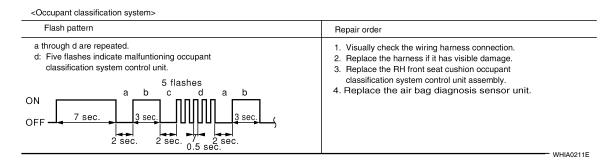
DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

| CONSULT-III name | DTC | DTC detecting condition | | Repair order |
|----------------------------------|-------|--|----------------------|---|
| | B1017 | The OCS control unit is malfunctioning. | 1. | Replace the RH front seat cushion assembly. |
| OCCUPANT SENS C/U [UNIT FAIL] | B1020 | | | Do not disassemble the seat cushion assembly. |
| [••••••] | B1021 | | | 2.5. |
| OCCUPANT SENS [UNIT FAIL] | B1018 | The OCS sensor mat is malfunctioning. | | |
| OCCUPANT SENS [OTHER FAIL] | B1019 | The OCS is malfunctioning. | | |
| OCCUPANT SENS C/U [COMM FAIL] | B1022 | Communication between the OCS control unit and the air bag diagnosis sensor unit is interrupted. | 1. 2. 3. 4. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assem- bly. Replace the air bag diagnosis sensor unit. |

Without CONSULT-III



DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-55</u>, "Diagnosis Procedure (Component Diagnosis)".

SRC-54

B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM

| B1017 - B1022 OCCUPANT CLASSIFICATION SYSTEM | |
|--|----|
| < COMPONENT DIAGNOSIS > | |
| NO >> Inspection End. | ٨ |
| DTC CONFIRMATION PROCEDURE (Without CONSULT-III) | A |
| NOTE: SRS will not enter diagnosis mode if no malfunction is detected in user mode. | |
| 1. IGNITION SWITCH | В |
| Turn ignition switch ON. | |
| run ignition switch on. | С |
| >> GO TO 2 | 0 |
| 2.IGNITION SWITCH | |
| After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second. | D |
| | |
| >> GO TO 3 | Е |
| 3.WAIT TIME | |
| Wait more than 3 seconds. | F |
| | Г |
| >> GO TO 4 | |
| 4.REPEAT STEPS | G |
| Repeat steps 1 to 3 twice. | |
| >> GO TO 5 | SR |
| 5.IGNITION SWITCH | |
| | |
| Turn ignition switch ON. | I |
| >> GO TO 6 | |
| 6. DIAGNOSTIC MODE | J |
| SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-70, "Trouble Diag- | |
| nosis without CONSULT-III". | K |
| | |
| >> END | 1 |
| Diagnosis Procedure (Component Diagnosis) | L |
| Recheck SRS after each replacement. | |
| 1.отс | M |
| Does CONSULT-III indicate B1022? | |
| YES or NO | Ν |
| YES >> GO TO 2 | |
| NO >> GO TO 4 | - |
| 2.HARNESS CONNECTOR | 0 |
| Is there any visible damage to the connector? | |
| YES or NO YES >> Replace the harness. | Ρ |
| NO >> GO TO 3 | |
| 3. WIRING HARNESS | |
| Is there any visible damage to the harness? | |
| YES or NO | |
| | |

YES >> Replace the harness.

B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM

< COMPONENT DIAGNOSIS >

NO >> GO TO 4

4.RH FRONT SEAT CUSHION ASSEMBLY

Replace the RH front seat cushion assembly. Refer to SE-21, "Removal and Installation".

>> GO TO 5

5. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to <u>SRS-16, "Removal and Installation"</u>.

>> END.

< COMPONENT DIAGNOSIS >

B1209 – B1210 COLLISION DETECTION

Description

DTC B1209 - B1210 COLLISION DETECTION

The air bag diagnosis sensor unit will set this DTC if it has detected a collision which has resulted in a frontal or side deployment of one or more air bags or pre-tensioners. If this DTC is detected after a SRS repair, the air bag diagnosis sensor unit has not yet been replaced. This DTC can not be erased. If the air bag diagnosis sensor unit detects a frontal collision, it will send an air bag deployment signal to the hybrid vehicle control ECU. The hybrid vehicle control ECU will then shut down the entire high voltage power supply.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

| _ | | | | | |
|---|-------------------------------------|-------|--|---|----|
| | CONSULT-III name | DTC | DTC detecting condition | Repair order | G |
| _ | FRONTAL COLLISION DETECTION | B1209 | Driver and/or front passenger air bag mod- ules are deployed. | Refer to <u>SRS-19</u> , "For Frontal Collision". | Ģ |
| _ | SIDE COLLISION DE- TECTION B1210 | | Side and/or curtain air bag modules are deployed. | Refer to <u>SRS-20. "For Side and Rollover Collision"</u> . | SF |

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-57</u>, "Diagnosis Procedure (Component Diagnosis)". NO >> Inspection End.

NO >> Inspection End.

Diagnosis Procedure (Component Diagnosis)

Refer to SRS-19, "For Frontal Collision" or SRS-20, "For Side and Rollover Collision".

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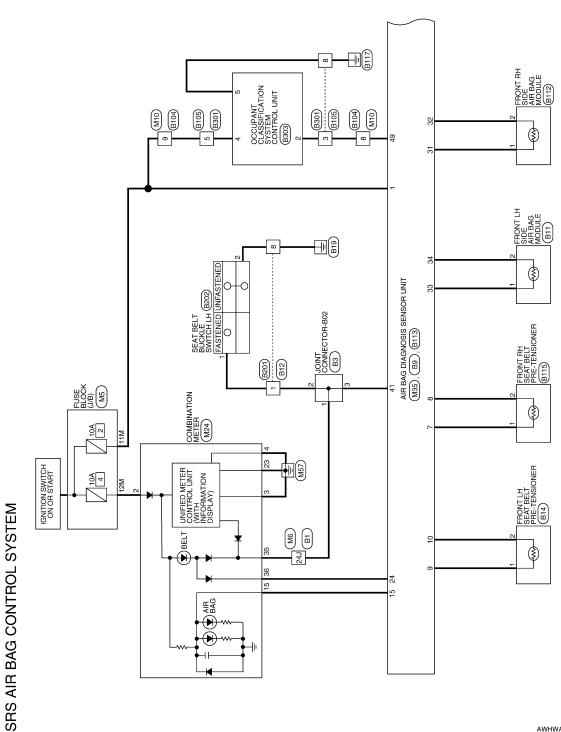
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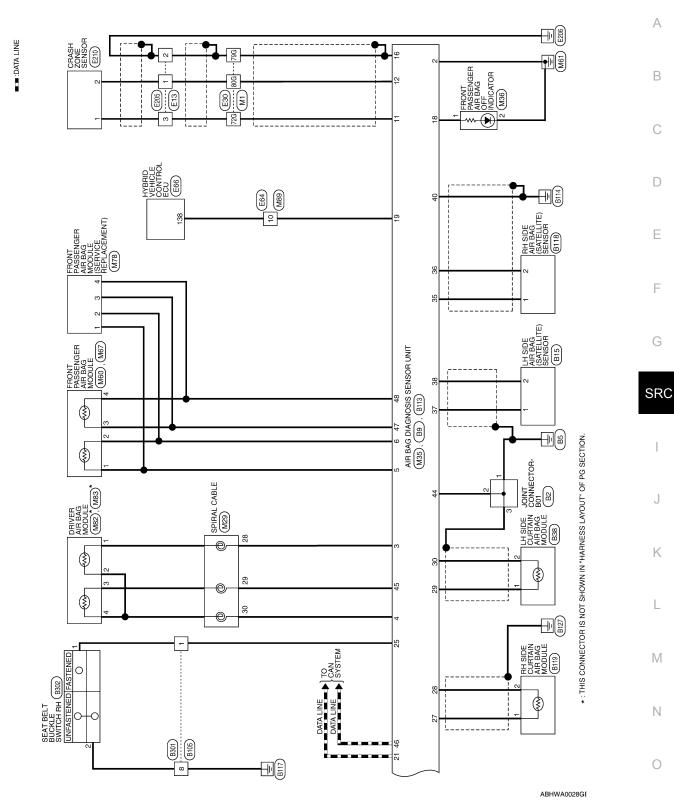
Wiring Diagram

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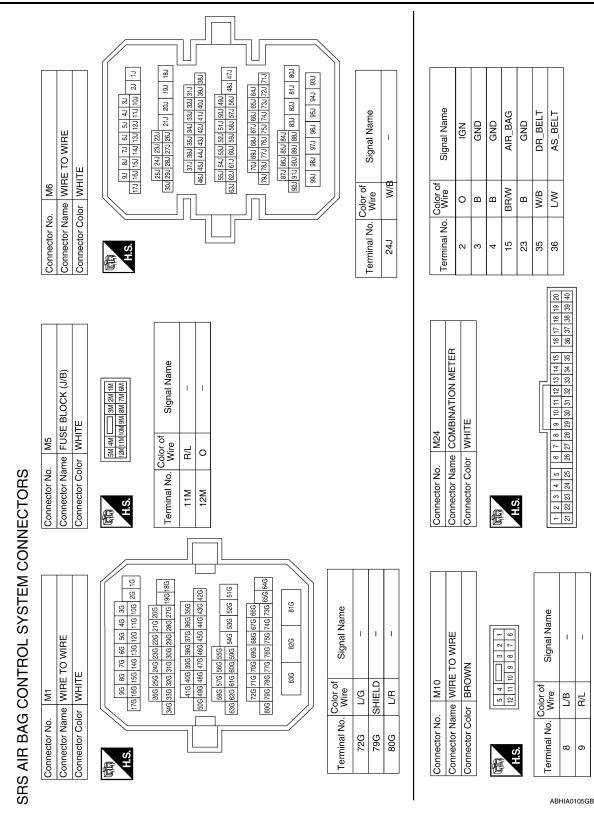
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| Connector No. | o. M35 | 35 | Terminal No | Color of | Signal Name |
|------------------------|-------------------------|----------------------------------|-------------|----------|--------------------|
| Connector Na | ame All | Connector Name AIR RAG DIAGNOSIS | | wire | Ciginal Marine |
| | S | SENSOR UNIT | 9 | У/G | AS1(-) |
| Connector Color YELLOW | olor YE | ELLOW | 11 | L/G | ECZS (+) |
| | | | 12 | L/R | ECZS (-) |
| Æ | 51 | 24 49 1 | 15 | BR/W | AIRBAG W/L |
| H.S. | 11 46 48 16 10 10 15 | 11 46 48 47 45 3 4 6 5 | 16 | SHIELD | I |
| | 61 71 01 | | 18 | > | CUTOFF TELLTALE |
| Taminal | Color of | | 19 | G/O | IVCS |
| I EITIITIAI NO. | Wire | ыдпа | 21 | _ | CAN-H |
| - | R/L | IGN | 24 | ۲N | SEAT BELT REMINDER |
| 2 | ш | GND | 45 | ٨٧ | DR2(+) |
| e | Y/R | DR1(+) | 46 | ٩ | CAN-L |
| 4 | ≻ | DR1(-),DR2(-) | 47 | ≻ | AS2(+) |
| 5 | Y/BR | AS1(+) | 48 | Y/B | AS2(-) |
| | | | 49 | L/B | ODS INPUT |

| | | | | | _ | _ | _ | _ |
|---------|-----------------|-------------|------------------|-----|-----|--------|---------------|--------|
| 24 49 1 | 3 47 45 3 4 6 5 | | Signal Name | IGN | GND | DR1(+) | DR1(-),DR2(-) | AS1(+) |
| 21 | 11 46 48 47 45 | 16 12 19 15 | Color of Wire | R/L | в | Y/R | ۲ | Y/BR |
| E | Ĩ | ю.п | Terminal No. | - | 2 | £ | 4 | 5 |

| Connector No. | M29 |
|-----------------------------|----------------------|
| Connector Name SPIRAL CABLE | SPIRAL CABLE |
| Connector Color YELLOW | YELLOW |
| 际 H | 28 29 30 |
| Terminal No. Color o | Color of Signal Name |

| Signal Name | INFLATOR_DR1+ | INFLATOR_DR1+ | INFLATOR_DR1&DR2- | |
|----------------------------|---------------|---------------|-------------------|--|
| Color of Wire | Y/R | ٨٨ | Y | |
| Terminal No. Color of Wire | 28 | 29 | 30 | |

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| M36 | | Connector No. | . M60 | | Connector No. | M67 |
|-----------------------|---|------------------------|------------------|--|------------------------|--|
| RON | Connector Name FRONT PASSENGER AIR BAG OFF INDICATOR | Connector Na | me FROI BAG | Connector Name FRONT PASSENGER AIR BAG MODULE | Connector Nam | Connector Name FRONT PASSENGER AIR BAG MODULE |
| Connector Color WHITE | | Connector Color YELLOW | lor YELL | MO | Connector Color ORANGE | ORANGE |
| | | 国 H.S. | | | 国 H.S. | |
| Color of Wire | Signal Name | Terminal No. Wire | Color of Wire | Signal Name | Terminal No. Wire | olor of Signal Name |
| | SIGNAL INPUT | - | Y/BR | AS1 (+) | e | Y AS2 (+) |
| 8 | GND | 2 | γ/G | AS1 (-) | 4 | Y/B AS2 (-) |

DIAGNOSIS SENSOR UNIT

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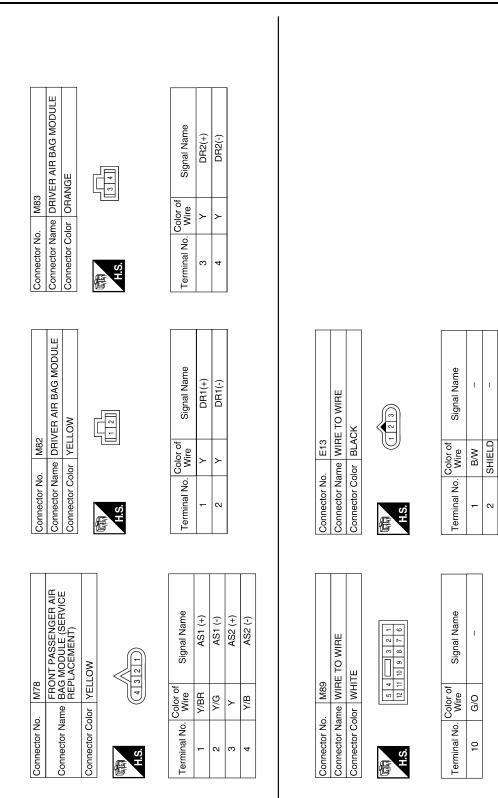
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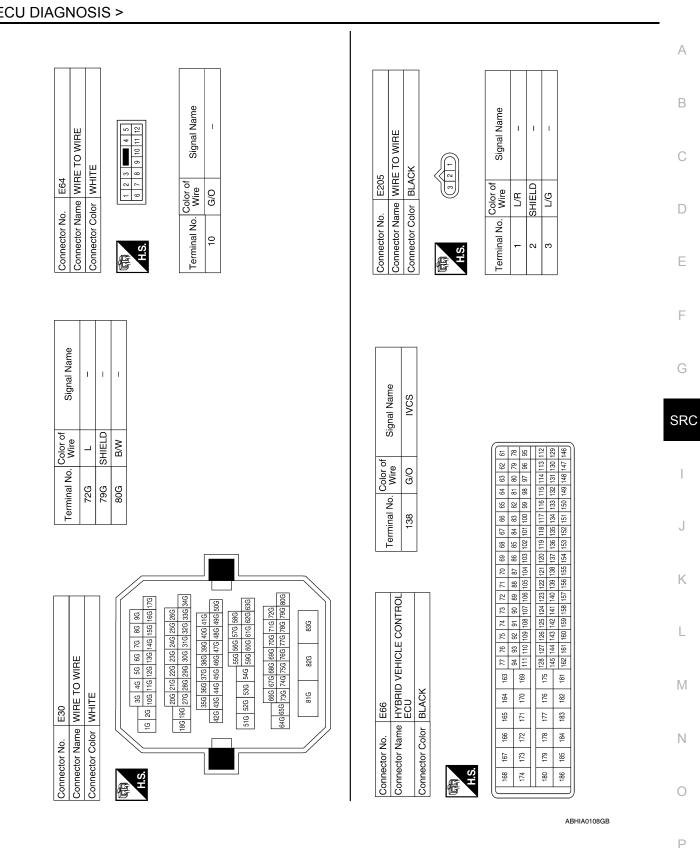


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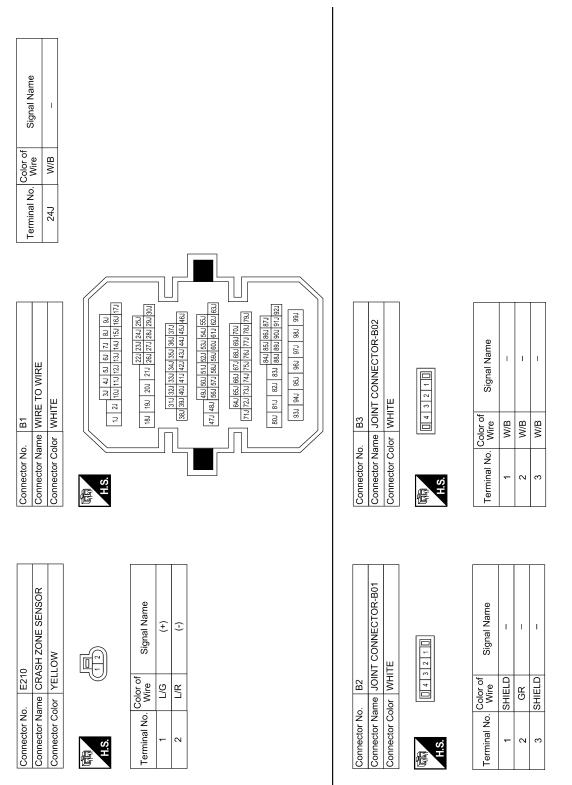
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|---------------|---------------------------------|-----------------------|------------------------|--|-------------|----------|
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| | O WIRE | | 2 4 | r of Signal Name R | (+) | С |
| B12 | ne WIRE 1 | or WHITE | 3 2 8 7 6 5 | | RR ≺ | D |
| Connector No. | Connector Name WIRE TO WIRE | Connector Color WHITE | 所可 H.S. | Terminal No. Vii No. Vii B B B B B B Connector No. Connector Name Connector Name Connector Name | ← 0\ | E |
| 0 | | | | | | F |
| | FRONT LH SIDE AIR BAG | Ξ. N | | rof R G (+) R (-) R (-) R (-) R (-) R (-) R (-) SI B15 LH SIDE AIR BAG SATELLITE) SENSOR YELLOW Signal Name | (+) (-) | G SR(|
| . B11 | | | | Color of Vire Vire Vire Vire Vire Vire Vire Vire | ₩ > | I |
| Connector No. | Connector Name | Connector Color | S.H | Terminal No. Color of Sire 1 Y/G 2 Y/R 2 Y/R 2 Y/R <td>~ N</td> <td>J</td> | ~ N | J |
| Γ | | | | | | Κ |
| | G DIAGNOSIS | M | 30 34 | ro of Signal Name G PLH1(+) R PLH1(+) R PLH1(+) R CLH1(+) R SIH(+) R SATELLITE LH(+) R SATELLITE LH(+) R SATELLITE LH(+) R GND B14 FRONT LH SEAT BELT FRONT LH SEAT BELT FRONT LH SEAT BELT YELLOW YELLOW YELLOW YELLOW YELLOW | (+) | L |
| B9 | | | 33 41 29 44 37 38 9 | | Y/G 7/H | Μ |
| Connector No. | Connector Name AIR BAG DIAGNOSI | Connector Color | तित H.S. | Terminal No. Col 9 Y 29 Y 29 Y 33 Y 33 Y 33 Y 33 Y 33 Y 33 Y 34 Y 38 Y 41 W 41 V Connector Name Connector Name Connector Color | - N | Ν |
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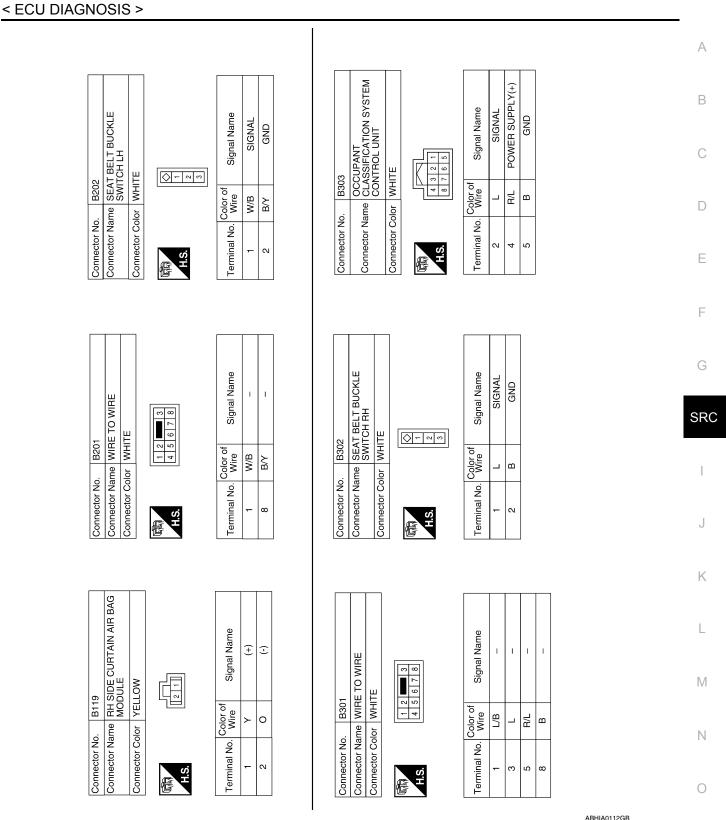
DIAGNOSIS SENSOR UNIT

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DIAGNOSIS SENSOR UNIT

| Connector No. B112 Connector Name FRONT RH SIDE AIR BAG MODULE MODULE Connector Color YELLOW Image: The second seco | Terminal No. Color of Wire Signal Name 1 Y/R (+) 2 Y/B (-) | Connector No. B118 Connector Name RH SIDE AIR BAG Connector Name RH SIDE AIR BAG Connector Color YELLITE) SENSOR Connector Color YELLOW Terminal No. Color of Wire Signal Name 2 G SENS - |
|---|---|---|
| Connector No.B105Connector NameWIRE TO WIREConnector ColorWHITEMise3Sin3Sin5Sin5 | Terminal No.Color of WireSignal Name1L/B-3L-5R/L-8B/Y- | Connector No. B115 Connector Name FRONT RH SEAT BELT Connector Name FRONT RH SEAT BELT Connector Color YELLOW Terminal No. Color of Nire Signal Name 1 Y/G (+) 2 Y/V (-) |
| B104 WIRE TO WIRE BROWN 6 7 8 9 10 111 12 | Signal Name | B113 AIR BAG DIAGNOSIS SENSOR UNIT YELLOW YELLOW a a a a b b c c c c c c c c c c c c c |
| Connector No. B104 Connector Name WIRE TO WIRE Connector Color BROWN | Terminal No. Color of 8 L 9 R/L | Connector No. B113 Connector Name AIR BAG DIAGNOSIS Connector Name SENSOR UNIT SENSOR UNIT SENSOR UNIT Connector Color YELLOW Terminal No. Color of Signal Name 7 Y/G 8 Y/V 7 Y/G 8 Y/V 7 Y/G 8 Y/V 25 L/B 28 O 28 O 31 Y/R 32 Y/B 35 R 36 G 37 Y/B |

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Trouble Diagnosis with CONSULT-III

DIAGNOSTIC CODE CHART

NOTE:

Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using air bag warning lamp or CONSULT-III 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.

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DIAGNOSIS SENSOR UNIT

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| CONSULT-III name | DTC | DTC detecting condition | | Repair order |
|-------------------------------------|-------|--|----------------------------|---|
| DRIVER AIRBAG MODULE [OPEN] | B1049 | Driver air bag module circuit (DR1) is open (including the spiral cable). | 1. 2. 3. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the driver air bag module. |
| | B1054 | Driver air bag module circuit (DR2) is open (including the spiral cable). | 4. 5. 6. | Replace the spiral cable. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| DRIVER AIRBAG MODULE [VB-SHORT] | B1050 | Driver air bag module circuit (DR1) is shorted to a power supply circuit (including the spiral cable). | | |
| | B1055 | Driver air bag module circuit (DR2) is shorted to a power supply circuit (including the spiral cable). | | |
| DRIVER AIRBAG MODULE [GND-SHORT] | B1051 | Driver air bag module circuit (DR1) is shorted to ground (including the spiral cable). | | |
| | B1056 | Driver air bag module circuit (DR2) is shorted to ground (including the spiral cable). | | |
| DRIVER AIRBAG MODULE [SHORT] | B1052 | Driver air bag module circuits (DR1) are shorted to each other (including the spiral cable). | | |
| | B1057 | Driver air bag module circuits (DR2) are shorted to each other (including the spiral cable). | | |
| ASSIST A/B MODULE [OPEN] | B1065 | Front passenger air bag module circuit (AS1) is open. | 1. 2. 3. 4. 5. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the front passenger air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| | B1070 | Front passenger air bag module circuit (AS2) is open. | | |
| ASSIST A/B MODULE [VB-SHORT] | B1066 | Front passenger air bag module circuit (AS1) is shorted to a power supply circuit. | | |
| | B1071 | Front passenger air bag module circuit (AS2) is shorted to a power supply circuit. | | |
| ASSIST A/B MODULE [GND-SHORT] | B1067 | Front passenger air bag module circuit (AS1) is shorted to ground. | | |
| | B1072 | Front passenger air bag module circuit (AS2) is shorted to ground. | 1. 2. | Visually check the wiring harness connection. Replace the harness if it has visible damage. |
| ASSIST A/B MODULE [SHORT] | B1068 | Front passenger air bag module circuits (AS1) are shorted to each other. | | |
| | B1073 | Front passenger air bag module circuits (AS2) are shorted to each other. | | |
| SIDE MODULE LH [OPEN] | B1134 | Front LH side air bag module circuit is open. | | |
| SIDE MODULE LH [VB-SHORT] | B1135 | Front LH side air bag module circuit is shorted to a power supply circuit. | 3. 4. 5. | Replace the front LH seat back assembly. Replace the air bag diagnosis sensor unit. 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. | | |

< ECU DIAGNOSIS >

| CONSULT-III name | DTC | DTC detecting condition | Repair order |
|----------------------------------|----------------|--|---|
| 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 damage. |
| SIDE MODULE RH [VB-SHORT] | B1130 | Front RH side air bag module circuit is shorted to a power supply circuit. | Replace the front RH seat back assembly. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| SIDE MODULE RH [GND-SHORT] | B1131 | Front RH side air bag module circuit is shorted to ground. | |
| SIDE MODULE RH [SHORT] | B1132 | Front RH side air bag module circuits are shorted to each other. | |
| CURTAIN MODULE LH [OPEN] | B1150 | LH side curtain air bag module circuit is open. | Visually check the wiring harness connection. Replace the harness if it has visible damage. |
| CURTAIN MODULE LH [VB-SHORT] | B1151 | LH side curtain air bag module circuit is shorted to a power supply circuit. | Replace the LH side curtain air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| CURTAIN MODULE LH [GND-SHORT] | B1152 | LH side curtain air bag module circuit is shorted to ground. | |
| CURTAIN MODULE LH [SHORT] | B1153 | LH side curtain air bag module circuits are shorted to each other. | |
| CURTAIN MODULE RH [OPEN] | B1145 | RH side curtain air bag module circuit is open. | Visually check the wiring harness connection. Replace the harness if it has visible damage. |
| CURTAIN MODULE RH [VB-SHORT] | B1146 | RH side curtain air bag module circuit is shorted to a power supply circuit. | Replace the RH side curtain air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| CURTAIN MODULE RH [GND-SHORT] | B1147 | RH side curtain air bag module circuit is shorted to ground. | |
| CURTAIN MODULE RH [SHORT] | B1148 | RH side curtain air bag module circuits are shorted to each other. | |
| PRE-TEN FRONT LH [OPEN] | B1086 | LH seat belt pre-tensioner circuit is open. | Visually check the wiring harness connection. Replace the harness if it has visible damage. |
| PRE-TEN FRONT LH [VB-SHORT] | B1087 | LH seat belt pre-tensioner circuit is shorted to a power supply circuit. | Replace the front LH seat belt pre-tensioner. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| PRE-TEN FRONT LH [GND-SHORT] | B1088 | LH seat belt pre-tensioner circuit is shorted to ground. | |
| PRE-TEN FRONT LH [SHORT] | B1089 | LH seat belt pre-tensioner circuits are shorted to each other. | |
| PRE-TEN FRONT RH [OPEN] | B1081 | RH seat belt pre-tensioner circuit is open. | Visually check the wiring harness connection. Replace the harness if it has visible damage. |
| PRE-TEN FRONT RH [VB-SHORT] | B1082 | RH seat belt pre-tensioner circuit is shorted to a power supply circuit. | Replace the front RH seat belt pre-tensioner. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| PRE-TEN FRONT RH [GND-SHORT] | B1083 | RH seat belt pre-tensioner circuit is shorted to ground. | |
| PRE-TEN FRONT RH [SHORT] | B1084 | RH seat belt pre-tensioner circuits are shorted to each other. | |
| CRASH ZONE SEN | B1033 | Crash zone sensor has malfunctioned. | 1. Visually check the wiring harness connection. |
| [UNIT FAIL] | B1034 | | Replace the harness if it has visible damage. Replace the crash zone sensor. |
| CRASH ZONE SEN [COMM FAIL] | B1035 | Crash zone sensor communication error. | Replace the air bag diagnosis sensor unit. Replace the related harness. |
| SATELLITE SENS LH [UNIT FAIL] | B1118 B1119 | LH side air bag satellite sensor has mal- functioned. | Visually check the wiring harness connection. Replace the harness if it has visible damage. |
| SATELLITE SENS LH [COMM FAIL] | B1120 | LH side air bag satellite sensor commu- nication error. | Replace the LH side air bag satellite sensor. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| | B1113 | RH side air bag satellite sensor has mal- | Visually check the wiring harness connection. |
| SATELLITE SENS RH [UNIT FAIL] | B1113 B1114 | functioned. | Replace the harness if it has visible damage. Replace the RH side air bag satellite sensor. |
| SATELLITE SENS RH | B1115 | RH side air bag satellite sensor commu- nication error. | Replace the air bag diagnosis sensor unit. Replace the related harness. |



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| CONSULT-III name | DTC | DTC detecting condition | Repair order |
|----------------------------------|-------|--|---|
| CONTROL UNIT | B1XXX | Air bag diagnosis sensor unit is malfunc- tioning. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| PASS A/B INDCTR CKT | B1023 | Front passenger air bag OFF indicator is malfunctioning. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the front passenger air bag OFF indicator. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| OCCUPANT SENS C/U [UNIT FAIL] | B1017 | The OCS control unit is malfunctioning. | 1. Replace the RH front seat cushion assembly. |
| | B1020 | | Do not disassemble the seat cushion assem- bly. |
| | B1021 | | |
| OCCUPANT SENS [UNIT FAIL] | B1018 | The OCS sensor mat is malfunctioning. | |
| OCCUPANT SENS [OTHER FAIL] | B1019 | The OCS is malfunctioning. | |
| OCCUPANT SENS C/U [COMM FAIL] | B1022 | Communication between the OCS con- trol unit and the air bag diagnosis sensor unit is interrupted. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly. Replace the air bag diagnosis sensor unit. |
| FRONTAL COLLISION DE- TECTION | B1209 | Driver and/or front passenger air bag modules are deployed. | Refer to <u>SRS-19</u> , "For Frontal Collision". |
| SIDE COLLISION DETEC- TION | B1210 | Side and/or curtain air bag modules are deployed. | Refer to <u>SRS-20, "For Side and Rollover Collision"</u> . |

Trouble Diagnosis without CONSULT-III

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WARNING LAMP FLASH CODE CHART

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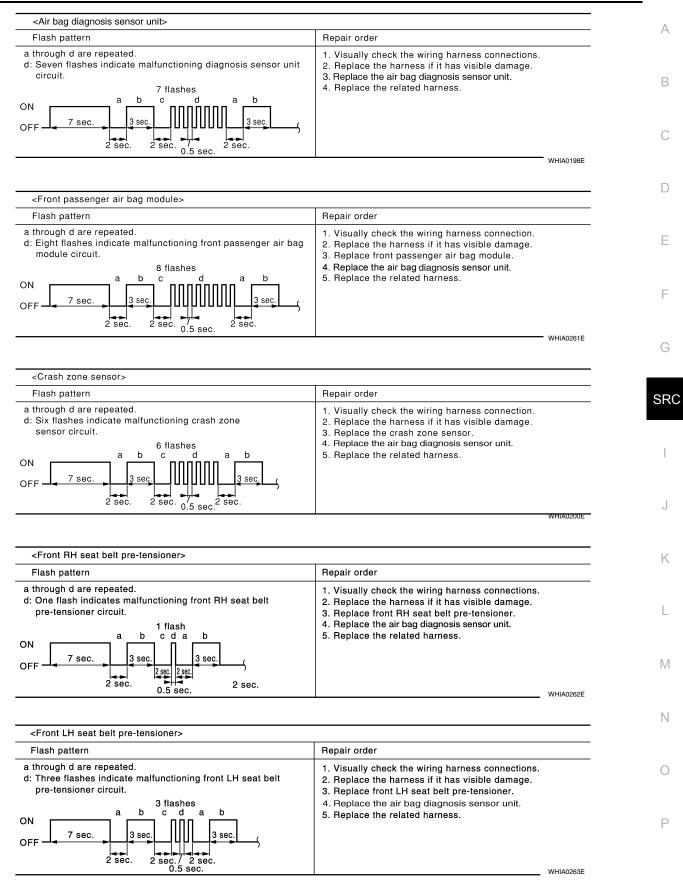
Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using air bag warning lamp each time repair is finished. If malfunction is still observed, proceed to the next step. When malfunction is eliminated, further repair work is not required.

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

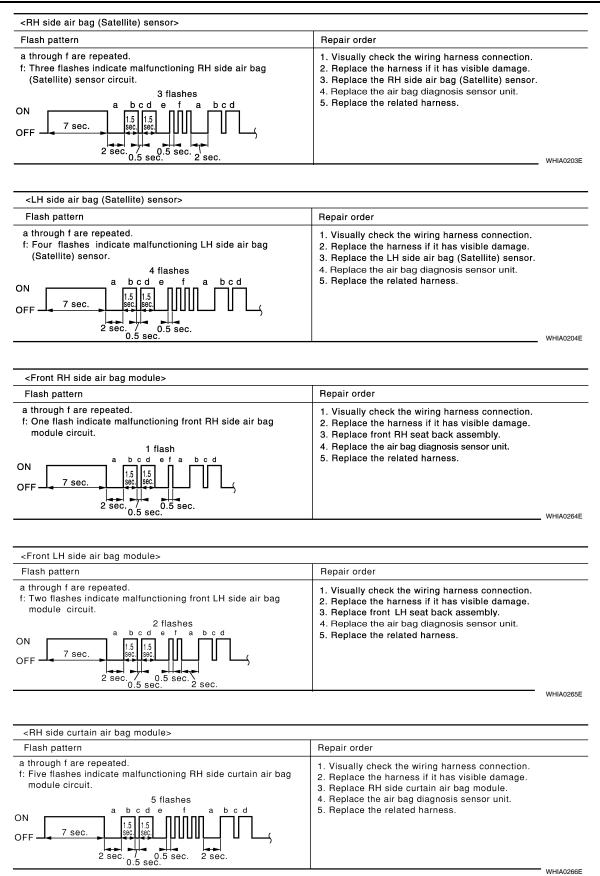
| Flash pattern | Repair order |
|--|---|
| a through b are repeated. | 1. Go to DIAGNOSTIC PROCEDURES 2 and 3. |
| IGN ON ON OFF 7 sec. 2 sec. 2 sec. 2 sec. 2 sec. | SHIA0026E |

| <driver air="" bag="" module=""></driver> | |
|--|---|
| Flash pattern | Repair order |
| a through d are repeated. d: Two flashes indicate malfunctioning driver air bag module circuits. ON OFF 7 sec. 2 | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the spiral cable. Replace driver air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| | WHIA0260E |

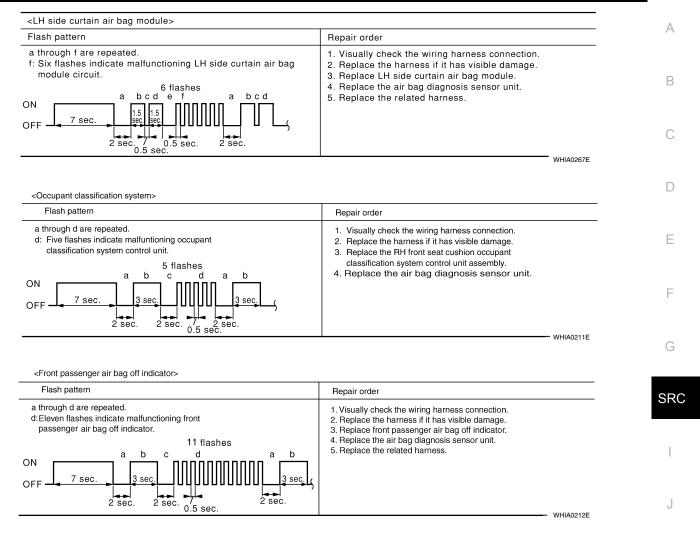
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SYMPTOM DIAGNOSIS

SRS AIR BAG SYSTEM

"AIR BAG" Warning Lamp Does Not Turn Off

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DIAGNOSTIC PROCEDURE 7

1.CHECK CONDITION OF AIR BAG MODULE

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-19</u>, "For Frontal Collision" or <u>SRS-20</u>, "For Side and Rollover Collision".

NO >> GO TO 2

2. CHECK THE AIR BAG FUSE

Check 10A fuse [No. 2, located in the fuse block (J/B)].

Is the fuse blown?

YES >> GO TO 3

NO >> GO TO 4

3.CHECK AIR BAG FUSE AGAIN

Replace 10A fuse [No. 2, located in the fuse block (J/B)] and turn ignition switch ON.

Does the fuse blow again?

YES >> Replace harness.

NO >> Inspection End.

4.CHECK AIR BAG DIAGNOSIS SENSOR UNIT

Connect CONSULT-III.

Is "AIR BAG" displayed on CONSULT-III?

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 <u>SRS-16</u>, "Removal and Installation".

5.CHECK HARNESS CONNECTION

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

Are there any loose connections?

YES >> 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.

NO >> Replace air bag diagnosis sensor unit.

"AIR BAG" Warning Lamp Does Not Turn On

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DIAGNOSTIC PROCEDURE 8

1.CHECK METER FUSE

Check the 10A fuse [No. 4, located in the fuse block (J/B)] .

Is the fuse blown?

YES >> GO TO 2 NO >> GO TO 3

2.REPLACE METER FUSE AND CHECK AGAIN

Replace 10A fuse [No. 4, located in the fuse block (J/B)] and turn ignition switch ON.

Does the fuse blow again?

YES >> Replace harness.

NO >> Inspection End.

 ${f 3.}$ CHECK HARNESS CONNECTIONS BETWEEN AIR BAG DIAGNOSIS SENSOR UNIT AND COMBINA-

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SRS AIR BAG SYSTEM

< SYMPTOM DIAGNOSIS >

TION METER

| Inspect the harness and connectors between the air bag diagnosis sensor unit and the combination meter. | |
|--|---|
| Do the harness or connectors have any visible damage? | |
| YES >> Replace harness. NO >> GO TO 4 | В |
| 4.CHECK COMBINATION METER | |
| Disconnect the air bag diagnosis sensor unit harness connectors and turn ignition switch ON. | С |
| Does "AIR BAG" warning lamp turn on? | |
| YES >> Replace the air bag diagnosis sensor unit. Refer to <u>SRS-16, "Removal and Installation"</u>. NO >> Replace the combination meter. Refer to <u>MWI-135, "Removal and Installation"</u>. | D |
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PASSENGER SEAT BELT WARNING SYSTEM

Seat Belt Warning System Does Not Function

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1.SEAT BELT WARNING LIGHT

Turn ignition switch ON.

Does the seat belt warning lamp come ON?

YES >> GO TO 2 NO >> • Check 10

- >> Check 10A fuse [No. 4, located in the fuse block (J/B)].
 - Check seat belt buckle switch LH.
 - · Check harness between combination meter and seat belt buckle switch LH.
 - Check combination meter. Refer to <u>MWI-71, "Fail Safe"</u>.

2.SEAT BELT BUCKLE LH

Fasten the seat belt buckle LH.

Does the seat belt warning lamp go OFF?

YES >> GO TO 3

- NO >> Check seat belt buckle switch LH.
 - · Check harness between combination meter and seat belt buckle switch LH.

3.OCCUPANT CLASSIFICATION SYSTEM

Have a helper sit in the passenger seat.

Does the seat belt warning lamp go ON?

- YES >> GO TO 4 NO >> • Check
 - >> Check occupant classification system. Refer to <u>SRC-10, "Occupant Classification System</u> (OCS)".
 - Check harness between occupant classification control unit and air bag diagnosis sensor unit.

4.SEAT BELT BUCKLE RH

Fasten the seat belt buckle RH.

Does the seat belt warning lamp go OFF?

- YES >> System OK.
- NO >>• Check seat belt buckle switch RH.
 - Check harness between seat belt buckle switch RH and air bag diagnosis sensor unit.
 - Replace air bag diagnosis sensor unit. Refer to SRS-16, "Removal and Installation".

< PRECAUTION > PRECAUTION

PRECAUTIONS

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

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

WARNING:

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

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

- Do not use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.

For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pretensioner to deploy. Therefore, do not work on any SRS connectors or wires until at least 3 minutes have passed.

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

Occupant Classification System Precaution

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

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