SECTION SRC SRS AIRBAG CONTROL SYSTEM

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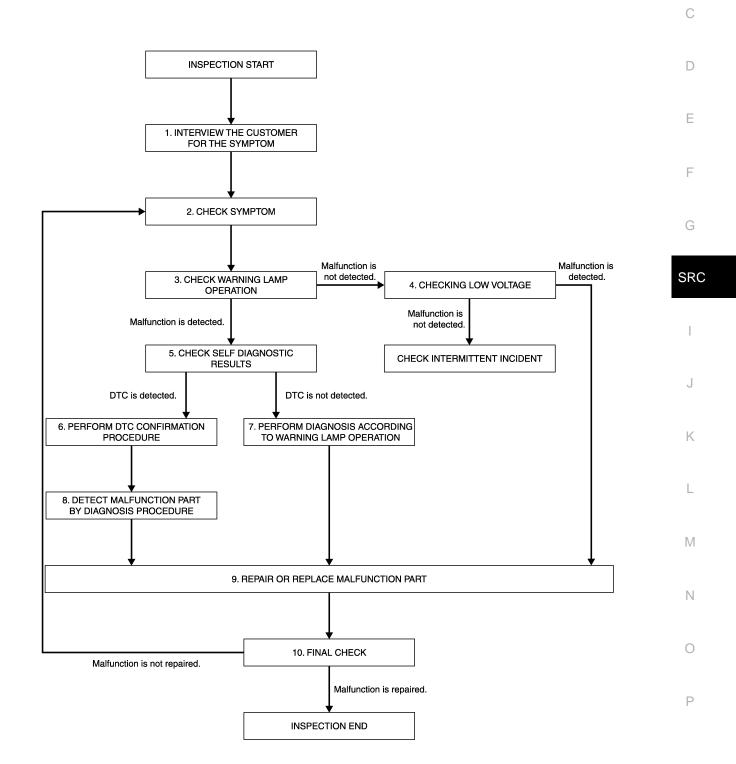
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< BASIC INSPECTION >

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

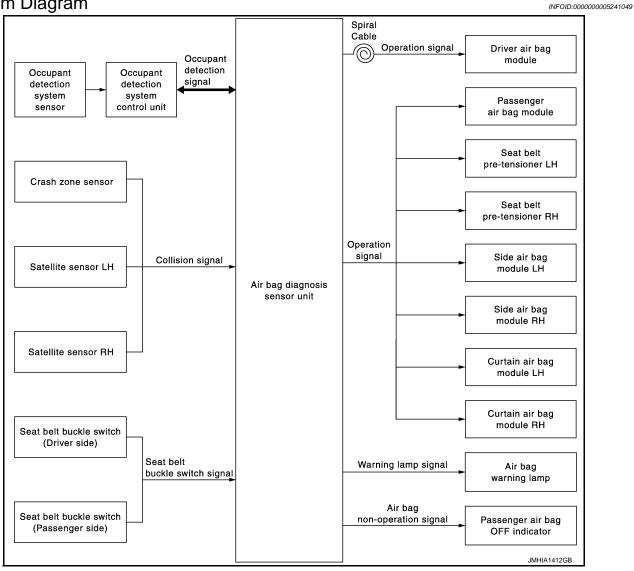
< BASIC INSPECTION >

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>	—	_	×	×	-

 \times : Apply

-: Not apply

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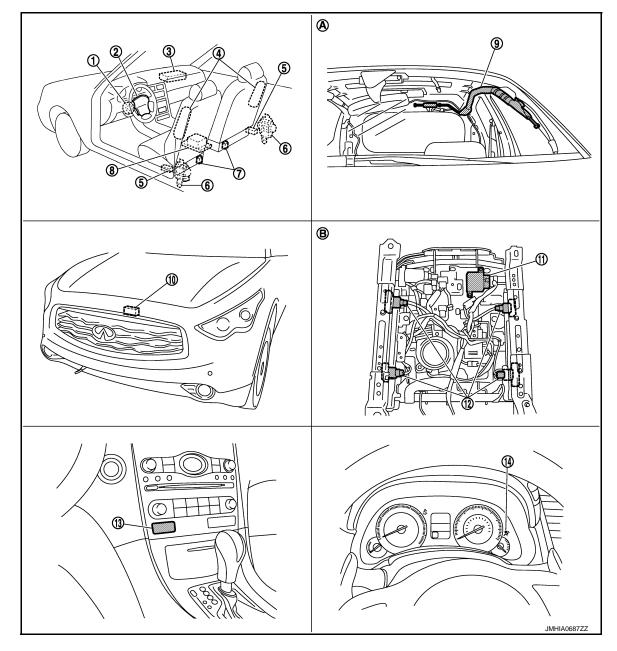
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SRS AIR BAG SYSTEM

< 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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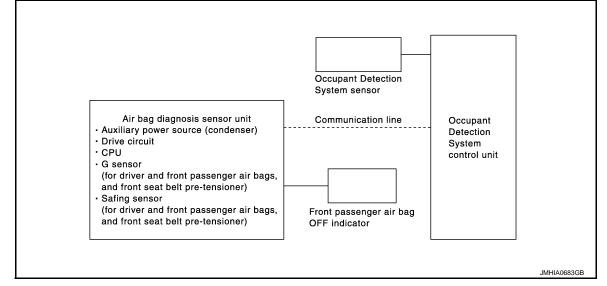
< SYSTEM DESCRIPTION >

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.

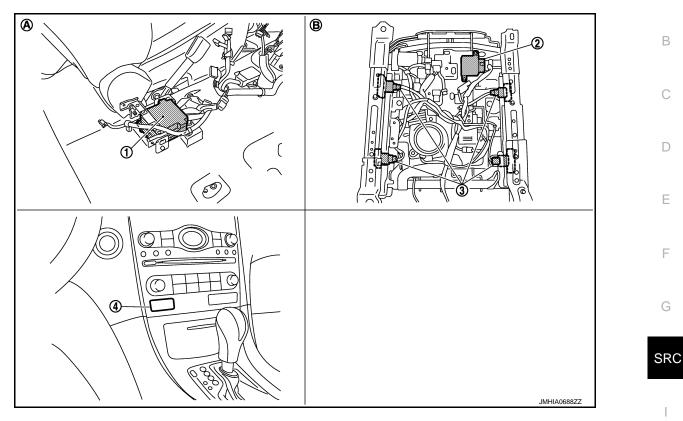
Status (front passenger seat)	Passenger air bag	Front passenger air bag OFF indicator	Air bag warning lamp	Seat belt warning lamp (when front passenger seat is unbuckled)
Empty	Suppress	OFF	OFF	OFF
An object	Suppress	ON	OFF	OFF
Child/ child-seat	Suppress	ON	OFF	ON
Adult	Enable to deploy	OFF	OFF	ON
Malfunction	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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INFOID:000000005241056

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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.

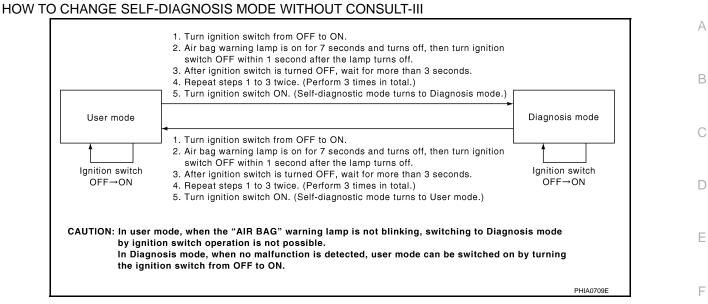
Air Bag Warning Lamp Diagnosis

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.

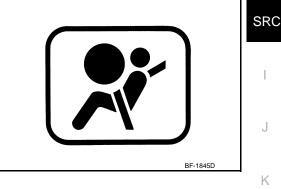
< SYSTEM DESCRIPTION >



DIAGNOSTIC PROCEDURE (USER MODE)

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

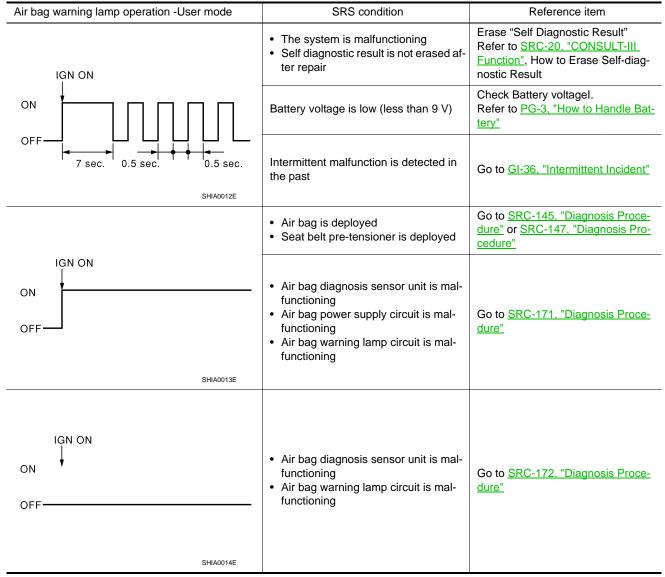
- 1. Turn the ignition switch from OFF to ON, and check that the air bag warning lamp blinks.
- 2. Compare the air bag warning lamp blinking pattern with the examples.



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			

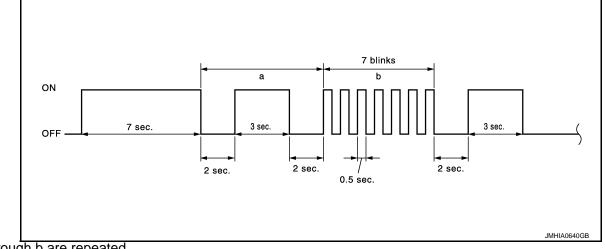
< SYSTEM DESCRIPTION >



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.

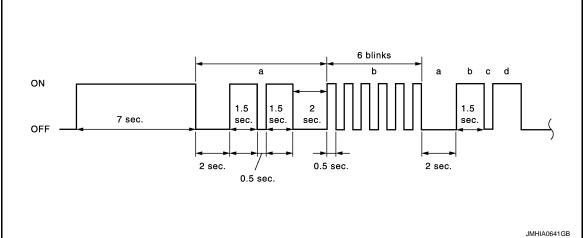
Number of 0.5-second blinks after a 3-second blink indicates malfunctioning items

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

INFOID:000000005241062

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

INFOID:000000005241065

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

INFOID:000000005241073

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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

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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

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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

INFOID:000000005241083

INFOID:000000005241082

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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

INFOID:000000005241086

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

INFOID:000000005241089

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

INFOID:000000005241092

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

INFOID:000000005241095

INFOID:000000005241094

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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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INFOID:000000005241097

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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?

INFOID:000000005241099

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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INFOID:000000005241102

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:000000005241103

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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: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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INFOID:000000005241114

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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

INFOID:000000005241116

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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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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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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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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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

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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

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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

INFOID:000000005241179

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

INFOID:000000005241182

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

INFOID:000000005241185

INFOID:000000005241184

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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

INFOID:000000005241209

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

INFOID:000000005241218

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

INFOID:000000005241221

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

INFOID:0000000005241224

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

INFOID:0000000005241227

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

INFOID:000000005241230

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

INFOID:000000005241233

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

INFOID:000000005241236

INFOID:000000005241235

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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

INFOID:000000005241239

INFOID:000000005241238

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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

INFOID:000000005241242

INFOID:000000005241241

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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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INFOID:000000005241243

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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

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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.

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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

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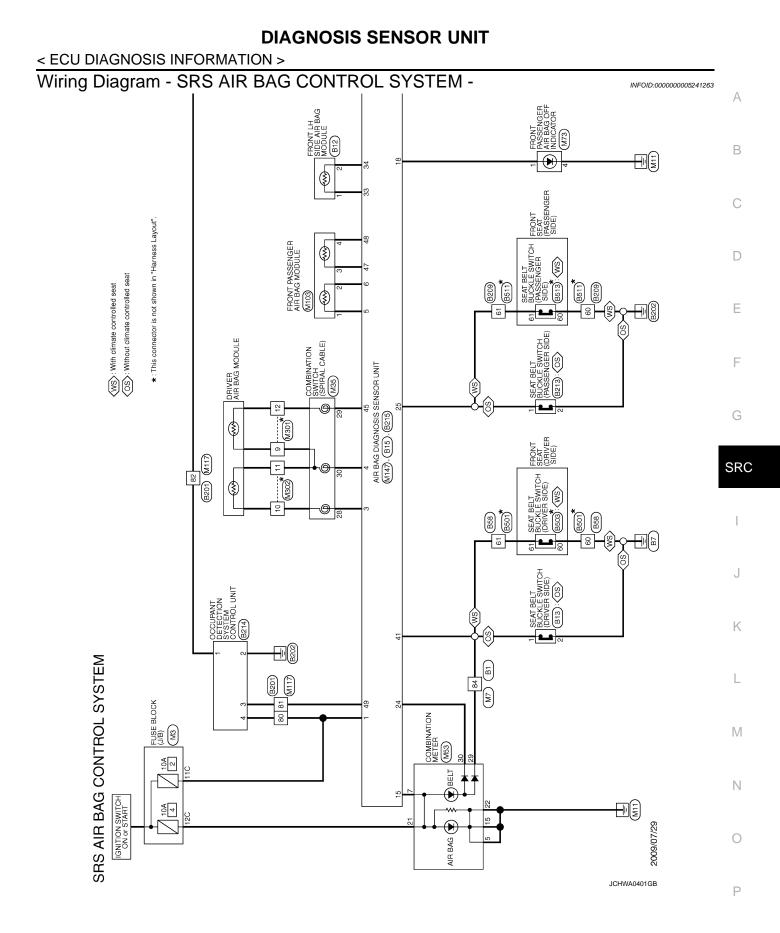
Diagnostic item		Explanation	Reference page
NO DTC IS DETECT-	When malfunction is in-	Low battery voltage (Less than 9 V)	SRC-29, "DTC Logic".
ED.	dicated by the "AIR BAG" warning lamp in User mode	Self-diagnostic result is not erased after repair	SRC-16, "Air Bag Warning Lamp Diag- nosis", SRC-20, "CONSULT-III 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".

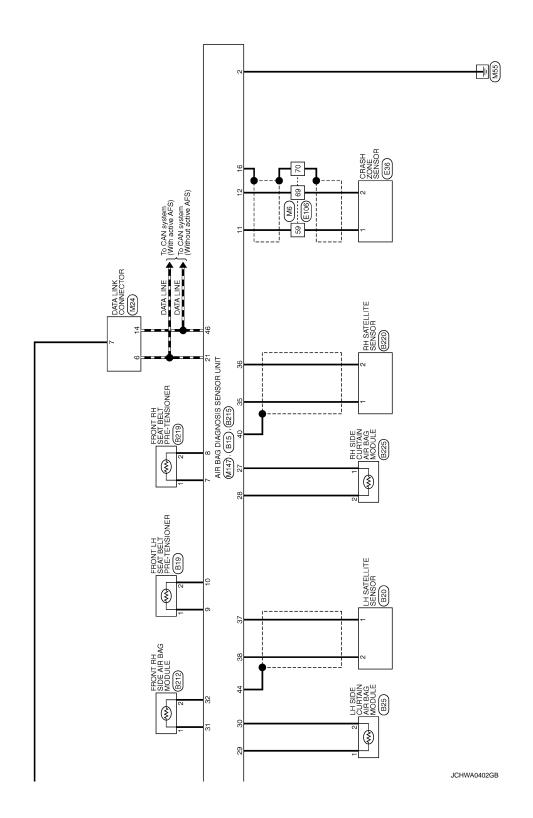
Diagnostic item	Explanation	Reference page
DRIVER AIRBAG MOD- JLE VB-SHORT] B1050] [B1055]	Driver air bag module circuit is shorted to some power supply cir- cuit (including the spiral cable)	SRC-51, "DTC Logic".
DRIVER AIRBAG MOD- JLE GND-SHORT] B1051] [B1056]	Driver air bag module circuit is shorted 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".

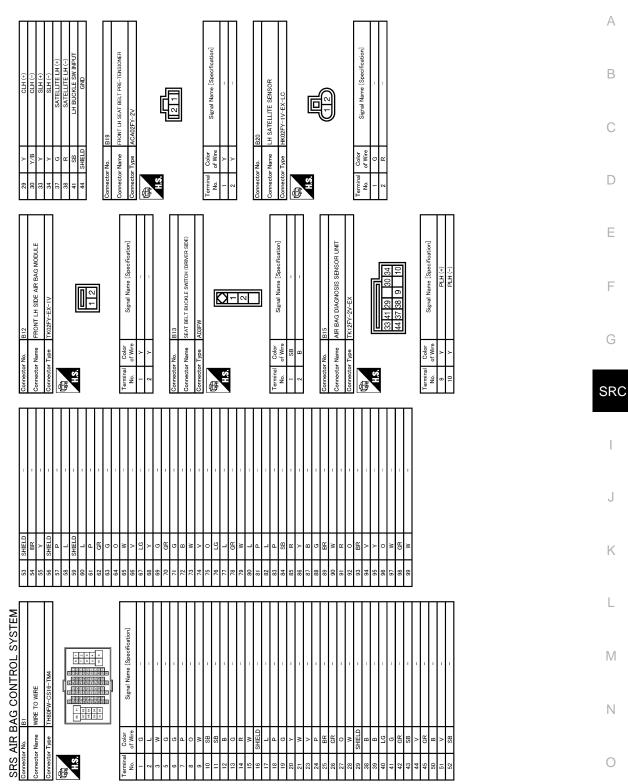
Diagnostic item	Explanation	Reference page
CURTAIN MODULE RH [OPEN] [B1145]	RH side curtain air bag module circuit is open	SRC-121, "DTC Logic".
CURTAIN MODULE RH [VB-SHORT] [B1146]	RH side curtain air bag module circuit is shorted to some power supply circuit	SRC-123, "DTC Logic".
CURTAIN MODULE RH [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".





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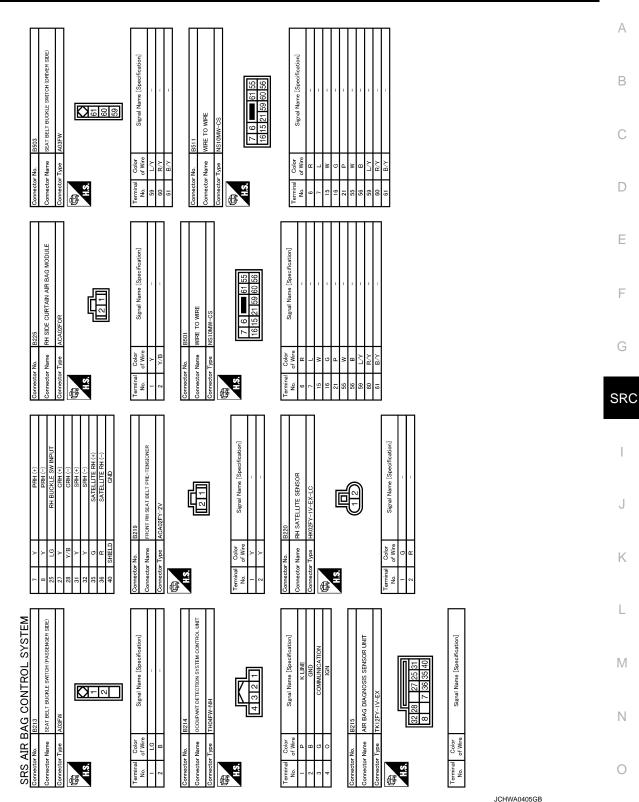
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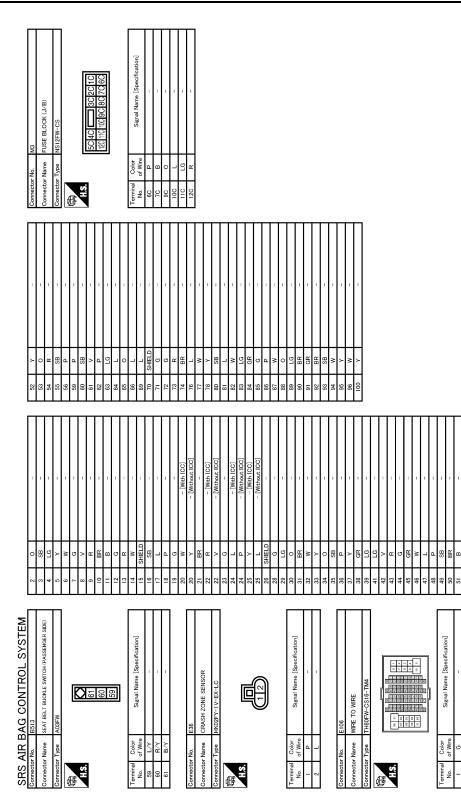
SRS AIR BAG CONTROL SYSTEM									
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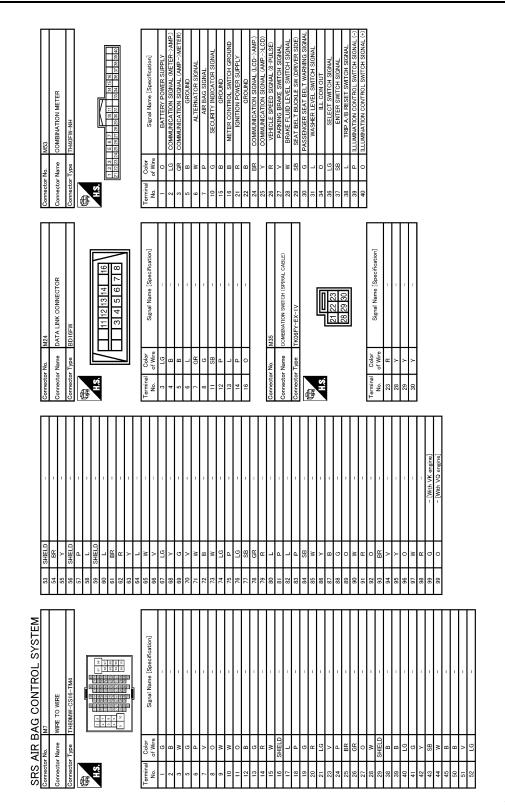


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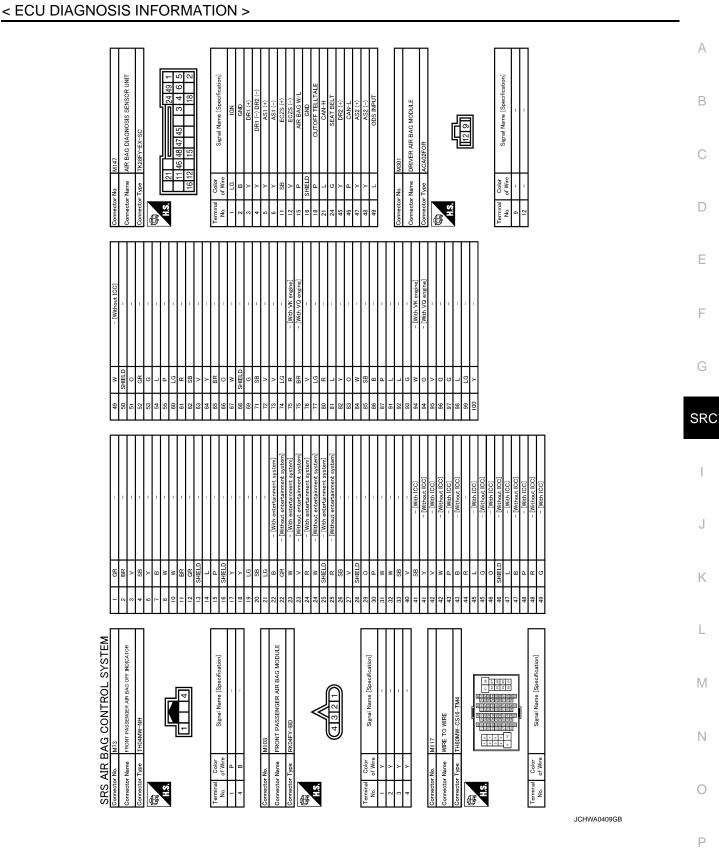
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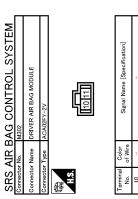


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SRS AIR BAG WARNING LAMP DOES NOT TURN OFF	
< SYMPTOM DIAGNOSIS >	
SYMPTOM DIAGNOSIS	А
SRS AIR BAG WARNING LAMP DOES NOT TURN OFF	
Diagnosis Procedure	
1.CHECK AIR BAG MODULE	
Check the deployment of front air bag module.	С
Is air bag module deployed? 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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