

SECTION **SRC**

SRS AIRBAG CONTROL SYSTEM

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

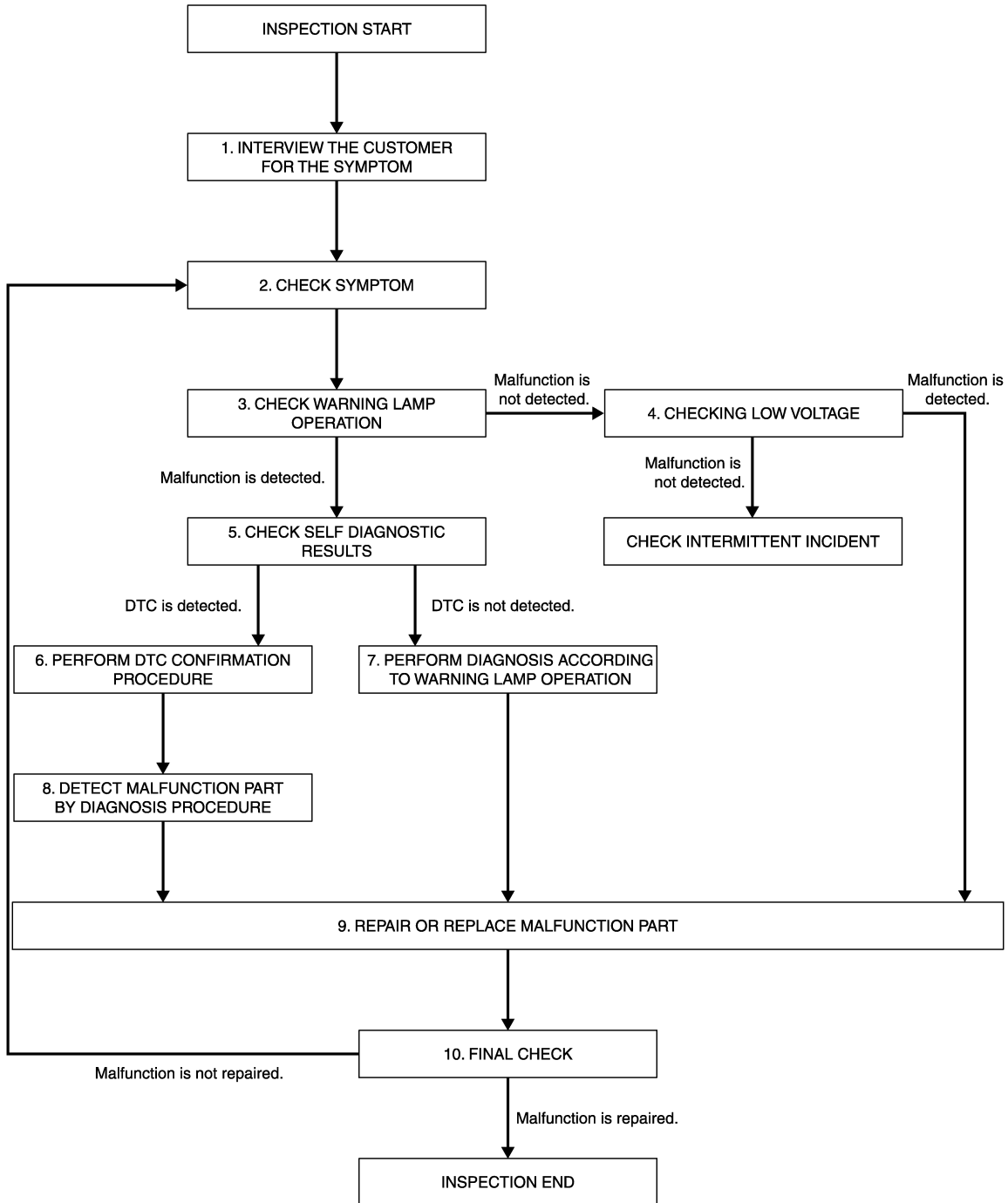
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

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OVERALL SEQUENCE



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DETAILED FLOW

Revision: 2012 July

SRC-5

2013 G Coupe

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 [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

Are any malfunction detected?

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 [GI-43, "Intermittent Incident"](#).

5. CHECK SELF DIAGNOSTIC RESULTS

Check self diagnostic result with CONSULT 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 out or write down)
- 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 [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).
2. Perform Diagnosis Procedure for the air bag warning lamp operation. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#) (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.

>> GO TO 10.

10.FINAL CHECK

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.

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SRS AIR BAG SYSTEM

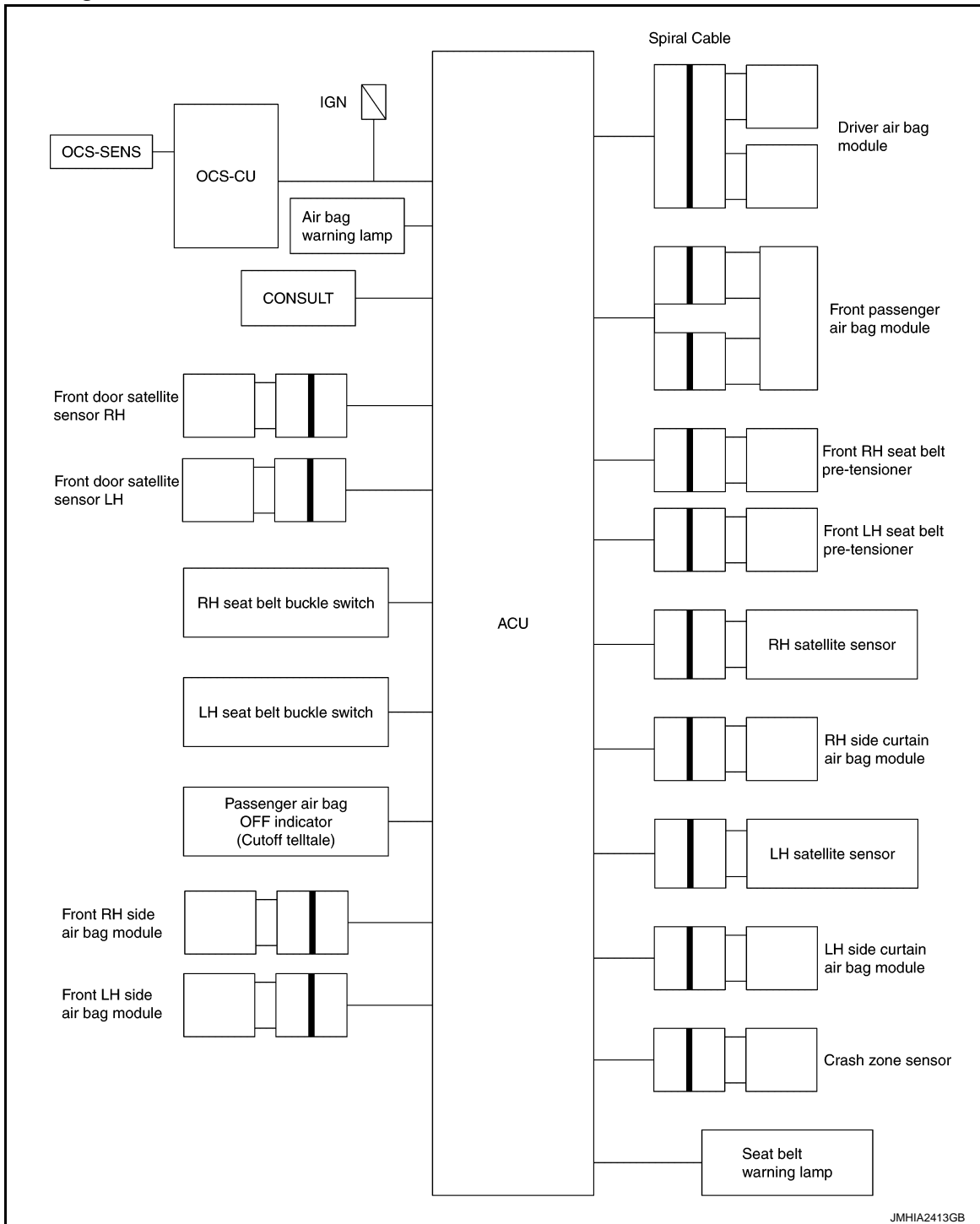
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

SRS AIR BAG SYSTEM

System Diagram

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System Description

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This SRS Air Bag System has the following functions.

- Detects a collision and supplies the energy for deploying air bag and seat belt pre-tensioner.
Air bag diagnosis sensor unit supplies power supply to air bag module and pre-tensioner seat belt when deceleration that is more than the specified limit is detected by G sensor in air bag diagnosis sensor unit,

SRS AIR BAG SYSTEM

< SYSTEM DESCRIPTION >

- crash zone sensor, or satellite sensor, or when pressure that is more than the specified limit is detected by front door satellite sensor.
- Detects electrical malfunction in SRS Air Bag System and Seat Belt Pre-tensioner System, records malfunction code, and blinking air bag warning lamp.
- Detects and records the deployment of air bag and seat belt pre-tensioner, and turns ON air bag warning lamp.
- Indicates malfunctioning portion with blinking times of air bag warning lamp in diagnosis mode.
- Indicates the malfunction record by CONSULT.
- 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.
- 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.

COLLISION MODE

- The operation of supplemental restraint system is different depending on the collision modes applications. 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.

×: Apply, —: Not apply

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

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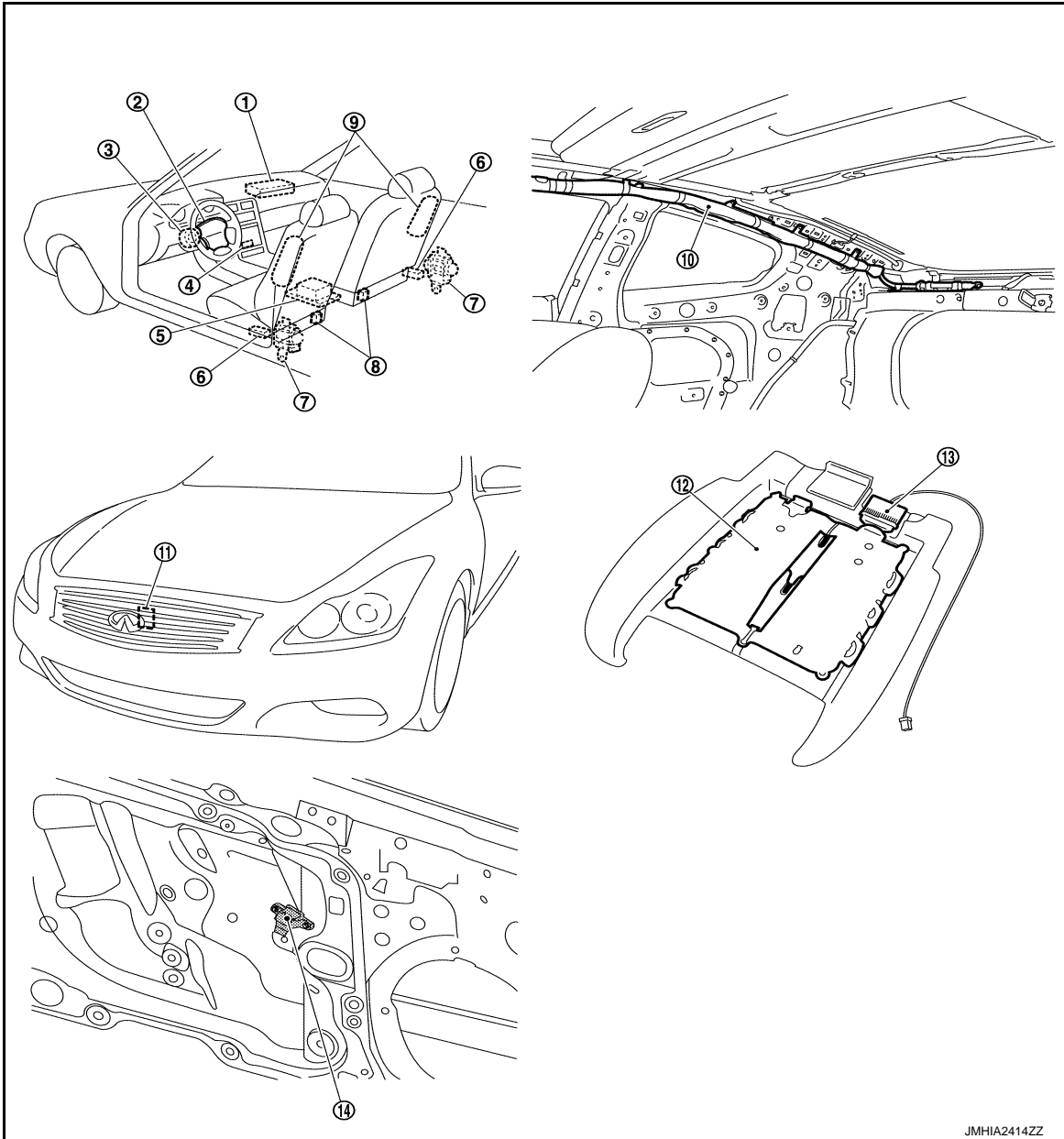
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SRS AIR BAG SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

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- | | | |
|---|---|--------------------------------------|
| 1. Front passenger air bag module | 2. Driver air bag module | 3. Spiral cable |
| 4. Passenger air bag off indicator (Cut-off telltale) | 5. Diagnosis sensor unit (ACU) | 6. Satellite sensor (LH/RH) |
| 7. Front seat belt pre-tensioner (LH/RH) | 8. Seat belt buckle switch (LH/RH) | 9. Front side air bag module (LH/RH) |
| 10. Curtain air bag module | 11. Crash zone sensor | 12. OCS seat sensor mat |
| 13. OCS control unit | 14. Front door satellite sensor (LH/RH) | |

Component Description

INFOID:000000008164233

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.	A
Air bag module • Driver • Passenger • Front side • Side curtain	Receives signal from air bag diagnosis sensor unit and deploys air bag.	B
Front seat belt pre-tensioner	Receives signal from air bag diagnosis sensor unit and deploys pre-tensioner seat belt.	C
Seat belt buckle switch	Controls deployment timing depending on the seat belt condition that is fastened or unfastened.	D
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.	E
Front door satellite sensor (LH/RH)	Transmits signal to air bag diagnosis sensor unit when a side collision occurs.	
Occupant Classification System	Detects front passenger seat occupant and judges whether or not deploys front passenger seat air bag.	F
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 Classification System.	G
Combination switch (spiral cable)	Supplies power supply to driver air bag module on steering wheel.	

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OCCUPANT CLASSIFICATION SYSTEM

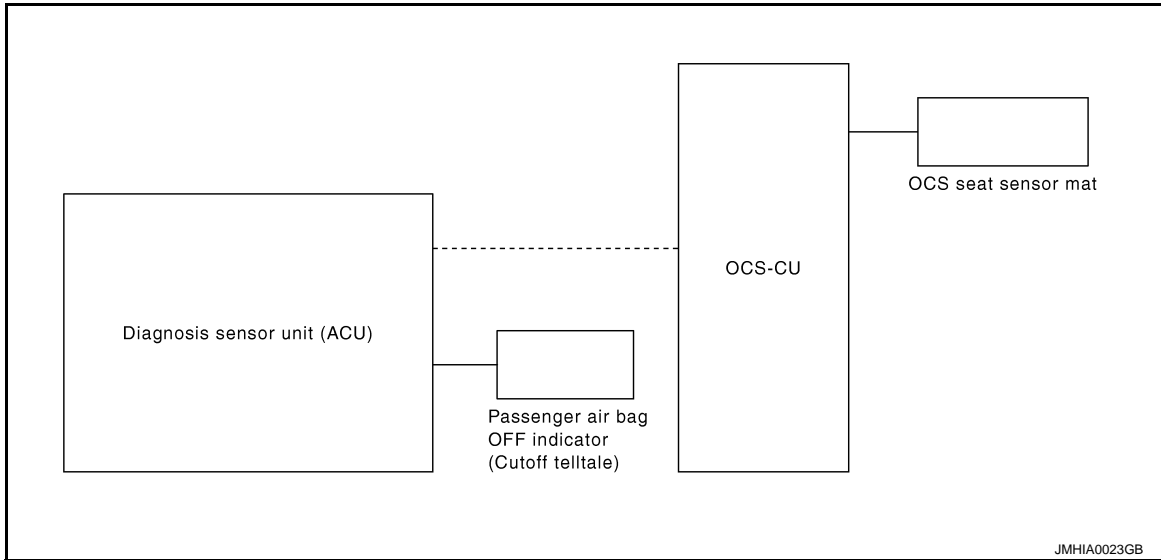
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OCCUPANT CLASSIFICATION SYSTEM

System Diagram

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OCCUPANT CLASSIFICATION SYSTEM



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System Description

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THIS OCCUPANT CLASSIFICATION 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.

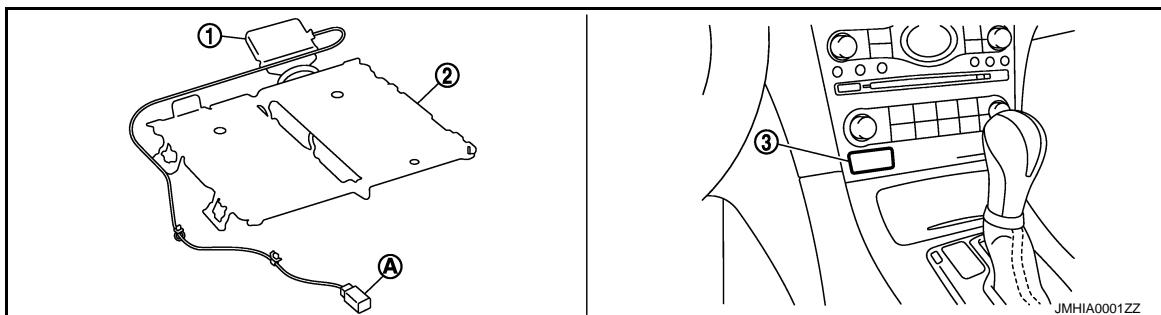
NOTE:

Operation of air bag diagnosis sensor unit when air bag diagnosis sensor unit receives information from Occupant Classification System.

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
Child/ child-seat	Suppress	ON	OFF	ON
Adult	Enable to deploy	OFF	OFF	ON
Malfunction	Suppress	ON	Blinking	OFF

Component Parts Location

INFOID:000000008164236



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OCCUPANT CLASSIFICATION SYSTEM

< SYSTEM DESCRIPTION >

1. OCS control unit
 2. OCS seat sensor mat
 3. Passenger air bag OFF indicator (cut-off telltale)
- A. OCS harness connector

Component Description

INFOID:000000008164237

Component parts	Outline of function
Seat sensor mat	Detects if the passenger seat is empty or occupied
Occupant Classification System control unit	Transmits the passenger seat status (occupied or empty) to air bag diagnosis sensor unit
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
Air bag diagnosis sensor unit	Performs the deploy judgement of passenger air bag based on the information from Occupant Classification System control unit

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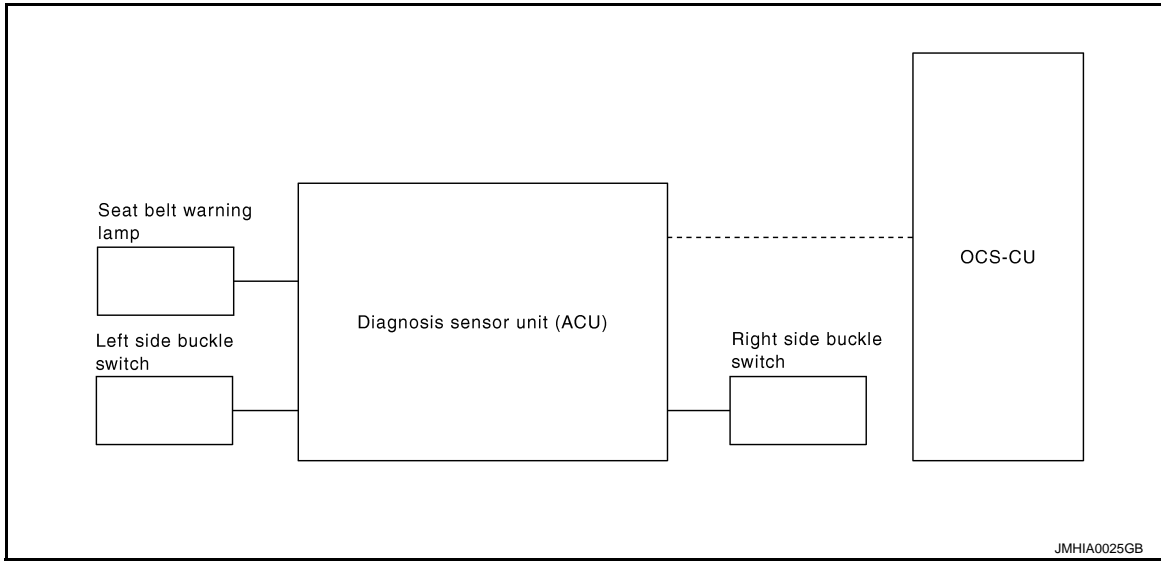
PASSENGER SEAT BELT WARNING SYSTEM

< SYSTEM DESCRIPTION >

PASSENGER SEAT BELT WARNING SYSTEM

System Diagram

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System Description

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- Turns ON seat belt warning lamp, when the Occupant Classification System judges adult or child in the front passenger seat and the passenger seat belt buckle switch is OFF.
- Operation of air bag diagnosis sensor unit when air bag diagnosis sensor unit receives information from Occupant Classification System.
- In addition, seat belt warning lamp illuminates, when the driver side seat belt is not fasten. This does not relate to the air bag diagnosis sensor unit.

Status (front passenger seat)	Seat belt warning lamp (When front passenger seat is unbuckled)
Empty	OFF
Child/ child-seat	ON
Adult	ON
Malfunction	OFF

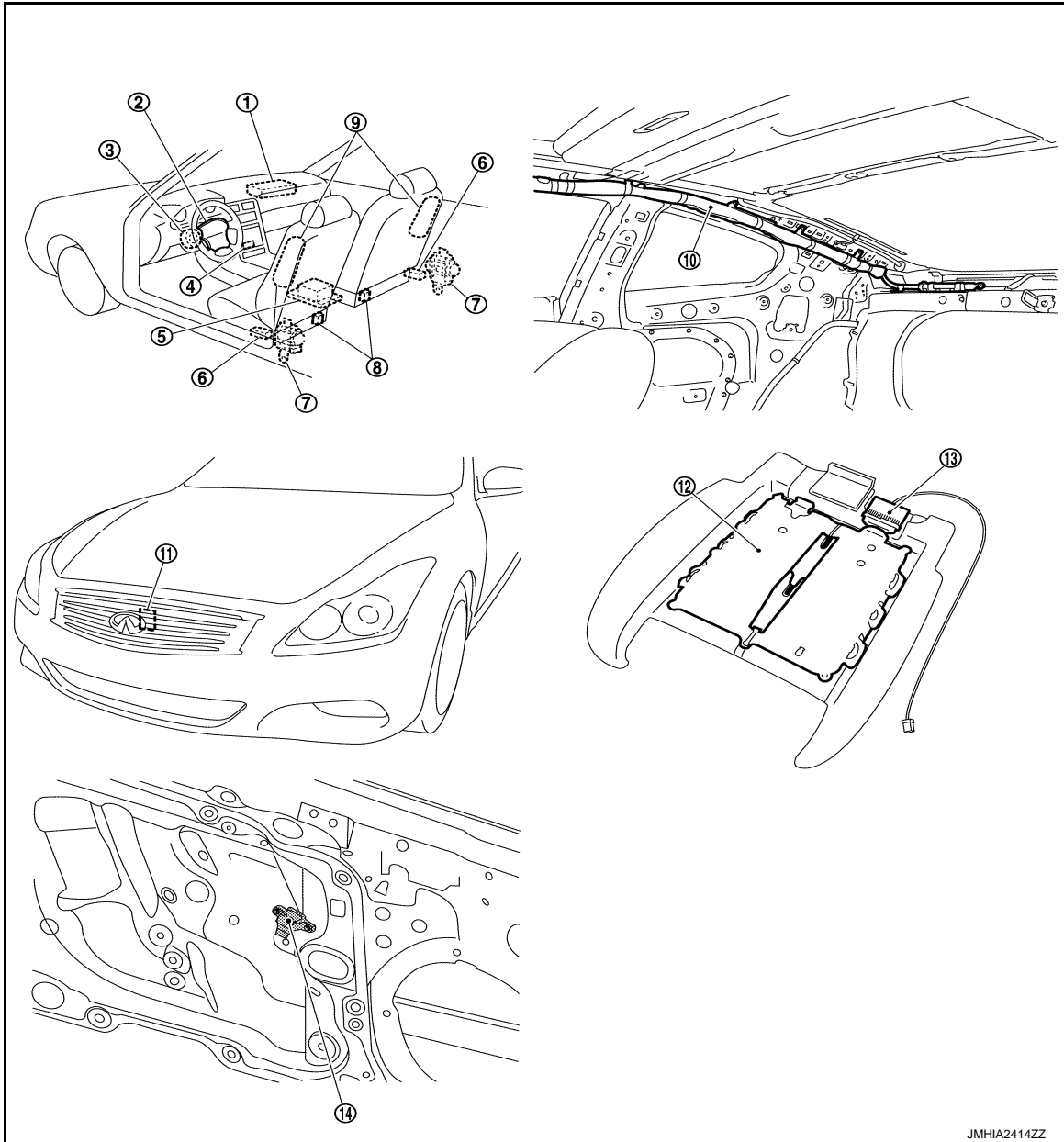
PASSENGER SEAT BELT WARNING SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

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SRS AIR BAG



- | | | |
|---|---|--------------------------------------|
| 1. Front passenger air bag module | 2. Driver air bag module | 3. Spiral cable |
| 4. Passenger air bag off indicator (Cut-off telltale) | 5. Diagnosis sensor unit (ACU) | 6. Satellite sensor (LH/RH) |
| 7. Front seat belt pre-tensioner (LH/RH) | 8. Seat belt buckle switch (LH/RH) | 9. Front side air bag module (LH/RH) |
| 10. Curtain air bag module | 11. Crash zone sensor | 12. OCS seat sensor mat |
| 13. OCS control unit | 14. Front door satellite sensor (LH/RH) | |

Component Description

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Component parts	Outline of function
Seat belt buckle switch (Driver side)	Detects if the seat belt buckle switch (driver side) is fastened or unfastened
Seat belt buckle switch (Passenger side)	Detects if the seat belt buckle switch (passenger side) is fastened or unfastened

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PASSENGER SEAT BELT WARNING SYSTEM

< SYSTEM DESCRIPTION >

Component parts	Outline of function
Seat belt warning lamp	Turns the seat belt warning lamp ON when the seat belt is unfastened
Occupant Classification System control unit	Judges the passenger seat condition based on the information from Occupant Classification System control unit
Seat sensor mat	Detects if the passenger seat is empty or occupied
Air bag diagnosis sensor unit	Turns ON seat belt warning lamp based on the information from Occupant Classification System control unit
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

DIAGNOSIS SYSTEM (AIRBAG)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (AIRBAG)

Diagnosis Description

INFOID:000000008164242

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.
- 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 are as per the following.

	User mode	Diagnosis mode	Display type
Air bag warning lamp	X	X	ON-OFF operation
CONSULT	—	X	Monitoring

x: 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 [PG-30. "Fuse"](#)).
- System component-to-harness connections.

Air Bag Warning Lamp Diagnosis

INFOID:000000008164243

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.

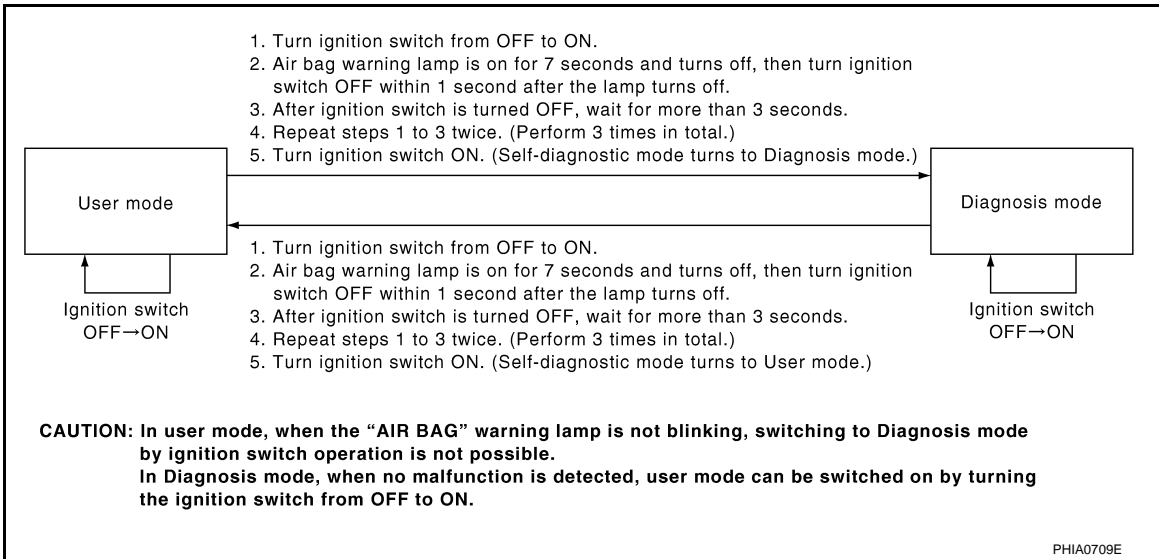
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SRC

DIAGNOSIS SYSTEM (AIRBAG)

< SYSTEM DESCRIPTION >

HOW TO CHANGE SELF-DIAGNOSIS MODE WITHOUT CONSULT



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.

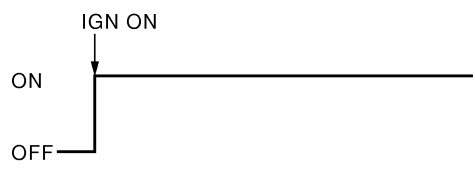
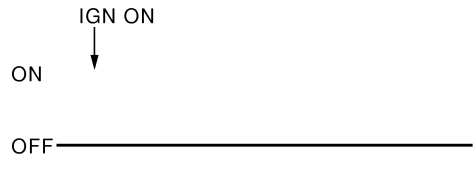


Air bag warning lamp examples (User mode)

Air bag warning lamp operation -User mode	SRS condition	Reference item
<p style="text-align: center;">SHIA0011E</p>	<ul style="list-style-type: none"> • No malfunction is detected • No further action is necessary 	—
<p style="text-align: center;">SHIA0012E</p>	The system is malfunctioning	Erase "Self Diagnostic Result" Refer to "How to Erase Self-diagnostic Result" or SRC-21. "CONSULT Function"
	Battery voltage is low (less than 9 V)	Check Battery voltage. Refer to PG-3. "How to Handle Battery"
	Intermittent malfunction has been detected in the past	Go to GI-43. "Intermittent Incident"

DIAGNOSIS SYSTEM (AIRBAG)

< SYSTEM DESCRIPTION >

Air bag warning lamp operation -User mode	SRS condition	Reference item
 <p style="text-align: right;">SHIA0013E</p>	<ul style="list-style-type: none"> Air bag is deployed Seat belt pre-tensioner is deployed 	Go to SRC-137, "Diagnosis Procedure" or SRC-139, "Diagnosis Procedure"
 <p style="text-align: right;">SHIA0014E</p>	<ul style="list-style-type: none"> Air bag diagnosis sensor unit is malfunctioning Air bag power supply circuit is malfunctioning Air bag warning lamp circuit is malfunctioning 	Go to SRC-174, "Diagnosis Procedure"

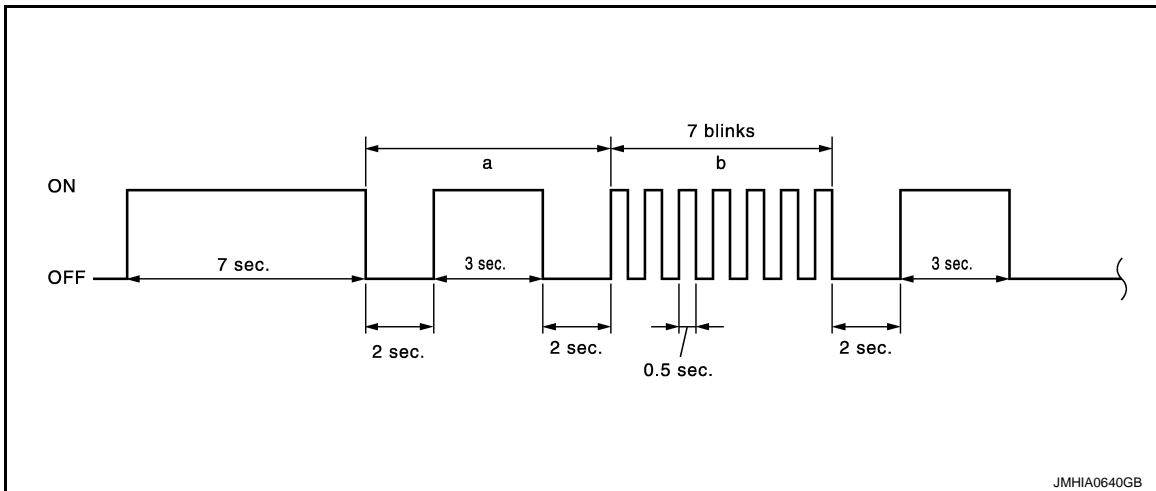
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SRC

DIAGNOSTIC PROCEDURE (DIAGNOSIS MODE)

- Turn the ignition switch ON, and check that the air bag warning lamp blinks.
- 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.

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-diagnosis result is not deleted	—
1	Front RH seat belt pre-tensioner	Refer to the following items <ul style="list-style-type: none"> SRC-65, "DTC Logic" SRC-67, "DTC Logic" SRC-69, "DTC Logic" SRC-71, "DTC Logic"

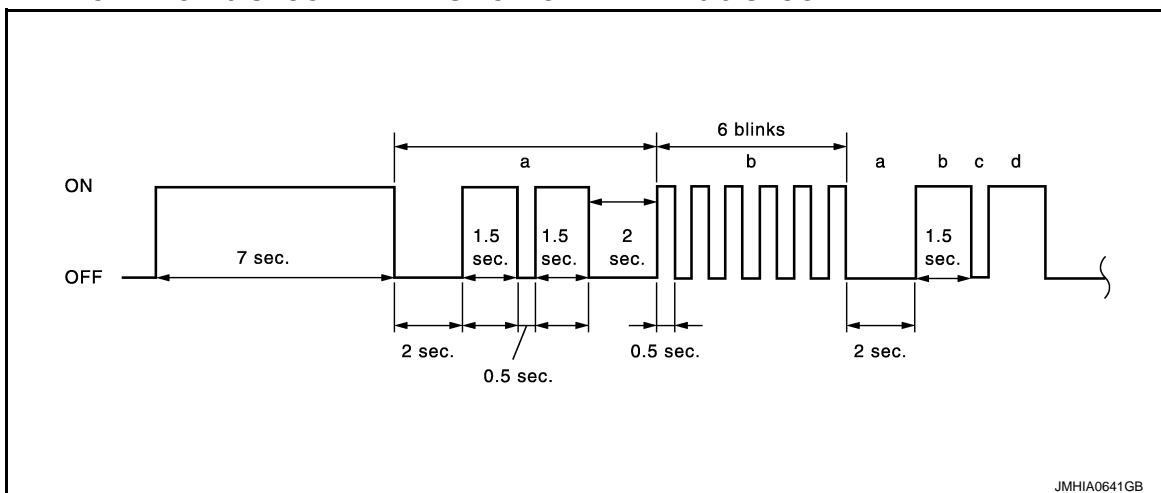
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DIAGNOSIS SYSTEM (AIRBAG)

< SYSTEM DESCRIPTION >

Number of 0.5-second blinks	Malfunctioning items	Blinking pattern
2	Driver air bag module	Refer to the following items <ul style="list-style-type: none"> • SRC-45, "DTC Logic" • SRC-47, "DTC Logic" • SRC-49, "DTC Logic" • SRC-51, "DTC Logic"
3	Front LH seat belt pre-tensioner	Refer to the following items <ul style="list-style-type: none"> • SRC-73, "DTC Logic" • SRC-75, "DTC Logic" • SRC-77, "DTC Logic" • SRC-79, "DTC Logic"
5	Occupant Classification System control unit	Refer to the following items <ul style="list-style-type: none"> • SRC-29, "DTC Logic" • SRC-31, "DTC Logic" • SRC-33, "DTC Logic"
6	Crash zone sensor	Refer to the following items <ul style="list-style-type: none"> • SRC-39, "DTC Logic" • SRC-41, "DTC Logic"
7	Air bag diagnosis sensor unit	Refer to the following items <ul style="list-style-type: none"> • SRC-23, "DTC Logic" • SRC-25, "DTC Logic" • SRC-27, "DTC Logic" • SRC-37, "DTC Logic" • SRC-43, "DTC Logic" • SRC-53, "DTC Logic" • SRC-63, "DTC Logic" • SRC-83, "DTC Logic" • SRC-93, "DTC Logic" • SRC-111, "DTC Logic" • SRC-135, "DTC Logic"
8	Front passenger air bag module	Refer to the following items <ul style="list-style-type: none"> • SRC-55, "DTC Logic" • SRC-57, "DTC Logic" • SRC-59, "DTC Logic" • SRC-61, "DTC Logic"
11	Front passenger air bag OFF indicator	Refer to SRC-35, "DTC Logic" .

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

DIAGNOSIS SYSTEM (AIRBAG)

< SYSTEM DESCRIPTION >

Number of 0.5-second blinks	Malfunctioning items	Blinking pattern
1	Front RH side air bag module	Refer to the following items <ul style="list-style-type: none"> • SRC-95, "DTC Logic" • SRC-97, "DTC Logic" • SRC-99, "DTC Logic" • SRC-101, "DTC Logic"
2	Front LH side air bag module	Refer to the following items <ul style="list-style-type: none"> • SRC-103, "DTC Logic" • SRC-105, "DTC Logic" • SRC-107, "DTC Logic" • SRC-109, "DTC Logic"
3	RH satellite sensor	Refer to the following items <ul style="list-style-type: none"> • SRC-85, "DTC Logic" • SRC-87, "DTC Logic"
4	LH satellite sensor	Refer to the following items <ul style="list-style-type: none"> • SRC-89, "DTC Logic" • SRC-91, "DTC Logic"
5	RH side curtain air bag module	Refer to the following items <ul style="list-style-type: none"> • SRC-113, "DTC Logic" • SRC-115, "DTC Logic" • SRC-117, "DTC Logic" • SRC-119, "DTC Logic"
6	LH side curtain air bag module	Refer to the following items <ul style="list-style-type: none"> • SRC-121, "DTC Logic" • SRC-123, "DTC Logic" • SRC-125, "DTC Logic" • SRC-127, "DTC Logic"
9	RH front door satellite sensor	Refer to the following items <ul style="list-style-type: none"> • SRC-151, "DTC Logic" • SRC-153, "DTC Logic" • SRC-155, "DTC Logic"
10	LH front door satellite sensor	Refer to the following items <ul style="list-style-type: none"> • SRC-156, "DTC Logic" • SRC-158, "DTC Logic" • SRC-160, "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 Function

INFOID:000000008164244

APPLICATION ITEM

CONSULT performs the following functions.

Diagnosis mode	Description
Ecu Identification	Air bag diagnosis sensor unit ECU discriminated number (identification number) or part number is displayed. Air bag diagnosis sensor unit has individual ECU discriminated number (identification number) or part number based on model and equipment.
Self Diagnostic Result	<ul style="list-style-type: none"> • Self-diagnosis result is displayed. Refer to SRC-165, "DTC Index". • "No DTC" is displayed when repair is completed by part replacement or other operations. • "SELF-DIAG RESULT [MEMORY]" is displayed until "Erase" is performed. <p>CAUTION: When "No DTC" is displayed after repair, always perform "Erase". If this is not done SRS air bag warning lamp remains blinking when user mode is resumed.</p>
TROUBLE DIAG RECORD	With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed on CONSULT screen.

DIAGNOSIS SYSTEM (AIRBAG)

< SYSTEM DESCRIPTION >

Diagnosis mode	Description
SELF-DIAG RESULT [CAN]	CAN diagnosis result is displayed.
Cause of Warning Lamp	It displays the cause of warning lamp illumination that is not recorded in memory.

CAUSE OF WARNING LAMP

The SRS air bag warning lamp blinks when the ignition voltage is a voltage value (9V or less) at which the SRS air bag cannot operate normally. After blinking, if the ignition voltage returns to normal, SRS air bag warning lamp turns OFF. DTC memory is not performed while the abnormal ignition voltage is detected. The mode cannot be switched to trouble diagnosis mode when the ignition switch is operated. "No DTC" is displayed when checking "Self-diagnosis result" using CONSULT.

NOTE:

- SRS air bag warning may blink when the condition is out of detection area* of the satellite sensor in door.
The system is normal if SRS air bag warning lamp turns OFF after the condition returns within detection area of the satellite sensor in door.
- *: Pressure inside of door is excessively low and air bag system cannot be operated normally (example: altitude is approximately 4,000 m or more).

Display item	Display content	Actions by worker
IGN VOLT COND	The ignition voltage recognized by air bag system (air bag control unit and occupant detection system control unit) is displayed or a message stating that condition is out of detection range of satellite sensor in door is displayed. <ul style="list-style-type: none"> • OK: Normal • LOW: The ignition voltage is low, high, or out of detection range of satellite sensor in door 	Perform the check at an altitude of 4,000 m or less. <ul style="list-style-type: none"> • Check battery voltage if the ignition voltage status is displayed as "LOW". • Check battery voltage if the ignition voltage status is "OK" and the number of times detected is 1 or more. This is because an ignition voltage error may be detected in the past. NOTE: If battery voltage is normal, the cause may be that out of detection range of satellite sensor in door is detected.
IGN VOLT TIME	Total number of times is displayed, summing up the number of times ignition voltage error is detected and the number of times that out of detection range of satellite sensor in door is detected. (Detection record is erased and counter returns to "0" by "ERASE MEMORY" in "Self-diagnosis results" using CONSULT.)	
LOW V RECORDED	Number of times ignition switch ON is displayed after ignition voltage error or out of detection range of satellite sensor in door is detected. (Detection record is erased and counter returns to "0" by "ERASE MEMORY" in "Self-diagnosis results" using CONSULT.)	

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

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

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

Description

INFOID:000000008164245

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 CONSULT.

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:000000008164246

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1001 B1002 B1003 B1004 B1005	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning or out of the specification	<ul style="list-style-type: none">Malfunction in air bag diagnosis sensor unitConfiguration in air bag diagnosis sensor unit does not match the vehicles specification

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "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-23, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164247

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.

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

< 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 AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24. "Exploded View"](#).

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

INFOID:000000008164248

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 CONSULT.

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:000000008164249

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1006 B1007 B1008 B1009 B1010	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning or out of the specification	<ul style="list-style-type: none">Malfunction in air bag diagnosis sensor unitConfiguration in air bag diagnosis sensor unit does not match the vehicles specification

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "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-25, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164250

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.

B1006, B1007, B1008, B1009, B1010 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 [SR-24, "Exploded View"](#)

2. Perform DTC confirmation procedure. Refer to [SRC-25, "DTC Logic"](#)

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

INFOID:000000008164251

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 CONSULT.

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:000000008164252

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1011 B1012 B1013 B1014 B1015	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning or out of the specification	<ul style="list-style-type: none">Malfunction in air bag diagnosis sensor unitConfiguration in air bag diagnosis sensor unit does not match the vehicles specification

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "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-27, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164253

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.

B1011, B1012, B1013, B1014, B1015 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 [SR-24, "Exploded View"](#)

2. Perform DTC confirmation procedure. Refer to [SRC-27, "DTC Logic"](#)

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:000000008164254

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 can detect the cause.

OPERATION

This unit classifies occupant in passenger seat and detects electrical malfunctions in Occupant Classification 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 Classification System control unit that classifies the occupants.

INSTALLATION

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

DTC Logic

INFOID:000000008164255

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1017 B1020 B1021	OCCUPANT SENS C/U [UNIT FAIL]	Malfunction occurs in Occupant Classification System control unit	<ul style="list-style-type: none">• Disconnection of wiring harness• Malfunction in Occupant Classification System control unit• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-29, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164256

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.

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 AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-29, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

1. Replace seat cushion frame. Refer to [SE-163, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-29, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1018 OCCUPANT SENS

< DTC/CIRCUIT DIAGNOSIS >

B1018 OCCUPANT SENS

Description

INFOID:000000008164257

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 can detect the cause.

OPERATION

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

STRUCTURE

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

INSTALLATION

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

DTC Logic

INFOID:000000008164258

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1018	OCCUPANT SENS [UNIT FAIL]	Malfunction occurs in Occupant Classification System sensor	<ul style="list-style-type: none">• Disconnection of wiring harness• Malfunction in Occupant Classification System sensor• Malfunction in Occupant Classification System control unit• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-31, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164259

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.

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.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-31, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT AND SENSOR

1. Replace seat cushion frame. Refer to [SR-24, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-31, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1022 OCCUPANT SENS C/U

< DTC/CIRCUIT DIAGNOSIS >

B1022 OCCUPANT SENS C/U

Description

INFOID:000000008164260

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 can detect the cause.

OPERATION

This unit classifies occupant in passenger seat and detects electrical malfunction in Occupant Classification 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 Classification System control unit that classifies the occupants.

INSTALLATION

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

DTC Logic

INFOID:000000008164261

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1022	OCCUPANT SENS C/U [COMM FAIL]	Malfunction occurs in Occupant Classification System control unit, circuit of Occupant Classification System control unit-Air bag diagnosis sensor unit or Air bag diagnosis sensor unit	<ul style="list-style-type: none"> • Disconnection of wiring harness • Malfunction in Occupant Classification System control unit • Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-33, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164262

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.

B1022 OCCUPANT SENS C/U

< DTC/CIRCUIT DIAGNOSIS >

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.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-33, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.CHECK OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

1. Replace seat cushion frame. Refer to [SE-163, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-33, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1023 PASS A/B INDCTR CKT

< DTC/CIRCUIT DIAGNOSIS >

B1023 PASS A/B INDCTR CKT

Description

INFOID:000000008164263

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 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

INFOID:000000008164264

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1023	PASS A/B INDCTR CKT	Passenger air bag OFF indicator circuit is open or shorted to ground or the circuits are shorted each other	<ul style="list-style-type: none">• 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

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-35, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164265

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.

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 [IP-12, "A/T MODELS : Exploded View"](#) (A/T models) or [IP-23, "M/T MODELS : Exploded View"](#) (M/T models).

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 [SR-24, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-35, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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

< DTC/CIRCUIT DIAGNOSIS >

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

Description

INFOID:000000008164266

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 CONSULT.

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:000000008164267

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1026 B1027 B1028 B1029 B1030 B1031	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning or out of the specification	<ul style="list-style-type: none">Malfunction in air bag diagnosis sensor unitConfiguration in air bag diagnosis sensor unit does not match the vehicles specification

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "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-37, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164268

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

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

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-37, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1033, B1034 CRASH ZONE SEN

< DTC/CIRCUIT DIAGNOSIS >

B1033, B1034 CRASH ZONE SEN

Description

INFOID:000000008164269

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:000000008164270

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1033 B1034	CRASH ZONE SEN [UNIT FAIL]	Crash zone sensor is malfunctioning	<ul style="list-style-type: none">• Disconnection of wiring harness• Malfunction in crash zone sensor• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-39, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164271

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?

B1033, B1034 CRASH ZONE SEN

< DTC/CIRCUIT DIAGNOSIS >

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

3.REPLACE CRASH ZONE SENSOR

1. Replace crash zone sensor. Refer to [SR-21, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-39, "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 [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-39, "DTC Logic"](#).

Is DTC detected?

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

B1035, B1036 CRASH ZONE SEN

< DTC/CIRCUIT DIAGNOSIS >

B1035, B1036 CRASH ZONE SEN

Description

INFOID:000000008164272

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:000000008164273

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1035	CRASH ZONE SEN [COMM FAIL]	Crash zone sensor is malfunctioning or out of the specified specification	<ul style="list-style-type: none">• Disconnection of wiring harness• Malfunction in crash zone sensor• Malfunction in air bag diagnosis sensor unit
B1036	CRASH ZONE SEN [UNMATCH]		

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-41, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164274

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?

B1035, B1036 CRASH ZONE SEN

< DTC/CIRCUIT DIAGNOSIS >

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

3.REPLACE CRASH ZONE SENSOR

1. Replace crash zone sensor. Refer to [SR-21, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-41, "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 [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-41, "DTC Logic"](#).

Is DTC detected?

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

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

< DTC/CIRCUIT DIAGNOSIS >

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

Description

INFOID:000000008164275

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 CONSULT.

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:000000008164276

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1042 B1043 B1044 B1045 B1046 B1047	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning or out of the specification	<ul style="list-style-type: none">Malfunction in air bag diagnosis sensor unitConfiguration in air bag diagnosis sensor unit does not match the vehicles specification

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "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-43, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164277

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

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

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-43, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1049, B1054 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1049, B1054 DRIVER AIRBAG MODULE

Description

INFOID:000000008164278

For driver 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

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

INFOID:000000008164279

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1049 B1054	DRIVER AIRBAG MODULE [OPEN]	Driver air bag module circuit is open (including the spiral cable)	<ul style="list-style-type: none">• Disconnection of wiring harness and open• Malfunction in driver air bag module• Malfunction in spiral cable• Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-45, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164280

WARNING:

With CONSULT

- 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.

B1049, B1054 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- 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		Combination switch (spiral cable)		Continuity
Connector	Terminal	Connector	Terminal	
M302	10	M35	28	Existed
	11		30	
M301	12		29	
	9		30	

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

Driver side air bag module		Ground	Continuity
Connector	Terminal		
M302	10	Ground	Not existed
	11		
M301	12		
	9		

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace combination switch (spiral cable). Refer to [SR-14, "Exploded View"](#).

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-45, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 5.
NO >> INSPECTION END

5. REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to [SR-11, "Exploded View"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-45, "DTC Logic"](#).

Is DTC detected?

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

B1050, B1055 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1050, B1055 DRIVER AIRBAG MODULE

Description

INFOID:000000008164281

For driver 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

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

INFOID:000000008164282

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1050 B1055	DRIVER AIRBAG MODULE [VB-SHORT]	Driver air bag module circuit is shorted to some power supply circuit (including the spiral cable)	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in driver air bag module• Malfunction in spiral cable• Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-47, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164283

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.

B1050, B1055 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

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		Combination switch (spiral cable)		Continuity
Connector	Terminal	Connector	Terminal	
M302	10	M35	28	Existed
	11		30	
M301	12		29	
	9		30	

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

Driver side air bag module		Ground	Continuity
Connector	Terminal		
M302	10	Ground	Not existed
	11		
M301	12		
	9		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace combination switch (spiral cable). Refer to [SR-14, "Exploded View"](#).

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-47, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 5.

NO >> INSPECTION END

5. REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to [SR-11, "Exploded View"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-45, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1051, B1056 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1051, B1056 DRIVER AIRBAG MODULE

Description

INFOID:000000008164284

For driver 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

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

INFOID:000000008164285

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1051 B1056	DRIVER AIRBAG MODULE [GND-SHORT]	Driver air bag module circuit is shorted to ground (including the spiral cable)	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in driver air bag module• Malfunction in spiral cable• Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-49, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164286

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.

B1051, B1056 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- 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		Combination switch (spiral cable)		Continuity
Connector	Terminal	harness connector	Terminal	
M302	10	M35	28	Existed
	11		30	
M301	12		29	
	9		30	

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

Driver side air bag module		Ground	Continuity
Connector	Terminal		
M302	10		Not existed
	11		
M301	12		
	9		

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace combination switch (spiral cable). Refer to [SR-24, "Exploded View"](#).

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-49, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 5.
NO >> INSPECTION END

5. REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to [SR-11, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-49, "DTC Logic"](#).

Is DTC detected?

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

B1052, B1057 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1052, B1057 DRIVER AIRBAG MODULE

Description

INFOID:000000008164287

For driver 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

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

INFOID:000000008164288

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1052 B1057	DRIVER AIRBAG MODULE [SHORT]	Driver air bag module circuit are shorted to each other (including the spiral cable)	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in driver air bag module• Malfunction in spiral cable• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-51, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164289

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.

B1052, B1057 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- 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		Combination switch (spiral cable)		Continuity
Connector	Terminal	Connector	Terminal	
M302	10	M35	28	Existed
	11		30	
M301	12		29	
	9		30	

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

Driver side air bag module		Ground	Continuity
Connector	Terminal		
M302	10		Not existed
	11		
M301	12		
	9		

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace combination switch (spiral cable). Refer to [SR-14, "Exploded View"](#).

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-51, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 5.
NO >> INSPECTION END

5. REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to [SR-11, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-51, "DTC Logic"](#).

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

INFOID:000000008164290

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 CONSULT.

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:000000008164291

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1058 B1059 B1060 B1061 B1062 B1063	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning or out of the specification	<ul style="list-style-type: none">Malfunction in air bag diagnosis sensor unitConfiguration in air bag diagnosis sensor unit does not match the vehicles specification

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "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-53, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164292

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

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

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24. "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-53. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1065, B1070 ASSIST A/B MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1065, B1070 ASSIST A/B MODULE

Description

INFOID:000000008164293

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:000000008164294

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1065 B1070	ASSIST A/B MODULE [OPEN]	Front passenger air bag module circuit is open	<ul style="list-style-type: none">• Disconnection of wiring harness and open• Malfunction in front passenger air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-55, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164295

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.

B1065, B1070 ASSIST A/B MODULE

< 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 [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-55, "DTC Logic"](#).

Is DTC detected?

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

4.REPLACE FRONT PASSENGER AIR BAG MODULE

1. Replace front passenger air bag module. Refer to [SR-17, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-55, "DTC Logic"](#).

Is DTC detected?

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

B1066, B1071 ASSIST A/B MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1066, B1071 ASSIST A/B MODULE

Description

INFOID:000000008164296

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:000000008164297

DTC DETECTION LOGIC

DTC	CONSULT display description	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	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front passenger air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-57, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164298

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.

B1066, B1071 ASSIST A/B MODULE

< 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 [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-57, "DTC Logic"](#).

Is DTC detected?

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

4.REPLACE FRONT PASSENGER AIR BAG MODULE

1. Replace front passenger air bag module. Refer to [SR-17, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-57, "DTC Logic"](#).

Is DTC detected?

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

B1067, B1072 ASSIST A/B MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1067, B1072 ASSIST A/B MODULE

Description

INFOID:000000008164299

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:000000008164300

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1067 B1072	ASSIST A/B MODULE [GND-SHORT]	Front passenger air bag module circuit is shorted to ground	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front passenger air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-59, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164301

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.

B1067, B1072 ASSIST A/B MODULE

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-59, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE FRONT PASSENGER AIR BAG MODULE

1. Replace front passenger air bag module. Refer to [SR-17, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-59, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1068, B1073 ASSIST A/B MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1068, B1073 ASSIST A/B MODULE

Description

INFOID:000000008164302

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:000000008164303

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1068 B1073	ASSIST A/B MODULE [SHORT]	Front passenger air bag module circuits are shorted to each other	<ul style="list-style-type: none"> • Disconnection of wiring harness and short • Malfunction in front passenger air bag module • Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-61, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164304

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.

B1068, B1073 ASSIST A/B MODULE

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-61, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE FRONT PASSENGER AIR BAG MODULE

1. Replace front passenger air bag module. Refer to [SR-17, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-61, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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

< DTC/CIRCUIT DIAGNOSIS >

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

Description

INFOID:000000008164305

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 CONSULT.

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:000000008164306

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1074 B1075 B1076 B1077 B1078 B1079	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning or out of the specification	<ul style="list-style-type: none">Malfunction in air bag diagnosis sensor unitConfiguration in air bag diagnosis sensor unit does not match the vehicles specification

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

④ With CONSULT

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

④ Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "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-63, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164307

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

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

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24. "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-63. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1081 PRE-TEN FRONT RH

< DTC/CIRCUIT DIAGNOSIS >

B1081 PRE-TEN FRONT RH

Description

INFOID:000000008164308

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:000000008164309

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1081	PRE-TEN FRONT RH [OPEN]	Front RH seat belt pre-tensioner circuit is open	<ul style="list-style-type: none">• Disconnection of wiring harness and open• Malfunction in front RH seat belt pre-tensioner• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17. "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-65. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164310

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.

B1081 PRE-TEN FRONT RH

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE FRONT SEAT BELT PRE-TENSIONER

1. Replace front RH seat belt pre-tensioner. Refer to [SB-6, "SEAT BELT RETRACTOR : Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-65, "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 [SR-24, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-65, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1082 PRE-TEN FRONT RH

< DTC/CIRCUIT DIAGNOSIS >

B1082 PRE-TEN FRONT RH

Description

INFOID:000000008164311

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:000000008164312

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1082	PRE-TEN FRONT RH [VB-SHORT]	Front RH seat belt pre-tensioner circuit is shorted to some power supply circuit	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front RH seat belt pre-tensioner• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17. "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-67. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164313

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.

B1082 PRE-TEN FRONT RH

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE FRONT SEAT BELT PRE-TENSIONER

1. Replace front RH seat belt pre-tensioner. Refer to [SB-6, "SEAT BELT RETRACTOR : Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-67, "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 [SR-24, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-67, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1083 PRE-TEN FRONT RH

< DTC/CIRCUIT DIAGNOSIS >

B1083 PRE-TEN FRONT RH

Description

INFOID:000000008164314

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:000000008164315

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1083	PRE-TEN FRONT RH [GND-SHORT]	Front RH seat belt pre-tensioner circuit is shorted to ground	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front RH seat belt pre-tensioner• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-69, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164316

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.

B1083 PRE-TEN FRONT RH

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3.REPLACE FRONT SEAT BELT PRE-TENSIONER

1. Replace front RH seat belt pre-tensioner. Refer to [SB-6, "SEAT BELT RETRACTOR : Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-69, "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 [SR-24, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-69, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1084 PRE-TEN FRONT RH

< DTC/CIRCUIT DIAGNOSIS >

B1084 PRE-TEN FRONT RH

Description

INFOID:000000008164317

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:000000008164318

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1084	PRE-TEN FRONT RH [SHORT]	Front RH seat belt pre-tensioner circuit are shorted to each other	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front RH seat belt pre-tensioner• Malfunction in air bag diagnosis sensor unit

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SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17. "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-71. "Diagnosis Procedure"](#).
NO >> INSPECTION END

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Diagnosis Procedure

INFOID:000000008164319

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?

N
O
P

B1084 PRE-TEN FRONT RH

< DTC/CIRCUIT DIAGNOSIS >

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

3.REPLACE FRONT SEAT BELT PRE-TENSIONER

1. Replace front RH seat belt pre-tensioner. Refer to [SB-6, "SEAT BELT RETRACTOR : Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-71, "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 [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-71, "DTC Logic"](#).

Is DTC detected?

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

B1086 PRE-TEN FRONT LH

< DTC/CIRCUIT DIAGNOSIS >

B1086 PRE-TEN FRONT LH

Description

INFOID:000000008164320

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:000000008164321

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1086	PRE-TEN FRONT LH [OPEN]	Front LH seat belt pre-tensioner circuit is open	<ul style="list-style-type: none">• Disconnection of wiring harness and open• Malfunction in front LH seat belt pre-tensioner• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17. "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-73. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164322

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?

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 [SB-6, "SEAT BELT RETRACTOR : Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-73, "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 [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-73, "DTC Logic"](#).

Is DTC detected?

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

B1087 PRE-TEN FRONT LH

< DTC/CIRCUIT DIAGNOSIS >

B1087 PRE-TEN FRONT LH

Description

INFOID:000000008164323

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:000000008164324

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1087	PRE-TEN FRONT LH [VB-SHORT]	Front LH seat belt pre-tensioner circuit is shorted to some power supply circuit	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front LH seat belt pre-tensioner• Malfunction in air bag diagnosis sensor unit

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SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17. "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-75. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164325

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?

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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 [SB-6, "SEAT BELT RETRACTOR : Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-75, "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 [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-75, "DTC Logic"](#).

Is DTC detected?

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

B1088 PRE-TEN FRONT LH

< DTC/CIRCUIT DIAGNOSIS >

B1088 PRE-TEN FRONT LH

Description

INFOID:000000008164326

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:000000008164327

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1088	PRE-TEN FRONT LH [GND-SHORT]	Front LH seat belt pre-tensioner circuit is shorted to ground	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front LH seat belt pre-tensioner• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17. "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-77. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164328

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?

B1088 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 [SB-6, "SEAT BELT RETRACTOR : Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-77, "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 [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-77, "DTC Logic"](#).

Is DTC detected?

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

B1089 PRE-TEN FRONT LH

< DTC/CIRCUIT DIAGNOSIS >

B1089 PRE-TEN FRONT LH

Description

INFOID:000000008164329

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:000000008164330

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1089	PRE-TEN FRONT LH [SHORT]	Front LH seat belt pre-tensioner circuit are shorted to each other	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front LH seat belt pre-tensioner• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17. "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-79. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164331

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?

B1089 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 [SB-6, "SEAT BELT RETRACTOR : Exploded View"](#).
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

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-79, "DTC Logic"](#).

Is DTC detected?

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

B1090, B1091, B1092, B1093, B1094, B1095 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1090, B1091, B1092, B1093, B1094, B1095 DIAGNOSIS SENSOR UNIT

Description

INFOID:0000000008800046

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 CONSULT.

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:0000000008782201

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1090 B1091 B1092 B1093 B0194 B1095	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-81, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008782202

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.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2.CHECK WIRING HARNESS

B1090, B1091, B1092, B1093, B1094, B1095 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24, "Removal and Installation"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-81, "DTC Logic"](#).

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

INFOID:000000008164332

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 CONSULT.

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:000000008164333

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1106 B1107 B1108 B1109 B1110 B1111	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning or out of the specification	<ul style="list-style-type: none">Malfunction in air bag diagnosis sensor unitConfiguration in air bag diagnosis sensor unit does not match the vehicles specification

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "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-83, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164334

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

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

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24. "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-83. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1113, B1114 SATELLITE SENS RH

< DTC/CIRCUIT DIAGNOSIS >

B1113, B1114 SATELLITE SENS RH

Description

INFOID:000000008164335

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 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:000000008164336

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1113 B1114	SATELLITE SENS RH [UNIT FAIL]	RH satellite sensor is malfunctioning	<ul style="list-style-type: none">• Disconnection of wiring harness• Malfunction in RH satellite sensor• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-85, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164337

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.

B1113, B1114 SATELLITE SENS RH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE SATELLITE SENSOR

1. Replace RH satellite sensor. Refer to [SR-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-85, "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 [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-85, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1115, B1116 SATELLITE SENS RH

< DTC/CIRCUIT DIAGNOSIS >

B1115, B1116 SATELLITE SENS RH

Description

INFOID:000000008164338

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 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:000000008164339

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1115	SATELLITE SENS RH [COMM FAIL]	RH satellite sensor is malfunctioning or out of the specified specification	<ul style="list-style-type: none">• Disconnection of wiring harness• Malfunction in RH satellite sensor• Malfunction in air bag diagnosis sensor unit
B1116	SATELLITE SENS RH [UNMATCH]		

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-87, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164340

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?

B1115, B1116 SATELLITE SENS RH

< DTC/CIRCUIT DIAGNOSIS >

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

3.REPLACE SATELLITE SENSOR

1. Replace RH satellite sensor. Refer to [SR-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-87, "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 [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-87, "DTC Logic"](#).

Is DTC detected?

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

B1118, B1119 SATELLITE SENS LH

< DTC/CIRCUIT DIAGNOSIS >

B1118, B1119 SATELLITE SENS LH

Description

INFOID:000000008164341

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 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:000000008164342

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1118 B1119	SATELLITE SENS LH [UNIT FAIL]	LH satellite sensor is malfunctioning	<ul style="list-style-type: none">• Disconnection of wiring harness• Malfunction in LH satellite sensor• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-89, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164343

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.

B1118, B1119 SATELLITE SENS LH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE SATELLITE SENSOR

1. Replace LH satellite sensor. Refer to [SR-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-89, "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 [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-89, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1120, B1121 SATELLITE SENS LH

< DTC/CIRCUIT DIAGNOSIS >

B1120, B1121 SATELLITE SENS LH

Description

INFOID:000000008164344

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 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:000000008164345

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1120	SATELLITE SENS LH [COMM FAIL]	LH satellite sensor is malfunctioning or out of the specified specification	<ul style="list-style-type: none">• Disconnection of wiring harness• Malfunction in LH satellite sensor• Malfunction in air bag diagnosis sensor unit
B1121	SATELLITE SENS LH [UNMATCH]		

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-91, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164346

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?

B1120, B1121 SATELLITE SENS LH

< DTC/CIRCUIT DIAGNOSIS >

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

3.REPLACE SATELLITE SENSOR

1. Replace LH satellite sensor. Refer to [SR-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-91, "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 [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-91, "DTC Logic"](#).

Is DTC detected?

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

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

< DTC/CIRCUIT DIAGNOSIS >

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

Description

INFOID:000000008164347

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 CONSULT.

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:000000008164348

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1122 B1123 B1124 B1125 B1126 B1127	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning or out of the specification	<ul style="list-style-type: none"> Malfunction in air bag diagnosis sensor unit Configuration in air bag diagnosis sensor unit does not match the vehicles specification

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "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-93, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164349

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

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

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24. "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-93. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1129 SIDE MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1129 SIDE MODULE RH

Description

INFOID:000000008164350

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:000000008164351

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1129	SIDE MODULE RH [OPEN]	Front RH side air bag module circuit is open	<ul style="list-style-type: none">• Disconnection of wiring harness and open• Malfunction in front RH side air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. [SRC-17, "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-95, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164352

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.

B1129 SIDE MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-95, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE FRONT SIDE AIR BAG MODULE

1. Replace front RH side air bag module. Refer to [SE-163, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-95, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1130 SIDE MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1130 SIDE MODULE RH

Description

INFOID:000000008164353

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:000000008164354

DTC DETECTION LOGIC

DTC	CONSULT display description	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	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front RH side air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-97, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164355

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.

B1130 SIDE MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-97, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE FRONT SIDE AIR BAG MODULE

1. Replace front RH side air bag module. Refer to [SE-163, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-97, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1131 SIDE MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1131 SIDE MODULE RH

Description

INFOID:000000008164356

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:000000008164357

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1131	SIDE MODULE RH [GND-SHORT]	Front RH side air bag module circuit is shorted to ground	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front RH side air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-99, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164358

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.

B1131 SIDE MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-99, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE FRONT SIDE AIR BAG MODULE

1. Replace front RH side air bag module. Refer to [SE-163, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-99, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1132 SIDE MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1132 SIDE MODULE RH

Description

INFOID:000000008164359

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:000000008164360

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1132	SIDE MODULE RH [SHORT]	Front RH side air bag module circuit are shorted to each other	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front RH side air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-101, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164361

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.

B1132 SIDE MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-101, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE FRONT SIDE AIR BAG MODULE

1. Replace front RH side air bag module. Refer to [SE-163, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-101, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1134 SIDE MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

B1134 SIDE MODULE LH

Description

INFOID:000000008164362

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 seat back with fixed nuts.

DTC Logic

INFOID:000000008164363

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1134	SIDE MODULE LH [OPEN]	Front LH side air bag module circuit is open	<ul style="list-style-type: none">• Disconnection of wiring harness and open• Malfunction in front LH side air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-103, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164364

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.

B1134 SIDE MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-103, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE FRONT SIDE AIR BAG MODULE

1. Replace front LH side air bag module. Refer to [SE-163, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-103, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1135 SIDE MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

B1135 SIDE MODULE LH

Description

INFOID:000000008164365

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 seat back with fixed nuts.

DTC Logic

INFOID:000000008164366

DTC DETECTION LOGIC

DTC	CONSULT display description	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	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front LH side air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-105, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164367

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.

B1135 SIDE MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-105, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE FRONT SIDE AIR BAG MODULE

1. Replace front LH side air bag module. Refer to [SE-163, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-105, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1136 SIDE MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

B1136 SIDE MODULE LH

Description

INFOID:000000008164368

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 seat back with fixed nuts.

DTC Logic

INFOID:000000008164369

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1136	SIDE MODULE LH [GND-SHORT]	Front LH side air bag module circuit is shorted to ground	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front LH side air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-107, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164370

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.

B1136 SIDE MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-107, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE FRONT SIDE AIR BAG MODULE

1. Replace front LH side air bag module. Refer to [SE-163, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-107, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1137 SIDE MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

B1137 SIDE MODULE LH

Description

INFOID:000000008164371

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 seat back with fixed nuts.

DTC Logic

INFOID:000000008164372

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1137	SIDE MODULE LH [SHORT]	Front LH side air bag module circuit are shorted to each other	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in front LH side air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-109, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164373

WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes. (To discharge backup capacitor.)
- Never use un specified 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.

B1137 SIDE MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-109, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE FRONT SIDE AIR BAG MODULE

1. Replace front LH side air bag module. Refer to [SE-163, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-109, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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

< DTC/CIRCUIT DIAGNOSIS >

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

Description

INFOID:000000008164374

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 CONSULT.

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:000000008164375

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1138 B1139 B1140 B1141 B1142 B1143	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning or out of the specification	<ul style="list-style-type: none">Malfunction in air bag diagnosis sensor unitConfiguration in air bag diagnosis sensor unit does not match the vehicles specification

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "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-111, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164376

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

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

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-111, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1145 CURTAIN MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1145 CURTAIN MODULE RH

Description

INFOID:000000008164377

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:000000008164378

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1145	CURTAIN MODULE RH [OPEN]	RH side curtain air bag module circuit is open	<ul style="list-style-type: none">• Disconnection of wiring harness and open• Malfunction in RH side curtain air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-113, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164379

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 AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-113, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE SIDE CURTAIN AIR BAG MODULE

1. Replace RH side curtain air bag module. Refer to [SR-19, "Exploded View"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-113, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1146 CURTAIN MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1146 CURTAIN MODULE RH

Description

INFOID:000000008164380

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:000000008164381

DTC DETECTION LOGIC

DTC	CONSULT display description	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	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in RH side curtain air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-115, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164382

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.

B1146 CURTAIN MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-115, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE SIDE CURTAIN AIR BAG MODULE

1. Replace RH side curtain air bag module. Refer to [SR-19, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-115, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1147 CURTAIN MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1147 CURTAIN MODULE RH

Description

INFOID:000000008164383

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:000000008164384

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1147	CURTAIN MODULE RH [GND-SHORT]	RH side curtain air bag module circuit is shorted to ground	<ul style="list-style-type: none">Disconnection of wiring harness and shortMalfunction in RH side curtain air bag moduleMalfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "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-117, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164385

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.

B1147 CURTAIN MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-117, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE SIDE CURTAIN AIR BAG MODULE

1. Replace RH side curtain air bag module. Refer to [SR-19, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-117, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1148 CURTAIN MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1148 CURTAIN MODULE RH

Description

INFOID:000000008164386

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:000000008164387

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1148	CURTAIN MODULE RH [SHORT]	RH side curtain air bag module circuit are shorted to each other	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in RH side curtain air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-119, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164388

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.

B1148 CURTAIN MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-119, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE SIDE CURTAIN AIR BAG MODULE

1. Replace RH side curtain air bag module. Refer to [SR-19, "Exploded View"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-119, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1150 CURTAIN MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

B1150 CURTAIN MODULE LH

Description

INFOID:000000008164389

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:000000008164390

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1150	CURTAIN MODULE LH [OPEN]	LH side curtain air bag module circuit is open	<ul style="list-style-type: none"> • Disconnection of wiring harness and open • Malfunction in LH side curtain air bag module • Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-121, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164391

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.

B1150 CURTAIN MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-121, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE SIDE CURTAIN AIR BAG MODULE

1. Replace LH side curtain air bag module. Refer to [SR-19, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-121, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1151 CURTAIN MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

B1151 CURTAIN MODULE LH

Description

INFOID:000000008164392

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:000000008164393

DTC DETECTION LOGIC

DTC	CONSULT display description	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	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in LH side curtain air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-123, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164394

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 AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-123, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE SIDE CURTAIN AIR BAG MODULE

1. Replace LH side curtain air bag module. Refer to [SR-19, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-123, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1152 CURTAIN MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

B1152 CURTAIN MODULE LH

Description

INFOID:000000008164395

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:000000008164396

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1152	CURTAIN MODULE LH [GND-SHORT]	LH side curtain air bag module circuit is shorted to ground	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in LH side curtain air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-125, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164397

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.

B1152 CURTAIN MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-125, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE SIDE CURTAIN AIR BAG MODULE

1. Replace LH side curtain air bag module. Refer to [SR-19, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-125, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1153 CURTAIN MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

B1153 CURTAIN MODULE LH

Description

INFOID:000000008164398

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:000000008164399

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1153	CURTAIN MODULE LH [SHORT]	LH side curtain air bag module circuit are shorted to each other	<ul style="list-style-type: none">• Disconnection of wiring harness and short• Malfunction in LH side curtain air bag module• Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "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-127, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164400

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.

B1153 CURTAIN MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-127, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE SIDE CURTAIN AIR BAG MODULE

1. Replace LH side curtain air bag module. Refer to [SR-19, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-127, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1154, B1155, B1156, B1157, B1158, B1159 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1154, B1155, B1156, B1157, B1158, B1159 DIAGNOSIS SENSOR UNIT

Description

INFOID:000000008800048

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 CONSULT.

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:000000008782203

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1154 B1155 B1156 B1157 B1158 B1159	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

A

B

C

D

E

F

G

SRC

I

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-129, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782204

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.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2.CHECK WIRING HARNESS

J

K

L

M

N

O

P

B1154, B1155, B1156, B1157, B1158, B1159 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24, "Removal and Installation"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-129, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1170, B1171, B1172, B1173, B1174, B1175 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1170, B1171, B1172, B1173, B1174, B1175 DIAGNOSIS SENSOR UNIT

Description

INFOID:0000000008800049

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 CONSULT.

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:0000000008782205

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1170 B1171 B1172 B1173 B1174 B1175	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

- Turn ignition switch ON.
- Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-131, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008782206

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. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

B1170, B1171, B1172, B1173, B1174, B1175 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24, "Removal and Installation"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-131, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1186, B1187, B1188, B1189, B1190, B1191 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1186, B1187, B1188, B1189, B1190, B1191 DIAGNOSIS SENSOR UNIT

Description

INFOID:000000008800050

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 CONSULT.

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:000000008782207

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1186 B1187 B1188 B1189 B1190 B1191	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-133, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782208

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.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2.CHECK WIRING HARNESS

B1186, B1187, B1188, B1189, B1190, B1191 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24, "Removal and Installation"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-133, "DTC Logic"](#).

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

INFOID:000000008164401

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 CONSULT.

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:000000008164402

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1202 B1203 B1204 B1205 B1206 B1207	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning or out of the specification	<ul style="list-style-type: none">Malfunction in air bag diagnosis sensor unitConfiguration in air bag diagnosis sensor unit does not match the vehicles specification

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "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-135, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164403

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

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

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-135, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1209 FRONTAL COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

B1209 FRONTAL COLLISION DETECTION

Description

INFOID:000000008164404

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.

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.

STRUCTURE

It consists of crash zone sensor, air bag diagnosis sensor unit, air bags and seat belt pre-tensioners for driver and front passenger.

INSTALLATION

Refer to [SR-11, "Exploded View"](#) (Driver air bag module), [SR-17, "Exploded View"](#) (Front passenger air bag module), [SR-21, "Exploded View"](#) (Crash zone sensor), [SR-24, "Exploded View"](#) (Air bag diagnosis sensor unit), [SB-6, "SEAT BELT RETRACTOR : Exploded View"](#) (Front LH/RH seat belt pre-tensioner).

DTC Logic

INFOID:000000008164405

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1209	FRONTAL COLLISION DETECTION	Front seat belt pre-tensioner, front air bag is deployed	—

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "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-137, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164406

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 [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"](#).

Is collision diagnosis complete?

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

2. FINAL INSPECTION

Perform "AIR BAG" Self Diagnostic Result.

B1209 FRONTAL COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> INSPECTION END

NO >> Perform diagnosis of applicable DTC. Refer to [SRC-165. "DTC Index"](#).

B1210 SIDE COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

B1210 SIDE COLLISION DETECTION

Description

INFOID:000000008164407

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.

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.

STRUCTURE

It consists of satellite sensor, air bag diagnosis sensor unit, front side air bag and side curtain air bag.

INSTALLATION

Refer to [SE-163. "Exploded View"](#) (Front LH/RH side air bag module), [SR-19. "Exploded View"](#) (Side curtain air bag module), [SR-22. "Exploded View"](#) (LH/RH satellite sensor).

DTC Logic

INFOID:000000008164408

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1210	SIDE COLLISION DETECTION	Front side air bag, side curtain air bag is deployed	—

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

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

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17. "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-139. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008164409

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 [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"](#).

Is collision diagnosis complete?

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

2. FINAL INSPECTION

Perform "AIR BAG" Self Diagnostic Result.

Is the inspection result normal?

B1210 SIDE COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

YES >> INSPECTION END

NO >> Perform diagnosis of applicable DTC. Refer to [SRC-165, "DTC Index"](#).

B1218, B1219, B1220, B1221, B1222, B1223 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1218, B1219, B1220, B1221, B1222, B1223 DIAGNOSIS SENSOR UNIT

Description

INFOID:000000008800051

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 CONSULT.

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:000000008782209

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1218 B1219 B1220 B1221 B1222 B1223	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

- Turn ignition switch ON.
- Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-141, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782210

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. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

B1218, B1219, B1220, B1221, B1222, B1223 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24, "Removal and Installation"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-141, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1234, B1235, B1236, B1237, B1238, B1239 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1234, B1235, B1236, B1237, B1238, B1239 DIAGNOSIS SENSOR UNIT

Description

INFOID:000000008800052

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 CONSULT.

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:000000008782211

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1234 B1235 B1236 B1237 B1238 B1239	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

- Turn ignition switch ON.
- Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-143, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782212

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. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

B1234, B1235, B1236, B1237, B1238, B1239 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24, "Removal and Installation"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-143, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1250, B1251, B1252, B1253, B1254, B1255 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1250, B1251, B1252, B1253, B1254, B1255 DIAGNOSIS SENSOR UNIT

Description

INFOID:000000008800053

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 CONSULT.

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:000000008782213

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1250 B1251 B1252 B1253 B1254 B1255	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

- Turn ignition switch ON.
- Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-145, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782214

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. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

B1250, B1251, B1252, B1253, B1254, B1255 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

Check the wiring harness externals.

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 [SR-24. "Removal and Installation"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-145. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1266, B1267, B1268, B1269 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1266, B1267, B1268, B1269 DIAGNOSIS SENSOR UNIT

Description

INFOID:000000008800054

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 CONSULT.

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:000000008782215

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1266 B1267 B1268 B1269	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17. "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-147. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782216

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. 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.

B1266, B1267, B1268, B1269 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 [SR-24, "Removal and Installation"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-147, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1282, B1283, B1284, B1285 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1282, B1283, B1284, B1285 DIAGNOSIS SENSOR UNIT

Description

INFOID:000000008800055

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 CONSULT.

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:000000008782217

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1282 B1283 B1284 B1285	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17. "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-149. "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782218

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.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.

B1282, B1283, B1284, B1285 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 [SR-24, "Removal and Installation"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-149, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1336, B1337 SATELLITE SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

B1336, B1337 SATELLITE SENSOR RH

Description

INFOID:000000008800058

Front door satellite sensor outputs voltage signal of pressure inside the front door.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of "G" sensor and pressure 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 pressure sensor monitors the pressure inside the front door with output terminals for signal voltage.

INSTALLATION

Front door satellite sensor is installed inside the front door.

DTC Logic

INFOID:000000008782219

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1336 B1337	FR-RH DOOR SATEL SENS [SENSOR MALFUNCTION]	Front door satellite sensor RH is malfunctioning	<ul style="list-style-type: none">• Harness or connectors• Malfunction in front door satellite sensor RH• Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

SRC

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-151, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782220

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. 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.

B1336, B1337 SATELLITE SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

3. REPLACE FRONT DOOR SATELLITE SENSOR

1. Replace front door satellite sensor RH. Refer to [SR-22, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-151, "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 [SR-24, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-151, "DTC Logic"](#).

Is DTC detected?

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

B1338, B1340, B1341, B1342 SATELLITE SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

B1338, B1340, B1341, B1342 SATELLITE SENSOR RH

Description

INFOID:000000008836709

Front door satellite sensor outputs voltage signal of pressure inside the front door.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of "G" sensor and pressure 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 pressure sensor monitors the pressure inside the front door with output terminals for signal voltage.

INSTALLATION

Front door satellite sensor is installed inside the front door.

DTC Logic

INFOID:000000008782221

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1338 B1340 B1341 B1342	FR-RH DOOR SATEL SENS [COMM MALFUNCTION]	Front door satellite sensor RH is malfunctioning	<ul style="list-style-type: none">• Harness or connectors• Malfunction in front door satellite sensor RH• Malfunction in air bag diagnosis sensor unit

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DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-153, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782222

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.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.

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B1338, B1340, B1341, B1342 SATELLITE SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

3. REPLACE FRONT DOOR SATELLITE SENSOR

1. Replace front door satellite sensor RH. Refer to [SR-22, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-153, "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 [SR-24, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-153, "DTC Logic"](#).

Is DTC detected?

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

B1339 SATELLITE SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

B1339 SATELLITE SENSOR RH

Description

INFOID:000000008836710

Front door satellite sensor outputs voltage signal of pressure inside the front door.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of "G" sensor and pressure 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 pressure sensor monitors the pressure inside the front door with output terminals for signal voltage.

INSTALLATION

Front door satellite sensor is installed inside the front door.

DTC Logic

INFOID:000000008782223

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1339	FR-RH DOOR SATEL SENS [MIS-INSTALLATION]	Front door satellite sensor RH is out of the specified specification	Diagnosis sensor unit or front door satellite sensor RH is different from the part specified

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-155, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782224

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. REPLACE FRONT DOOR SATELLITE SENSOR

1. Replace front door satellite sensor RH. Refer to [SR-22, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-155, "DTC Logic"](#).

Is DTC detected?

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

2. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-155, "DTC Logic"](#).

Is DTC detected?

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

B1343, B1344 SATELLITE SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

B1343, B1344 SATELLITE SENSOR LH

Description

INFOID:000000008836711

Front door satellite sensor outputs voltage signal of pressure inside the front door.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of "G" sensor and pressure 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 pressure sensor monitors the pressure inside the front door with output terminals for signal voltage.

INSTALLATION

Front door satellite sensor is installed inside the front door.

DTC Logic

INFOID:000000008782225

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1343 B1344	FR-LH DOOR SATEL SENS [SENSOR MALFUNCTION]	Front door satellite sensor LH is malfunctioning	<ul style="list-style-type: none">• Harness or connectors• Malfunction in front door satellite sensor LH• Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-156, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782226

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. 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.

B1343, B1344 SATELLITE SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

3. REPLACE FRONT DOOR SATELLITE SENSOR

1. Replace front door satellite sensor LH. Refer to [SR-22, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-156, "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 [SR-24, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-156, "DTC Logic"](#).

Is DTC detected?

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

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SRC

B1345, B1347, B1348, B1349 SATELLITE SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

B1345, B1347, B1348, B1349 SATELLITE SENSOR LH

Description

INFOID:000000008836712

Front door satellite sensor outputs voltage signal of pressure inside the front door.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of "G" sensor and pressure 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 pressure sensor monitors the pressure inside the front door with output terminals for signal voltage.

INSTALLATION

Front door satellite sensor is installed inside the front door.

DTC Logic

INFOID:000000008782227

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1345 B1347 B1348 B1349	FR-LH DOOR SATEL SENS [COMM MALFUNCTION]	Front door satellite sensor LH is malfunctioning	<ul style="list-style-type: none">• Harness or connectors• Malfunction in front door satellite sensor LH• Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17. "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-158. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782228

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.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.

B1345, B1347, B1348, B1349 SATELLITE SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

3. REPLACE SATELLITE SENSOR

1. Replace front door satellite sensor LH. Refer to [SR-22, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-158, "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 [SR-24, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-158, "DTC Logic"](#).

Is DTC detected?

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

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SRC

B1346 SATELLITE SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

B1346 SATELLITE SENSOR LH

Description

INFOID:000000008836713

Front door satellite sensor outputs voltage signal of pressure inside the front door.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of "G" sensor and pressure 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 pressure sensor monitors the pressure inside the front door with output terminals for signal voltage.

INSTALLATION

Front door satellite sensor is installed inside the front door.

DTC Logic

INFOID:000000008782229

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1346	FR-LH DOOR SATEL SENS [MIS-INSTALLATION]	Front door satellite sensor LH is out of the specified specification	Diagnosis sensor unit or front door satellite sensor LH is different from the part specified

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-160, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782230

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. REPLACE FRONT DOOR SATELLITE SENSOR

1. Replace front door satellite sensor LH. Refer to [SR-22, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-160, "DTC Logic"](#).

Is DTC detected?

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

2. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-160, "DTC Logic"](#).

Is DTC detected?

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

B1350, B1351 SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B1350, B1351 SATELLITE SENSOR

Description

INFOID:000000008836714

Front door satellite sensor outputs voltage signal of pressure inside the front door.

OPERATION

When air bag diagnosis sensor unit defines both signal voltage of "G" sensor and pressure 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 pressure sensor monitors the pressure inside the front door with output terminals for signal voltage.

INSTALLATION

Front door satellite sensor is installed inside the front door.

DTC Logic

INFOID:000000008782231

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1350 B1351	FR DOOR SATEL SENS	Front door satellite sensor is malfunctioning or out of the specified specification	<ul style="list-style-type: none">Malfunction in front door satellite sensor LH/RHMalfunction in air bag diagnosis sensor unit

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G
SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

- Turn ignition switch ON.
- Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-17, "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-161, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782232

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. REPLACE BOTH OF FRONT DOOR SATELLITE SENSORS

- Replace both of front door satellite sensors. Refer to [SR-22, "Removal and Installation"](#).
- Perform DTC confirmation procedure. Refer to [SRC-161, "DTC Logic"](#).

Is DTC detected?

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

2. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- Replace air bag diagnosis sensor unit. Refer to [SR-24, "Removal and Installation"](#).
- Perform DTC confirmation procedure. Refer to [SRC-161, "DTC Logic"](#).

Is DTC detected?

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B1350, B1351 SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 1.

NO >> INSPECTION END

B1378, B1379, B1380, B1381 DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1378, B1379, B1380, B1381 DIAGNOSIS SENSOR UNIT

Description

INFOID:000000008800056

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 CONSULT.

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:000000008782233

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B1378 B1379 B1380 B1381	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

SRC

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-17. "Air Bag Warning Lamp Diagnosis"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-163. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008782234

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. 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.

B1378, B1379, B1380, B1381 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 [SR-22, "Removal and Installation"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-163, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

DIAGNOSIS SENSOR UNIT

DTC Index

INFOID:000000008164410

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Diagnostic item	Explanation	Reference page
NO DTC IS DETECTED	When malfunction is indicated by the "AIR BAG" warning lamp in User mode	Low battery voltage (Less than 9 V) SRC-176, "Diagnosis Procedure".
		Self-diagnosis result "SELF-DIAG RESULT [PAST]" (previously stored in the memory) might not be erased after repair SRC-17, "Air Bag Warning Lamp Diagnosis", SRC-21, "CONSULT Function".
		Intermittent malfunction has been detected in the past GI-43, "Intermittent Incident".
	No malfunction is detected	—
CONTROL UNIT [B1001-B1015]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	<ul style="list-style-type: none"> SRC-23, "DTC Logic". SRC-25, "DTC Logic". SRC-27, "DTC Logic".
OCCUPANT SENS C/U [UNIT FAIL] [B1017] [B1020] [B1021]	Malfunction occurs in Occupant Classification System control unit	SRC-29, "DTC Logic".
OCCUPANT SENS [UNIT FAIL] [B1018]	Malfunction occurs in Occupant Classification System sensor	SRC-31, "DTC Logic".
OCCUPANT SENS C/U [COMM FAIL] [B1022]	Malfunction occurs in Occupant Classification System control unit, air bag diagnosis sensor unit, or circuit between Occupant Classification System control unit and air bag diagnosis sensor unit	SRC-33, "DTC Logic".
PASS A/B INDCTR CKT [B1023]	Front passenger air bag OFF indicator circuit is open or shorted to ground, or the circuits are shorted each other	SRC-35, "DTC Logic".
CONTROL UNIT [B1026-B1031]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-37, "DTC Logic".
CRASH ZONE SEN [UNIT FAIL] [B1033] [B1034]	Crash zone sensor is malfunctioning	SRC-39, "DTC Logic".
CRASH ZONE SEN [COMM FAIL] [B1035] [UNMATCH] [B1036]	Crash zone sensor is malfunctioning or out of the specified specification	SRC-41, "DTC Logic".
CONTROL UNIT [B1042-B1047]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-43, "DTC Logic".
DRIVER AIRBAG MODULE [OPEN] [B1049] [B1054]	Driver air bag module circuit is open (including the spiral cable)	SRC-45, "DTC Logic".
DRIVER AIRBAG MODULE [VB-SHORT] [B1050] [B1055]	Driver air bag module circuit is shorted to some power supply circuit (including the spiral cable)	SRC-47, "DTC Logic".
DRIVER AIRBAG MODULE [GND-SHORT] [B1051] [B1056]	Driver air bag module circuit is shorted to ground (including the spiral cable)	SRC-49, "DTC Logic".

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

Diagnostic item	Explanation	Reference page
DRIVER AIRBAG MODULE [SHORT] [B1052] [B1057]	Driver air bag module circuits are shorted to each other (including spiral cable)	SRC-51, "DTC Logic".
CONTROL UNIT [B1058-B1063]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-53, "DTC Logic".
ASSIST A/B MODULE [OPEN] [B1065] [B1070]	Front passenger air bag module circuit is open	SRC-55, "DTC Logic".
ASSIST A/B MODULE [VB-SHORT] [B1066] [B1071]	Front passenger air bag module circuit is shorted to some power supply circuit	SRC-57, "DTC Logic".
ASSIST A/B MODULE [GND-SHORT] [B1067] [B1072]	Front passenger air bag module circuit is shorted to ground	SRC-59, "DTC Logic".
ASSIST A/B MODULE [SHORT] [B1068] [B1073]	Front passenger air bag module circuits are shorted to each other	SRC-61, "DTC Logic".
CONTROL UNIT [B1074-B1079]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-63, "DTC Logic".
PRE-TEN FRONT RH [OPEN] [B1081]	Front RH seat belt pre-tensioner circuit is open	SRC-65, "DTC Logic".
PRE-TEN FRONT RH [VB-SHORT] [B1082]	Front RH seat belt pre-tensioner circuit is shorted to some power supply circuit	SRC-67, "DTC Logic".
PRE-TEN FRONT RH [GND-SHORT] [B1083]	Front RH seat belt pre-tensioner circuit is shorted to ground	SRC-69, "DTC Logic".
PRE-TEN FRONT RH [SHORT] [B1084]	Front RH seat belt pre-tensioner circuits are shorted to each other	SRC-71, "DTC Logic".
PRE-TEN FRONT LH [OPEN] [B1086]	Front LH seat belt pre-tensioner circuit is open	SRC-73, "DTC Logic".
PRE-TEN FRONT LH [VB-SHORT] [B1087]	Front LH seat belt pre-tensioner circuit is shorted to some power supply circuit	SRC-75, "DTC Logic".
PRE-TEN FRONT LH [GND-SHORT] [B1088]	Front LH seat belt pre-tensioner circuit is shorted to ground	SRC-77, "DTC Logic".
PRE-TEN FRONT LH [SHORT] [B1089]	Front LH seat belt pre-tensioner circuits are shorted to each other	SRC-79, "DTC Logic".
CONTROL UNIT [B1090-B1095]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-81, "DTC Logic".
CONTROL UNIT [B1106-B1111]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-83, "DTC Logic".
SATELLITE SENS RH [UNIT FAIL] [B1113] [B1114]	RH satellite sensor is malfunctioning	SRC-85, "DTC Logic".

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

Diagnostic item	Explanation	Reference page
SATELLITE SENS RH [COMM FAIL] [B1115] [UNMATCH] [B1116]	RH satellite sensor is malfunctioning or out of the specified specification	SRC-87, "DTC Logic" .
SATELLITE SENS LH [UNIT FAIL] [B1118] [B1119]	LH satellite sensor is malfunctioning	SRC-89, "DTC Logic" .
SATELLITE SENS LH [COMM FAIL] [B1120] [UNMATCH] [B1121]	LH satellite sensor is malfunctioning or out of the specified specification	SRC-91, "DTC Logic" .
CONTROL UNIT [B1122-B1127]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-93, "DTC Logic" .
SIDE MODULE RH [OPEN] [B1129]	Front RH side air bag module circuit is open	SRC-95, "DTC Logic" .
SIDE MODULE RH [VB-SHORT] [B1130]	Front RH side air bag module circuit is shorted to some power supply circuit	SRC-97, "DTC Logic" .
SIDE MODULE RH [GND-SHORT] [B1131]	Front RH side air bag module circuit is shorted to ground	SRC-99, "DTC Logic" .
SIDE MODULE RH [SHORT] [B1132]	Front RH side air bag module circuits are shorted to each other	SRC-101, "DTC Logic" .
SIDE MODULE LH [OPEN] [B1134]	Front LH side air bag module circuit is open	SRC-103, "DTC Logic" .
SIDE MODULE LH [VB-SHORT] [B1135]	Front LH side air bag module circuit is shorted to some power supply circuit	SRC-105, "DTC Logic" .
SIDE MODULE LH [GND-SHORT] [B1136]	Front LH side air bag module circuit is shorted to ground	SRC-107, "DTC Logic" .
SIDE MODULE LH [SHORT] [B1137]	Front LH side air bag module circuits are shorted to each other	SRC-109, "DTC Logic" .
CONTROL UNIT [B1138-B1143]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-111, "DTC Logic" .
CURTAIN MODULE RH [OPEN] [B1145]	RH side curtain air bag module circuit is open	SRC-113, "DTC Logic" .
CURTAIN MODULE RH [VB-SHORT] [B1146]	RH side curtain air bag module circuit is shorted to some power supply circuit	SRC-115, "DTC Logic" .
CURTAIN MODULE RH [GND-SHORT] [B1147]	RH side curtain air bag module circuit is shorted to ground	SRC-117, "DTC Logic" .
CURTAIN MODULE RH [SHORT] [B1148]	RH side curtain air bag module circuits are shorted to each other	SRC-119, "DTC Logic" .

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DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

Diagnostic item	Explanation	Reference page
CURTAIN MODULE LH [OPEN] [B1150]	LH side curtain air bag module circuit is open	SRC-121, "DTC Logic" .
CURTAIN MODULE LH [VB-SHORT] [B1151]	LH side curtain air bag module circuit is shorted to some power supply circuits	SRC-123, "DTC Logic" .
CURTAIN MODULE LH [GND-SHORT] [B1152]	LH side curtain air bag module circuit is shorted to ground	SRC-125, "DTC Logic" .
CURTAIN MODULE LH [SHORT] [B1153]	LH side curtain air bag module circuits are shorted to each other	SRC-127, "DTC Logic" .
CONTROL UNIT [B1154-B1159]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-129, "DTC Logic" .
CONTROL UNIT [B1170-B1175]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-131, "DTC Logic" .
CONTROL UNIT [B1186-B1191]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-133, "DTC Logic" .
CONTROL UNIT [B1202-B1207]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-135, "DTC Logic" .
FRONTAL COLLISION DETECTION [B1209]	Front seat belt pre-tensioner and front air bag is deployed	SRC-137, "DTC Logic" .
SIDE COLLISION DETECTION [B1210]	Front side air bag and side curtain air bag are deployed	SRC-139, "DTC Logic" .
CONTROL UNIT [B1218-B1223]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-141, "DTC Logic" .
CONTROL UNIT [B1234-B1239]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-143, "DTC Logic" .
CONTROL UNIT [B1250-B1255]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-145, "DTC Logic" .
CONTROL UNIT [B1266-B1269]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-147, "DTC Logic" .
CONTROL UNIT [B1282-B1285]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-149, "DTC Logic" .
FR-RH DOOR SATEL SENS [SENSOR MALFUNCTION] [B1336] [B1337]	Front door satellite sensor RH is malfunctioning	SRC-151, "DTC Logic" .
FR-RH DOOR SATEL SENS [COMM MALFUNCTION] [B1338] [B1340-B1342]	Front door satellite sensor RH is malfunctioning	SRC-153, "DTC Logic" .

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

Diagnostic item	Explanation	Reference page
FR-RH DOOR SATEL SENS [MIS-INSTLLATION] [B1339]	Front door satellite sensor RH is out of the specified specification	SRC-155, "DTC Logic".
FR-LH DOOR SATEL SENS [SENSOR MALFUNCTION] [B1343] [B1344]	Front door satellite sensor LH is malfunctioning	SRC-156, "DTC Logic".
FR-LH DOOR SATEL SENS [COMM MALFUNCTION] [B1345] [B1347-B1349]	Front door satellite sensor LH is malfunctioning	SRC-158, "DTC Logic".
FR-LH DOOR SATEL SENS [MIS-INSTLLATION] [B1346]	Front door satellite sensor LH is out of the specified specification	SRC-160, "DTC Logic".
FR DOOR SATEL SENS [B1350] [B1351]	Front door satellite sensor is malfunctioning or out of the specified specification	SRC-161, "DTC Logic".
CONTROL UNIT [B1378-B1381]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-163, "DTC Logic".

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Wiring Diagram - SRS AIR BAG CONTROL SYSTEM - (Without front door satellite

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
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DIAGNOSIS SENSOR UNIT

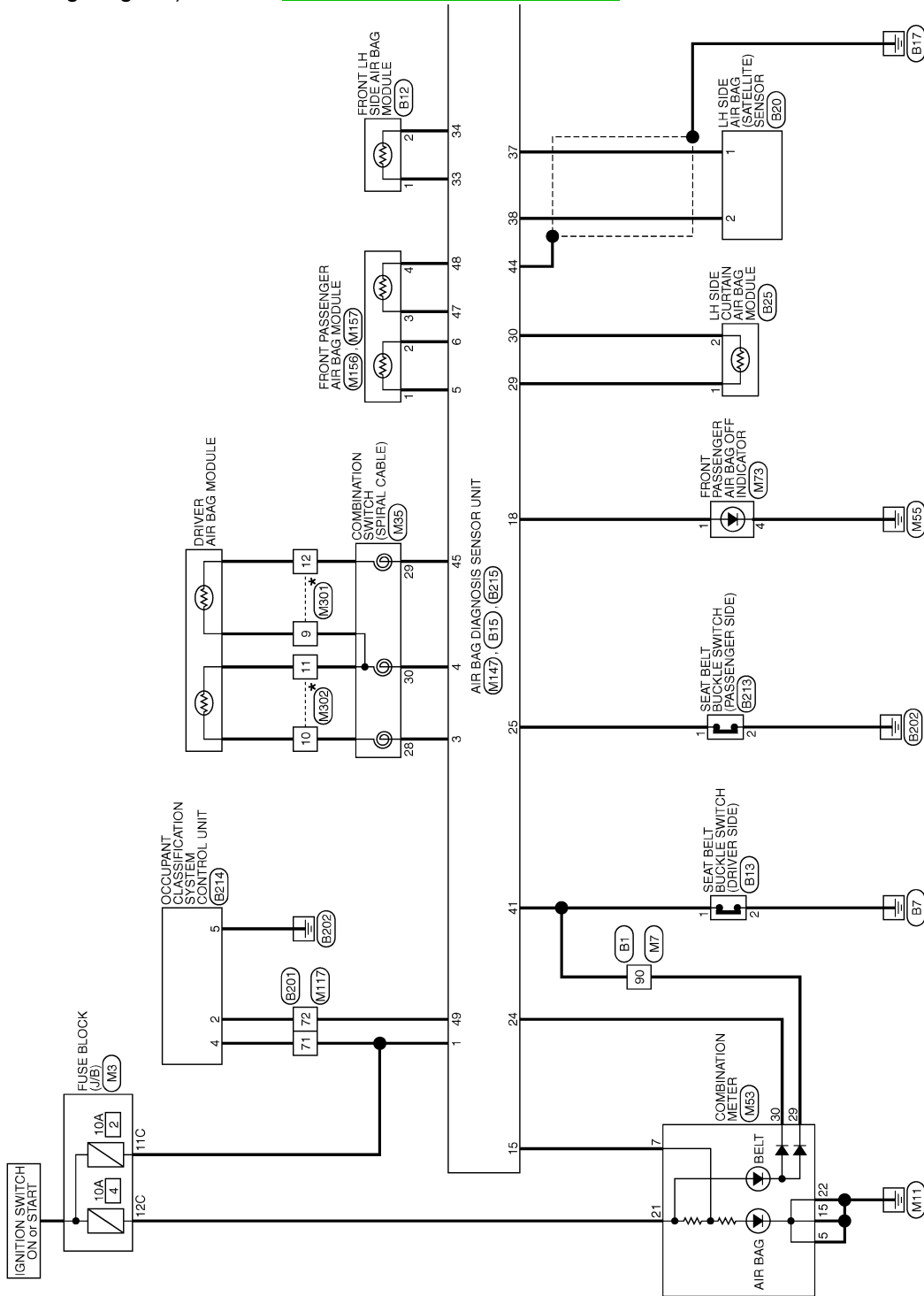
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For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

SRS AIR BAG CONTROL SYSTEM (WITHOUT DOOR SATELLITE SENSOR)



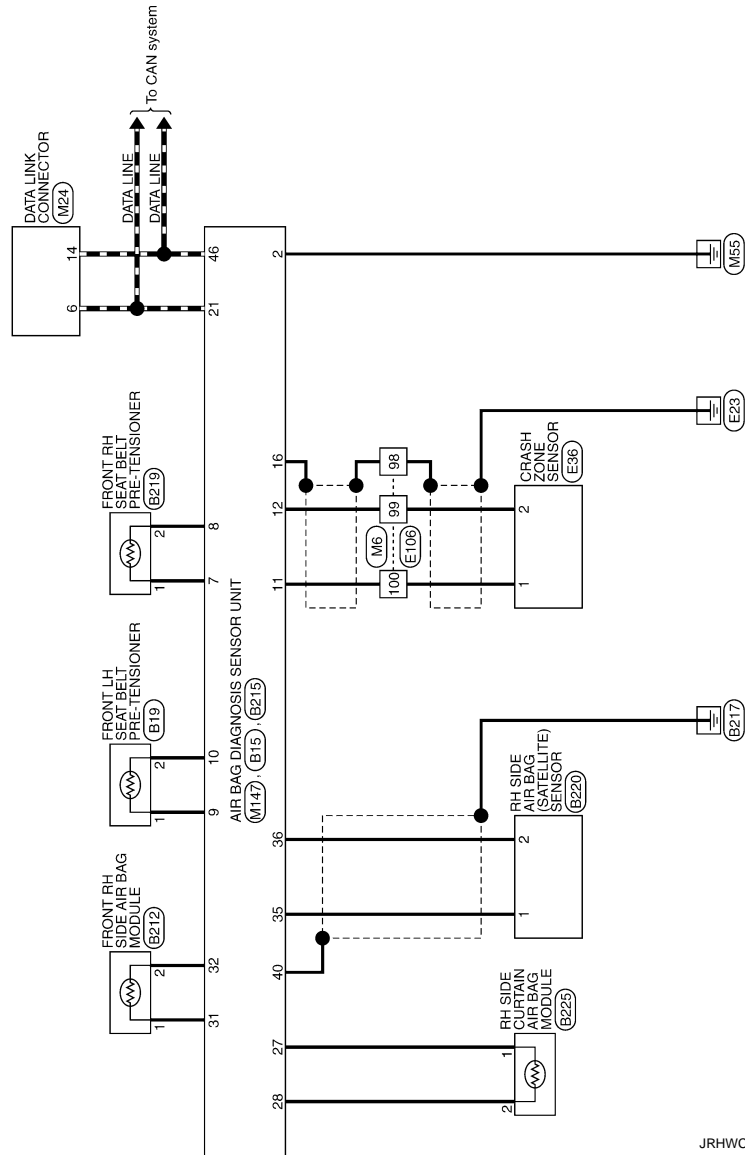
*: This connector is not shown in "Harness Layout".

2012/07/05

JRHWC0292GB

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >



JRHWC0293GB

Wiring Diagram - SRS AIR BAG CONTROL SYSTEM - (With front door satellite sen-

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
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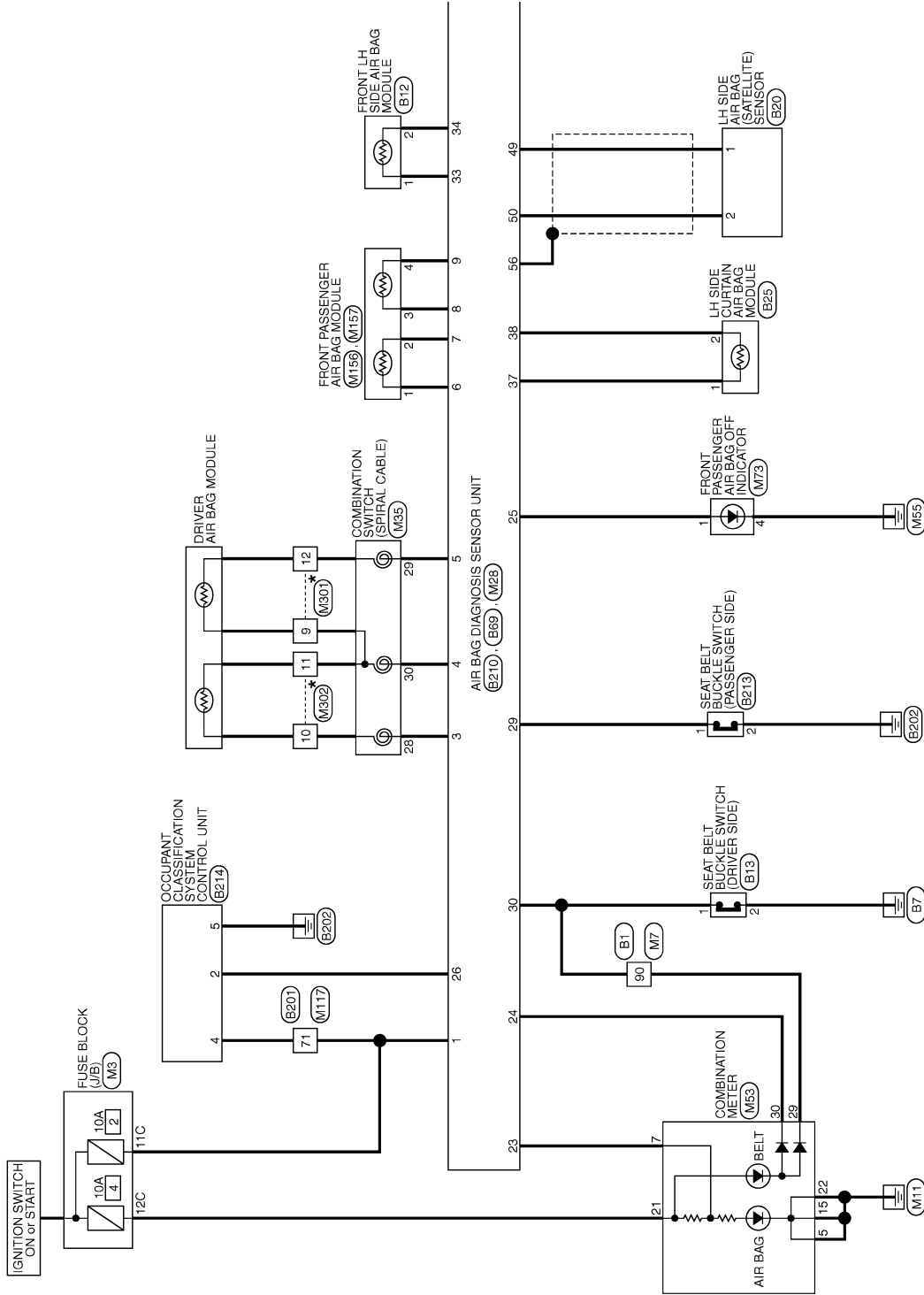
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For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

SRS AIR BAG CONTROL SYSTEM (WITH DOOR SATELLITE SENSOR)



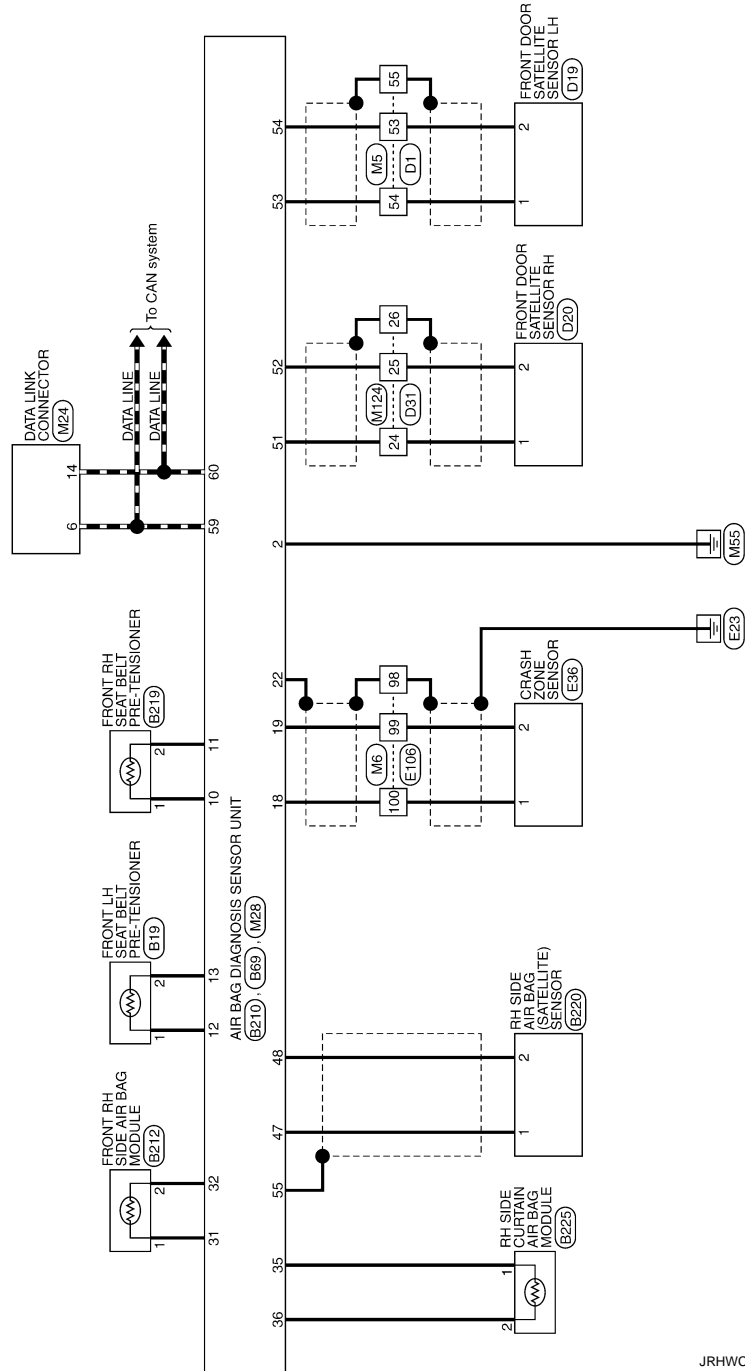
*: This connector is not shown in "Harness Layout".

2012/07/05

JRHWC0294GB

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >



JRHWC0295GB

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SRS AIR BAG WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

SRS AIR BAG WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:000000008164412

1. CHECK FRONT AIR BAG MODULE

Check the deployment of front air bag module.

Is air bag module deployed?

YES >> Refer to [SR-11](#) or [SR-17, "Exploded View"](#).

NO >> GO TO 2.

2. CHECK AIR BAG FUSE

Check the air bag fuse. Refer to [PG-109, "Fuse and Fusible Link Arrangement"](#).

Is 10A fuse [No.2, located in fuse block (J/B)] normal?

YES >> GO TO 4.

NO >> GO TO 3.

3. CHECK AIR BAG FUSE AGAIN

Replace air bag fuse and turn ignition switch ON.

Did the air bag fuse blow again?

YES >> Repair or replace main harness.

NO >> **INSPECTION END**

4. CHECK DIAGNOSIS SENSOR UNIT

Check the screen of CONSULT.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace diagnosis sensor unit (ACU). Refer to [SR-24, "Exploded View"](#).

5. CHECK HARNESS CONNECTION

Check harness connection between air bag warning lamp and diagnosis sensor unit.

Is the inspection result normal?

YES >> Check the intermittent incident. Refer to [GI-43, "Intermittent Incident"](#).

NO >> Replace wiring harness connector.

SRS AIR BAG WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

SRS AIR BAG WARNING LAMP DOES NOT TURN ON

Diagnosis Procedure

INFOID:000000008164413

"SRS AIR BAG" Warning Lamp Does Not Turn ON

1.CHECK METER FUSE

Check the meter fuse. Refer to [PG-109, "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.

Did the meter fuse blow again?

YES >> Repair or replace the related harness.

NO >> **INSPECTION END**

3.CHECK HARNESS CONNECTION

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

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

Did air bag warning lamp turn ON?

YES >> Replace diagnosis sensor unit (ACU). Refer to [SR-24, "Exploded View"](#).

NO >> Replace combination meter assembly. Refer to [MWI-112, "Removal and Installation"](#).

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SRS AIR BAG WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

SRS AIR BAG WARNING LAMP BLINKS

Diagnosis Procedure

INFOID:000000008164414

1. CHECK BATTERY

Check battery. Refer to [PG-3, "How to Handle Battery"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning parts.

2. REPLACE OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

1. Replace occupant classification system control unit. Refer to [SR-27, "Removal and Installation"](#).

2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 3.

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-24, "Removal and Installation"](#).

2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 1.

PASSENGER SEAT BELT WARNING SYSTEM

< SYMPTOM DIAGNOSIS >

PASSENGER SEAT BELT WARNING SYSTEM

Diagnosis Procedure

INFOID:000000008164415

1.CHECK THE SYSTEM 1

Check the seat belt warning lamp function.

Seat belt warning lamp turns ON in the following conditions.

- Driver seat belt is fastened.
- Occupant is on passenger seat.
- Passenger seat belt is not fasten.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the followings.

- Harness between air bag diagnosis sensor unit and combination meter.
- Seat belt buckle switch (passenger side) circuit.
- Seat belt buckle switch (passenger side).

If these are OK, replace air bag diagnosis sensor unit.

2.CHECK THE SYSTEM 2

Check the seat belt warning lamp function.

Seat belt warning lamp turns OFF in the following conditions.

- Driver seat belt is fastened.
- Occupant is on passenger seat.
- Passenger seat belt is fastened.

Is the inspection result normal?

YES >> System is OK.

NO >> Check the followings.

- Seat belt buckle switch (passenger side) circuit.
- Seat belt buckle switch (passenger side).

If these are OK, replace air bag diagnosis sensor unit.

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000008164416

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:

Always observe the following items for preventing accidental activation.

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".**
- **Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

Always observe the following items for preventing accidental activation.

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never 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

INFOID:000000008164417

- Do not use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pretensioner to deploy. Therefore, do not work on any SRS connectors or wires until at least 3 minutes have 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 as required.
- 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.
- Conduct self-diagnosis to check entire SRS for proper function after replacing any components.
- After air bag inflates, the front instrument panel assembly should be replaced if damaged.
- Always replace instrument panel pad following front passenger air bag deployment.

Precaution for Battery Service

INFOID:000000008164418

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

PRECAUTIONS

< PRECAUTION >

Occupant Classification System

INFOID:000000008164419

- Replace occupant classification system control unit and passenger front seat cushion as an assembly.
Refer to [SE-166. "Removal and Installation"](#).

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