SECTION SRC SRS AIRBAG CONTROL SYSTEM

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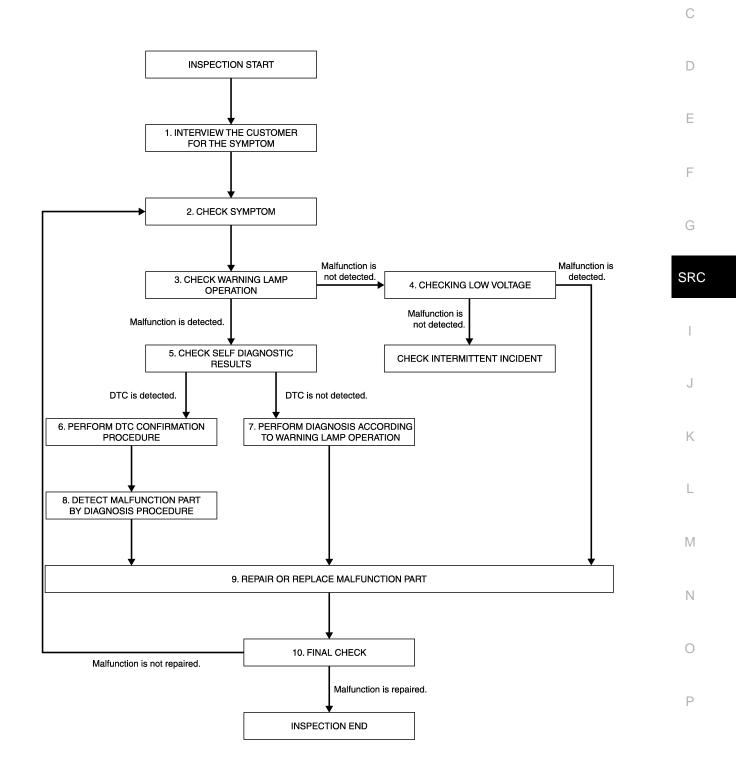
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< BASIC INSPECTION >

BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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DETAILED FLOW

Revision: 2009 August

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INFOID:000000005241044

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1.INTERVIEW THE CUSTOMER FOR THE SYMPTOM

Interview the customer for the symptom (the condition and the environment when the incident/malfunction occurs).

>> GO TO 2.

2.CHECK SYMPTOM

Check the symptom from the customer information.

>> GO TO 3.

3.CHECK WARNING LAMP OPERATION

Check air bag warning lamp operation in the user mode. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. <u>Are any malfunction detected?</u>

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK LOW VOLTAGE

Check low voltage. Refer to PG-3, "How to Handle Battery".

Are any malfunction detected?

YES >> GO TO 9.

NO >> Check intermittent incident. Refer to <u>GI-36, "Intermittent Incident"</u>.

5.CHECK SELF DIAGNOSTIC RESULTS

Check self diagnostic result with CONSULT-III or diagnosis mode.

If it is impossible to switch to diagnosis mode, follow the same procedure that DTC is not detected. **NOTE:**

Perform the following procedure if DTC is detected.

- Record DTC (Print them out with CONSULT-III.)
- Erase self diagnostic result.
- Study the relationship between the malfunction that DTC or air bag warning lamp indicates and the symptom that the customer describes.
- Check related service bulletins for information.

Is DTC detected?

YES >> GO TO 6.

NO >> GO TO 7.

6.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the DTC.

>> GO TO 8.

7. PERFORM DIAGNOSIS ACCORDING TO WARNING LAMP OPERATION

- 1. Check air bag warning lamp operation in the user mode. Refer to <u>SRC-16, "Air Bag Warning Lamp Diag-nosis"</u>.
- 2. Perform Diagnosis Procedure for the air bag warning lamp operation. Refer to <u>SRC-16, "Air Bag Warning</u> <u>Lamp Diagnosis"</u> (USER MODE).

>> GO TO 9.

8. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the DTC.

>> GO TO 9.

9.REPAIR OR REPLACE THE MALFUNCTION PART

DIAGNOSIS AND REPAIR WORK FLOW

| < BASIC INSPECTION > | |
|---|---|
| Repair or replace the malfunctioning part. | А |
| >> GO TO 10. | ~ |
| 10.FINAL CHECK | В |
| Check self diagnostic result and air bag warning lamp operation in the user mode. | |
| Is the malfunction repaired? YES >> INSPECTION END NO >> GO TO 2. | С |
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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000005241045

When replacing or removing and installing passenger seat, always perform zero point reset so that Occupant Detection System is activated normally.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Reguirement

WORK PROCEDURE WHEN REPLACING CONTROL UNIT

1.PERFORM ZERO POINT RESET

Perform zero point reset. Refer to SRC-8, "ZERO POINT RESET : Special Repair Requirement".

Is zero point reset performed normally?

- YES >> INSPECTION END NO >> Check condition a
 - >> Check condition as per the following, and perform zero point reset again.
 - Passenger seat is occupied by an object.
 - Excessive vibration is applied while performing zero point reset.
 - Occupant detection system is malfunctioning.
 - NOTE:

If "Incomplete" is displayed on "zero point reset current status", zero point reset is not completed normally. Check the condition as per the following and perform zero point reset again.

- Passenger seat is occupied by an object.
- Excessive vibration is applied while performing zero point reset.
- Occupant detection system is malfunctioning.

ZERO POINT RESET

ZERO POINT RESET : Description

INFOID:000000005241047

Zero point reset is an initializing procedure for occupant detection sensor that must be performed when replacing or removing and installing passenger seat.

If zero point reset is not performed, the initialization is incomplete and Occupant Detection System does not operate normally.

NOTE:

- When zero point reset is performed once after removal and installation of passenger seat, CONSULT-III displays "complete".
- When reinstalling passenger seat after removal, the initial value for occupant detection sensor changes, and Occupant Detection System does not operate normally.
- Always perform zero point reset after performing the work as per the following.
- Reinstallation of passenger seat
- Installation of passenger seat that is zero point reset complete
- Installation of passenger seat that is zero point reset in complete

ZERO POINT RESET : Special Repair Requirement

INFOID:000000005241048

1.PERFORM ZERO POINT RESET

1. Perform zero point reset.

NOTE:

When performing zero point reset, be careful of the items described as per the following.

- Perform zero point reset after installing passenger seat to the vehicle
- Do not put any objects on passenger seat
- Do not apply excessive vibration to the vehicle
- Do not touch the vehicle
- Do not tilt the vehicle
- Select start on "Zero point reset function" screen from, WORK SUPPORT of CONSULT-III "OCCUPANT DETECTION".

SRC-8

INSPECTION AND ADJUSTMENT

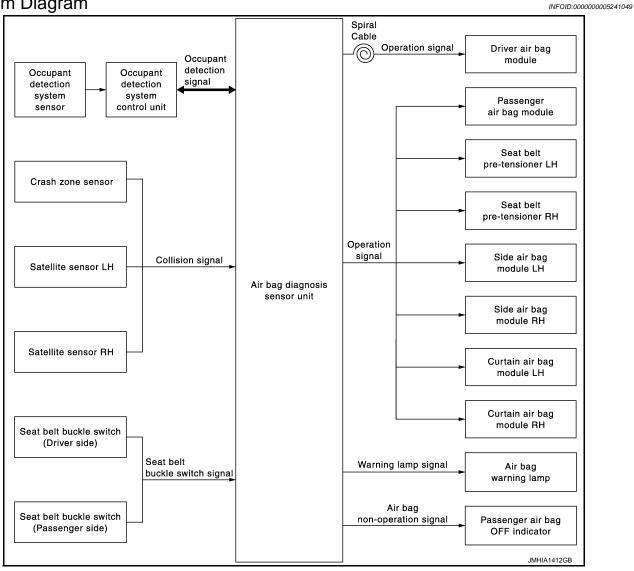
< BASIC INSPECTION >

| 3. "Zero point reset" starts. | А |
|---|-----|
| >> GO TO 2. | |
| 2.CONFIRMATION OF SETTING | В |
| Proceed to "Zero point reset function" screen from work support of CONSULT-III "OCCUPANT DETEC- TION". | D |
| 2. Check that "Complete" or "Incomplete" is displayed on "Zero point reset status". | С |
| • "Complete" is displayed on "zero point reset current status" if the seat is reinstalled by seat removal | 0 |
| and installation, or "zero point reset" is already performed. "Zero point reset current status" displays "Incomplete" if a new seat is installed. When turning key switch ON without performing zero point reset, front passenger air bag OFF indicator turns ON. When zero point reset is performed, front passenger air bag OFF indicator turns OFF. | D |
| Air bag warning lamp blinks in user mode only. Air bag sensor unit does not record whether or not zero point reset is performed. | E |
| Is condition "ALREADY PERFORMED"? | |
| YES >> Print out "ZERO POINT RESET CURRENT STATUS" screen, and inspection end. NO >> Check condition as per the following, and perform zero point reset again. Passenger seat is occupied by an object. | F |
| Excessive vibration is applied while performing zero point reset. Occupant detection system is malfunctioning. NOTE: | G |
| If "Incomplete" is displayed on "zero point reset current status", zero point reset is not completed normally. Check the condition as per the following and perform zero point reset again.Passenger seat is occupied by an object. | SRC |
| Excessive vibration is applied while performing zero point reset. Occupant detection system is malfunctioning. | I |
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< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION SRS AIR BAG SYSTEM

System Diagram



System Description

INFOID:000000005241050

This SRS Air Bag System has the following functions.

- 1. Detects a collision and supplies the energy for deploying air bag and seat belt pre-tensioner.
- 2. Detects electrical malfunction in SRS Air Bag System and Seat Belt Pre-tensioner System, records malfunction code, and blinking air bag warning lamp.
- 3. Detects and records the deployment of air bag and seat belt pre-tensioner, and turns ON air bag warning lamp.
- 4. Indicates malfunctioning portion with blinking times of air bag warning lamp in diagnosis mode.
- 5. Indicates the malfunction record by CONSULT-III.
- 6. Suppress the deployment of front passenger air bag when front passenger seat is empty or is occupied by a child or a child-seat.

When passenger seat is occupied by a child or a child seat, turns ON front passenger air bag OFF indicator.

7. When judges that passenger seat is occupied by a adult or a child and passenger seat belt is not fasten, turns ON seat belt warning lamp.

SRC-10

SRS AIR BAG SYSTEM

< SYSTEM DESCRIPTION >

COLLISION MODE

- The operation of supplemental restraint system is different depending on the collision modes applications. A For example, the driver air bag module, front passenger air bag module and front seat belt pre-tensioner are activated in a frontal collision but not in a side collision.
- SRS configurations that are activated for some collision modes are as per the following.

| SRS configuration | Frontal collision | Left side collision | Right side collision | Roll over | |
|--|-------------------|---------------------|----------------------|-----------|---|
| Driver air bag module. Refer to SRC-145 | × | _ | — | _ | |
| Front passenger air bag module. Refer to <u>SRC-145</u> | × | _ | _ | _ | |
| Front LH seat belt pre-tensioner. Refer to <u>SRC-145, SRC-148</u> | × | _ | _ | × | |
| Front RH seat belt pre-tensioner. Refer to <u>SRC-145</u> , <u>SRC-148</u> | × | _ | _ | × | |
| Front LH side air bag module. Refer to <u>SRC-147</u> | _ | × | _ | _ | |
| Front RH side air bag module. Refer to <u>SRC-147</u> | — | _ | × | _ | |
| LH side curtain air bag module. Refer to <u>SRC-147, SRC-148</u> | _ | × | _ | × | |
| RH side curtain air bag module. Refer to <u>SRC-147</u> , <u>SRC-148</u> | — | _ | × | × | - |

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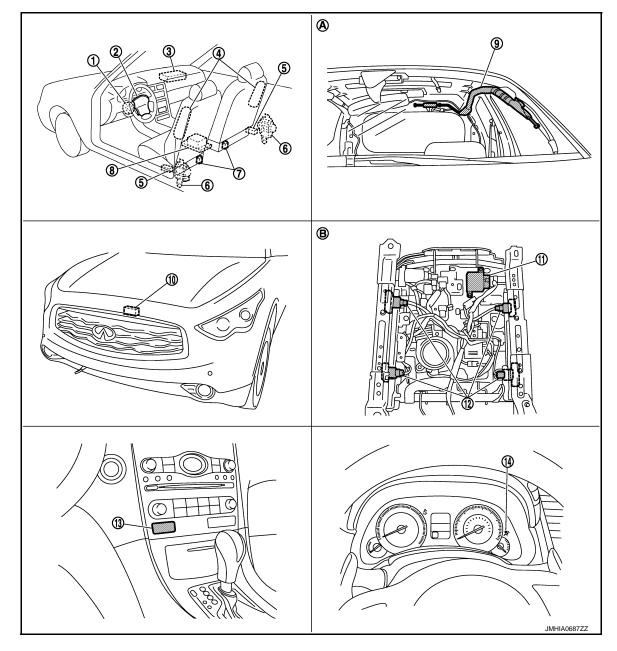
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SRS AIR BAG SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000005241051



- Combination switch (Spiral cable) 1.
- 4. Front LH/RH side air bag module
- Seat belt buckle switch (Driver side/ 7. Passenger side)
- 10. Crash zone sensor
- 13. Front passenger air bag OFF indica- 14. Combination meter (air bag warning tor
- View from vehicle front Α.

- Driver air bag module 2.
- 5. LH/RH satellite sensor
- 8. Air bag diagnosis sensor unit
- 11. Occupant Detection System control unit
 - lamp)
- Backside of the seat cushion Β.

- Front passenger air bag module 3.
- 6. Front LH/RH seat belt pre-tensioner
- 9. LH/RH side curtain air bag module
- 12. Occupant Detection System seat sensor

INFOID:000000005241052

Component Description

SRS AIR BAG SYSTEM

< SYSTEM DESCRIPTION >

| Component | Function |
|---|---|
| Air bag diagnosis sensor unit | Detects a collision and supplies power supply for deployment to air bag module and pre-tensioner seat belt. |
| Air bag module • Driver • Passenger • Front side • Side curtain | Receives signal from air bag diagnosis sensor unit and deploys air bag. |
| Front seat belt pre-tensioner | Receives signal from air bag diagnosis sensor unit and deploys pre-tensioner seat belt. |
| Seat belt buckle switch | Controls deployment timing depending on the seat belt condition that is fastened or unfastened. |
| Crash zone sensor | Transmits signal to air bag diagnosis sensor unit when a frontal collision occurs. |
| Satellite sensor (LH/RH) | Transmits signal to air bag diagnosis sensor unit when a side collision occurs. |
| Occupant Detection System | Detects front passenger seat occupant and judges whether or not deploys front pas- senger seat air bag. |
| Combination meter (air bag warning lamp) | Indicates air bag malfunctioning and deployment by blinking and illuminating air bag warning lamp. |
| Front passenger air bag OFF indicator | Indicates whether or not front passenger air bag is in activation mode subject to the judgement by occupant detection system. |
| Combination switch (spiral cable) | Supplies power supply to driver air bag module on steering wheel. |

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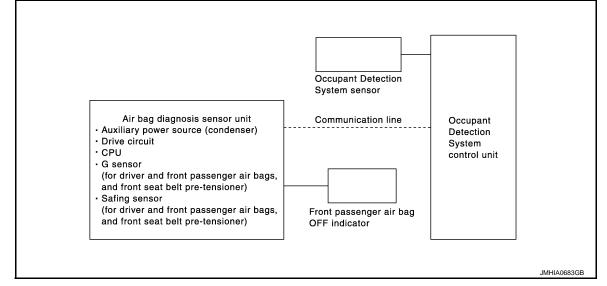
< SYSTEM DESCRIPTION >

OCCUPANT DETECTION SYSTEM

System Diagram

INFOID:000000005241053

OCCUPANT DETECTION SYSTEM



System Description

INFOID:000000005241054

This Occupant Detection System has the following functions.

- 1. Suppress the deployment of front passenger air bag when front passenger seat is empty, or when occupied by child and child-seat. Turns ON front passenger air bag OFF indicator when front passenger seat is occupied by child-seat and child.
- 2. Indicates malfunction portion with blinking times of air bag warning lamp in diagnosis mode.
- 3. Indicates the malfunctioning record by CONSULT-III.
- 4. When "zero point reset" for occupant detection system is incomplete, CONSULT-III indicates that "zero point reset" is incomplete.

This function is applied to NISSAN genuine parts only.

NOTE:

- Operation of air bag diagnosis sensor unit when air bag diagnosis sensor unit receives information from Occupant Detection System.
- Even if zero point reset is "complete", always perform zero point reset after the removal and installation of seat or the removal of control unit harness connector.

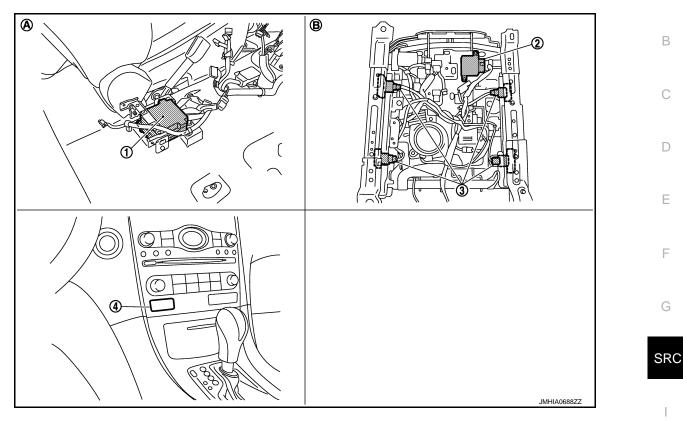
| Status (front passenger seat) | Passenger air bag | Front passenger air bag OFF indicator | Air bag warning lamp | Seat belt warning lamp (when front passenger seat is unbuckled) |
|---|-------------------|--|----------------------|---|
| Empty | Suppress | OFF | OFF | OFF |
| An object | Suppress | ON | OFF | OFF |
| Child/ child-seat | Suppress | ON | OFF | ON |
| Adult | Enable to deploy | OFF | OFF | ON |
| Malfunction | Suppress | ON | Blinking | OFF |
| Zero point reset Not yet performed (NIS- SAN genuine parts only) | Suppress | ON | OFF | OFF |

OCCUPANT DETECTION SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

А



- 1. Air bag diagnosis sensor unit
- Occupant Detection System control 3. Occupant Detection System sensor unit
- 4. Passenger air bag OFF indicator
- A. View with center console assembly B. removed

2.

Component Description

| Component parts | Outline of function | L |
|--|--|-----|
| Occupant Detection System sensor | Detects if the passenger seat is empty or occupied | |
| Occupant Detection System control unit | Transmits the passenger seat status (occupied or empty) to air bag diagnosis sensor unit | ЪЛ |
| Front passenger air bag OFF indicator | Turns the front passenger air bag OFF indicator lamp ON when the front passenger seat is occupied by a child or a child-seat | IVI |
| Air bag diagnosis sensor unit | Performs the deploy judgement of passenger air bag based on the information from Occupant Detection System control unit | Ν |

Backside of the seat cushion

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< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (AIRBAG)

Diagnosis Description

INFOID:000000005241057

CAUTION:

- Never use electrical test equipment on any circuit related to the SRS unless instructed in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.
- Never repair, splice or modify the SRS wiring harness. If the harness is damaged, replace it with a new one.
- Keep ground portion clean.

DIAGNOSIS FUNCTION

- The SRS self-diagnosis results can be read by using air bag warning lamp and/or CONSULT-III.
- The user mode is exclusively prepared for the customer (driver). This mode warns the driver of a system malfunction through the operation of the air bag warning lamp.
- The diagnosis mode allows the technician to locate and inspect the malfunctioning part.
- The mode applications for the air bag warning lamp and CONSULT-III are as per the following.

| | User mode | Diagnosis mode | Display type |
|----------------------|-----------|----------------|------------------|
| Air bag warning lamp | Х | Х | ON-OFF operation |
| CONSULT-III | _ | Х | Monitoring |

×: Application, —: Not application

HOW TO PERFORM TROUBLE DIAGNOSIS 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 PG-3, "How to Handle Battery").
- Fuse (Refer to <u>PG-128, "Fuse"</u>).
- System component-to-harness connections.

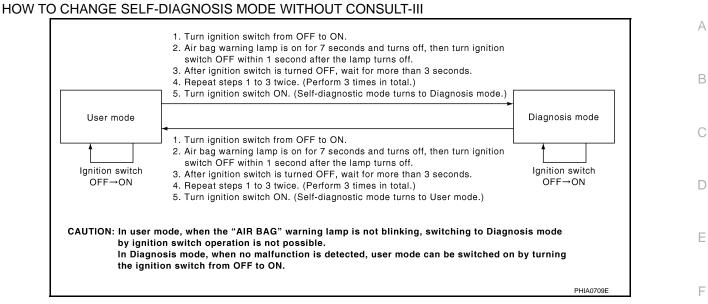
Air Bag Warning Lamp Diagnosis

INFOID:000000005241058

SELF-DIAGNOSIS FUNCTION

- The reading of these results is accomplished by "User mode" and "Diagnosis mode".
- After a malfunction is repaired, turn ignition switch ON. Diagnosis mode returns to the user mode. At that time, the self-diagnosis result is cleared.

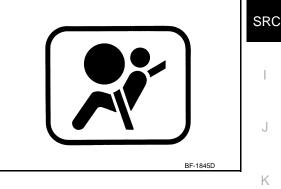
< SYSTEM DESCRIPTION >



DIAGNOSTIC PROCEDURE (USER MODE)

Checking air bag operation according to air bag warning lamp-User mode

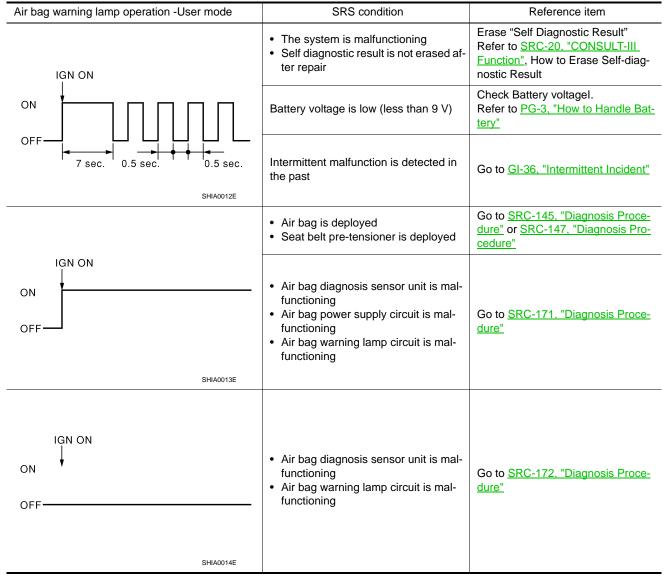
- 1. Turn the ignition switch from OFF to ON, and check that the air bag warning lamp blinks.
- 2. Compare the air bag warning lamp blinking pattern with the examples.



Air bag warning lamp examples (User mode)

| Air bag warning lamp operation -User mode | SRS condition | Reference item | |
|---|--------------------------------|----------------|--|
| | | | |
| | No malfunction is detected | | |
| OFF | No further action is necessary | — | |
| SHIA0011E | | | |

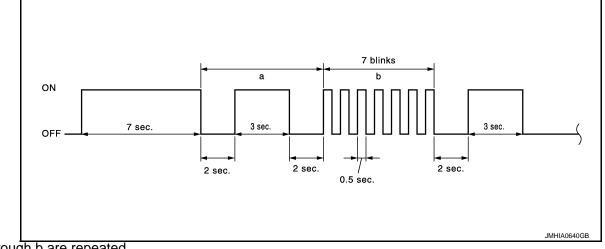
< SYSTEM DESCRIPTION >



DIAGNOSTIC PROCEDURE (DIAGNOSIS MODE)

- 1. Turn the ignition switch ON, and check that the air bag warning lamp blinks.
- 2. There are 2 blinking patterns for the air bag warning lamp. One is a 3-second blink followed by a 0.5- second blink repeated. The other is two 1.5-second blinks followed by a 0.5-second blink repeated.

An Example of a 3-second Blink Followed by a 0.5-second Blink Repeated



a through b are repeated.

< SYSTEM DESCRIPTION >

b: Seven 0.5-second blinks indicate that the air bag diagnosis sensor unit circuit is malfunctioning.

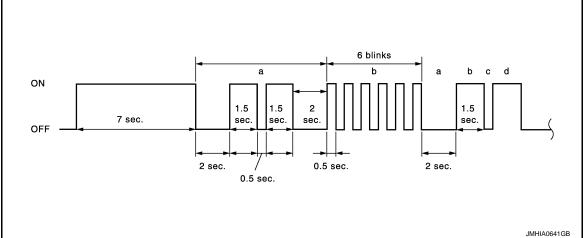
Number of 0.5-second blinks after a 3-second blink indicates malfunctioning items

| Number of 0.5-second blinks | Malfunctioning items | Blinking pattern |
|-----------------------------|---|---|
| 0 | Self-diagnostic result is not erased after repair Intermittent malfunction is detected in the past | Refer to the following items Refer to How to Erase Self-diagnostic Result <u>GI-36</u>, "Intermittent Incident" |
| 1 | Front LH seat belt pre-tensioner | Refer to the following items• SRC-79, "DTC Logic"• SRC-81, "DTC Logic"• SRC-83, "DTC Logic"• SRC-85, "DTC Logic" |
| 2 | Driver air bag module | Refer to the following items• SRC-49, "DTC Logic"• SRC-51, "DTC Logic"• SRC-53, "DTC Logic"• SRC-55, "DTC Logic"• SRC-69, "DTC Logic" |
| 3 | Front RH seat belt pre-tensioner | Refer to the following items • SRC-71, "DTC Logic" • SRC-73, "DTC Logic" • SRC-75, "DTC Logic" • SRC-77, "DTC Logic" |
| 5 | Occupant Detection System control unit | Refer to the following items <u>SRC-29</u>, "DTC Logic" <u>SRC-31</u>, "DTC Logic" <u>SRC-33</u>, "DTC Logic" <u>SRC-37</u>, "DTC Logic" |
| 6 | Crash zone sensor | Refer to the following items <u>SRC-41, "DTC Logic"</u> <u>SRC-43, "DTC Logic"</u> <u>SRC-45, "DTC Logic"</u> |
| 7 | Air bag diagnosis sensor unit | Refer to the following items•SRC-23, "DTC Logic"•SRC-25, "DTC Logic"•SRC-27, "DTC Logic"•SRC-39, "DTC Logic"•SRC-47, "DTC Logic"•SRC-67, "DTC Logic"•SRC-67, "DTC Logic"•SRC-89, "DTC Logic"•SRC-89, "DTC Logic"•SRC-117, "DTC Logic"•SRC-137, "DTC Logic"•SRC-137, "DTC Logic"•SRC-139, "DTC Logic"•SRC-139, "DTC Logic"•SRC-143, "DTC Logic"•SRC-141, "DTC Logic"•SRC-143, "DTC Logic"•SRC-143, "DTC Logic" |
| 8 | Front passenger air bag module | Refer to the following items• SRC-59, "DTC Logic"• SRC-61, "DTC Logic"• SRC-63, "DTC Logic"• SRC-65, "DTC Logic" |
| 11 | Front passenger air bag OFF indicator | Refer to <u>SRC-35, "DTC Logic"</u> . |
| 17 | Air bag diagnosis sensor unit | Refer to SRC-119, "DTC Logic" |

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< SYSTEM DESCRIPTION >

An Example of Two 1.5-second Blinks Followed by a 0.5-second Blink Repeated



a through b are repeated.

b: Six 0.5-second blinks indicate that the LH side curtain air bag module circuit is malfunctioning.

Number of 0.5-second blinks after Two 1.5-second blinks indicates malfunctioning items

| Number of 0.5-second blinks | Malfunctioning items | Blinking pattern |
|-----------------------------|--------------------------------|--|
| 1 | Front RH side air bag module | Refer to the following items • SRC-101, "DTC Logic" • SRC-103, "DTC Logic" • SRC-105, "DTC Logic" • SRC-107, "DTC Logic" |
| 2 | Front LH side air bag module | Refer to the following items • SRC-109, "DTC Logic" • SRC-111, "DTC Logic" • SRC-113, "DTC Logic" • SRC-115, "DTC Logic" |
| 3 | RH satellite sensor | Refer to the following items • SRC-91, "DTC Logic" • SRC-93, "DTC Logic" • SRC-150, "DTC Logic" |
| 4 | LH satellite sensor | Refer to the following items • SRC-95, "DTC Logic" • SRC-97, "DTC Logic" • SRC-152, "DTC Logic" |
| 5 | RH side curtain air bag module | Refer to the following items • SRC-121, "DTC Logic" • SRC-123, "DTC Logic" • SRC-125, "DTC Logic" • SRC-127, "DTC Logic" |
| 6 | LH side curtain air bag module | Refer to the following items • SRC-129, "DTC Logic" • SRC-131, "DTC Logic" • SRC-133, "DTC Logic" • SRC-135, "DTC Logic" |

HOW TO ERASE SELF-DIAGNOSTIC RESULTS

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

CONSULT-III Function

INFOID:000000005241059

HOW TO CHANGE SELF-DIAGNOSIS MODE WITH CONSULT-III

From User Mode to Diagnosis Mode

< SYSTEM DESCRIPTION >

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

From Diagnosis Mode to User Mode

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

DIAGNOSIS MODE FOR CONSULT-III

| E | Diagnosis mode | Description |
|--------------------|---------------------|--|
| Ecu Identification | | Air bag diagnosis sensor unit ECU discriminated number (identification num- ber) is displayed. Air bag diagnosis sensor unit has individual ECU discriminat- ed number (identification number) based on model and equipment. |
| Self Diagnostic Re | esult | The current self diagnosis results (also indicated with the number of air bag warning lamp blinks in the diagnosis mode) are displayed on CONSULT-III screen in real time. This refers to a malfunctioning part requiring repairs. Refer to <u>SRC-156</u> , " <u>DTC Index</u> ". |
| Function Test | CAR COMPUTER DIAG. | Test result is indicated using "OK" or "NG" so that the customer recognizes eas- ily. |
| Special function | SELF-DIAG [PAST] | Diagnosis results previously stored in the memory are displayed on CONSULT- III screen. The stored results are not erased until memory erasing is executed. |
| | TROUBLE DIAG RECORD | With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed on CONSULT-III screen. |

HOW TO ERASE SELF-DIAGNOSTIC RESULTS

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

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

• "TROUBLE DIAG RECORD"

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

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DIAGNOSIS SYSTEM (OCCUPANT DETECTION SYSTEM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (OCCUPANT DETECTION SYSTEM)

CONSULT-III Function

INFOID:000000005241060

ZERO POINT RESET DESCRIPTION

This vehicle adopts occupant detection system with a weight detecting method. When replacing, or removing and installing passenger seat, always perform "zero point rest" so that the vehicle recognizes zero point. If zero point reset is incomplete, occupant detection sensor does not operate normally.

WORK SUPPORT

| Monitor item | Description |
|---------------------------|--|
| Zero point reset function | Perform zero point reset. Refer to <u>SRC-8</u> , "ZERO POINT RE- <u>SET</u> : Special Repair Requirement". |

B1001, B1002, B1003, B1004, B1005 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS B1001, B1002, B1003, B1004, B1005 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag, and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

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INFOID:000000005241061

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|--|------------------------|--|--|-----|
| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
| B1001 B1002 B1003 B1004 B1005 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sensor unit Configuration in air bag diagnosis sensor unit does not match the vehicles specification | SRC |
| DTC CONFIRMATI 1. CHECK SELF-DIA | | | | |

(I) With CONSULT-III

1. Turn ignition switch ON.

2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

1. Turn ignition switch ON.

Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>.

NOTE:

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-23, "Diagnosis Procedure"</u>. NO >> INSPECTION END

Diagnosis Procedure

WARNING:

 Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)

Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

INFOID:000000005241063

B1001, B1002, B1003, B1004, B1005 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to SRC-23, "DTC Logic".

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1006, B1007, B1008, B1009, B1010 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1006, B1007, B1008, B1009, B1010 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

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INFOID:000000005241064

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | 0 |
|---|------------------------|--|--|-----|
| B1006 B1007 B1008 B1009 B1010 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sensor unit Configuration in air bag diagnosis sensor unit does not match the vehicles specification | SRO |
| | TION PROCEDURE | | cles specification | |

1.CHECK SELF-DIAG RESULT

(P) With CONSULT-III

1. Turn ignition switch ON.

2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

1. Turn ignition switch ON.

2. Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. **NOTE:**

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-25, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

INFOID:000000005241066

B1006, B1007, B1008, B1009, B1010 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

>> Replace wiring harness. NO

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>
 Perform DTC confirmation procedure. Refer to <u>SRC-25, "DTC Logic"</u>

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

B1011, B1012, B1013, B1014, B1015 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1011, B1012, B1013, B1014, B1015 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

INFOID:000000005241068

INFOID:000000005241067

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | 0 |
|-------------------------|------------------------|--|--|-----|
| B1011 B1012 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sen- sor unit | G |
| B1013 B1014 B1015 | | | Configuration in air bag diagnosis sensor unit does not match the vehi- cles specification | SRO |
| DTC CONFIRMA | TION PROCEDURE | | | |

1.CHECK SELF-DIAG RESULT

(P) With CONSULT-III

1. Turn ignition switch ON.

2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

1. Turn ignition switch ON.

2. Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>.

NOTE:

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-27, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

INFOID:000000005241069

B1011, B1012, B1013, B1014, B1015 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

>> Replace wiring harness. NO

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>
 Perform DTC confirmation procedure. Refer to <u>SRC-27, "DTC Logic"</u>

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

B1017, B1020, B1021 OCCUPANT SENS C/U

< DTC/CIRCUIT DIAGNOSIS >

B1017, B1020, B1021 OCCUPANT SENS C/U

Description

INFOID:000000005241070

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Suppresses the deployment of front passenger air bag when the condition of passenger seat is empty or occupied with a child and child-seat. Also illuminates front passenger air bag OFF indicator lamp when the condition of passenger seat is occupied with a child-seat and child. In case of malfunction the blinking of the air bag warning lamp reports the malfunction to driver, and by the on board self-diagnosis system or CONSULT-III can detect the cause.

OPERATION

This unit classifies occupant in passenger seat and detects electrical malfunctions in Occupant Detection System, and transmits malfunction information to air bag control unit.

STRUCTURE

It is integrated into the seat sensor mat and detects the occupants with Occupant Detection System control \Box unit that classifies the occupants.

INSTALLATION

Occupant Detection System control unit is installed in the passenger seat cushion.

DTC Logic

INFOID:000000005241071

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | SRC |
|---|--|---|--|-----|
| B1017 B1020 B1021 | OCCUPANT SENS C/U [UNIT FAIL] | Trouble occurs in Occupant Detection System control unit | Disconnection of wiring harness Malfunction in Occupant Detection System control unit Malfunction in air bag diagnosis sensor unit | |
| DTC CONFIRMA | TION PROCEDURE | | | |
| 1. CHECK SELF-D | DIAG RESULT | | | J |
| With CONSULT Turn ignition sv Perform "AIR E Without CONSU Turn ignition sv | witch ON. 3AG" Self Diagnostic Re JLT-III | esult CONSULT-III. | | K |
| 2. Check the air b | | . Refer to <u>SRC-16, "Air Bag Warr</u> | ning Lamp Diagnosis". | L |
| l <u>s malfunctioning p</u> YES >> Refer t | • | nalfunction is detected in user mo | ode. | Μ |
| Diagnosis Proc | cedure | | INFOID:00000005241072 | Ν |
| minutes. (To dis | g, turn ignition switch charge backup capaci ecified tester or other | tor.) | tive terminal and wait at least 3 | 0 |
| DIAGNOSTIC PR | OCEDURE | | | Ρ |
| 1. CHECK HARNE | ESS CONNECTOR | | | |
| | ion of harness connecto | or. | | |
| Is the inspection re | sult normal? | | | |

- YES >> GO TO 2.
- NO >> Replace harness connectors.

B1017, B1020, B1021 OCCUPANT SENS C/U

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3. Replace occupant detection system control unit

- 1. Replace seat cushion frame. Refer to <u>SE-81, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to SRC-29, "DTC Logic".

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-29, "DTC Logic"</u>.

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

B1018 OCCUPANT SENS

Description

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Suppresses the deployment of front passenger air bag when the condition of passenger seat is empty or occupied with a child and child-seat. Also illuminates front passenger air bag OFF indicator lamp when the condition of passenger seat is occupied with a child-seat and child. In case of malfunction the blinking of the air bag warning lamp reports the malfunction to driver, and by the on board self-diagnosis system or CONSULT-III can detect the cause.

OPERATION

The unit classifies occupant in passenger seat and transmits it to Occupant Detection System control unit.

STRUCTURE

Multiple sensors are installed in the sensor mat to prevent incorrect sensing induced by the sitting position.

INSTALLATION

Occupant Detection System sensor is installed in the passenger seat cushion.

DTC Logic

INFOID:000000005241074

DTC DETECTION LOGIC

| | | | | G |
|----------------|------------------------------|---|---|-----|
| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | 0 |
| B1018 | OCCUPANT SENS [UNIT FAIL] | Malfunction occurs in Occupant Detec- tion System sensor | Disconnection of wiring harness Malfunction in Occupant Detection System sensor Malfunction in Occupant Detection System control unit Malfunction in air bag diagnosis sensor unit | SRC |
| DTC CONFIRMATI | ON PROCEDURE | | | |

1.CHECK SELF-DIAG RESULT

(I) With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result CONSULT-III.
- Without CONSULT-III
- 1. Turn ignition switch ON.

 Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to <u>SRC-31, "Diagnosis Procedure"</u>.
- NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

DIAGNOSTIC PROCEDURE

1.CHECK HARNESS CONNECTOR

Check the connection of harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

INFOID:000000005241075

B1018 OCCUPANT SENS

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

 $\mathbf{3}.$ Replace occupant detection system control unit and sensor

1. Replace seat cushion frame. Refer to <u>SE-81, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to SRC-31, "DTC Logic".

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-31, "DTC Logic"</u>.

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

B1022 OCCUPANT SENS C/U

Description

Suppresses the deployment of front passenger air bag when the condition of passenger seat is empty or occupied with a child and child-seat. Also illuminates front passenger air bag OFF indicator lamp when the condition of passenger seat is occupied with a child-seat and child. In case of malfunction the blinking of the air bag warning lamp reports the malfunction to driver, and by the on board self-diagnosis system or CONSULT-III can detect the cause.

OPERATION

This unit classifies occupant in passenger seat and detects electrical malfunction in Occupant Detection System and transmits malfunction information to air bag control unit.

STRUCTURE

It is integrated into the seat sensor mat and detects the occupants and Occupant Detection System control \Box unit that classifies the occupants.

INSTALLATION

Occupant Detection System control unit is installed in the passenger seat cushion.

DTC Logic

INFOID:000000005241077

INFOID:000000005241076

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DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | 000 |
|--|--|--|--|-----|
| B1022 | OCCUPANT SENS C/U [COMM FAIL] | Malfunction occurs in Occupant Detec- tion System control unit, circuit of Occu- pant Detection System control unit-Air bag diagnosis sensor unit or Air bag di- agnosis sensor unit | Disconnection of wiring harness Malfunction in Occupant Detection System control unit Malfunction in air bag diagnosis sensor unit | SRC |
| DTC CONFIRMAT | TION PROCEDURE | | | |
| 1. CHECK SELF-D | IAG RESULT | | | J |
| 🕱 Without CONSU | vitch ON. AG" Self Diagnostic Re ILT-III | esult CONSULT-III. | | K |
| 2. Check the air bag warning lamp status. Refer to <u>SRC-16. "Air Bag Warning Lamp Diagnosis"</u> . | | | | |
| NOTE: SRS does not enter | r diagnosis mode if no r | nalfunction is detected in user mo | de. | |
| Is malfunctioning pa | | | | Μ |
| | o <u>SRC-33, "Diagnosis F</u> CTION END | Procedure". | | |
| Diagnosis Proc | | | INFOID:000000005241078 | Ν |
| minutes. (To dise | ı, turn ignition switch charge backup capaci ecified tester or other | | ive terminal and wait at least 3 | 0 |
| DIAGNOSTIC PR | OCEDURE | | | Ρ |
| 1. CHECK HARNE | SS CONNECTOR | | | |
| Check the connection | on of harness connecto | pr. | | |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3. CHECK OCCUPANT DETECTION SYSTEM CONTROL UNIT

1. Replace seat cushion frame. Refer to <u>SE-81, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-33, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-33, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1023 PASS A/B INDCTR CKT

Description

Suppresses the deployment of front passenger air bag when the condition of passenger seat is empty or occupied with a child and child-seat. Also illuminates front passenger air bag OFF indicator lamp when the condition of passenger seat is occupied with a child-seat and child. In case of malfunction the blinking of the air bag warning lamp reports the malfunction to driver, and by the on board self-diagnosis system or CONSULT-III can detect the cause.

OPERATION

Illuminates front passenger air bag OFF indicator when the passenger seat is empty or occupied by a child or a child-seat.

STRUCTURE

Front passenger air bag OFF indicator with LED illumination.

INSTALLATION

Front passenger air bag OFF indicator is installed at the instrument panel center.

DTC Logic

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INFOID:000000005241079

INFOID:000000005241080

DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|---------|------------------------------------|---|---|-----|
| B1023 | PASS A/B INDCTR CKT [UNIT FAIL] | Passenger air bag OFF indicator circuit is open or shorted to ground or the cir- cuits are shorted each other | Disconnection of wiring harness Malfunction in front passenger air bag OFF indicator Malfunction in air bag diagnosis sensor unit | SRC |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

(P) With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result CONSULT-III.

Without CONSULT-III

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. NOTE:

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-35. "Diagnosis Procedure"</u>. NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

DIAGNOSTIC PROCEDURE

1.CHECK HARNESS CONNECTOR

Check the connection of harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

INFOID:000000005241081

B1023 PASS A/B INDCTR CKT

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3.CHECK PASSENGER AIR BAG OFF INDICATOR

1. Replace front passenger air bag OFF indicator. Refer to <u>IP-11, "Exploded View"</u>

2. Perform DTC confirmation procedure. Refer to SRC-35, "DTC Logic".

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-35, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1025, B1032, B1048 OCS SENSOR

Description

Suppresses the deployment of front passenger air bag when the condition of passenger seat is empty or occupied with a child and child-seat. Also illuminates front passenger air bag OFF indicator lamp when the condition of passenger seat is occupied with a child-seat and child. In case of malfunction the blinking of the air bag warning lamp reports the malfunction to driver, and by the on board self-diagnosis system or CONSULT-III can detect the cause.

OPERATION

This unit classifies occupant in passenger seat and detects electrical malfunction in Occupant Detection System and transmits malfunction information to air bag control unit.

STRUCTURE

It is integrated into the seat sensor mat and detects the occupants and Occupant Detection System control \Box unit that classifies the occupants.

INSTALLATION

Occupant Detection System control unit is installed in the passenger seat cushion.

DTC Logic

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DTC DETECTION LOGIC

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | SR |
|---|---|--|---|--------|
| B1025 B1032 B1048 | OCS SENSOR | Malfunction occurs in Occupant Detec- tion System control unit, circuit of Occu- pant Detection System control unit-Air bag diagnosis sensor unit or Air bag di- agnosis sensor unit | Disconnection of wiring harness Internal breakdown in Occupant Detection System control unit Malfunction in air bag diagnosis sensor unit | ЗК |
| OTC CONFIRMATI | ON PROCEDURE | | | |
| 1. CHECK SELF-DI | AG RESULT | | | J |
| With CONSULT-II Turn ignition swith Perform "AIR BA Without CONSUL | tch ON. \G" Self Diagnostic Re | esult CONSULT-III. | | K |
| Turn ignition swith Check the air ba NOTE: | | . Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". | L |
| SRS does not enter on <u>s malfunctioning par</u> YES >> Refer to | <u>t detected?</u> <u>SRC-37, "Diagnosis F</u> | nalfunction is detected in user mo Procedure". | de. | Μ |
| NO >> INSPEC | - | | | Ν |
| Diagnosis Proce | aure | | INFOID:00000005241084 | |
| minutes. (To discl | turn ignition switch harge backup capaci cified tester or other | | ive terminal and wait at least 3 | 0 |
| DIAGNOSTIC PRC | CEDURE | | | Ρ |
| 1. CHECK HARNES | S CONNECTOR | | | |
| Check the connection | n of harness connecto |)r. | | |

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

B1025, B1032, B1048 OCS SENSOR

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3. CHECK OCCUPANT DETECTION SYSTEM CONTROL UNIT

1. Replace seat cushion frame. Refer to SE-81, "Exploded View".

2. Perform DTC confirmation procedure. Refer to SRC-37, "DTC Logic".

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-37, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1026, B1027, B1028, B1029, B1030, B1031 DIAGNOSIS SENSOR UNIT < DTC/CIRCUIT DIAGNOSIS >

B1026, B1027, B1028, B1029, B1030, B1031 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

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INFOID:000000005241085

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|-------------------------|------------------------|--|--|---|
| B1026 B1027 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sen- sor unit | (|
| B1028 B1029 B1030 | | | Configuration in air bag diagnosis sensor unit does not match the vehi- cles specification | S |
| B1031 | | | | |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. NOTE:

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-39, "Diagnosis Procedure"</u>. NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

INFOID:000000005241087

B1026, B1027, B1028, B1029, B1030, B1031 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-39. "DTC Logic"</u>.
- Is DTC detected?

YES >> GO TO 1.

B1033, B1034 CRASH ZONE SEN

Description

Main "G" sensor generates signal voltage, when it detects deceleration beyond the specified level caused by vehicle frontal collision.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of the "G" sensor and the safing algorithm to be that of collision which exceeds a specified level, the driving circuit switches on and feeds the electric ignitor of both driver and passenger air bags and pre-tensioner seat belts.

STRUCTURE

Integrated type of the "G" sensor element for frontal collision with output terminals for signal voltage.

INSTALLATION

Crash zone sensor is installed on the radiator core support assembly with fixed nuts.

DTC Logic

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INFOID:000000005241088

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|--|--|--|---|
| B1033 B1034 | CRASH ZONE SEN- SOR [UNIT FAIL] | Crash zone sensor is malfunctioning | Disconnection of wiring harness Malfunction in crash zone sensor Malfunction in air bag diagnosis sensor unit |
| TC CONFIRMA | TION PROCEDURE | | |
| .CHECK SELF- | DIAG RESULT | | |
| Without CONSU . Turn ignition s . Check the air b IOTE: SRS does not enter s malfunctioning p | witch ON. BAG" Self Diagnostic Re JLT-III witch ON. bag warning lamp status er diagnosis mode if no r | s. Refer to <u>SRC-16. "Air Bag Warr</u> nalfunction is detected in user mo | |
| | CTION END | <u>locedure</u> . | |
| Diagnosis Proc | cedure | | INFOID:000000005241090 |
| minutes. (To dis Never use unsp | g, turn ignition switch charge backup capaci ecified tester or other ESS CONNECTOR | itor.) | tive terminal and wait at least 3 |
| Check the harness | connector. | | |
| s the inspection re | | | |
| YES >> GO TO NO >> Replace | ce harness connectors. | | |
| NO >> Replac | | | |
| | | | |
| CHECK WIRING | G HARNESS | | |
| CHECK WIRING Check the wiring h | G HARNESS arness externals. esult normal? | | |
| CHECK WIRING Check the wiring h s the inspection re YES >> GO TO | G HARNESS arness externals. esult normal? | | |

3.REPLACE CRASH ZONE SENSOR

- 1. Replace crash zone sensor. Refer to <u>SR-21, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-41, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25. "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-41. "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1035, B1036 CRASH ZONE SEN

Description

Main "G" sensor generates signal voltage, when it detects deceleration beyond the specified level caused by vehicle frontal collision.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of the "G" sensor and the safing algorithm to be that of collision which exceeds a specified level, the driving circuit switches on and feeds the electric ignitor of both driver and passenger air bags and pre-tensioner seat belts.

STRUCTURE

Integrated type of the "G" sensor element for frontal collision with output terminals for signal voltage.

INSTALLATION

Crash zone sensor is installed on the radiator core support assembly with fixed nuts.

DTC Logic

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INFOID:000000005241091

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| B1035 | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|---|--|---|---|----|
| B1035 B1036 | CRASH ZONE SEN- SOR [COMM FAIL] [UNMATCH] | Crash zone sensor is malfunctioning or out of the specified specification | Disconnection of wiring harness Malfunction in crash zone sensor Malfunction in air bag diagnosis sensor unit | G |
| DTC CONFIRMATI | ON PROCEDURE | | | SR |
| 1.CHECK SELF-DI | AG RESULT | | | |
| With CONSULT-II Turn ignition swing Perform "AIR BAGE | I tch ON. \G" Self Diagnostic Re | esult. | | 1 |
| Without CONSUL 1. Turn ignition swi 2. Check the air ba | tch ON. | s. Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". | J |
| NOTE: SRS does not enter of | diagnosis mode if no r | malfunction is detected in user mo | | Κ |
| Is malfunctioning par YES >> Refer to NO >> INSPEC | SRC-43, "Diagnosis F | Procedure". | | L |
| Diagnosis Proce | dure | | INFOID:000000005241093 | M |
| minutes. (To discl | harge backup capaci cified tester or other | | ive terminal and wait at least 3 | Ν |
| Check the harness c | onnector. | | | 0 |
| Is the inspection resu | <u>ult normal?</u> | | | |
| YES >> GO TO 2 | | | | Р |
| NO >> Replace 2.CHECK WIRING | harness connectors. | | | 1 |
| | | | | |
| | ness externals. | | | |
| Check the wiring har | lt normal? | | | |
| Check the wiring har <u>Is the inspection resu</u> YES >> GO TO 3 | | | | |

3.REPLACE CRASH ZONE SENSOR

- 1. Replace crash zone sensor. Refer to <u>SR-21, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-43</u>, "<u>DTC Logic</u>".

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25. "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-43. "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1037, B1039, B1041 CRASH ZONE SENS1

< DTC/CIRCUIT DIAGNOSIS >

B1037, B1039, B1041 CRASH ZONE SENS1

Description

Main "G" sensor generates signal voltage, when it detects deceleration beyond the specified level caused by vehicle frontal collision.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of the "G" sensor and the safing algorithm to be that of collision which exceeds a specified level, the driving circuit switches on and feeds the electric ignitor of both driver and passenger air bags and pre-tensioner seat belts.

STRUCTURE

Integrated type of the "G" sensor element for frontal collision with output terminals for signal voltage.

INSTALLATION

Crash zone sensor is installed on the radiator core support assembly with fixed nuts.

DTC Logic

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| • | DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|---|-------------------------|------------------------|-------------------------------------|---|-----|
| - | B1037 B1039 B1041 | CRASH ZONE SENSOR1 | Crash zone sensor is malfunctioning | Disconnection of wiring harness Malfunction in crash zone sensor Malfunction in air bag diagnosis sensor unit | G |
| | DTC CONFIRMATI | ON PROCEDURE | | | SRC |

1 CHECK SELE-DIAG RESULT

| I .CHECK SELF-DIAG RESULT | |
|---|----|
| With CONSULT-III | |
| Turn ignition switch ON. Perform "AIR BAG" Self Diagnostic Result. | |
| Without CONSULT-III | J |
| 1. Turn ignition switch ON. | |
| Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. NOTE: | |
| SRS does not enter diagnosis mode if no malfunction is detected in user mode. | Κ |
| Is malfunctioning part detected? | |
| YES >> Refer to <u>SRC-45, "Diagnosis Procedure"</u> . | 1 |
| NO >> INSPECTION END | _ |
| Diagnosis Procedure | |
| | M |
| • Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 | |
| minutes. (To discharge backup capacitor.) | Ν |
| Never use unspecified tester or other measuring device. | IN |
| 1.CHECK HARNESS CONNECTOR | |
| Check the harness connector. | 0 |
| Is the inspection result normal? | |
| YES >> GO TO 2. | D |
| NO >> Replace harness connectors. | Ρ |
| 2.CHECK WIRING HARNESS | |
| Check the wiring harness externals. | |
| Is the inspection result normal? | |
| YES >> GO TO 3. | |

NO >> Replace wiring harness.

B1037, B1039, B1041 CRASH ZONE SENS1

< DTC/CIRCUIT DIAGNOSIS >

3.REPLACE CRASH ZONE SENSOR

- 1. Replace crash zone sensor. Refer to <u>SR-21, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-45, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25. "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-45. "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1042, B1043, B1044, B1045, B1046, B1047 DIAGNOSIS SENSOR UNIT < DTC/CIRCUIT DIAGNOSIS >

B1042, B1043, B1044, B1045, B1046, B1047 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|----------------|------------------------|--|--|---|
| B1042 B1043 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sen- sor unit | (|
| B1044 B1045 | | | Configuration in air bag diagnosis sensor unit does not match the vehi- | S |
| B1046 B1047 | | | cles specification | |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. NOTE:

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-47, "Diagnosis Procedure"</u>. NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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B1042, B1043, B1044, B1045, B1046, B1047 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-47. "DTC Logic"</u>.
- Is DTC detected?

YES >> GO TO 1.

B1049, B1054 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1049, B1054 DRIVER AIRBAG MODULE

Description

For driver air bag module, crash is judged by main "G" sensor output signal and safing algorithm in front direc-

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Driver air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Driver air bag module is installed on the center of steering wheel with fixed bolts.

DTC Logic

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|---|-------------------------------------|---|--|-----|
| B1049 B1054 | DRIVER AIRBAG MOD- ULE [OPEN] | Driver air bag module circuit is open (including the spiral cable) | Disconnection of wiring harness and open Malfunction in driver air bag module | G |
| | | | Malfunction in spiral cable Malfunction in air bag diagnosis sensor unit | SRO |
| DTC CONFIRMA 1.CHECK SELF- | TION PROCEDURE | | | I |
| With CONSULT1. Turn ignition s | | | | J |

- 2. Perform "AIR BAG" Self Diagnostic Result.
- Without CONSULT-III
- 1. Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. **NOTE:**

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-49</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

With CONSULT-III

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

NO >> Replace harness connector.

2.CHECK WIRING HARNESS

Check the wiring harness externals. Is the inspection result normal?

B1049, B1054 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.CHECK SPIRAL CABLE CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect driver air bag module harness connector and combination switch (spiral cable) harness connector.
- 3. Check continuity between driver air bag module harness connector and combination switch (spiral cable) harness connector.

| Driver air bag module har- ness connector | Terminal | combination switch (spiral ca- ble) harness connector | Terminal | Continuity |
|--|----------|---|----------|------------|
| M302 | 10 | - - M35 | 28 | |
| 101302 | 11 | | 30 | Existed |
| N004 | 12 | CCIVI | 29 | Existed |
| M301 | 9 | | 30 | |

4. Check continuity between driver air bag module harness connector and ground.

| Driver side air bag module harness con- nector | Terminal | Ground | Continuity |
|---|----------|--------|-------------|
| M302 | 10 | | Not evicted |
| 101302 | 11 | | |
| M301 | 12 | † | Not existed |
| | 9 | | |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace combination switch (spiral cable). Refer to <u>SR-14, "Exploded View"</u>.

4.REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to <u>SR-11, "Exploded View"</u>

2. Perform DTC confirmation procedure. Refer to <u>SRC-49, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 5.

NO >> INSPECTION END

5.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>

2. Perform DTC confirmation procedure. Refer to <u>SRC-49, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1050, B1055 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1050, B1055 DRIVER AIRBAG MODULE

Description

For driver air bag module, crash is judged by main "G" sensor output signal and safing algorithm in front direc-

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Driver air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Driver air bag module is installed on the center of steering wheel with fixed bolts.

DTC Logic

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INFOID:000000005241105

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|----------------|---|--|--|
| B1050 B1055 | DRIVER AIRBAG MOD- ULE [VB-SHORT] | Driver air bag module circuit is shorted to some power supply circuit (including the spiral cable) | Disconnection of wiring harness and short Malfunction in driver air bag module Malfunction in spiral cable Malfunction in air bag diagnosis sen- sor unit |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

1. Turn ignition switch ON.

2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

1. Turn ignition switch ON.

2. Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. **NOTE:**

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-51, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

B1050, B1055 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.CHECK SPIRAL CABLE CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect driver air bag module harness connector and combination switch (spiral cable) harness connector.
- 3. Check continuity between driver air bag module harness connector and combination switch (spiral cable) harness connector.

| Driver air bag module har- ness connector | Terminal | combination switch (spiral ca- ble) harness connector | Terminal | Continuity |
|--|----------|---|----------|------------|
| M302 | 10 | | 28 | |
| | 11 | M25 | 30 | Eviated |
| M301 | 12 | M35 | 29 | Existed |
| | 9 | | 30 | |

4. Check continuity between driver air bag module harness connector and ground.

| Driver side air bag module harness con- nector | Terminal | | Continuity |
|---|----------|-------------------|-------------|
| M302 | 10 | Ground Not existe | |
| 101502 | 11 | | Not evicted |
| M301 | 12 | | NUL EXISTED |
| M301 | 9 | | |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace combination switch (spiral cable). Refer to <u>SR-14, "Exploded View"</u>.

4.REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to <u>SR-11, "Exploded View"</u>

2. Perform DTC confirmation procedure. Refer to <u>SRC-49, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 5.

NO >> INSPECTION END

5.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25. "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-51, "DTC Logic"</u>.

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

B1051, B1056 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1051, B1056 DRIVER AIRBAG MODULE

Description

For driver air bag module, crash is judged by main "G" sensor output signal and safing algorithm in front direc-

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Driver air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Driver air bag module is installed on the center of steering wheel with fixed bolts.

DTC Logic

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INFOID:000000005241106

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INFOID:000000005241108

| DT | No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|----|------------|--|---|--|---|
| | 051 056 | DRIVER AIRBAG MOD- ULE [GND-SHORT] | Driver air bag module circuit is shorted to ground (including the spiral cable) | Disconnection of wiring harness and short Malfunction in driver air bag module Malfunction in spiral cable Malfunction in air bag diagnosis sen- sor unit | G |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

1. Turn ignition switch ON.

2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

1. Turn ignition switch ON.

2. Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. **NOTE:**

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-53</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

B1051, B1056 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.CHECK SPIRAL CABLE CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect driver air bag module harness connector and combination switch (spiral cable) harness connector.
- 3. Check continuity between driver air bag module harness connector and combination switch (spiral cable) harness connector.

| Driver air bag module har- ness connector | Terminal | combination switch (spiral ca- ble) harness connector | Terminal | Continuity |
|--|----------|---|----------|------------|
| M302 | 10 | | 28 | |
| IWI302 | 11 | M25 | 30 | Eviated |
| N201 | 12 | M35 | 29 | Existed |
| M301 | 9 | | 30 | |

4. Check continuity between driver air bag module harness connector and ground.

| Driver side air bag module harness con- nector | Terminal | | Continuity |
|---|----------|-------------------|-------------|
| M302 | 10 | Ground Not existe | |
| 101502 | 11 | | Not evicted |
| M301 | 12 | | NUL EXISTED |
| M301 | 9 | | |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace combination switch (spiral cable). Refer to <u>SR-14, "Exploded View"</u>.

4.REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to <u>SR-11, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-53, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 5.

NO >> INSPECTION END

5.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25. "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-53, "DTC Logic"</u>.

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

B1052, B1057 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1052, B1057 DRIVER AIRBAG MODULE

Description

For driver air bag module, crash is judged by main "G" sensor output signal and safing algorithm in front direc-

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Driver air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Driver air bag module is installed on the center of steering wheel with fixed bolts.

DTC Logic

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INFOID:000000005241109

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INFOID:000000005241111

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|---|--------------------------------------|--|---|-----|
| B1052 B1057 | DRIVER AIRBAG MOD- ULE [SHORT] | Driver air bag module circuit are shorted to each other (including the spiral cable) | Disconnection of wiring harness and short Malfunction in driver air bag module | G |
| | | | Malfunction in spiral cable Malfunction in air bag diagnosis sensor unit | SRO |
| DTC CONFIRMAT | ION PROCEDURE | | | I |
| With CONSULT-1. Turn ignition sw | | | | I |

- 2. Perform "AIR BAG" Self Diagnostic Result.
- Without CONSULT-III
- 1. Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. **NOTE:**

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-69</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

B1052, B1057 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.CHECK SPIRAL CABLE CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect driver air bag module harness connector and combination switch (spiral cable) harness connector.
- 3. Check continuity between driver air bag module harness connector and combination switch (spiral cable) harness connector.

| Driver air bag module har- ness connector | Terminal | combination switch (spiral ca- ble) harness connector | Terminal | Continuity |
|--|----------|---|----------|------------|
| M302 | 10 | | 28 | |
| IWI302 | 11 | M25 | 30 | Eviated |
| N201 | 12 | M35 | 29 | Existed |
| M301 | 9 | | 30 | |

4. Check continuity between driver air bag module harness connector and ground.

| Driver side air bag module harness con- nector | Terminal | | Continuity |
|---|----------|-------------------|-------------|
| M302 | 10 | Ground Not existe | |
| 101502 | 11 | | Not evicted |
| M301 | 12 | | NUL EXISTED |
| M301 | 9 | | |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace combination switch (spiral cable). Refer to <u>SR-14, "Exploded View"</u>.

4.REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to <u>SR-11, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-69, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 5.

NO >> INSPECTION END

5.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-25. "Exploded View".

2. Perform DTC confirmation procedure. Refer to <u>SRC-69, "DTC Logic"</u>.

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

B1058, B1059, B1060, B1061, B1062, B1063 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1058, B1059, B1060, B1061, B1062, B1063 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

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INFOID:000000005241112

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|---|------------------------|--|--|---|
| B1058 B1059 B1060 B1061 B1062 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sensor unit Configuration in air bag diagnosis sensor unit does not match the vehicles specification | S |
| B1063 | | | | |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. NOTE:

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-57, "Diagnosis Procedure"</u>. NO >> INSPECTION END

Diagnosis Procedure

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WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

B1058, B1059, B1060, B1061, B1062, B1063 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-57. "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1065, B1070 ASSIST A/B MODULE

Description

For front passenger air bag module, crash is judged by main "G" sensor output signal and safing algorithm in front direction.

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Front passenger air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Front passenger air bag module is installed on the instrument panel with fixed bolts.

DTC Logic

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INFOID:000000005241115

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---|---|---|---|
| B1065 B1070 | ASSIST A/B MODULE [OPEN] | Front passenger air bag module circuit is open | Disconnection of wiring harness and open Malfunction in front passenger air bag module Malfunction in air bag diagnosis sensor unit |
| DTC CONFIRMAT | ION PROCEDURE | | |
| 1. CHECK SELF-DI | AG RESULT | | |
| With CONSULT-I Turn ignition swi Perform "AIR B/ Without CONSUL | itch ON. AG" Self Diagnostic Re | esult. | |
| . Turn ignition swi | itch ON. | s. Refer to <u>SRC-16, "Air Bag Warr</u> | ing Lamp Diagnosis" |
| NOTE: | | | |
| s malfunctioning pa | rt detected? SRC-59, "Diagnosis F | nalfunction is detected in user mo Procedure". | de. |
| Diagnosis Proce | edure | | INF0ID:00000005241117 |
| minutes. (To disc | , turn ignition switch harge backup capaci cified tester or other | itor.) | ive terminal and wait at least 3 |
| 1. CHECK HARNES | | | |
| Check the harness of | connector. | | |
| s the inspection res | | | |
| YES >> GO TO NO >> Replace | 2. harness connector. | | |
| | | | |

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

B1065, B1070 ASSIST A/B MODULE

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE FRONT PASSENGER AIR BAG MODULE

- Replace front passenger air bag module. Refer to <u>SR-17, "Exploded View"</u>
 Perform DTC confirmation procedure. Refer to <u>SRC-59, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

Perform DTC confirmation procedure. Refer to SRC-59, "DTC Logic". 2.

Is DTC detected?

YES >> GO TO 1.

B1066, B1071 ASSIST A/B MODULE

Description

For front passenger air bag module, crash is judged by main "G" sensor output signal and safing algorithm in front direction.

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Front passenger air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Front passenger air bag module is installed on the instrument panel with fixed bolts.

DTC Logic

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INFOID:000000005241118

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|--|--|--|--|
| B1066 B1071 | ASSIST A/B MODULE [VB-SHORT] | Front passenger air bag module circuit is shorted to some power supply circuit | Disconnection of wiring harness and short Malfunction in front passenger air bag module Malfunction in air bag diagnosis sen- sor unit |
| DTC CONFIRMATI | ON PROCEDURE | | |
| 1.CHECK SELF-DI | AG RESULT | | |
| With CONSULT-II Turn ignition swit Perform "AIR BA Without CONSUL | tch ON. \G" Self Diagnostic Re | esult. | |
| NOTE: | g warning lamp status | . Refer to <u>SRC-16, "Air Bag Warn</u> | |
| Is malfunctioning par | t detected? SRC-61, "Diagnosis F | nalfunction is detected in user mo Procedure". | de. |
| Diagnosis Proce | dure | | INF0ID:00000005241120 |
| minutes. (To discl | turn ignition switch harge backup capaci ified tester or other | tor.) | ive terminal and wait at least 3 |
| 1. CHECK HARNES | | | |
| Check the harness c | onnector. | | |
| Is the inspection resu | | | |
| YES >> GO TO 2 NO >> Replace | 2. harness connector. | | |
| 2.CHECK WIRING | HARNESS | | |
| Chook the wiring her | noon ovtornolo | | |

Check the wiring harness externals.

Is the inspection result normal?

B1066, B1071 ASSIST A/B MODULE

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE FRONT PASSENGER AIR BAG MODULE

- Replace front passenger air bag module. Refer to <u>SR-17</u>, "Exploded View".
 Perform DTC confirmation procedure. Refer to <u>SRC-61</u>, "DTC Logic".

Is DTC detected?

- YES >> GO TO 4.
- NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
- Perform DTC confirmation procedure. Refer to SRC-61, "DTC Logic". 2.

Is DTC detected?

YES >> GO TO 1.

B1067, B1072 ASSIST A/B MODULE

Description

For front passenger air bag module, crash is judged by main "G" sensor output signal and safing algorithm in front direction.

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Front passenger air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Front passenger air bag module is installed on the instrument panel with fixed bolts.

DTC Logic

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INFOID:000000005241121

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INFOID:000000005241123

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
| B1067 B1072 | ASSIST A/B MODULE [GND-SHORT] | Front passenger air bag module circuit is shorted to ground | Disconnection of wiring harness and short Malfunction in front passenger air bag module Malfunction in air bag diagnosis sen- sor unit | G SR |
| DTC CONFIRMA | TION PROCEDURE | | | |
| 1.CHECK SELF- | DIAG RESULT | | | I |
| With CONSULT 1. Turn ignition s 2. Perform "AIR Without CONSULT | witch ON. BAG" Self Diagnostic Re | esult. | | J |
| 1. Turn ignition s | witch ON. | s. Refer to <u>SRC-16, "Air Bag Warr</u> | ning Lamp Diagnosis". | K |
| SRS does not enter Is malfunctioning p | • | malfunction is detected in user mo | ode. | L |
| is manufictioning p | Dan uelecieu? | | | _ |

YES >> Refer to <u>SRC-63</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connector.

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

B1067, B1072 ASSIST A/B MODULE

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE FRONT PASSENGER AIR BAG MODULE

- Replace front passenger air bag module. Refer to <u>SR-17, "Exploded View"</u>
 Perform DTC confirmation procedure. Refer to <u>SRC-63, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

Perform DTC confirmation procedure. Refer to SRC-63, "DTC Logic". 2.

Is DTC detected?

YES >> GO TO 1.

B1068, B1073 ASSIST A/B MODULE

Description

For front passenger air bag module, crash is judged by main "G" sensor output signal and safing algorithm in front direction.

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Front passenger air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Front passenger air bag module is installed on the instrument panel with fixed bolts.

DTC Logic

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INFOID:000000005241124

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---|---|---|--|
| B1068 B1073 | ASSIST A/B MODULE [SHORT] | Front passenger air bag module circuits are shorted to each other | Disconnection of wiring harness and short Malfunction in front passenger air bag module Malfunction in air bag diagnosis sen- sor unit |
| DTC CONFIRMATI | ON PROCEDURE | | |
| 1. CHECK SELF-DIA | AG RESULT | | |
| 🕱 Without CONSUL | tch ON. ∖G" Self Diagnostic Re T-III | esult. | |
| NOTE: | g warning lamp status | . Refer to <u>SRC-16, "Air Bag Warr</u> nalfunction is detected in user mo | |
| Is malfunctioning par | <u>t detected?</u> <u>SRC-65, "Diagnosis F</u> | | |
| Diagnosis Proce | dure | | INFOID:00000005241126 |
| minutes. (To disch | harge backup capaci | tor.) | ive terminal and wait at least 3 |
| | cified tester or other | measuring device. | |
| 1. CHECK HARNES | | | |
| Check the harness construction results the inspection results the inspection results and the second | | | |

NO >> Replace harness connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

B1068, B1073 ASSIST A/B MODULE

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE FRONT PASSENGER AIR BAG MODULE

- Replace front passenger air bag module. Refer to <u>SR-17, "Exploded View"</u>
 Perform DTC confirmation procedure. Refer to <u>SRC-65, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

Perform DTC confirmation procedure. Refer to SRC-65, "DTC Logic". 2.

Is DTC detected?

YES >> GO TO 1.

B1074, B1075, B1076, B1077, B1078, B1079 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1074, B1075, B1076, B1077, B1078, B1079 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

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INFOID:000000005241127

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | (|
|--|------------------------|--|--|---|
| B1074 B1075 B1076 B1077 B1078 B1079 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sensor unit Configuration in air bag diagnosis sensor unit does not match the vehicles specification | S |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

- 1. Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. **NOTE:**

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-67, "Diagnosis Procedure"</u>. NO >> INSPECTION END

Diagnosis Procedure

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INFOID:000000005241129

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WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

B1074, B1075, B1076, B1077, B1078, B1079 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-67. "DTC Logic"</u>.
- Is DTC detected?

YES >> GO TO 1.

B1080, B1096 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1080, B1096 DRIVER AIRBAG MODULE

Description

For driver air bag module, crash is judged by main "G" sensor output signal and safing algorithm in front direc-

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Driver air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Driver air bag module is installed on the center of steering wheel with fixed bolts.

DTC Logic

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INFOID:000000005241130

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INFOID:000000005241132

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|--|--------------------------------------|--|--|----------|
| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
| B1080 B1096 | DRIVER AIRBAG MOD- ULE [SHORT] | Driver air bag module circuit are shorted to each other (including the spiral cable) | Disconnection of wiring harness and short Malfunction in driver air bag module Malfunction in spiral cable Malfunction in air bag diagnosis sensor unit | G SRC |
| DTC CONFIRMATI | ON PROCEDURE | | | |
| 1.CHECK SELF-DIA | AG RESULT | | | |
| With CONSULT-II Turn ignition swit Perform "AIR BA Without CONSUL | tch ON. \G" Self Diagnostic Re | esult. | | J |
| 1. Turn ignition swit | tch ON. | . Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". | К |
| SRS does not enter diagnosis mode if no malfunction is detected in user mode. <u>Is malfunctioning part detected?</u> YES >> Refer to <u>SRC-69, "Diagnosis Procedure"</u> . | | | | L |

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

NO >> Replace harness connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

B1080, B1096 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.CHECK SPIRAL CABLE CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect driver air bag module harness connector and Combination switch (Spiral cable) harness connector.

Check continuity between driver side air bag module harness connector and body side harness connector.

| Driver side air bag module harness connector | Terminal | Body side harness connector | Terminal | Continuity |
|---|----------|--------------------------------|----------|------------|
| M302 | 10 | - - M35 | 28 | - Existed |
| 101302 | 11 | | 30 | |
| M204 | 12 | | 29 | |
| M301 | 9 | | 30 | |

4. Check continuity between driver air bag module harness connector and ground.

| Driver side air bag module harness con- nector | Terminal | | Continuity |
|---|----------|--------|-------------|
| Maga | 10 | Ground | Not existed |
| M302 | 11 | | |
| M301 | 12 | | |
| 101301 | 9 | | |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace spiral cable. Refer to <u>SR-14, "Exploded View"</u>.

4.REPLACE DRIVER AIR BAG MODULE

- 1. Replace driver air bag module. Refer to <u>SR-11. "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-69, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 5.

NO >> INSPECTION END

5.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-69, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1081 PRE-TEN FRONT RH

Description

For front RH seat belt pre-tensioner, crash is judged by main "G" sensor output signal and safing algorithm in front direction.

OPERATION

In the case of a frontal collision that exceeds specified impact level, the air bag diagnosis sensor unit detects the deceleration caused by collision. It restrains the passenger with seat belt easing the stress on passengers chest with load limiter.

STRUCTURE

The restraint system for front seat occupant consists of the pre-tensioner mechanism and load limiter mechanism.

INSTALLATION

Front RH seat belt pre-tensioner is installed on the underside of center pillar with fixed nuts.

DTC Logic

INFOID:000000005241134

INFOID:000000005241133

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|--|---|--|--|---|
| B1081 | PRE-TEN FRONT RH [OPEN] | Front RH seat belt pre-tensioner circuit is open | Disconnection of wiring harness and open Malfunction in front RH seat belt pretensioner Malfunction in air bag diagnosis sensor unit | G |
| DTC CONFIRMATI | ION PROCEDURE | | | I |
| 1.CHECK SELF-DI | AG RESULT | | | |
| _ | tch ON. \G" Self Diagnostic Re | esult. | | J |
| Without CONSUL Turn ignition swi Check the air ba NOTE: | tch ON. | s. Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". | K |
| - | diagnosis mode if no r | nalfunction is detected in user mo | de. | L |
| Is malfunctioning par | |) | | |
| YES >> Refer to NO >> INSPEC | <u>SRC-71, "Diagnosis F</u> TION END | <u>rocedure</u> . | | M |
| Diagnosis Proce | edure | | INFOID:000000005241135 | ; |
| WARNING: | | | | Ν |
| • Before servicing, | turn ignition switch harge backup capaci | OFF, disconnect battery negat | ive terminal and wait at least 3 | |
| | cified tester or other | | | 0 |
| 1. CHECK HARNES | S CONNECTOR | | | |
| Check the harness c | connector. | | | Р |
| Is the inspection resu | | | | |
| YES >> GO TO 2 NO >> Replace | 2. harness connector. | | | |
| 2.CHECK WIRING | | | | |
| Check the wiring har | | | | |
| Is the inspection resu | | | | |

B1081 PRE-TEN FRONT RH

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE FRONT SEAT BELT PRE-TENSIONER

Replace front RH seat belt pre-tensioner. Refer to <u>SB-6, "SEAT BELT RETRACTOR : Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-71, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-71, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1082 PRE-TEN FRONT RH

Description

For front RH seat belt pre-tensioner, crash is judged by main "G" sensor output signal and safing algorithm in front direction.

OPERATION

In the case of a frontal collision that exceeds specified impact level, the air bag diagnosis sensor unit detects the deceleration caused by collision. It restrains the passenger with seat belt easing the stress on passengers chest with load limiter.

STRUCTURE

The restraint system for front seat occupant consists of the pre-tensioner mechanism and load limiter mechanism.

INSTALLATION

Front RH seat belt pre-tensioner is installed on the underside of center pillar with fixed nuts.

DTC Logic

INFOID:000000005241137

INFOID:000000005241136

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | G |
|---|---|--|--|------|
| B1082 | PRE-TEN FRONT RH | Front RH seat belt pre-tensioner circuit | Disconnection of wiring harness and about | G |
| | [VB-SHORT] | is shorted to some power supply circuit | shortMalfunction in front RH seat belt pre- | |
| | | | tensioner | SR |
| | | | Malfunction in air bag diagnosis sen- sor unit | |
| DTC CONFIRMA | TION PROCEDURE | | | |
| 1.CHECK SELF-D | DIAG RESULT | | | |
| () With CONSULT | | | | J |
| 1. Turn ignition sv 2. Perform "AIR E | witch ON. 3AG" Self Diagnostic Re | esult | | |
| 🕱 Without CONSL | JLT-III | | | K |
| Turn ignition sv Check the air b | | s. Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis" | I.V. |
| NOTE: | | | | |
| | • | malfunction is detected in user mo | de. | L |
| Is malfunctioning p YES >> Refer t | a <u>rt detected?</u> to <u>SRC-73, "Diagnosis I</u> | Procedure" | | |
| | CTION END | <u>locedule</u> . | | M |
| Diagnosis Proc | cedure | | INFOID:000000005241138 | |
| WARNING: | | | | Ν |
| | | OFF, disconnect battery negat | ive terminal and wait at least 3 | |
| | charge backup capac ecified tester or other | | | 0 |
| 1 .CHECK HARNE | ESS CONNECTOR | - | | |
| Check the harness | connector. | | | Р |
| Is the inspection re | | | | |
| YES >> GO TO NO >> Replace | 0 2. ce harness connector. | | | |
| 2.CHECK WIRING | | | | |
| | | | | |
| Check the wiring h | | | | |
| Is the inspection re | <u>suit normal (</u> | | | |

B1082 PRE-TEN FRONT RH

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE FRONT SEAT BELT PRE-TENSIONER

Replace front RH seat belt pre-tensioner. Refer to <u>SB-6, "SEAT BELT RETRACTOR : Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-73, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-73, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1083 PRE-TEN FRONT RH

Description

For front RH seat belt pre-tensioner, crash is judged by main "G" sensor output signal and safing algorithm in В front direction.

OPERATION

In the case of a frontal collision that exceeds specified impact level, the air bag diagnosis sensor unit detects С the deceleration caused by collision. It restrains the passenger with seat belt easing the stress on passengers chest with load limiter.

STRUCTURE

The restraint system for front seat occupant consists of the pre-tensioner mechanism and load limiter mechanism.

INSTALLATION

Front RH seat belt pre-tensioner is installed on the underside of center pillar with fixed nuts.

DTC Logic

INFOID:000000005241140 F

INFOID:000000005241139

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|--|--------------------------------------|--|--|
| B1083 | PRE-TEN FRONT RH | Front RH seat belt pre-tensioner circuit | Disconnection of wiring harness and |
| | [GND-SHORT] | is shorted to ground | shortMalfunction in front RH seat belt pre- |
| | | | tensioner |
| | | | Malfunction in air bag diagnosis sen- sor unit |
| | | | |
| | TION PROCEDURE | | |
| 1.CHECK SELF-D | DIAG RESULT | | |
| With CONSULT | | | |
| 1. Turn ignition sv 2. Perform "AIR B | witch ON. 3AG" Self Diagnostic Re | acult | |
| Without CONSL | - | | |
| 1. Turn ignition sv | witch ON. | | |
| | bag warning lamp status | s. Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". |
| NOTE: SRS does not ente | er diagnosis mode if no i | malfunction is detected in user mo | de. |
| Is malfunctioning p | - | | |
| | to <u>SRC-75, "Diagnosis I</u> | Procedure". | |
| NO >> INSPE | CTION END | | |
| Diagnosis Proc | cedure | | INFOID:00000005241141 |
| WARNING: | | | |
| Before servicing | | OFF, disconnect battery negat | ive terminal and wait at least 3 |
| | charge backup capac | | |
| | ecified tester or other | measuring device. | |
| I.CHECK HARNE | ESS CONNECTOR | | |
| Check the harness | | | |
| Is the inspection re | | | |
| YES >> GO TO NO >> Replace | 0 2. ce harness connector. | | |
| 2.CHECK WIRING | | | |
| | | | |
| Check the wiring h | | | |
| Is the inspection re | esult normal? | | |

B1083 PRE-TEN FRONT RH

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE FRONT SEAT BELT PRE-TENSIONER

Replace front RH seat belt pre-tensioner. Refer to <u>SB-6, "SEAT BELT RETRACTOR : Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-75, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-75, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1084 PRE-TEN FRONT RH

Description

For front RH seat belt pre-tensioner, crash is judged by main "G" sensor output signal and safing algorithm in В front direction.

OPERATION

In the case of a frontal collision that exceeds specified impact level, the air bag diagnosis sensor unit detects С the deceleration caused by collision. It restrains the passenger with seat belt easing the stress on passengers chest with load limiter.

STRUCTURE

The restraint system for front seat occupant consists of the pre-tensioner mechanism and load limiter mechanism.

INSTALLATION

Front RH seat belt pre-tensioner is installed on the underside of center pillar with fixed nuts.

DTC Logic

INFOID:000000005241143 F

INFOID:000000005241142

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|--|--|--|--|
| B1084 | PRE-TEN FRONT RH | Front RH seat belt pre-tensioner circuit | Disconnection of wiring harness and short |
| | [SHORT] | are shorted to each other | Malfunction in front RH seat belt pre- |
| | | | tensioner |
| | | | Malfunction in air bag diagnosis sen- sor unit |
| DTC CONFIRMA | TION PROCEDURE | | |
| 1.CHECK SELF- | DIAG RESULT | | |
| With CONSULT | | | |
| 1. Turn ignition s 2. Perform "AIR I | witch ON. BAG" Self Diagnostic Re | esult. | |
| 🛞 Without CONSL | JLT-III | | |
| Turn ignition s Check the air I | | s. Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". |
| NOTE: | | | |
| | • | malfunction is detected in user mo | de. |
| Is malfunctioning p YES >> Refer | to <u>SRC-77, "Diagnosis I</u> | Procedure" | |
| | ECTION END | locedure. | |
| Diagnosis Proc | cedure | | INF0/D:00000005241144 |
| WARNING: | | | |
| | | OFF, disconnect battery negat | ive terminal and wait at least 3 |
| | scharge backup capac becified tester or other | | |
| | ESS CONNECTOR | 5 1 1 | |
| Check the harness | s connector. | | |
| Is the inspection re | | | |
| YES >> GO TO NO >> Replace | - | | |
| ^ | ce harness connector. | | |
| 2.CHECK WIRING | | | |
| Check the wiring h | | | |
| Is the inspection re | esuit normal? | | |

B1084 PRE-TEN FRONT RH

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE FRONT SEAT BELT PRE-TENSIONER

Replace front RH seat belt pre-tensioner. Refer to <u>SB-6, "SEAT BELT RETRACTOR : Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-77, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-77, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1086 PRE-TEN FRONT LH

Description

For front LH seat belt pre-tensioner, crash is judged by main "G" sensor output signal and safing algorithm in front direction.

OPERATION

In the case of a frontal collision that exceeds specified impact level, the air bag diagnosis sensor unit detects the deceleration caused by collision. It restrains the passenger with seat belt easing the stress on passengers chest with load limiter.

STRUCTURE

The restraint system for front seat occupant consists of the pre-tensioner mechanism and load limiter mechanism.

INSTALLATION

Front LH seat belt pre-tensioner is installed on the underside of center pillar with fixed nuts.

DTC Logic

INFOID:000000005241146

INFOID:000000005241145

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|-------------------------------|--|--|--|
| B1086 | PRE-TEN FRONT LH [OPEN] | Front LH seat belt pre-tensioner circuit is open | Disconnection of wiring harness and open Malfunction in front LH seat belt pretensioner Malfunction in air bag diagnosis sensor unit |
| DTC CONFIRMA | TION PROCEDURE | | · |
| 1.CHECK SELF-D | DIAG RESULT | | |
| | witch ON. 3AG" Self Diagnostic Re | esult. | |
| | witch ON. | s. Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". |
| NOTE: SRS does not ente | r diagnosis mode if no i | malfunction is detected in user mo | de. |
| Is malfunctioning p | | | |
| | o <u>SRC-79, "Diagnosis I</u> CTION END | Procedure". | |
| Diagnosis Proc | cedure | | INFOID:000000005241147 |
| WARNING: | | | |
| | g, turn ignition switch charge backup capac | | ive terminal and wait at least 3 |
| | ecified tester or other | | |
| 1. CHECK HARNE | SS CONNECTOR | | |
| Check the harness | connector. | | |
| Is the inspection re | | | |
| YES >> GO TO NO >> Replace |) 2. ce harness connector. | | |
| 2.CHECK WIRING | | | |
| Check the wiring ha | | | |
| Is the inspection re | | | |

B1086 PRE-TEN FRONT LH

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE FRONT SEAT BELT PRE-TENSIONER

1. Replace front LH seat belt pre-tensioner. Refer to <u>SB-6. "SEAT BELT RETRACTOR : Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to SRC-79, "DTC Logic".

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-79, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1087 PRE-TEN FRONT LH

Description

For front LH seat belt pre-tensioner, crash is judged by main "G" sensor output signal and safing algorithm in front direction.

OPERATION

In the case of a frontal collision that exceeds specified impact level, the air bag diagnosis sensor unit detects the deceleration caused by collision. It restrains the passenger with seat belt easing the stress on passengers chest with load limiter.

STRUCTURE

The restraint system for front seat occupant consists of the pre-tensioner mechanism and load limiter mechanism.

DTC detecting condition

INSTALLATION

DTC No.

Front LH seat belt pre-tensioner is installed on the underside of center pillar with fixed nuts.

Trouble diagnosis name

DTC Logic

INFOID:000000005241149

Possible cause

INFOID:000000005241148

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| DICINO. | Housie diagnosis name | DTC detecting condition | I USSIDIE CAUSE |
|---|---|---|---|
| B1087 | PRE-TEN FRONT LH [VB-SHORT] | Front LH seat belt pre-tensioner circuit is shorted to some power supply circuit | Disconnection of wiring harness and short Malfunction in front LH seat belt pretensioner Malfunction in air bag diagnosis sensor unit |
| DTC CONFIRMATI | ON PROCEDURE | | |
| 1.CHECK SELF-DIA | AG RESULT | | |
| With CONSULT-II Turn ignition swit Perform "AIR BA | | esult. | |
| Without CONSUL Turn ignition swit Check the air ba NOTE: | tch ON. | . Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". |
| - | diagnosis mode if no r | nalfunction is detected in user mo | de. |
| Is malfunctioning par | t detected? | | |
| YES >> Refer to NO >> INSPEC | <u>SRC-81, "Diagnosis F</u> TION END | Procedure". | r |
| Diagnosis Proce | dure | | INFOID:000000005241150 |
| minutes. (To disch | harge backup capaci cified tester or other | | ive terminal and wait at least 3 |
| Check the harness c | onnector. | | |
| Is the inspection resu | ult normal? | | |
| ^ | harness connector. | | |
| 2.CHECK WIRING | HARNESS | | |
| Check the wiring har | ness externals. | | |

Is the inspection result normal?

B1087 PRE-TEN FRONT LH

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE FRONT SEAT BELT PRE-TENSIONER

1. Replace front LH seat belt pre-tensioner. Refer to <u>SB-6. "SEAT BELT RETRACTOR : Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-81, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to SRC-81, "DTC Logic".

Is DTC detected?

YES >> GO TO 1.

B1088 PRE-TEN FRONT LH

< DTC/CIRCUIT DIAGNOSIS >

B1088 PRE-TEN FRONT LH

Description

For front LH seat belt pre-tensioner, crash is judged by main "G" sensor output signal and safing algorithm in В front direction.

OPERATION

In the case of a frontal collision that exceeds specified impact level, the air bag diagnosis sensor unit detects С the deceleration caused by collision. It restrains the passenger with seat belt easing the stress on passengers chest with load limiter.

STRUCTURE

The restraint system for front seat occupant consists of the pre-tensioner mechanism and load limiter mechanism.

INSTALLATION

Front LH seat belt pre-tensioner is installed on the underside of center pillar with fixed nuts.

DTC Logic

INFOID:000000005241152 F

INFOID:000000005241151

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|--|---|---|--|----------|
| B1088 | PRE-TEN FRONT LH [GND-SHORT] | Front LH seat belt pre-tensioner circuit is shorted to ground | Disconnection of wiring harness and short Malfunction in front LH seat belt pre- tensioner Malfunction in air bag diagnosis sen- | G SR(|
| | | | sor unit | |
| DTC CONFIRMA | TION PROCEDURE | | | |
| 1.CHECK SELF- | DIAG RESULT | | | |
| (B) With CONSULT | Γ-ΙΙΙ | | | J |
| Turn ignition s Perform "AIR | witch ON. BAG" Self Diagnostic Re | acult | | |
| Without CONS | ULT-III | -5011. | | IZ. |
| Turn ignition s Check the air | | s. Refer to <u>SRC-16, "Air Bag Warr</u> | ing Lamp Diagnosis" | Κ |
| NOTE: | | | | |
| | - | malfunction is detected in user mo | ode. | L |
| <u>Is malfunctioning p</u> YES >> Refer | <u>part detected?</u> to <u>SRC-83, "Diagnosis I</u> | Procedure" | | |
| | ECTION END | -locedule | | M |
| Diagnosis Pro | cedure | | INFOID:000000005241153 | |
| | | | | Ν |
| • Before servicin | g, turn ignition switch | OFF, disconnect battery negat | ive terminal and wait at least 3 | |
| | scharge backup capac becified tester or other | | | \circ |
| | ESS CONNECTOR | measuring device. | | 0 |
| | | | | |
| Check the harness | | | | Ρ |
| <u>Is the inspection re</u> YES >> GO TO | | | | |
| | ce harness connector. | | | |
| 2.CHECK WIRIN | G HARNESS | | | |
| Chook the wiring h | ornoon ovtornolo | | | |

Check the wiring harness externals.

Is the inspection result normal?

B1088 PRE-TEN FRONT LH

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE FRONT SEAT BELT PRE-TENSIONER

Replace front LH seat belt pre-tensioner. Refer to <u>SB-6, "SEAT BELT RETRACTOR : Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-83, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>. 1.

2. Perform DTC confirmation procedure. Refer to SRC-83, "DTC Logic".

Is DTC detected?

YES >> GO TO 1.

B1089 PRE-TEN FRONT LH

< DTC/CIRCUIT DIAGNOSIS >

B1089 PRE-TEN FRONT LH

Description

For front LH seat belt pre-tensioner, crash is judged by main "G" sensor output signal and safing algorithm in front direction.

OPERATION

In the case of a frontal collision that exceeds specified impact level, the air bag diagnosis sensor unit detects the deceleration caused by collision. It restrains the passenger with seat belt easing the stress on passengers chest with load limiter.

STRUCTURE

The restraint system for front seat occupant consists of the pre-tensioner mechanism and load limiter mechanism.

DTC detecting condition

INSTALLATION

DTC No.

Front LH seat belt pre-tensioner is installed on the underside of center pillar with fixed nuts.

Trouble diagnosis name

DTC Logic

INFOID:000000005241155

Possible cause

INFOID:000000005241154

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| DICINO. | Housie diagnosis name | Die delecting condition | r ussible cause |
|---|---|--|---|
| B1089 | PRE-TEN FRONT LH [SHORT] | Front LH seat belt pre-tensioner circuit are shorted to each other | Disconnection of wiring harness and short Malfunction in front LH seat belt pre- tensioner Malfunction in air bag diagnosis sen- sor unit |
| DTC CONFIRMATI | ON PROCEDURE | | |
| 1.CHECK SELF-DIA | AG RESULT | | |
| With CONSULT-II Turn ignition swit Perform "AIR BA | | esult. | |
| Without CONSUL Turn ignition swit Check the air ba NOTE: | tch ON. | s. Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". |
| - | diagnosis mode if no r | malfunction is detected in user mo | de. |
| Is malfunctioning par | | | |
| YES >> Refer to NO >> INSPEC | <u>SRC-85, "Diagnosis F</u> TION END | Procedure". | |
| Diagnosis Proce | dure | | INFOID:00000005241156 |
| minutes. (To discl | harge backup capaci tified tester or other | itor.) | ive terminal and wait at least 3 |
| Check the harness c | onnector. | | |
| Is the inspection resu | | | |
| YES >> GO TO 2 NO >> Replace | 2. harness connector. | | |
| 2.CHECK WIRING | | | |
| Check the wiring har | | | |
| - | | | |

Is the inspection result normal?

B1089 PRE-TEN FRONT LH

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE FRONT SEAT BELT PRE-TENSIONER

Replace front LH seat belt pre-tensioner. Refer to <u>SB-6</u>, "<u>SEAT BELT RETRACTOR</u> : <u>Exploded View</u>".
 Perform DTC confirmation procedure. Refer to <u>SRC-85</u>, "<u>DTC Logic</u>".

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to SR-25, "Exploded View". 1.

2. Perform DTC confirmation procedure. Refer to SRC-85, "DTC Logic".

Is DTC detected?

YES >> GO TO 1.

B1090, B1091, B1092, B1093 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1090, B1091, B1092, B1093 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

INFOID:000000005241158

INFOID:000000005241157

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INFOID:000000005241159

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | 0 |
|----------------|------------------------|--|--|----|
| B1090 B1091 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sen- sor unit | G |
| B1092 B1093 | | | Configuration in air bag diagnosis sensor unit does not match the vehi- cles specification | SR |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

1. Turn ignition switch ON.

2. Perform "AIR BAG" Self Diagnostic Result.

🛞 Without CONSULT-III

1. Turn ignition switch ON.

2. Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. **NOTE:**

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-119</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

B1090, B1091, B1092, B1093 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-119, "DTC Logic"</u>.

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

B1106, B1107, B1108, B1109, B1110, B1111 DIAGNOSIS SENSOR UNIT < DTC/CIRCUIT DIAGNOSIS >

B1106, B1107, B1108, B1109, B1110, B1111 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

INFOID:000000005241161

INFOID:000000005241160

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|--|------------------------|--|--|---|
| B1106 B1107 B1108 B1109 B1110 B1111 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sensor unit Configuration in air bag diagnosis sensor unit does not match the vehicles specification | S |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. NOTE:

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-89, "Diagnosis Procedure"</u>. NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

INFOID:000000005241162

B1106, B1107, B1108, B1109, B1110, B1111 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-89. "DTC Logic"</u>.
- Is DTC detected?

YES >> GO TO 1.

B1113, B1114 SATELLITE SENS RH

< DTC/CIRCUIT DIAGNOSIS >

B1113, B1114 SATELLITE SENS RH

Description

Main "G" sensor generates signal voltage, when it detects deceleration beyond the specified level by vehicle B side collision.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of the "G" sensor and the safing algorithm to be that of collision which exceeds a specified level, the driving circuit switches on and feeds the electric ignitor of both the front side air bag and side curtain air bag.

STRUCTURE

Integrated type of the "G" sensor element for side collision with output terminals for signal voltage.

INSTALLATION

RH satellite sensor is installed at the underside of center pillar with fixed nuts.

DTC Logic

INFOID:000000005241164

INFOID:000000005241163

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|----------------|----------------------------------|---------------------------------------|--|
| B1113 B1114 | SATELLITE SENS RH [UNIT FAIL] | RH satellite sensor is malfunctioning | Disconnection of wiring harness Malfunction in RH satellite sensor Malfunction in air bag diagnosis sen- |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III1. Turn ignition switch ON.

2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

1. Turn ignition switch ON.

 Check the air bag warning lamp status. Refer to <u>SRC-16. "Air Bag Warning Lamp Diagnosis"</u>. NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to <u>SRC-91, "Diagnosis Procedure"</u>.
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000005241165

- WARNING:
 - Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
 - Never use unspecified tester or other measuring device.
 - **1.**CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Replace harness connector.

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

B1113, B1114 SATELLITE SENS RH

< DTC/CIRCUIT DIAGNOSIS >

3.REPLACE SATELLITE SENSOR

- 1. Replace RH satellite sensor. Refer to <u>SR-23, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-91, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-91. "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1115, B1116 SATELLITE SENS RH

< DTC/CIRCUIT DIAGNOSIS >

B1115, B1116 SATELLITE SENS RH

Description

Main "G" sensor generates signal voltage, when it detects deceleration beyond the specified level by vehicle B side collision.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of the "G" sensor and the safing algorithm to be that of collision which exceeds a specified level, the driving circuit switches on and feeds the electric ignitor of both the front side air bag and side curtain air bag.

STRUCTURE

Integrated type of the "G" sensor element for side collision with output terminals for signal voltage.

INSTALLATION

RH satellite sensor is installed at the underside of center pillar with fixed nuts.

DTC Logic

INFOID:000000005241167

INFOID:000000005241166

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|--|---|---|---|-----|
| B1115 B1116 | SATELLITE SENS RH [COMM FAIL] [UNMATCH] | RH satellite sensor is malfunctioning or out of the specified specification | Disconnection of wiring harness Malfunction in RH satellite sensor Malfunction in air bag diagnosis sensor unit | G |
| DTC CONFIRMATI | ON PROCEDURE | | | SRC |
| 1.CHECK SELF-DIA | AG RESULT | | | |
| With CONSULT-II Turn ignition swit Perform "AIR BA | | seult | | |
| 🛞 Without CONSUL | .T-III | Suit. | | J |
| Turn ignition swit Check the air base | | . Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". | |
| NOTE: SRS does not enter of | diagnosis mode if no r | nalfunction is detected in user mo | | Κ |
| Is malfunctioning par YES >> Refer to NO >> INSPEC | SRC-93, "Diagnosis F | Procedure". | | L |
| Diagnosis Proce | dure | | INFOID:000000005241168 | |
| WARNING: | | | | Μ |
| Before servicing, minutes. (To disch | turn ignition switch harge backup capaci sified tester or other | tor.) | ive terminal and wait at least 3 | Ν |

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

NO >> Replace harness connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

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B1115, B1116 SATELLITE SENS RH

< DTC/CIRCUIT DIAGNOSIS >

3.REPLACE SATELLITE SENSOR

- 1. Replace RH satellite sensor. Refer to <u>SR-23, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-93, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-93, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1118, B1119 SATELLITE SENS LH

< DTC/CIRCUIT DIAGNOSIS >

B1118, B1119 SATELLITE SENS LH

Description

Main "G" sensor generates signal voltage, when it detects deceleration beyond the specified level by vehicle B side collision.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of the "G" sensor and the safing algorithm to be that of collision which exceeds a specified level, the driving circuit switches on and feeds the electric ignitor of both the front side air bag and side curtain air bag.

STRUCTURE

Integrated type of the "G" sensor element for side collision with output terminals for signal voltage.

INSTALLATION

LH satellite sensor is installed at the underside of center pillar with fixed nuts.

DTC Logic

INFOID:000000005241170

INFOID:000000005241169

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|----------------|----------------------------------|---------------------------------------|--|---|
| B1118 B1119 | SATELLITE SENS LH [UNIT FAIL] | LH satellite sensor is malfunctioning | Disconnection of wiring harness Malfunction in LH satellite sensor Malfunction in air bag diagnosis sen- | G |
| | | | sor unit | |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

 With CONSULT-III Turn ignition switch ON. 1. Perform "AIR BAG" Self Diagnostic Result. 2. Without CONSULT-III Turn ignition switch ON. 1. Check the air bag warning lamp status. Refer to SRC-16, "Air Bag Warning Lamp Diagnosis". 2. NOTE: SRS does not enter diagnosis mode if no malfunction is detected in user mode. Is malfunctioning part detected? YES >> Refer to <u>SRC-95, "Diagnosis Procedure"</u>. NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000005241171

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 WARNING:

 • Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)

 • Never use unspecified tester or other measuring device.

 1.CHECK HARNESS CONNECTOR

 Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Replace harness connector.

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

B1118, B1119 SATELLITE SENS LH

< DTC/CIRCUIT DIAGNOSIS >

3.REPLACE SATELLITE SENSOR

- 1. Replace LH satellite sensor. Refer to <u>SR-23, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-95, "DTC Logic"</u>

Is DTC detected?

- YES >> GO TO 4.
- NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-95. "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1120, B1121 SATELLITE SENS LH

< DTC/CIRCUIT DIAGNOSIS >

B1120, B1121 SATELLITE SENS LH

Description

Main "G" sensor generates signal voltage, when it detects deceleration beyond the specified level by vehicle B side collision.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of the "G" sensor and the safing algorithm to be that of collision which exceeds a specified level, the driving circuit switches on and feeds the electric ignitor of both the front side air bag and side curtain air bag.

STRUCTURE

Integrated type of the "G" sensor element for side collision with output terminals for signal voltage.

INSTALLATION

LH satellite sensor is installed at the underside of center pillar with fixed nuts.

DTC Logic

INFOID:000000005241173

INFOID:000000005241172

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|--|---|--|---|-----|
| B1120 B1121 | SATELLITE SENS LH [COMM FAIL] [UNMATCH] | LH satellite sensor is malfunctioning or out of the specified specification | Disconnection of wiring harness Malfunction in LH satellite sensor Malfunction in air bag diagnosis sensor unit | G |
| DTC CONFIRMAT | | | Sof unit | SRC |
| 1.CHECK SELF-DIAG RESULT | | | | |
| With CONSULT-III Turn ignition switch ON. | | | | |

2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

1. Turn ignition switch ON.

2. Check the air bag warning lamp status. Refer to <u>SRC-16. "Air Bag Warning Lamp Diagnosis"</u>. **NOTE:**

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-97, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

INFOID:000000005241174

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Replace harness connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

B1120, B1121 SATELLITE SENS LH

< DTC/CIRCUIT DIAGNOSIS >

3.REPLACE SATELLITE SENSOR

- 1. Replace LH satellite sensor. Refer to <u>SR-23. "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-97, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25. "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to <u>SRC-97. "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 1.

B1122, B1123, B1124, B1125, B1126, B1127 DIAGNOSIS SENSOR UNIT < DTC/CIRCUIT DIAGNOSIS >

B1122, B1123, B1124, B1125, B1126, B1127 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

INFOID:000000005241176

INFOID:000000005241175

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|----------------------------------|------------------------|--|---|---|
| B1122 B1123 B1124 B1125 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sensor unit Configuration in air bag diagnosis sensor unit does not match the vehi- | S |
| B1126 B1127 | | | cles specification | |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. NOTE:

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-99, "Diagnosis Procedure"</u>. NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

INFOID:000000005241177

B1122, B1123, B1124, B1125, B1126, B1127 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-99. "DTC Logic"</u>.
- Is DTC detected?

YES >> GO TO 1.

B1129 SIDE MODULE RH

Description

For front RH side air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Front RH side air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Front RH side air bag module is installed on the side of front seat back with fixed nuts.

DTC Logic

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INFOID:000000005241178

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|---|---|--|---|----------|
| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
| B1129 | SIDE MODULE RH [OPEN] | Front RH side air bag module circuit is open | Disconnection of wiring harness and open Malfunction in front RH side air bag module Malfunction in air bag diagnosis sensor unit | G SR(|
| DTC CONFIRMA | TION PROCEDURE | | | |
| 1.CHECK SELF- | DIAG RESULT | | | |
| 🕱 Without CONSL | witch ON. BAG" Self Diagnostic Re JLT-III | esult. | | J |
| Turn ignition s Check the air b | | . <u>SRC-16, "Air Bag Warning Lamp</u> |) Diagnosis" | Κ |
| NOTE: SRS does not enter Is malfunctioning p YES >> Refer to | er diagnosis mode if no r | nalfunction is detected in user mo | | L |
| Diagnosis Proc | cedure | | INFOID:000000005241180 | M |
| minutes. (To dis • Never use unsp | g, turn ignition switch scharge backup capaci secified tester or other ESS CONNECTOR | tor.) | tive terminal and wait at least 3 | N |
| Check the harness Is the inspection re YES >> GO TO | s connector. esult normal? O 2. ce harness connector. | | | Ρ |
| Check the wiring h Is the inspection re YES >> GO TO | arness externals. esult normal? D 3. | SRC-101 | | |
| Revision: 2009 Augu | ust | 356-101 | 2010 FX35/FX50 | |

NO >> Replace wiring harness.

3. REPLACE FRONT SIDE AIR BAG MODULE

Replace front RH side air bag module. Refer to <u>SE-81, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-101, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to SRC-101, "DTC Logic".

Is DTC detected?

YES >> GO TO 1.

B1130 SIDE MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1130 SIDE MODULE RH

Description

For front RH side air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Front RH side air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Front RH side air bag module is installed on the side of front seatback with fixed nuts.

DTC Logic

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INFOID:000000005241181

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
| B1130 | SIDE MODULE RH [VB-SHORT] | Front RH side air bag module circuit is shorted to some power supply circuit | Disconnection of wiring harness and short Malfunction in front RH side air bag module Malfunction in air bag diagnosis sen- sor unit | G |
| DTC CONFIRMAT | ION PROCEDURE | | | |
| 1.CHECK SELF-DI | AG RESULT | | | |
| With CONSULT-I Turn ignition swi Perform "AIR BA Without CONSUL | itch ON. AG" Self Diagnostic Re | esult. | | J |
| 1. Turn ignition swi | itch ON. | . Refer to <u>SRC-16, "Air Bag Warr</u> | ing Lamp Diagnosis". | K |
| Is malfunctioning pa | rt detected? SRC-103, "Diagnosis | nalfunction is detected in user mo | ode. | L |
| Diagnosis Procedure | | | | M |
| minutes. (To disc | , turn ignition switch harge backup capaci cified tester or other | tor.) | ive terminal and wait at least 3 | Ν |
| 1. CHECK HARNES | SS CONNECTOR | | | 0 |
| Check the harness of Is the inspection res YES >> GO TO NO >> Replace 2.CHECK WIRING | ult normal? 2. e harness connector. | | | Ρ |
| Check the wiring har Is the inspection res YES >> GO TO | ult normal? | | | |

NO >> Replace wiring harness.

3. REPLACE FRONT SIDE AIR BAG MODULE

Replace front RH side air bag module. Refer to <u>SE-81, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-103, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to SRC-103, "DTC Logic".

Is DTC detected?

YES >> GO TO 1.

B1131 SIDE MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1131 SIDE MODULE RH

Description

For front RH side air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Front RH side air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Front RH side air bag module is installed on the side of front seatback with fixed nuts.

DTC Logic

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|--|---|---|--|---------|
| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
| B1131 | SIDE MODULE RH [GND-SHORT] | Front RH side air bag module circuit is shorted to ground | Disconnection of wiring harness and short Malfunction in front RH side air bag module Malfunction in air bag diagnosis sen- sor unit | G SR |
| DTC CONFIRMATI | ON PROCEDURE | | · | |
| 1.CHECK SELF-DIA | AG RESULT | | | |
| With CONSULT-III Turn ignition swit Perform "AIR BA Without CONSULT | tch ON. \G" Self Diagnostic Re | esult. | | J |
| 1. Turn ignition swit | tch ON. | . Refer to <u>SRC-16, "Air Bag Warr</u> | ning Lamp Diagnosis". | K |
| SRS does not enter or Is malfunctioning par | t detected? <u>SRC-105, "Diagnosis</u> | nalfunction is detected in user mo | ode. | L |
| Diagnosis Proce | dure | | INFOID:00000005241186 | M |
| minutes. (To disch | turn ignition switch narge backup capaci :ified tester or other | tor.) | tive terminal and wait at least 3 | Ν |
| 1.CHECK HARNES | S CONNECTOR | | | 0 |
| Check the harness co | | | | |
| Is the inspection result YES >> GO TO 2 NO >> Replace 2. CHECK WIRING Check the wiring hard | 2. harness connector. | | | Ρ |

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3. REPLACE FRONT SIDE AIR BAG MODULE

Replace front RH side air bag module. Refer to <u>SE-81, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-105, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to SRC-105, "DTC Logic".

Is DTC detected?

YES >> GO TO 1.

B1132 SIDE MODULE RH

Description

For front RH side air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Front RH side air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Front RH side air bag module is installed on the side of front seatback with fixed nuts.

DTC Logic

INFOID:000000005241188

INFOID:000000005241187

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|---|---|--|--|----------|
| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
| B1132 | SIDE MODULE RH [SHORT] | Front RH side air bag module circuit are shorted to each other | Disconnection of wiring harness and short Malfunction in front RH side air bag module Malfunction in air bag diagnosis sen- sor unit | G SR(|
| DTC CONFIRMAT | ION PROCEDURE | | | |
| 1.CHECK SELF-DI | IAG RESULT | | | |
| With CONSULT-II Turn ignition sw Perform "AIR Back Without CONSUL | itch ON. AG" Self Diagnostic Re | esult. | | J |
| Turn ignition sw Check the air bat | ritch ON. | s. Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". | K |
| Is malfunctioning particular to YES >> Refer to | | malfunction is detected in user mo <u>Procedure</u> ". | de. | L |
| Diagnosis Proce | edure | | INFOID:000000005241189 | M |
| minutes. (To disc | , turn ignition switch harge backup capaci cified tester or other | OFF, disconnect battery negat itor.) measuring device. | ive terminal and wait at least 3 | Ν |
| 1.CHECK HARNES | | | | 0 |
| · · | ult normal? 2. e harness connector. | | | Ρ |
| 2.CHECK WIRING | | | | |
| Check the wiring ha <u>Is the inspection res</u> YES >> GO TO | sult normal? | | | |
| | | SRC-107 | | |

NO >> Replace wiring harness.

3. REPLACE FRONT SIDE AIR BAG MODULE

Replace front RH side air bag module. Refer to <u>SE-81, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-107, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

Perform DTC confirmation procedure. Refer to SRC-107, "DTC Logic". 2.

Is DTC detected?

YES >> GO TO 1.

B1134 SIDE MODULE LH

Description

For front LH side air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Front LH side air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Front LH side air bag module is installed on the side of front seatback with fixed nuts.

DTC Logic

INFOID:000000005241191

INFOID:000000005241190

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|--|--------------------------|--|---|---|
| B1134 | SIDE MODULE LH [OPEN] | Front LH side air bag module circuit is open | Disconnection of wiring harness and open Malfunction in front LH side air bag module Malfunction in air bag diagnosis sensor unit | S |
| DTC CONFIRMATIO | ON PROCEDURE | | · | |
| 1.CHECK SELF-DIA | G RESULT | | | |
| With CONSULT-III 1. Turn ignition swit 2. Perform "AIR BA Without CONSULT | G" Self Diagnostic Re | esult. | | J |
| Turn ignition swit Check the air bac | | . Refer to <u>SRC-16, "Air Bag Warr</u> | ning Lamp Diagnosis" | K |
| NOTE: | | | | |
| SRS does not enter c | - | nalfunction is detected in user mo | ode. | L |
| YES >> Refer to | SRC-109, "Diagnosis | Procedure". | | |
| NO >> INSPECT | - | | | N |
| Diagnosis Proce | dure | | INFOID:00000005241192 | |
| minutes. (To disch | arge backup capaci | tor.) | tive terminal and wait at least 3 | Ν |
| • Never use unspec 1.CHECK HARNES | | measuring device. | | С |
| Check the harness co | | | | |
| Is the inspection resu | | | | Р |
| YES >> GO TO 2 | | | | 1 |
| · · | harness connector. | | | |
| 2.CHECK WIRING H | HARNESS | | | |

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3. REPLACE FRONT SIDE AIR BAG MODULE

Replace front LH side air bag module. Refer to <u>SE-81, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-109, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

Perform DTC confirmation procedure. Refer to SRC-109, "DTC Logic". 2.

Is DTC detected?

YES >> GO TO 1.

B1135 SIDE MODULE LH

Description

For front LH side air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Front LH side air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Front LH side air bag module is installed on the side of front seatback with fixed nuts.

DTC Logic

INFOID:000000005241194

INFOID:000000005241193

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|--|--|--|--|----|
| B1135 | SIDE MODULE LH [VB-SHORT] | Front LH side air bag module circuit is shorted to some power supply circuit | Disconnection of wiring harness and short Malfunction in front LH side air bag module | G |
| | | | Malfunction in air bag diagnosis sen- sor unit | SR |
| DTC CONFIRMA | TION PROCEDURE | | <u>.</u> | |
| 1.CHECK SELF-I | DIAG RESULT | | | I |
| With CONSULT- I. Turn ignition s 2. Perform "AIR I Without CONSU | witch ON. BAG" Self Diagnostic Re | esult. | | J |
| 1. Turn ignition s | witch ON. | s. Refer to <u>SRC-16, "Air Bag Warr</u> | ning Lamp Diagnosis". | K |
| Is malfunctioning p YES >> Refer | - | malfunction is detected in user mo | ode. | L |
| Diagnosis Proc | cedure | | INF01D:00000005241195 | Μ |
| minutes. (To dis | g, turn ignition switch scharge backup capac ecified tester or other | itor.) | tive terminal and wait at least 3 | Ν |
| 1. CHECK HARNE | ESS CONNECTOR | | | 0 |
| Check the harness | | | | |
| Is the inspection re YES >> GO TO NO >> Replace | | | | Ρ |
| 2.CHECK WIRING | | | | |
| Check the wiring h | arness externals. | | | |
| Is the inspection re | | | | |
| YES >> GO TO | J 3. | | | |
| Devision 0000 Aven | | SRC-111 | | |

NO >> Replace wiring harness.

3. REPLACE FRONT SIDE AIR BAG MODULE

Replace front LH side air bag module. Refer to <u>SE-81, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-111, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to SRC-111, "DTC Logic".

Is DTC detected?

YES >> GO TO 1.

B1136 SIDE MODULE LH

Description

For front LH side air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by С electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Front LH side air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Front LH side air bag module is installed on the side of front seatback with fixed nuts.

DTC Logic

INFOID:000000005241197

INFOID:000000005241196

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|--|--|---|--|----------|
| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
| B1136 | SIDE MODULE LH [GND-SHORT] | Front LH side air bag module circuit is shorted to ground | Disconnection of wiring harness and short Malfunction in front LH side air bag module Malfunction in air bag diagnosis sen- sor unit | G SR(|
| | TION PROCEDURE | | | |
| 1.CHECK SELF- | | | | I |
| With CONSULT 1. Turn ignition s 2. Perform "AIR Without CONSU | switch ON. BAG" Self Diagnostic Re | esult. | | J |
| 1. Turn ignition s | switch ON. | . Refer to <u>SRC-16, "Air Bag Warr</u> | ning Lamp Diagnosis". | K |
| | - | nalfunction is detected in user mo | de. | I |
| Is malfunctioning p YES >> Refer | <u>part detected?</u> to <u>SRC-113, "Diagnosis</u> | Procedure" | | |
| | ECTION END | <u>Procedure</u> . | | |
| Diagnosis Pro | cedure | | INFOID:00000005241198 | Μ |
| minutes. (To dis • Never use unsp | ng, turn ignition switch scharge backup capaci becified tester or other ESS CONNECTOR | tor.) | tive terminal and wait at least 3 | N |
| Check the harness | s connector. | | | |
| Is the inspection reYES>> GO TONO>> Repla2.CHECK WIRIN | O 2. ce harness connector. | | | Ρ |
| Check the wiring h | narness externals. | | | |
| Is the inspection re YES >> GO TO | esult normal? | | | |
| Revision: 2009 Aug | | SRC-113 | 2010 FX35/FX50 | |

NO >> Replace wiring harness.

3. REPLACE FRONT SIDE AIR BAG MODULE

Replace front LH side air bag module. Refer to <u>SE-81, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-113, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to SRC-113, "DTC Logic".

Is DTC detected?

YES >> GO TO 1.

B1137 SIDE MODULE LH

Description

For front LH side air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

Front LH side air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

Front LH side air bag module is installed on the side of front seatback with fixed nuts.

DTC Logic

INFOID:000000005241200

INFOID:000000005241199

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|--|--|--|--|----------|
| B1137 | SIDE MODULE LH [SHORT] | Front LH side air bag module circuit are shorted to each other | Disconnection of wiring harness and short Malfunction in front LH side air bag module Malfunction in air bag diagnosis sen- sor unit | G SRC |
| DTC CONFIRMA | TION PROCEDURE | | | |
| 1.CHECK SELF- | DIAG RESULT | | | |
| With CONSULT 1. Turn ignition s 2. Perform "AIR I Without CONSU | witch ON. BAG" Self Diagnostic Re | esult. | | J |
| 1. Turn ignition s | witch ON. | s. Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". | К |
| | • | malfunction is detected in user mo | de. | L |
| Is malfunctioning p YES >> Refer | <u>part detected?</u> to <u>SRC-115, "Diagnosis</u> | Procedure" | | L |
| | ECTION END | <u>riocedure</u> . | | |
| Diagnosis Prod | cedure | | INFOID:000000005241201 | Μ |
| minutes. (To dis | scharge backup capaci | | ive terminal and wait at least 3 | Ν |
| | pecified tester or other ESS CONNECTOR | measuring device. | | 0 |
| Check the harness | | | | |
| Is the inspection re | | | | Р |
| YES >> GO TO | | | | |
| · · | ce harness connector. | | | |
| 2.CHECK WIRING | | | | |
| Check the wiring h | | | | |
| Is the inspection re YES >> GO TO | | | | |
| | | | | |

NO >> Replace wiring harness.

3. REPLACE FRONT SIDE AIR BAG MODULE

Replace front LH side air bag module. Refer to <u>SE-81, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-115, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to SRC-115, "DTC Logic".

Is DTC detected?

YES >> GO TO 1.

B1138, B1139, B1140, B1141, B1142, B1143 DIAGNOSIS SENSOR UNIT < DTC/CIRCUIT DIAGNOSIS >

B1138, B1139, B1140, B1141, B1142, B1143 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

INFOID:000000005241203

INFOID:000000005241202

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| • Malfunction in air bag diagnosis sen- |
|---|
| sor unitConfiguration in air bag diagnosis |
| sensor unit does not match the vehi- cles specification |
| • |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. NOTE:

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

Is malfunctioning part detected?

| YES | >> Refer to <u>SRC-117, "Diagnosis Procedure"</u> . |
|-----|---|
| NO | >> INSPECTION END |

Diagnosis Procedure

INFOID:000000005241204

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WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

B1138, B1139, B1140, B1141, B1142, B1143 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-117, "DTC Logic"</u>.
- Is DTC detected?

YES >> GO TO 1.

B1144 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

INFOID:000000005241206

INFOID:000000005241205

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | 0 |
|---|---|--|--|----------|
| B1144 | Diagnosis sensor unit | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sensor unit Configuration in air bag diagnosis sensor unit does not match the vehicles specification | G SRC |
| DTC CONFIRMAT | ION PROCEDURE | | | |
| 1. CHECK SELF-DI | AG RESULT | | | |
| With CONSULT-I 1. Turn ignition swi 2. Perform "AIR BA Without CONSUL | itch ON. AG" Self Diagnostic Re | esult. | | J |
| NOTE: | ag warning lamp status | s. Refer to <u>SRC-16, "Air Bag Warn</u> | | К |
| Is malfunctioning pa | • | malfunction is detected in user mo | ue. | L |
| YES >> Refer to | SRC-119, "Diagnosis | Procedure". | | |
| NO >> INSPEC | _ | | | Μ |
| Diagnosis Proce | edure | | INFOID:000000005241207 | |
| minutes. (To disc | , turn ignition switch harge backup capaci cified tester or other | | ive terminal and wait at least 3 | Ν |
| 1.CHECK HARNES | | | | 0 |
| Check the harness of | connector. | | | |
| Is the inspection res | | | | Ρ |
| YES >> GO TO NO >> Replace | 2. harness connectors. | | | |
| 2.CHECK WIRING | | | | |
| Check the wiring ha | | | | |
| Is the inspection res | | | | |
| YES >> GO TO | 3. | | | |

B1144 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>. Perform DTC confirmation procedure. Refer to <u>SRC-119, "DTC Logic"</u>. 1.
- 2.

Is DTC detected?

- >> GO TO 1. YES
- NO >> INSPECTION END

B1145 CURTAIN MODULE RH

Description

For RH side curtain air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

RH side curtain air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

RH side curtain air bag module is installed on the roof side with fixed bolts.

DTC Logic

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INFOID:000000005241208

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INFOID:000000005241210

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | | | |
|---|-----------------------------------|--|---|--|--|--|
| B1145 | CURTAIN MODULE RH [OPEN] | RH side curtain air bag module circuit is open | Disconnection of wiring harness and open Malfunction in RH side curtain air bag module Malfunction in air bag diagnosis sensor unit | | | |
| | | | | | | |
| 1.CHECK SELF-DIAG RESULT | | | | | | |
| With CONSULT-III 1. Turn ignition swi 2. Perform "AIR BA Without CONSULT | tch ON. \G" Self Diagnostic Re | esult. | J | | | |
| 1. Turn ignition swi | tch ON. | . Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". | | | |
| | 0 | nalfunction is detected in user mo | de. | | | |

YES >> Refer to <u>SRC-121, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connector.

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

B1145 CURTAIN MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3. REPLACE SIDE CURTAIN AIR BAG MODULE

- Replace RH side curtain air bag module. Refer to <u>SR-19, "Exploded View"</u>
 Perform DTC confirmation procedure. Refer to <u>SRC-121, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

2. Perform DTC confirmation procedure. Refer to SRC-121, "DTC Logic".

Is DTC detected?

YES >> GO TO 1.

B1146 CURTAIN MODULE RH

Description

For RH side curtain air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

RH side curtain air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

RH side curtain air bag module is installed on the roof side with fixed bolts.

DTC Logic

INFOID:0000000005241212

INFOID:000000005241211

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|---|--|--|--|----------|
| B1146 | CURTAIN MODULE RH [VB-SHORT] | RH side curtain air bag module circuit is shorted to some power supply circuit | Disconnection of wiring harness and short Malfunction in RH side curtain air bag module Malfunction in air bag diagnosis sen- sor unit | G SRC |
| DTC CONFIRMA | TION PROCEDURE | | | |
| 1.CHECK SELF-D | DIAG RESULT | | | |
| Without CONSU | vitch ON. 3AG" Self Diagnostic Re LT-III | esult. | | J |
| | | s. Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". | Κ |
| <u>Is malfunctioning pa</u> YES >> Refer t | • | malfunction is detected in user mo <u>Procedure</u> ". | de. | L |
| Diagnosis Proc | edure | | INFOID:000000005241213 | Μ |
| minutes. (To dis | g, turn ignition switch charge backup capaci ecified tester or other | | ive terminal and wait at least 3 | Ν |
| 1.CHECK HARNE | SS CONNECTOR | | | 0 |
| Check the harness | connector. | | | |
| Is the inspection re | sult normal? | | | Ρ |
| YES >> GO TC NO >> Replac | | | | |
| 2.CHECK WIRING | e harness connector. G HARNESS | | | |
| Check the wiring ha | arness externals. | | | |
| Is the inspection re | | | | |
| YES >> GO TC |) 3. | | | |

B1146 CURTAIN MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3. REPLACE SIDE CURTAIN AIR BAG MODULE

- Replace RH side curtain air bag module. Refer to <u>SR-19, "Exploded View"</u>
 Perform DTC confirmation procedure. Refer to <u>SRC-123, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

Perform DTC confirmation procedure. Refer to SRC-123, "DTC Logic". 2.

Is DTC detected?

YES >> GO TO 1.

B1147 CURTAIN MODULE RH

Description

For RH side curtain air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

RH side curtain air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

RH side curtain air bag module is installed on the roof side with fixed bolts.

DTC Logic

INFOID:000000005241215

INFOID:000000005241214

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|--|---|--|--|----------|
| B1147 | CURTAIN MODULE RH [GND-SHORT] | RH side curtain air bag module circuit is shorted to ground | Disconnection of wiring harness and short Malfunction in RH side curtain air bag module Malfunction in air bag diagnosis sen- sor unit | G SRC |
| DTC CONFIRMATI | ON PROCEDURE | | | |
| 1.CHECK SELF-DIA | AG RESULT | | | |
| With CONSULT-III Turn ignition swit Perform "AIR BA Without CONSULT Turn ignition swit | tch ON. \G" Self Diagnostic Re Г-III | esult. | | J |
| 2. Check the air ba | | s. Refer to <u>SRC-16, "Air Bag Warn</u> | ing Lamp Diagnosis". | Κ |
| Is malfunctioning par | t detected? SRC-125, "Diagnosis | malfunction is detected in user mo Procedure ["] . | de. | L |
| Diagnosis Proce | dure | | INFOID:000000005241216 | Μ |
| minutes. (To discl | turn ignition switch harge backup capaci :ified tester or other | | ive terminal and wait at least 3 | Ν |
| 1.CHECK HARNES | S CONNECTOR | | | 0 |
| Check the harness c | onnector. | | | |
| Is the inspection resultYES>> GO TO 2NO>> Replace2.CHECK WIRING | 2. harness connector. | | | Ρ |
| Check the wiring har <u>Is the inspection resu</u> YES >> GO TO 3 | ness externals. Ilt normal? | | | |

B1147 CURTAIN MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3. REPLACE SIDE CURTAIN AIR BAG MODULE

- Replace RH side curtain air bag module. Refer to <u>SR-19, "Exploded View"</u>
 Perform DTC confirmation procedure. Refer to <u>SRC-125, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

Perform DTC confirmation procedure. Refer to SRC-125, "DTC Logic". 2.

Is DTC detected?

YES >> GO TO 1.

B1148 CURTAIN MODULE RH

Description

For RH side curtain air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

RH side curtain air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

RH side curtain air bag module is installed on the roof side with fixed bolts.

DTC Logic

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INFOID:000000005241217

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------------------------------------|---|---|--|
| B1148 | CURTAIN MODULE RH [SHORT] | RH side curtain air bag module circuit are shorted to each other | Disconnection of wiring harness and short Malfunction in RH side curtain air bag module Malfunction in air bag diagnosis sensor unit |
| DTC CONFIRMAT | ION PROCEDURE | | |
| 1.CHECK SELF-D | IAG RESULT | | |
| Without CONSUL | vitch ON. AG" Self Diagnostic Re _T-III | esult. | |
| 2. Check the air ba | | s. Refer to <u>SRC-16, "Air Bag Warr</u> | ning Lamp Diagnosis". |
| NOTE: SRS does not enter | diagnosis mode if no r | malfunction is detected in user mo | ode |
| Is malfunctioning pa | • | nandhellon is delected in user mo | de. |
| | SRC-127, "Diagnosis | Procedure". | |
| | CTION END | | |
| Diagnosis Proc | edure | | INFOID:000000005241219 |
| minutes. (To disc | , turn ignition switch charge backup capac cified tester or other | itor.) | tive terminal and wait at least 3 |
| 1. CHECK HARNE | SS CONNECTOR | | |
| Check the harness | connector. | | |
| Is the inspection res | | | |
| YES >> GO TO NO >> Replace | 2. e harness connector. | | |
| 2.CHECK WIRING | | | |
| Check the wiring ha | | | |
| Is the inspection res YES >> GO TO | | | |
| 20 22 00 10 | | | |

B1148 CURTAIN MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3. REPLACE SIDE CURTAIN AIR BAG MODULE

- Replace RH side curtain air bag module. Refer to <u>SR-19, "Exploded View"</u>
 Perform DTC confirmation procedure. Refer to <u>SRC-127, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

Perform DTC confirmation procedure. Refer to SRC-127, "DTC Logic". 2.

Is DTC detected?

YES >> GO TO 1.

B1150 CURTAIN MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

B1150 CURTAIN MODULE LH

Description

For RH side curtain air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

LH side curtain air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

LH side curtain air bag module is installed on the roof side with fixed bolts.

DTC Logic

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INFOID:000000005241220

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|--|-----------------------------|--|--|----|
| B1150 | CURTAIN MODULE LH [OPEN] | LH side curtain air bag module circuit is open | Disconnection of wiring harness and open Malfunction in LH side curtain air bag | G |
| | | | moduleMalfunction in air bag diagnosis sensor unit | SR |
| DTC CONFIRMA 1. CHECK SELF-E | TION PROCEDURE | | | I |
| With CONSULT- 1. Turn ignition s | | | | J |

2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

- 1. Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. **NOTE:**

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-129, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

INFOID:000000005241222

B1150 CURTAIN MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3. REPLACE SIDE CURTAIN AIR BAG MODULE

- Replace LH side curtain air bag module. Refer to <u>SR-19, "Exploded View"</u>
 Perform DTC confirmation procedure. Refer to <u>SRC-129, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

Perform DTC confirmation procedure. Refer to SRC-129, "DTC Logic". 2.

Is DTC detected?

YES >> GO TO 1.

B1151 CURTAIN MODULE LH

Description

For RH side curtain air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

LH side curtain air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

LH side curtain air bag module is installed on the roof side with fixed bolts.

DTC Logic

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INFOID:000000005241223

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INFOID:000000005241225

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|-----------------|---------------------------------|--|--|---------|
| B1151 | CURTAIN MODULE LH [VB-SHORT] | LH side curtain air bag module circuit is shorted to some power supply circuit | Disconnection of wiring harness and short Malfunction in LH side curtain air bag module Malfunction in air bag diagnosis sen- sor unit | G SR |
| DTC CONFIRMATIO | ON PROCEDURE | | | 1 |

1.CHECK SELF-DIAG RESULT

With CONSULT-III

1. Turn ignition switch ON.

2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

1. Turn ignition switch ON.

Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>.
 NOTE:

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-131, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

B1151 CURTAIN MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3. REPLACE SIDE CURTAIN AIR BAG MODULE

Replace LH side curtain air bag module. Refer to <u>SR-19, "Exploded View"</u>
 Perform DTC confirmation procedure. Refer to <u>SRC-131, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

Perform DTC confirmation procedure. Refer to SRC-131, "DTC Logic". 2.

Is DTC detected?

YES >> GO TO 1.

B1152 CURTAIN MODULE LH

Description

For RH side curtain air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

LH side curtain air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

LH side curtain air bag module is installed on the roof side with fixed bolts.

DTC Logic

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INFOID:000000005241226

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| | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---|---|---|--|
| B1152 | CURTAIN MODULE LH [GND-SHORT] | LH side curtain air bag module circuit is shorted to ground | Disconnection of wiring harness and short Malfunction in LH side curtain air bag module Malfunction in air bag diagnosis sen- sor unit |
| DTC CONFIRM/ | ATION PROCEDURE | | |
| 1.CHECK SELF- | DIAG RESULT | | |
| With CONSULT Turn ignition s Perform "AIR Without CONSU | switch ON. BAG" Self Diagnostic Re | esult. | |
| Turn ignition s Check the air NOTE: | switch ON. bag warning lamp status | s. Refer to <u>SRC-16, "Air Bag Warn</u> | |
| Is malfunctioning | - | malfunction is detected in user mo | de. |
| YES >> Refer | to <u>SRC-133, "Diagnosis</u> | Procedure". | |
| | ECTION END | | |
| Diagnosis Pro | cedure | | INFOID:000000005241228 |
| minutes. (To di | ng, turn ignition switch scharge backup capaci pecified tester or other | itor.) | ive terminal and wait at least 3 |
| | | - | |
| 1. CHECK HARN | ESS CONNECTOR | | |
| 1.CHECK HARN Check the harness | | | |
| Check the harness Is the inspection re | s connector. esult normal? | | |
| Check the harness Is the inspection re YES >> GO To | s connector. esult normal? O 2. | | |
| Check the harness Is the inspection re YES >> GO To | s connector. esult normal? O 2. ace harness connector. | | |
| Check the harness Is the inspection r YES >> GO T NO >> Repla | s connector. esult normal? O 2. ace harness connector. IG HARNESS | | |

B1152 CURTAIN MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3. REPLACE SIDE CURTAIN AIR BAG MODULE

- Replace LH side curtain air bag module. Refer to <u>SR-19, "Exploded View"</u>
 Perform DTC confirmation procedure. Refer to <u>SRC-133, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

Perform DTC confirmation procedure. Refer to SRC-133, "DTC Logic". 2.

Is DTC detected?

YES >> GO TO 1.

B1153 CURTAIN MODULE LH

Description

For RH side curtain air bag module, crash is judged by main "G" sensor output signal (left side: LH satellite sensor, right side: RH satellite sensor) and safing algorithm (in air bag diagnosis sensor unit).

OPERATION

In case of frontal collision whose acceleration exceeds the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

STRUCTURE

LH side curtain air bag module mainly consists of air bag and inflator that inflates air bag.

INSTALLATION

LH side curtain air bag module is installed on the roof side with fixed bolts.

DTC Logic

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INFOID:000000005241229

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|--|---|--|---|----|
| B1153 | CURTAIN MODULE LH [SHORT] | LH side curtain air bag module circuit are shorted to each other | Disconnection of wiring harness and short Malfunction in LH side curtain air bag | G |
| | | | module Malfunction in air bag diagnosis sensor unit | SR |
| DTC CONFIRMATI | ON PROCEDURE | | | |
| 1.CHECK SELF-DIA | AG RESULT | | | I |
| With CONSULT-III Turn ignition swit Perform "AIR BA Without CONSULT | tch ON. \G" Self Diagnostic Re | esult. | | J |
| Turn ignition swite Check the air bandle NOTE: | tch ON. g warning lamp status | s. Refer to <u>SRC-16, "Air Bag Warr</u> | | K |
| Is malfunctioning par | t detected? SRC-135, "Diagnosis | nalfunction is detected in user mo | ode. | L |
| Diagnosis Proce | dure | | INFOID:00000005241231 | M |
| minutes. (To disch | turn ignition switch harge backup capaci cified tester or other | tor.) | tive terminal and wait at least 3 | Ν |

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connector.

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

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B1153 CURTAIN MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3. REPLACE SIDE CURTAIN AIR BAG MODULE

- Replace LH side curtain air bag module. Refer to <u>SR-19, "Exploded View"</u>
 Perform DTC confirmation procedure. Refer to <u>SRC-135, "DTC Logic"</u>.

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

Perform DTC confirmation procedure. Refer to SRC-135, "DTC Logic". 2.

Is DTC detected?

YES >> GO TO 1.

B1154, B1155, B1156, B1157 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1154, B1155, B1156, B1157 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

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INFOID:000000005241232

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | 0 |
|----------------------------------|------------------------|--|--|---|
| B1154 B1155 B1156 B1157 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sensor unit Configuration in air bag diagnosis sensor unit does not match the vehicles specification | G |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.

🛞 Without CONSULT-III

- 1. Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. **NOTE:**

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-119</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

INFOID:000000005241234

B1154, B1155, B1156, B1157 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

>> Replace wiring harness. NO

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-119, "DTC Logic"</u>.

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

B1170, B1171, B1172, B1173 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1170, B1171, B1172, B1173 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|-------------------------|------------------------|--|--|---|
| B1170 B1171 B1172 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sensor unit Configuration in air bag diagnosis | (|
| B1172 B1173 | | | sensor unit does not match the vehi- cles specification | S |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

1. Turn ignition switch ON.

2. Perform "AIR BAG" Self Diagnostic Result.

🛞 Without CONSULT-III

1. Turn ignition switch ON.

2. Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. **NOTE:**

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-119</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

INFOID:000000005241237

B1170, B1171, B1172, B1173 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-119, "DTC Logic"</u>.

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

B1186, B1187, B1188, B1189 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1186, B1187, B1188, B1189 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

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INFOID:000000005241240

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|----------------------------------|------------------------|--|--|----|
| B1186 B1187 B1188 B1189 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sensor unit Configuration in air bag diagnosis sensor unit does not match the vehicles specification | SF |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.

🛞 Without CONSULT-III

- 1. Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. **NOTE:**

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-119</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

B1186, B1187, B1188, B1189 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
 Perform DTC confirmation procedure. Refer to <u>SRC-119, "DTC Logic"</u>.

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

B1202, B1203, B1204, B1205, B1206, B1207 DIAGNOSIS SENSOR UNIT < DTC/CIRCUIT DIAGNOSIS >

B1202, B1203, B1204, B1205, B1206, B1207 DIAGNOSIS SENSOR UNIT

Description

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

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| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause | |
|-------------------------|------------------------|--|--|---|
| B1202 B1203 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sen- sor unit | (|
| B1204 B1205 B1206 | | | Configuration in air bag diagnosis sensor unit does not match the vehi- cles specification | S |
| B1200 | | | | |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

1. Turn ignition switch ON.

2. Check the air bag warning lamp status. Refer to <u>SRC-16, "Air Bag Warning Lamp Diagnosis"</u>. **NOTE:**

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

Is malfunctioning part detected?

| YES | >> Refer to <u>SRC-143, "Diagnosis Procedure"</u> . |
|-----|---|
| NO | >> INSPECTION END |

Diagnosis Procedure

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WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

NO >> Replace harness connectors.

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

B1202, B1203, B1204, B1205, B1206, B1207 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.
- 2. Perform DTC confirmation procedure. Refer to <u>SRC-143. "DTC Logic"</u>.
- Is DTC detected?
- YES >> GO TO 1.
- NO >> INSPECTION END

B1209 FRONTAL COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

B1209 FRONTAL COLLISION DETECTION

А Description INFOID:000000005241244 DTC B1209 FRONTAL COLLISION DETECTION When crash zone sensor detects component damage resulting from a front collision, the system blinks or illuminates the air bag warning lamp to inform the driver. Malfunctioning can be detected by CONSULT-III. OPERATION The air bags and seat belt pre-tensioners for driver and front passenger are activated by the air bag diagnosis sensor unit signal transmitted at the time of the frontal collision. D STRUCTURE It consists of crash zone sensor, air bag diagnosis sensor unit, air bags and seat belt pre-tensioners for driver and front passenger. Е INSTALLATION Refer to SR-11, "Exploded View" (Driver air bag module), SR-17, "Exploded View" (Front passenger air bag module), <u>SR-21, "Exploded View"</u>(Crash zone sensor), <u>SR-25, "Exploded View"</u> (Air bag diagnosis sensor F unit), <u>SB-6. "SEAT BELT RETRACTOR : Exploded View"</u> (Front LH/RH seat belt pre-tensioner). DTC Logic INFOID:000000005241245 DTC No. Trouble diagnosis name DTC detecting condition Possible cause B1209 FRONTAL COLLISION Front seat belt pre-tensioner, front air SRC DETECTION bag is deployed DTC CONFIRMATION PROCEDURE 1.CHECK SELF-DIAG RESULT With CONSULT-III Turn ignition switch ON. 1.

Perform "AIR BAG" Self Diagnostic Result. 2.

Without CONSULT-III

- 1 Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to SRC-16, "Air Bag Warning Lamp Diagnosis". NOTE:

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

Is malfunctioning part detected?

YES >> Refer to SRC-145, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Ν • Before servicing, turn ignition switch OFF, disconnect battery negative terminal, and wait at least 3 minutes or more. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.PERFORM COLLISION DIAGNOSIS

Perform collision diagnosis. Refer to SR-5, "FOR FRONTAL COLLISION : When SRS is activated in a collision" or SR-6, "FOR FRONTAL COLLISION : When SRS is not activated in a collision".

Iscollision diagnosis complete?

YES >> GO TO 2. NO >> INSPECTION END

2. FINAL INSPECTION

Perform "AIR BAG" Self Diagnostic Result. Is the inspection result normal?

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INFOID:000000005510865

B1209 FRONTAL COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

- YES >> INSPECTION END
- NO >> Peform diagnosis of applicable DTC.Refer to <u>SRC-156, "DTC Index"</u>.

B1210 SIDE COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS > B1210 SIDE COLLISION DETECTION

А Description INFOID:000000005241247 DTC B1210 SIDE COLLISION DETECTION When satellite sensor detects component damage resulting from a side collision, blinks or illuminates the air bag warning lamp to inform the driver. Malfunctioning can be detected by CONSULT-III. OPERATION The front side air bag and side curtain air bag are activated by the air bag diagnosis sensor unit signal transmitted at the time of the side collision. D STRUCTURE It consists of satellite sensor, air bag diagnosis sensor unit, front side air bag and side curtain air bag. INSTALLATION Ε Refer to SE-81, "Exploded View" (Front LH/RH side air bag module), SR-19, "Exploded View" (Side curtain air bag module), SR-23, "Exploded View" (LH/RH satellite sensor). DTC Logic INFOID:000000005241248 DTC No. Possible cause Trouble diagnosis name DTC detecting condition B1210 SIDE COLLISION DE-Front side air bag, side curtain air bag is TECTION deployed DTC CONFIRMATION PROCEDURE SRC 1.CHECK SELF-DIAG RESULT (P)With CONSULT-III Turn ignition switch ON. 1. Perform "AIR BAG" Self Diagnostic Result. 2. Without CONSULT-III 1. Turn ignition switch ON. 2. Check the air bag warning lamp status. Refer to SRC-16, "Air Bag Warning Lamp Diagnosis". NOTE: Κ SRS does not enter diagnosis mode if no malfunction is detected in user mode. Is malfunctioning part detected? >> Refer to SRC-147, "Diagnosis Procedure". YES NO >> INSPECTION END Diagnosis Procedure INFOID:000000005510866 M WARNING: Before servicing, turn ignition switch OFF, disconnect battery negative terminal, and wait at least 3 minutes or more. (To discharge backup capacitor.) Ν Never use unspecified tester or other measuring device. 1. PERFORM COLLISION DIAGNOSIS Perform collision diagnosis. Refer to SR-7, "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision" or SR-8, "FOR SIDE AND ROLLOVER COLLISION : When SRS is not activated in a collision". Iscollision diagnosis complete? YES >> GO TO 2. Ρ NO >> INSPECTION END 2.FINAL INSPECTION

Perform "AIR BAG" Self Diagnostic Result.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Peform diagnosis of applicable DTC.Refer to <u>SRC-156, "DTC Index"</u>.

SRC-147

< DTC/CIRCUIT DIAGNOSIS >

B1211 ROLLOVER DETECTION

Description

INFOID:000000005241250

DTC B1211 ROLLOVER DETECTION

When detect component damage resulting from a rollover, brinks or illuminates the air bag warning lamp to inform the driver. Malfunctioning can be detected by CONSULT-III.

OPERATION

The front seat belt pre-tensioner and side curtain air bag are operated by the decision of the air bag diagnosis sensor unit signal of the rollover.

STRUCTURE

It consists of front seat belt pre-tensioner, side curtain air bag and air bag diagnosis sensor unit.

INSTALLATION

Refer to <u>SB-6, "SEAT BELT RETRACTOR : Exploded View"</u> (Seat belt pre-tensioner), <u>SR-19, "Exploded View"</u> (Side curtain air bag) and <u>SR-25, "Exploded View"</u> (Air bag diagnosis sensor unit).

DTC Logic

INFOID:000000005241251

DTC DETECTION LOGIC

With CONSULT-III DTC No. Index ("SELF-DIAG [CURRENT]"), ("SELF-DIAG [PAST]" or "TROUBLE DIAG RECORD")

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|---------|-------------------------|---|----------------|
| B1211 | ROLLOVER DETEC- TION | Front seat belt pre-tensioner. side cur- tain air bag module are deployed be- cause of rollover detection | _ |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.
- Without CONSULT-III
- 1. Turn ignition switch ON.

2. Check the air bag warning lamp status. Refer to SRC-16. "Air Bag Warning Lamp Diagnosis".

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to <u>SRC-148, "Diagnosis Procedure"</u>.
- NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal, and wait at least 3 minutes or more. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.
- **1.**PERFORM COLLISION DIAGNOSIS

Perform collision diagnosis Refer to <u>SR-7</u>, "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision" or <u>SR-8</u>, "FOR SIDE AND ROLLOVER COLLISION : When SRS is not activated in a collision".

Iscollision diagnosis complete?

YES >> GO TO 2.

NO >> INSPECTION END

INFOID:000000005510867

| B1211 ROLLOVER DETECTION | |
|--|-----|
| < DTC/CIRCUIT DIAGNOSIS > | |
| 2.FINAL INSPECTION | Α |
| Perform "AIR BAG" Self Diagnostic Result. | A |
| Is the inspection result normal? | |
| YES >> INSPECTION END NO >> Peform diagnosis of applicable DTC.Refer to <u>SRC-156, "DTC Index"</u> . | В |
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< DTC/CIRCUIT DIAGNOSIS >

B1212, B1213, B1214 RH1 SAT-SENS

Description

Main "G" sensor generates signal voltage, when it detects deceleration beyond the specified level by vehicle side collision.

OPERATION

When air bag diagnosis sensor unit judges both signal voltage of the "G" sensor and the Safing algorithm to be that of collision which exceeds specified level, the driving circuit switches on and feeds the electric ignitor of both the front side air bag and side curtain air bag.

STRUCTURE

Integrated type of the "G" sensor element for side collision with output terminals for signal voltage.

INSTALLATION

RH satellite sensor is installed at the underside of center pillar with fixed nuts.

DTC Logic

INFOID:000000005241254

INFOID:000000005241253

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|-------------------------|------------------------|---------------------------------------|---|
| B1212 B1213 B1214 | RH1 SAT-SENS | RH satellite sensor is malfunctioning | Disconnection of wiring harness Malfunction in RH satellite sensor Malfunction in air bag diagnosis sensor unit |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

(I) With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.
- Without CONSULT-III
- 1. Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to <u>SRC-16. "Air Bag Warning Lamp Diagnosis"</u>.

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to <u>SRC-150, "Diagnosis Procedure"</u>.
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000005241255

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.
- **1.**CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Replace harness connector.

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Replace wiring harness.

B1212, B1213, B1214 RH1 SAT-SENS

< DTC/CIRCUIT DIAGNOSIS >

| 3.REPLACE SATELLITE SENSOR | А |
|---|---|
| Replace RH satellite sensor. Refer to <u>SR-23, "Exploded View"</u>. Perform DTC confirmation procedure. Refer to <u>SRC-150, "DTC Logic"</u>. | |
| Is DTC detected? | В |
| YES >> GO TO 4. NO >> INSPECTION END | |
| 4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT | С |
| Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>. Perform DTC confirmation procedure. Refer to <u>SRC-150, "DTC Logic"</u>. | |
| <u>Is DTC detected?</u> YES >> GO TO 1. | D |
| NO >> INSPECTION END | E |
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< DTC/CIRCUIT DIAGNOSIS >

B1215, B1216, B1217 LH1 SAT-SENS

Description

INFOID:000000005241256

Main "G" sensor generates signal voltage, when it detects deceleration beyond the specified level by vehicle side collision.

OPERATION

When air bag diagnosis sensor unit judges both signal voltage of the "G" sensor and the Safing algorithm to be that of collision which exceeds specified level, the driving circuit switches on and feeds the electric ignitor of both the front side air bag and side curtain air bag.

STRUCTURE

Integrated type of the "G" sensor element for side collision with output terminals for signal voltage.

INSTALLATION

LH satellite sensor is installed at the underside of center pillar with fixed nuts.

DTC Logic

INFOID:000000005241257

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|-------------------------|------------------------|---------------------------------------|---|
| B1215 B1216 B1217 | LH1 SAT-SENS | LH satellite sensor is malfunctioning | Disconnection of wiring harness Malfunction in LH satellite sensor Malfunction in air bag diagnosis sensor unit |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

(I) With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.
- Without CONSULT-III
- 1. Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to <u>SRC-16. "Air Bag Warning Lamp Diagnosis"</u>.

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to <u>SRC-152</u>, "Diagnosis Procedure".
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000005241258

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.
- **1.**CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Replace harness connector.

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

B1215, B1216, B1217 LH1 SAT-SENS

< DTC/CIRCUIT DIAGNOSIS >

| 3.REPLACE SATELLITE SENSOR | А |
|---|---|
| Replace LH satellite sensor. Refer to <u>SR-23, "Exploded View"</u>. Perform DTC confirmation procedure. Refer to <u>SRC-152, "DTC Logic"</u> | |
| Is DTC detected? | В |
| YES >> GO TO 4. NO >> INSPECTION END | |
| 4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT | С |
| Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>. Perform DTC confirmation procedure. Refer to <u>SRC-152, "DTC Logic"</u>. Is DTC detected? | D |
| YES >> GO TO 1. NO >> INSPECTION END | |
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B1218, B1219 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1218, B1219 DIAGNOSIS SENSOR UNIT

Description

INFOID:000000005241259

Checks the entire SRS and displays the malfunction either by illuminating or blinking the air bag warning lamp on the combination meter. Malfunctioning part can be detected by on board self-diagnosis system and CON-SULT-III.

OPERATION

It detects a shock that exceeds a specified level and monitors whether the driver and passenger air bags, front side air bag, side curtain air bag and pre-tensioner seat belts operate normally.

STRUCTURE

It contains the "G" sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

INSTALLATION

Air bag diagnosis sensor unit is installed under the center console with fixed bolts.

DTC Logic

INFOID:000000005241260

| DTC No. | Trouble diagnosis name | DTC detecting condition | Possible cause |
|----------------|------------------------|--|--|
| B1218 B1219 | CONTROL UNIT | Air bag diagnosis sensor unit is mal- functioning or out of the specification | Malfunction in air bag diagnosis sensor unit Configuration in air bag diagnosis sensor unit does not match the vehicles specification |

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT-III

- 1. Turn ignition switch ON.
- 2. Perform "AIR BAG" Self Diagnostic Result.

Without CONSULT-III

1. Turn ignition switch ON.

2. Check the air bag warning lamp status. Refer to SRC-16, "Air Bag Warning Lamp Diagnosis".

NOTE:

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

Is malfunctioning part detected?

YES >> Refer to <u>SRC-119</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

INFOID:000000005241261

B1218, B1219 DIAGNOSIS SENSOR UNIT

| BIZIO, BIZIO DIAGNOSIS SENSON UNIT | |
|---|-----|
| < DTC/CIRCUIT DIAGNOSIS > | |
| NO >> Replace wiring harness. | |
| 3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT | A |
| 1. Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u> . | |
| Perform DTC confirmation procedure. Refer to <u>SRC-119, "DTC Logic"</u>. | D |
| Is DTC detected? | В |
| YES >> GO TO 1. | |
| NO >> INSPECTION END | С |
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ECU DIAGNOSIS INFORMATION DIAGNOSIS SENSOR UNIT

DTC Index

INFOID:000000005241262

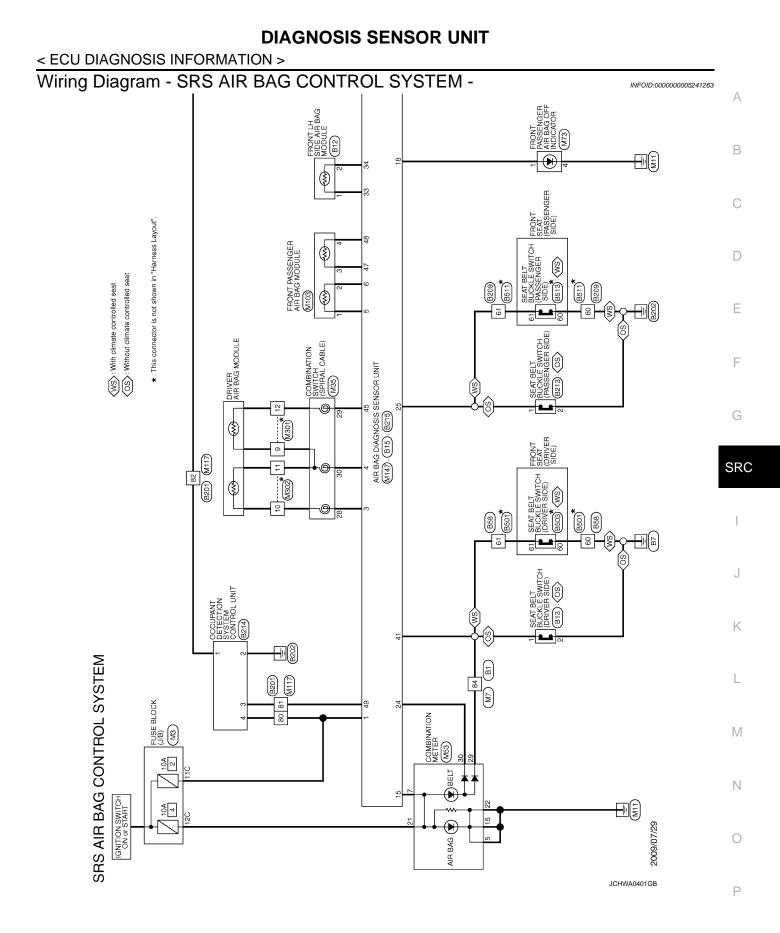
| Diagnostic item | | Explanation | Reference page |
|---|--|---|---|
| NO DTC IS DETECT- | When malfunction is in- | Low battery voltage (Less than 9 V) | SRC-29, "DTC Logic". |
| ED. | dicated by the "AIR BAG" warning lamp in User mode | Self-diagnostic result is not erased after repair | SRC-16, "Air Bag Warning Lamp Diag- nosis", SRC-20, "CONSULT-III Func- tion". |
| | | Intermittent malfunction is detected in the past | GI-36, "Intermittent Incident" |
| | No malfunction is detected | ed | _ |
| CONTROL UNIT [B1001-B1015] | Air bag diagnosis sensor fied specification | unit is malfunctioning or out of the speci- | SRC-23, "DTC Logic". SRC-25, "DTC Logic". SRC-27, "DTC Logic". |
| OCCUPANT SENS C/U [UNIT FAIL] [B1017] [B1020] [B1021] | Malfunction occurs in Oc | cupant Detection System control unit | SRC-29, "DTC Logic". |
| OCCUPANT SENS [UNIT FAIL] [B1018] | Malfunction occurs in Oc | cupant Detection System sensor | SRC-31, "DTC Logic". |
| OCCUPANT SENS C/U [COMM FAIL] [B1022] | | cupant Detection System control unit, cir- on System control unit air bag diagnosis agnosis sensor unit | SRC-33. "DTC Logic". |
| PASS A/B INDCTR CKT [B1023] | Front passenger air bag ground or the circuits are | OFF indicator circuit is open or shorted to shorted each other | SRC-35, "DTC Logic". |
| OCS SENSOR [B1025] [B1032] [B1048] | | cupant Detection System control unit, cir- on System control unit air bag diagnosis agnosis sensor unit | SRC-37, "DTC Logic". |
| CONTROL UNIT [B1026-B1031] | Air bag diagnosis sensor fied specification | unit is malfunctioning or out of the speci- | SRC-39, "DTC Logic". |
| CRASH ZONE SEN [UNIT FAIL] [B1033] [B1034] | Crash zone sensor is ma | lfunctioning | SRC-41, "DTC Logic". |
| CRASH ZONE SEN [COMM FAIL] [B1035] [UNMATCH] [B1036] | Crash zone sensor is ma fication | Ifunctioning or out of the specified speci- | SRC-43, "DTC Logic". |
| CRASH ZONE SEN1 [B1037] [B1039] [B1041] | Crash zone sensor is ma | | SRC-45. "DTC Logic". |
| CONTROL UNIT [B1042-B1047] | Air bag diagnosis sensor fied specification | unit is malfunctioning or out of the speci- | SRC-47. "DTC Logic". |
| DRIVER AIRBAG MOD- ULE [OPEN] [B1049] [B1054] | Driver air bag module cir | cuit is open (including the spiral cable) | SRC-49, "DTC Logic". |

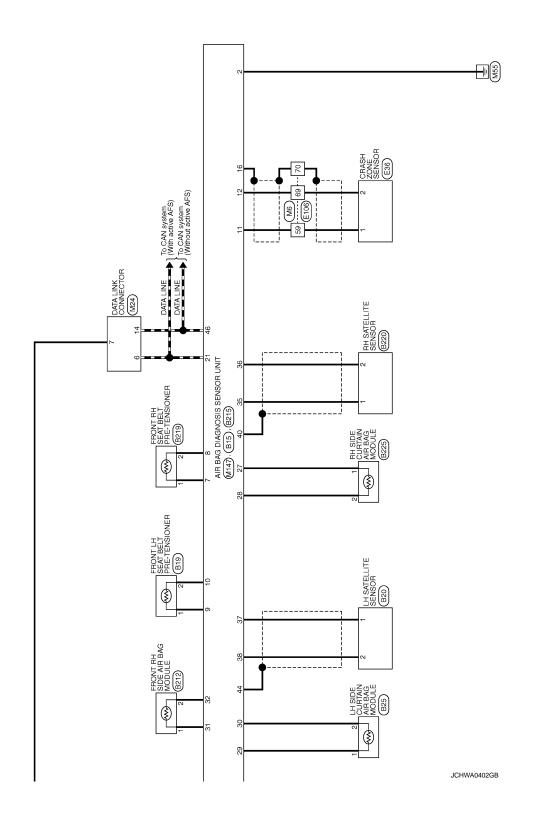
| Diagnostic item | Explanation | Reference page |
|---|---|----------------------|
| DRIVER AIRBAG MOD- JLE VB-SHORT] B1050] [B1055] | Driver air bag module circuit is shorted to some power supply cir- cuit (including the spiral cable) | SRC-51, "DTC Logic". |
| DRIVER AIRBAG MOD- JLE GND-SHORT] B1051] [B1056] | Driver air bag module circuit is shorted to ground (including the spi- ral cable) | SRC-53, "DTC Logic". |
| DRIVER AIRBAG MOD- JLE SHORT] 31052] [B1057] | Driver air bag module circuits are shorted to each other (including spiral cable) | SRC-55, "DTC Logic". |
| ONTROL UNIT 31058-B1063] | Air bag diagnosis sensor unit is malfunctioning or out of the speci- fied specification | SRC-57, "DTC Logic". |
| ASSIST A/B MODULE OPEN] B1065] [B1070] | Front passenger air bag module circuit is open | SRC-59, "DTC Logic". |
| SSIST A/B MODULE /B-SHORT] 31066] [B1071] | Front passenger air bag module circuit is shorted to some power supply circuit | SRC-61, "DTC Logic". |
| SSIST A/B MODULE GND-SHORT] 31067] [B1072] | Front passenger air bag module circuit is shorted to ground | SRC-63, "DTC Logic". |
| SSIST A/B MODULE SHORT] 31068] [B1073] | Front passenger air bag module circuits are shorted to each other | SRC-65, "DTC Logic". |
| CONTROL UNIT 31074-B1079] | Air bag diagnosis sensor unit is malfunctioning or out of the speci- fied specification | SRC-67, "DTC Logic". |
| DRIVER AIRBAG MOD- JLE SHORT] 31080] 31096] | Driver air bag module circuits are shorted to each other (including spiral cable) | SRC-69. "DTC Logic". |
| RE-TEN FRONT RH DPEN] 31081] | Front RH seat belt pre-tensioner circuit is open | SRC-71, "DTC Logic". |
| PRE-TEN FRONT RH VB-SHORT] B1082] | Front RH seat belt pre-tensioner circuit is shorted to some power supply circuit | SRC-73. "DTC Logic". |
| RE-TEN FRONT RH GND-SHORT] 31083] | Front RH seat belt pre-tensioner circuit is shorted to ground | SRC-75, "DTC Logic". |
| PRE-TEN FRONT RH SHORT] 31084] | Front RH seat belt pre-tensioner circuits are shorted to each other | SRC-77, "DTC Logic". |
| RE-TEN FRONT LH DPEN] 31086] | Front LH seat belt pre-tensioner circuit is open | SRC-79, "DTC Logic". |
| RE-TEN FRONT LH /B-SHORT] 31087] | Front LH seat belt pre-tensioner circuit is shorted to some power supply circuit | SRC-81, "DTC Logic". |
| PRE-TEN FRONT LH GND-SHORT] B1088] | Front LH seat belt pre-tensioner circuit is shorted to ground | SRC-83, "DTC Logic". |

| Diagnostic item | Explanation | Reference page |
|---|--|-----------------------|
| PRE-TEN FRONT LH [SHORT] [B1089] | Front LH seat belt pre-tensioner circuits are shorted to each other | SRC-85, "DTC Logic". |
| CONTROL UNIT [B1090-B1093] | Air bag diagnosis sensor unit is malfunctioning or out of the speci- fied specification | SRC-87, "DTC Logic". |
| CONTROL UNIT [B1106-B1111] | Air bag diagnosis sensor unit is malfunctioning or out of the speci- fied specification | SRC-89, "DTC Logic". |
| SATELLITE SENS RH [UNIT FAIL] [B1113] [B1114] | RH satellite sensor is malfunctioning | SRC-91. "DTC Logic". |
| SATELLITE SENS RH [COMM FAIL] [B1115] [UNMATCH] [B1116] | RH satellite sensor is malfunctioning or out of the specified specification | SRC-93, "DTC Logic". |
| SATELLITE SENS LH [UNIT FAIL] [B1118] [B1119] | LH satellite sensor is malfunctioning | SRC-95, "DTC Logic". |
| SATELLITE SENS LH [COMM FAIL] [B1120] [UNMATCH] [B1121] | LH satellite sensor is malfunctioning or out of the specified specification | SRC-97, "DTC Logic". |
| CONTROL UNIT [B1122-B1127] | Air bag diagnosis sensor unit is malfunctioning or out of the speci- fied specification | SRC-99, "DTC Logic". |
| SIDE MODULE RH [OPEN] [B1129] | Front RH side air bag module circuit is open | SRC-101, "DTC Logic". |
| SIDE MODULE RH [VB-SHORT] [B1130] | Front RH side air bag module circuit is shorted to some power supply circuit | SRC-103, "DTC Logic". |
| SIDE MODULE RH [GND-SHORT] [B1131] | Front RH side air bag module circuit is shorted to ground | SRC-105, "DTC Logic". |
| SIDE MODULE RH [SHORT] [B1132] | Front LH seat belt pre-tensioner circuits are shorted to each other | SRC-107, "DTC Logic". |
| SIDE MODULE LH [OPEN] [B1134] | Front LH side air bag module circuit is open | SRC-109, "DTC Logic". |
| SIDE MODULE LH [VB-SHORT] [B1135] | Front LH side air bag module circuit is shorted to some power supply circuit | SRC-111, "DTC Logic". |
| SIDE MODULE LH [GND-SHORT] [B1136] | Front LH side air bag module circuit is shorted to ground | SRC-113, "DTC Logic". |
| SIDE MODULE LH [SHORT] [B1137] | Front LH side air bag module circuits are shorted to each other | SRC-115, "DTC Logic". |
| CONTROL UNIT [B1144] | Air bag diagnosis sensor unit is malfunctioning or out of the speci- fied specification | SRC-119, "DTC Logic". |

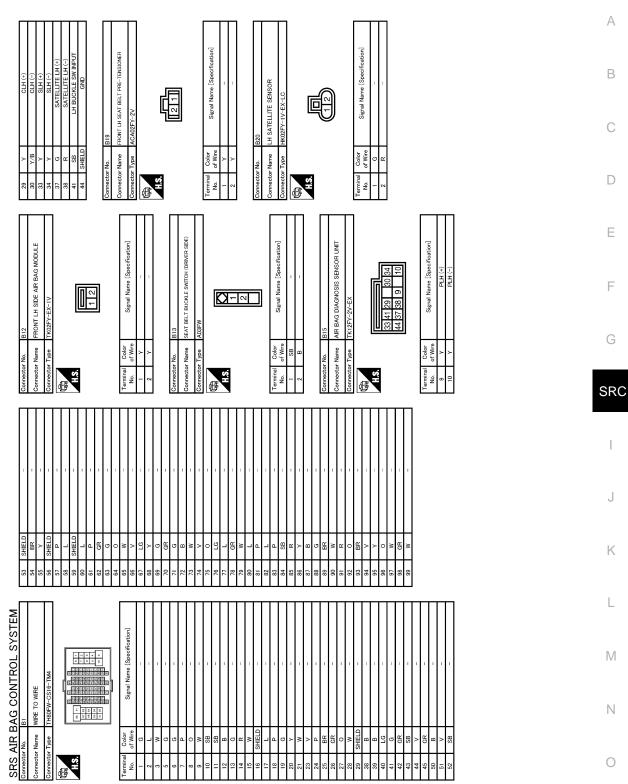
| Diagnostic item | Explanation | Reference page |
|---|--|-----------------------|
| CURTAIN MODULE RH [OPEN] [B1145] | RH side curtain air bag module circuit is open | SRC-121, "DTC Logic". |
| CURTAIN MODULE RH [VB-SHORT] [B1146] | RH side curtain air bag module circuit is shorted to some power supply circuit | SRC-123, "DTC Logic". |
| CURTAIN MODULE RH [GND-SHORT] [B1147] | RH side curtain air bag module circuit is shorted to ground | SRC-125, "DTC Logic". |
| CURTAIN MODULE RH [SHORT] [B1148] | RH side curtain air bag module circuits are shorted to each other | SRC-127, "DTC Logic". |
| CURTAIN MODULE LH [OPEN] [B1150] | LH side curtain air bag module circuit is open | SRC-129, "DTC Logic". |
| CURTAIN MODULE LH [VB-SHORT] [B1151] | LH side curtain air bag module circuit is shorted to some power supply circuits | SRC-131, "DTC Logic". |
| CURTAIN MODULE LH [GND-SHORT] [B1152] | LH side curtain air bag module circuit is shorted to ground | SRC-133, "DTC Logic". |
| CURTAIN MODULE LH [SHORT] [B1153] | LH side curtain air bag module circuits are shorted to each other | SRC-135, "DTC Logic". |
| CONTROL UNIT [B1154-B1157] | Air bag diagnosis sensor unit is malfunctioning or out of the speci- fied specification | SRC-137, "DTC Logic". |
| CONTROL UNIT [B1170-B1173] | Air bag diagnosis sensor unit is malfunctioning or out of the speci- fied specification | SRC-139, "DTC Logic". |
| CONTROL UNIT [B1186-B1189] | Air bag diagnosis sensor unit is malfunctioning or out of the speci- fied specification | SRC-141, "DTC Logic". |
| CONTROL UNIT [B1202-B1207] | Air bag diagnosis sensor unit is malfunctioning or out of the speci- fied specification | SRC-143, "DTC Logic". |
| FRONTAL COLLISION DETECTION [B1209] | Front seat belt pre-tensioner and front air bag is deployed | SRC-145, "DTC Logic". |
| SIDE COLLISION DE- TECTION [B1210] | Front side air bag and side curtain air bag are deployed | SRC-147, "DTC Logic". |
| ROLLOVER DETECTION [B1211] | Front seat belt pre-tensioner, side curtain air bag module are de- ployed because of rollover detection | SRC-148, "DTC Logic". |
| RH1 SAT-SENS [B1212] [B1213] [B1214] | RH satellite sensor is malfunctioning | SRC-150, "DTC Logic". |

| Diagnostic item | Explanation | Reference page |
|---|--|-----------------------|
| LH1 SAT-SENS [B1215] [B1216] [B1217] | LH satellite sensor is malfunctioning | SRC-152, "DTC Logic". |
| CONTROL UNIT [B1218] [B1219] | Air bag diagnosis sensor unit is malfunctioning or out of the speci- fied specification | SRC-154, "DTC Logic". |





< ECU DIAGNOSIS INFORMATION >



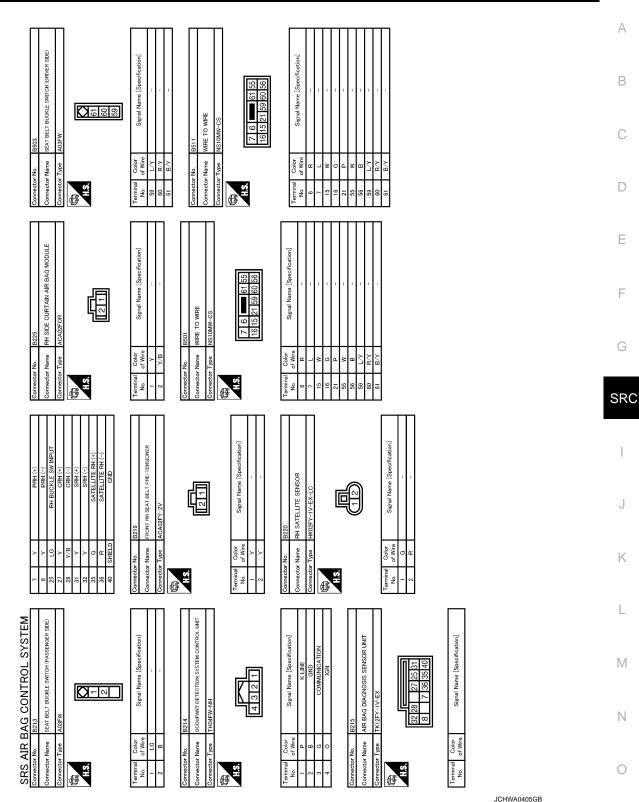
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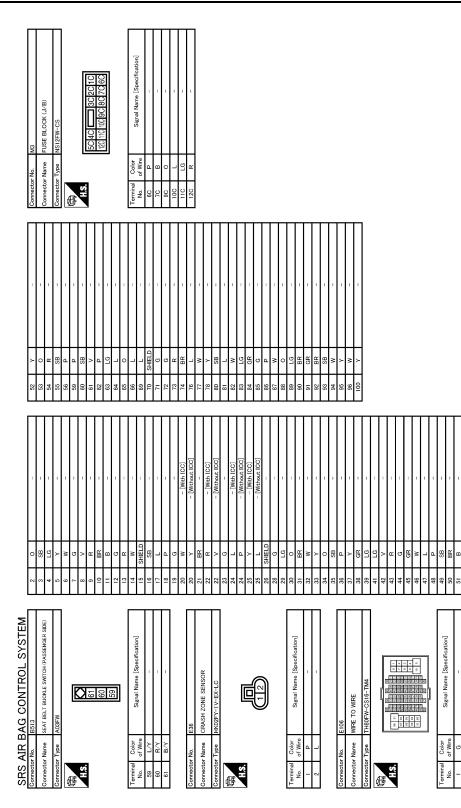
| SRS AIR BAG CONTROL SYSTEM | | | | | | | | | |
|--|----------------|---------|--|--------|------------|-----------------------------------|---|----------|------------------------------|
| Connector No. B25 | Connector No. | | B201 | 41 | Y | - [Without ICC] | 97 | g | - |
| Connector Name I H SIDE CHETAIN AIR RAG MODULE | Connector Name | | WIRE TO WIRE | 42 | > | - [With ICC] | 86 | 0 | I |
| | | | | 42 | W | [Without ICC] | 66 | L | - |
| Connector Type ACA02FY-2V | Connector Type | | TH80FW-CS16-TM4 | 43 | BR | - [With ICC] | 100 | Y | - |
| đ | ģ | | | 43 | в | - [Without ICC] | | | |
| | F | | | 44 | ч | 1 | | | |
| S. | S H | | | 45 | σ | 1 | Connector No. | | B209 |
| | | | * * * * * * * * * * * * * * | 46 | 0 | - [With ICC] | | | |
| 2 1 | | | 第 回 10 日本 | 46 | SHIELD | 1 | Connector Name | | WIRE TO WIRE |
| | | | 1011日本部長期の目前にある。 | 47 | - | | Connector Type | | NS10FW-CS |
| | | | | 14 | , <u>a</u> | - [Without ICC] | | 1 | |
| | | | | 48 | ╀ | - [With ICC] | ¢ | | |
| | Tarminal | Color | | ę | ╞ | - [Without ICC] | | | |
| No. of Wire Signal Name [Specification] | No. | of Wire | Signal Name [Specification] | 49 | ╞ | - [With ICC] | | | 55 Å1 – Å 7 |
| - + 1 | - | 6 | 1 | 49 | ┝ | - [Without ICC] | T | | |
| 2 Y/B – | 2 | œ | 1 | 50 | SHIELD | | | | |
| | e | H | 1 | 51 | > | 1 | – | | |
| | 4 | 88 | ı | 52 | ┝ | | - | | |
| Connector No. B58 | g | 0 | 1 | 53 | | 1 | Termina | Color | |
| | 7 | чЭ | 1 | 54 | | 1 | Ÿ | of Wire | Signal Name [Specification] |
| Connector Name WIRE I U WIRE | ∞ | × | 1 | 55 | 8 | 1 | ء ا | 5 | 1 |
| Connector Type NS10FW-CS | 0 | 0 | | 60 | ┝ | | | ~ | |
| | = | H | 1 | 61 | ┝ | 1 | 12 | > | 1 |
| | 13 | > | 1 | 63 | | , | 9 | - | 1 |
| | 1 5 | SHIELD | 1 | 63 | + | , | 2 | , 85 | 1 |
| | 2 | c | | 6.4 | | | i v | 6 | |
| | ŧ ń | 5 G | 1 | * * | 6 0 | | 8 8 | 2 | |
| 56 60 59 21 15 16 | 2 5 | 4 | | 8 | ╀ | | 8 | 5 | |
| | ₽Ç | SHELU | 1 | 60 | + | 1 1 | 8 | > 0 | 1 |
| | 2 9 | 3 8 | I | ò | $^{+}$ | 1 | | <u>م</u> | 1 |
| | 8 | 35 | 1 | 89 | 5 | 1 | 9 | 5 LG | I |
| lerminal Color Signal Name [Specification] | 6 | > ; | 1 | 69 | + | 1 | - т | | |
| OT WIFE | 20 | BS | 1 | 7 | 8 | 1 | | ſ | |
| - 2 | 21 | Ъ | I | 72 | > | 1 | Connector No. | | B212 |
| - | 22 | 8 | [With entertainment system] | 73 | G | 1 | Connector Name | | FRONT RH SIDE AIR BAG MODULE |
| - | 22 | ВR | [Without entertainment system] | 74 | > | 1 | | | |
| 16 P - | 23 | × | [With entertainment system] | 75 | Æ | | Connector Type | | TK02FY-EX-1V |
| 21 0 - | 23 | LG | [Without entertainment system] | 76 | > | - | ą | | |
| 55 G – | 24 | ٣ | [With entertainment system] | 77 | - | - | ALL | | |
| 56 L – | 24 | × | [Without entertainment system] | 8 | + | | H.S. | | |
| 59 LG – | 25 | SHIELD | [With entertainment system] | 81 | G | - | | | |
| | 25 | > | [Without entertainment system] | 82 | ٩ | - | | | 1 2 |
| 61 SB – | 26 | SB | - | 83 | _ | - | | |] |
| | 27 | ^ | | 84 | _ | 1 | | | |
| | 28 | SHIELD | - | 85 | | - | | | |
| | 29 | 0 | 1 | 86 | GR | 1 | Terminal | Color | Cinnel Name [Canadian] |
| | 30 | ۵. | I | 87 | - | 1 | No. | of Wire | |
| | 31 | W | I | 91 | > | - | - | Y | I |
| | 32 | GR | - | 92 | N | - | 2 | 7 | - |
| | 33 | ß | T | 93 | | | | | |
| | 40 | ГG | - [With ICC] | 94 | | - | | | |
| | 4 | > | - [Without ICC] | 95 | GR | 1 | — | | |

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< ECU DIAGNOSIS INFORMATION >



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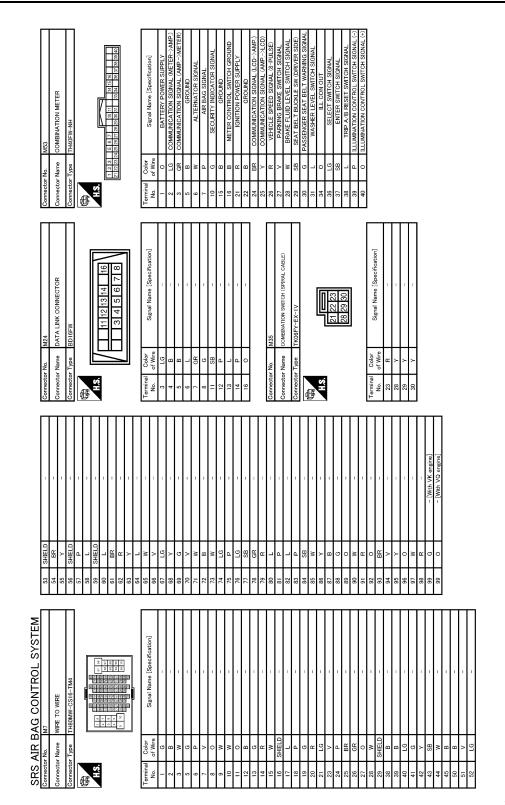


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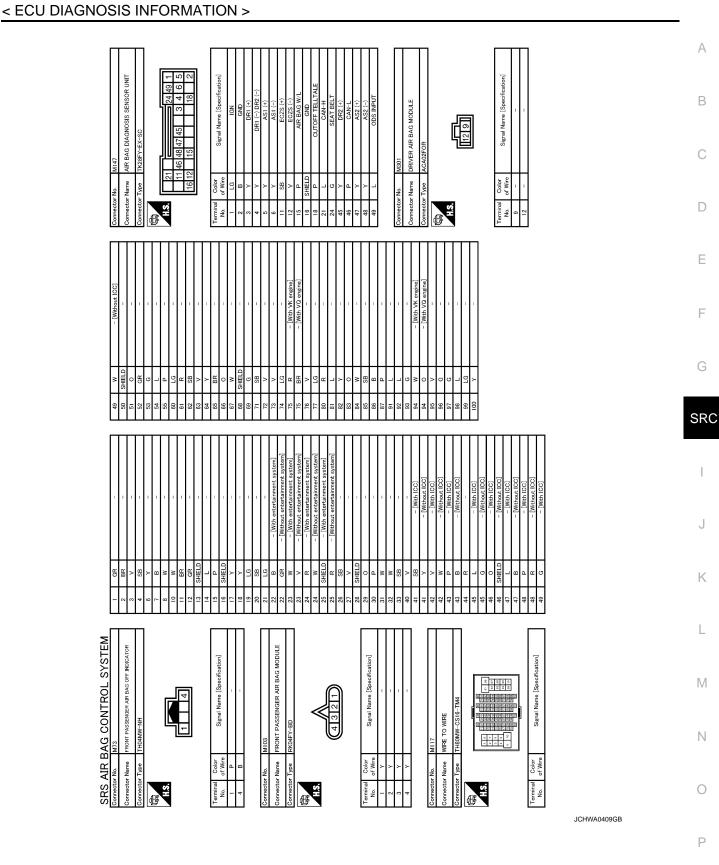
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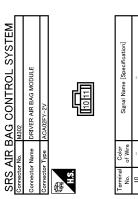


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Revision: 2009 August

< ECU DIAGNOSIS INFORMATION >



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| SRS AIR BAG WARNING LAMP DOES NOT TURN OFF | |
|---|------|
| < SYMPTOM DIAGNOSIS > | |
| SYMPTOM DIAGNOSIS | А |
| SRS AIR BAG WARNING LAMP DOES NOT TURN OFF | |
| Diagnosis Procedure | |
| 1.CHECK AIR BAG MODULE | |
| Check the deployment of front air bag module. | С |
| Is air bag module deployed? YES >> Refer to the following items. <u>SR-11, "Exploded View"</u> (Driver air bag module) <u>SR-17, "Exploded View"</u> (Front passenger air bag module) <u>SE-81, "Exploded View"</u> (Front side air bag module) <u>SR-19, "Exploded View"</u> (Side curtain air bag module). NO >> GO TO 2. | D |
| 2. CHECK AIR BAG FUSE | Е |
| Check the air bag fuse. Refer to PG-128, "Fuse". | |
| Is 10A fuse [No.2, located in fuse block (J/B)] normal? | |
| YES >> GO TO 4. NO >> Replace the air bag fuse and GO TO 3. | |
| 3. CHECK AIR BAG FUSE AGAIN | G |
| Turn ignition switch ON. | - |
| Check the air bag fuse. Refer to <u>PG-128. "Fuse"</u> . Does the air bag fuse blow again? | SRC |
| YES >> Repair or replace related harness. NO >> GO TO 4. | SILC |
| 4. CHECK SELF DIAGNOSIS RESULT | I |
| Perform "AIR BAG" Self Diagnostic result. | |
| Is DTC detected? | J |
| YES >> Repair or replace the malfunctioning parts. NO >> Check the intermittent incident. Refer to <u>GI-36, "Intermittent Incident</u> ". | |
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SRS AIR BAG WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

SRS AIR BAG WARNING LAMP DOES NOT TURN ON

Diagnosis Procedure

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1.CHECK METER FUSE

Check the meter fuse. Refer to PG-157, "Fuse and Fusible Link Arrangement".

Is 10A fuse [No.4, located in fuse block (J/B)] normal?

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

2. CHECK METER FUSE AGAIN

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

Does the meter fuse blow again?

YES >> Repair or replace the related harness.

NO >> INSPECTION END

3.CHECK HARNESS CONNECTION

1. Check harness connection between air bag diagnosis sensor unit and combination meter.

2. Disconnect air bag diagnosis sensor unit connector and turn ignition switch ON.

Does air bag warning lamp turn ON?

YES >> Replace air bag diagnosis sensor unit. Refer to <u>SR-25, "Exploded View"</u>.

NO >> Replace combination meter assembly. Refer to <u>MWI-146, "Exploded View"</u>.

< 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 AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIR BAG".
- 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.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

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 battery negative terminal and wait at least 3 minutes.

For approximately 3 minutes after the battery negative terminal is removed, it is still possible for the air bag and seat belt pre-tensioner to deploy. Therefore, do not work on any SRS connectors or wires until at least 3 minutes have elapsed.

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

Occupant Detection System Precaution

• Replace Occupant Detection System control unit and passenger front seat cushion as an assembly. Refer to <u>SE-84, "Removal and Installation"</u>.

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