

# SECTION **SRC**

## SRS AIRBAG CONTROL SYSTEM

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

### CONTENTS

<b>BASIC INSPECTION</b> .....	5	<b>DTC Logic</b> .....	23
<b>DIAGNOSIS AND REPAIR WORK FLOW</b> .....	5	<b>Diagnosis Procedure</b> .....	23
Work Flow .....	5	<b>B1011, B1012, B1013, B1014, B1015 DIAG- NOSIS SENSOR UNIT</b> .....	25
<b>SYSTEM DESCRIPTION</b> .....	8	Description .....	25
<b>SRS AIR BAG SYSTEM</b> .....	8	DTC Logic .....	25
System Diagram .....	8	Diagnosis Procedure .....	25
System Description .....	8	<b>B1017, B1020, B1021 OCCUPANT SENS C/U</b>	27
Component Parts Location .....	9	Description .....	27
Component Description .....	10	DTC Logic .....	27
<b>OCCUPANT CLASSIFICATION SYSTEM</b> .....	11	Diagnosis Procedure .....	27
System Diagram .....	11	<b>B1018 OCCUPANT SENS</b> .....	29
System Description .....	11	Description .....	29
Component Parts Location .....	11	DTC Logic .....	29
Component Description .....	12	Diagnosis Procedure .....	29
<b>PASSENGER SEAT BELT WARNING SYS- TEM</b> .....	13	<b>B1022 OCCUPANT SENS C/U</b> .....	31
System Diagram .....	13	Description .....	31
System Description .....	13	DTC Logic .....	31
Component Parts Location .....	14	Diagnosis Procedure .....	31
Component Description .....	14	<b>B1023 PASS A/B INDCTR CKT</b> .....	33
<b>DIAGNOSIS SYSTEM (AIRBAG)</b> .....	15	Description .....	33
Diagnosis Description .....	15	DTC Logic .....	33
Air Bag Warning Lamp Diagnosis .....	15	Diagnosis Procedure .....	33
CONSULT Function .....	19	<b>B1026, B1027, B1028, B1029, B1030, B1031 DIAGNOSIS SENSOR UNIT</b> .....	35
<b>DTC/CIRCUIT DIAGNOSIS</b> .....	21	Description .....	35
<b>B1001, B1002, B1003, B1004, B1005 DIAG- NOSIS SENSOR UNIT</b> .....	21	DTC Logic .....	35
Description .....	21	Diagnosis Procedure .....	35
DTC Logic .....	21	<b>B1033, B1034 CRASH ZONE SEN</b> .....	37
Diagnosis Procedure .....	21	Description .....	37
<b>B1006, B1007, B1008, B1009, B1010 DIAG- NOSIS SENSOR UNIT</b> .....	23	DTC Logic .....	37
Description .....	23	Diagnosis Procedure .....	37
		<b>B1035, B1036 CRASH ZONE SEN</b> .....	39

SRC

Description .....	39	<b>B1081 PRE-TEN FRONT RH .....</b>	<b>63</b>
DTC Logic .....	39	Description .....	63
Diagnosis Procedure .....	39	DTC Logic .....	63
		Diagnosis Procedure .....	63
<b>B1042, B1043, B1044, B1045, B1046, B1047</b>		<b>B1082 PRE-TEN FRONT RH .....</b>	<b>65</b>
<b>DIAGNOSIS SENSOR UNIT .....</b>	<b>41</b>	Description .....	65
Description .....	41	DTC Logic .....	65
DTC Logic .....	41	Diagnosis Procedure .....	65
Diagnosis Procedure .....	41		
<b>B1049, B1054 DRIVER AIRBAG MODULE .....</b>	<b>43</b>	<b>B1083 PRE-TEN FRONT RH .....</b>	<b>67</b>
Description .....	43	Description .....	67
DTC Logic .....	43	DTC Logic .....	67
Diagnosis Procedure .....	43	Diagnosis Procedure .....	67
<b>B1050, B1055 DRIVER AIRBAG MODULE .....</b>	<b>45</b>	<b>B1084 PRE-TEN FRONT RH .....</b>	<b>69</b>
Description .....	45	Description .....	69
DTC Logic .....	45	DTC Logic .....	69
Diagnosis Procedure .....	45	Diagnosis Procedure .....	69
<b>B1051, B1056 DRIVER AIRBAG MODULE .....</b>	<b>47</b>	<b>B1086 PRE-TEN FRONT LH .....</b>	<b>71</b>
Description .....	47	Description .....	71
DTC Logic .....	47	DTC Logic .....	71
Diagnosis Procedure .....	47	Diagnosis Procedure .....	71
<b>B1052, B1057 DRIVER AIRBAG MODULE .....</b>	<b>49</b>	<b>B1087 PRE-TEN FRONT LH .....</b>	<b>73</b>
Description .....	49	Description .....	73
DTC Logic .....	49	DTC Logic .....	73
Diagnosis Procedure .....	49	Diagnosis Procedure .....	73
<b>B1058, B1059, B1060, B1061, B1062, B1063</b>		<b>B1088 PRE-TEN FRONT LH .....</b>	<b>75</b>
<b>DIAGNOSIS SENSOR UNIT .....</b>	<b>51</b>	Description .....	75
Description .....	51	DTC Logic .....	75
DTC Logic .....	51	Diagnosis Procedure .....	75
Diagnosis Procedure .....	51		
<b>B1065, B1070 ASSIST A/B MODULE .....</b>	<b>53</b>	<b>B1089 PRE-TEN FRONT LH .....</b>	<b>77</b>
Description .....	53	Description .....	77
DTC Logic .....	53	DTC Logic .....	77
Diagnosis Procedure .....	53	Diagnosis Procedure .....	77
<b>B1066, B1071 ASSIST A/B MODULE .....</b>	<b>55</b>	<b>B1106, B1107, B1108, B1109, B1110, B1111</b>	
Description .....	55	<b>DIAGNOSIS SENSOR UNIT .....</b>	<b>79</b>
DTC Logic .....	55	Description .....	79
Diagnosis Procedure .....	55	DTC Logic .....	79
		Diagnosis Procedure .....	79
<b>B1067, B1072 ASSIST A/B MODULE .....</b>	<b>57</b>	<b>B1113, B1114 SATELLITE SENS RH .....</b>	<b>81</b>
Description .....	57	Description .....	81
DTC Logic .....	57	DTC Logic .....	81
Diagnosis Procedure .....	57	Diagnosis Procedure .....	81
<b>B1068, B1073 ASSIST A/B MODULE .....</b>	<b>59</b>	<b>B1115, B1116 SATELLITE SENS RH .....</b>	<b>83</b>
Description .....	59	Description .....	83
DTC Logic .....	59	DTC Logic .....	83
Diagnosis Procedure .....	59	Diagnosis Procedure .....	83
<b>B1074, B1075, B1076, B1077, B1078, B1079</b>		<b>B1118, B1119 SATELLITE SENS LH .....</b>	<b>85</b>
<b>DIAGNOSIS SENSOR UNIT .....</b>	<b>61</b>	Description .....	85
Description .....	61	DTC Logic .....	85
DTC Logic .....	61	Diagnosis Procedure .....	85
Diagnosis Procedure .....	61	<b>B1120, B1121 SATELLITE SENS LH .....</b>	<b>87</b>

Description .....	87	Description .....	111	A
DTC Logic .....	87	DTC Logic .....	111	
Diagnosis Procedure .....	87	Diagnosis Procedure .....	111	
<b>B1122, B1123, B1124, B1125, B1126, B1127</b>		<b>B1147 CURTAIN MODULE RH .....</b>	<b>113</b>	B
<b>DIAGNOSIS SENSOR UNIT .....</b>	<b>89</b>	Description .....	113	
Description .....	89	DTC Logic .....	113	
DTC Logic .....	89	Diagnosis Procedure .....	113	C
Diagnosis Procedure .....	89	<b>B1148 CURTAIN MODULE RH .....</b>	<b>115</b>	D
<b>B1129 SIDE MODULE RH .....</b>	<b>91</b>	Description .....	115	
Description .....	91	DTC Logic .....	115	
DTC Logic .....	91	Diagnosis Procedure .....	115	E
Diagnosis Procedure .....	91	<b>B1150 CURTAIN MODULE LH .....</b>	<b>117</b>	
<b>B1130 SIDE MODULE RH .....</b>	<b>93</b>	Description .....	117	
Description .....	93	DTC Logic .....	117	
DTC Logic .....	93	Diagnosis Procedure .....	117	F
Diagnosis Procedure .....	93	<b>B1151 CURTAIN MODULE LH .....</b>	<b>119</b>	G
<b>B1131 SIDE MODULE RH .....</b>	<b>95</b>	Description .....	119	
Description .....	95	DTC Logic .....	119	
DTC Logic .....	95	Diagnosis Procedure .....	119	
Diagnosis Procedure .....	95	<b>B1152 CURTAIN MODULE LH .....</b>	<b>121</b>	SRC
<b>B1132 SIDE MODULE RH .....</b>	<b>97</b>	Description .....	121	
Description .....	97	DTC Logic .....	121	
DTC Logic .....	97	Diagnosis Procedure .....	121	I
Diagnosis Procedure .....	97	<b>B1153 CURTAIN MODULE LH .....</b>	<b>123</b>	J
<b>B1134 SIDE MODULE LH .....</b>	<b>99</b>	Description .....	123	
Description .....	99	DTC Logic .....	123	
DTC Logic .....	99	Diagnosis Procedure .....	123	K
Diagnosis Procedure .....	99	<b>B1202, B1203, B1204, B1205, B1206, B1207</b>		L
<b>B1135 SIDE MODULE LH .....</b>	<b>101</b>	<b>DIAGNOSIS SENSOR UNIT .....</b>	<b>125</b>	
Description .....	101	Description .....	125	
DTC Logic .....	101	DTC Logic .....	125	
Diagnosis Procedure .....	101	Diagnosis Procedure .....	125	M
<b>B1136 SIDE MODULE LH .....</b>	<b>103</b>	<b>B1209 FRONTAL COLLISION DETECTION ..</b>	<b>127</b>	N
Description .....	103	Description .....	127	
DTC Logic .....	103	DTC Logic .....	127	
Diagnosis Procedure .....	103	Diagnosis Procedure .....	127	
<b>B1137 SIDE MODULE LH .....</b>	<b>105</b>	<b>B1210 SIDE COLLISION DETECTION .....</b>	<b>129</b>	O
Description .....	105	Description .....	129	
DTC Logic .....	105	DTC Logic .....	129	
Diagnosis Procedure .....	105	Diagnosis Procedure .....	129	P
<b>B1138, B1139, B1140, B1141, B1142, B1143</b>		<b>ECU DIAGNOSIS INFORMATION .....</b>	<b>131</b>	
<b>DIAGNOSIS SENSOR UNIT .....</b>	<b>107</b>	<b>DIAGNOSIS SENSOR UNIT .....</b>	<b>131</b>	
Description .....	107	DTC Index .....	131	
DTC Logic .....	107	Wiring Diagram - SRS AIR BAG CONTROL SYS-		
Diagnosis Procedure .....	107	TEM - .....	135	
<b>B1145 CURTAIN MODULE RH .....</b>	<b>109</b>	<b>SYMPTOM DIAGNOSIS .....</b>	<b>137</b>	
Description .....	109	<b>SRS AIR BAG WARNING LAMP DOES NOT</b>		
DTC Logic .....	109	<b>TURN OFF .....</b>	<b>137</b>	
Diagnosis Procedure .....	109	Diagnosis Procedure .....	137	
<b>B1146 CURTAIN MODULE RH .....</b>	<b>111</b>			

<b>SRS AIR BAG WARNING LAMP DOES NOT</b>		<b>PRECAUTION .....</b>	<b>140</b>
<b>TURN ON .....</b>	<b>138</b>	<b>PRECAUTIONS .....</b>	<b>140</b>
Diagnosis Procedure .....	138	Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- SIONER" .....	140
<b>PASSENGER SEAT BELT WARNING SYS-</b>		Service .....	140
<b>TEM .....</b>	<b>139</b>	Occupant Classification System Precaution .....	140
Diagnosis Procedure .....	139		

# DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

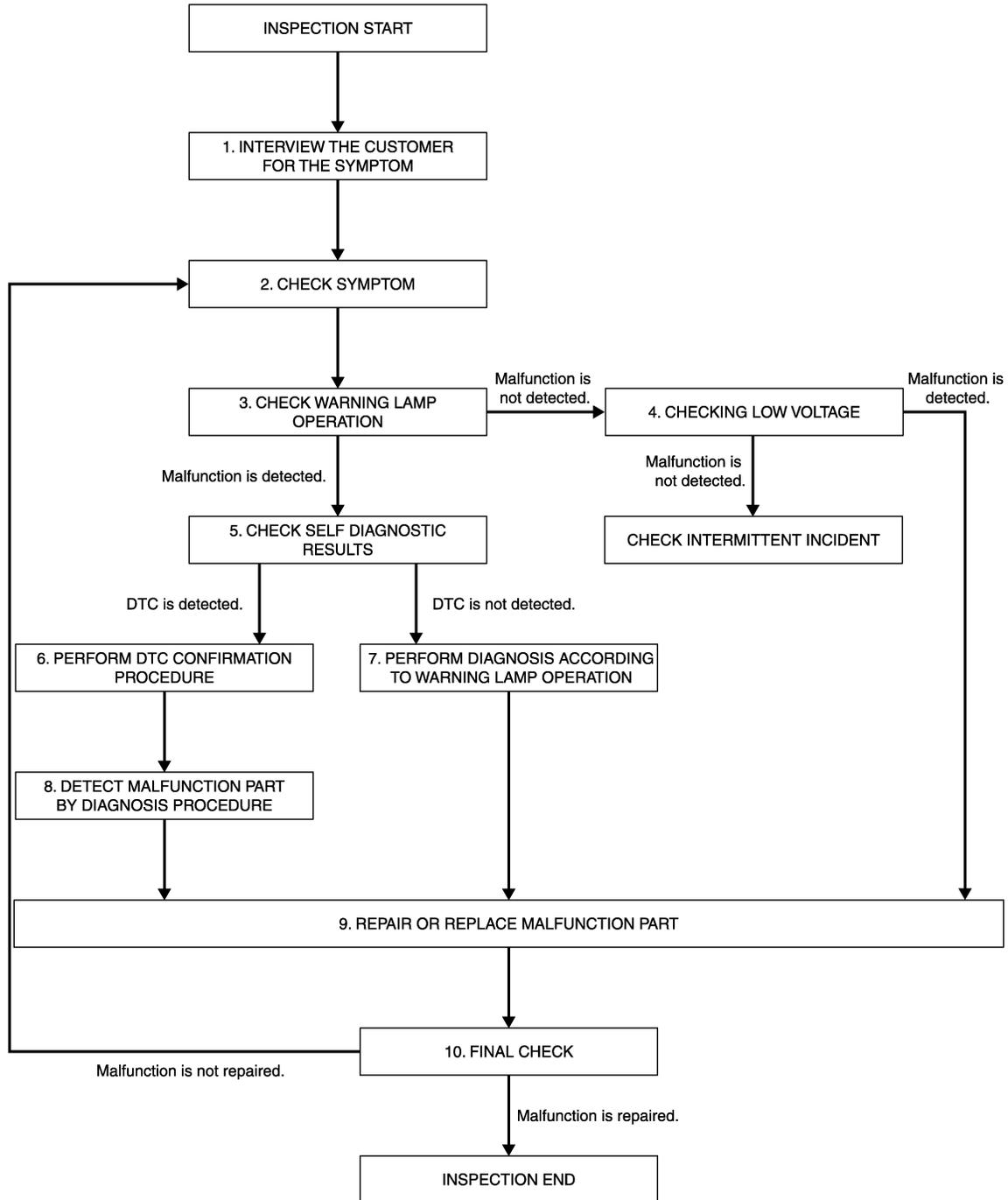
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000008295525

OVERALL SEQUENCE



SRC

JMHIA1324GB

DETAILED FLOW

Revision: 2012 August

SRC-5

2013 G Sedan

# DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

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## 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-15, "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 them out with CONSULT.)
- 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-15, "Air Bag Warning Lamp Diagnosis"](#).
2. Perform Diagnosis Procedure for the air bag warning lamp operation. Refer to [SRC-15, "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

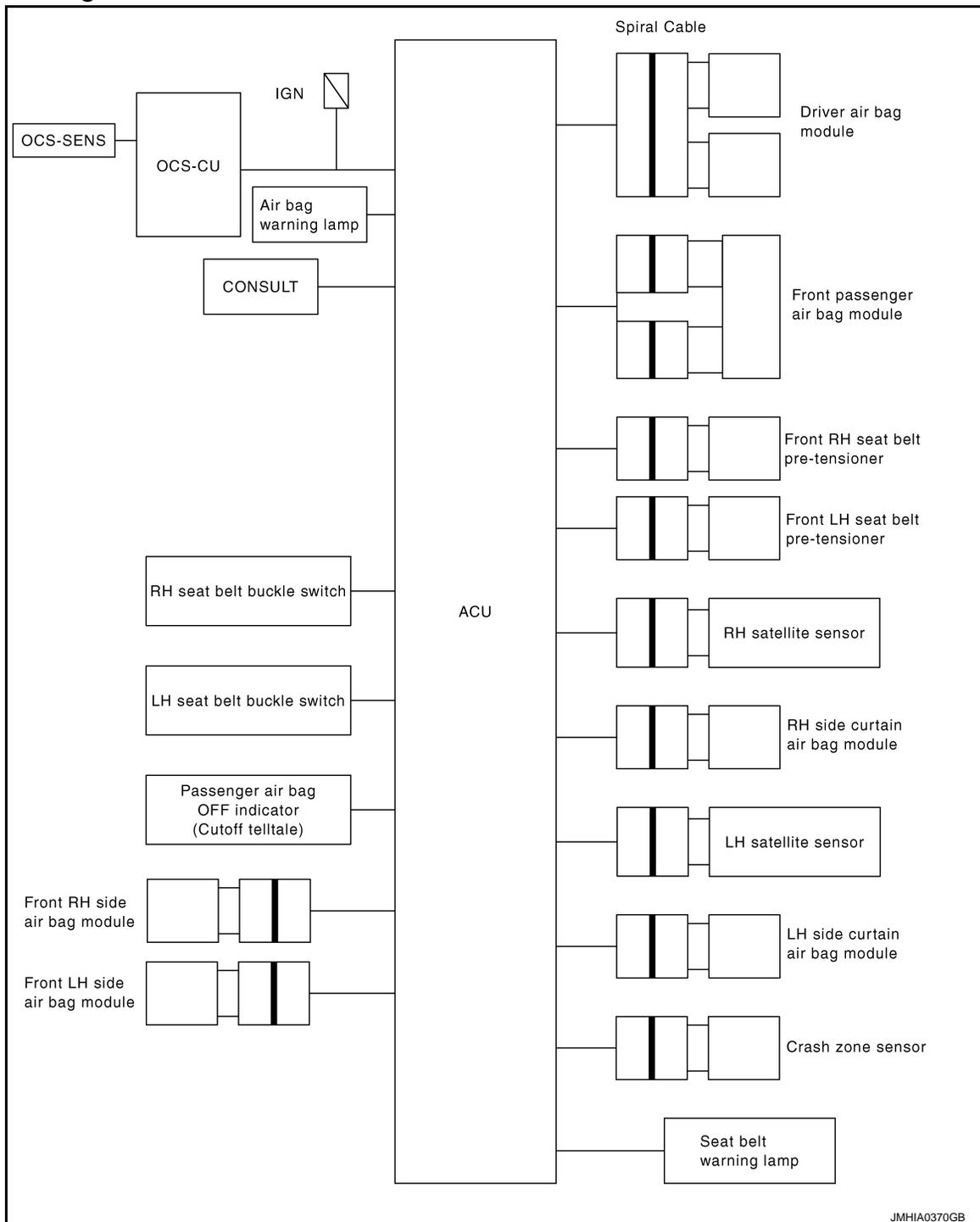
< SYSTEM DESCRIPTION >

## SYSTEM DESCRIPTION

### SRS AIR BAG SYSTEM

#### System Diagram

INFOID:000000008295526



#### System Description

INFOID:000000008295527

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.
- Detects electrical malfunction in SRS Air Bag System and Seat Belt Pre-tensioner System, records malfunction code, and blinking air bag warning lamp.

# SRS AIR BAG SYSTEM

## < SYSTEM DESCRIPTION >

- 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

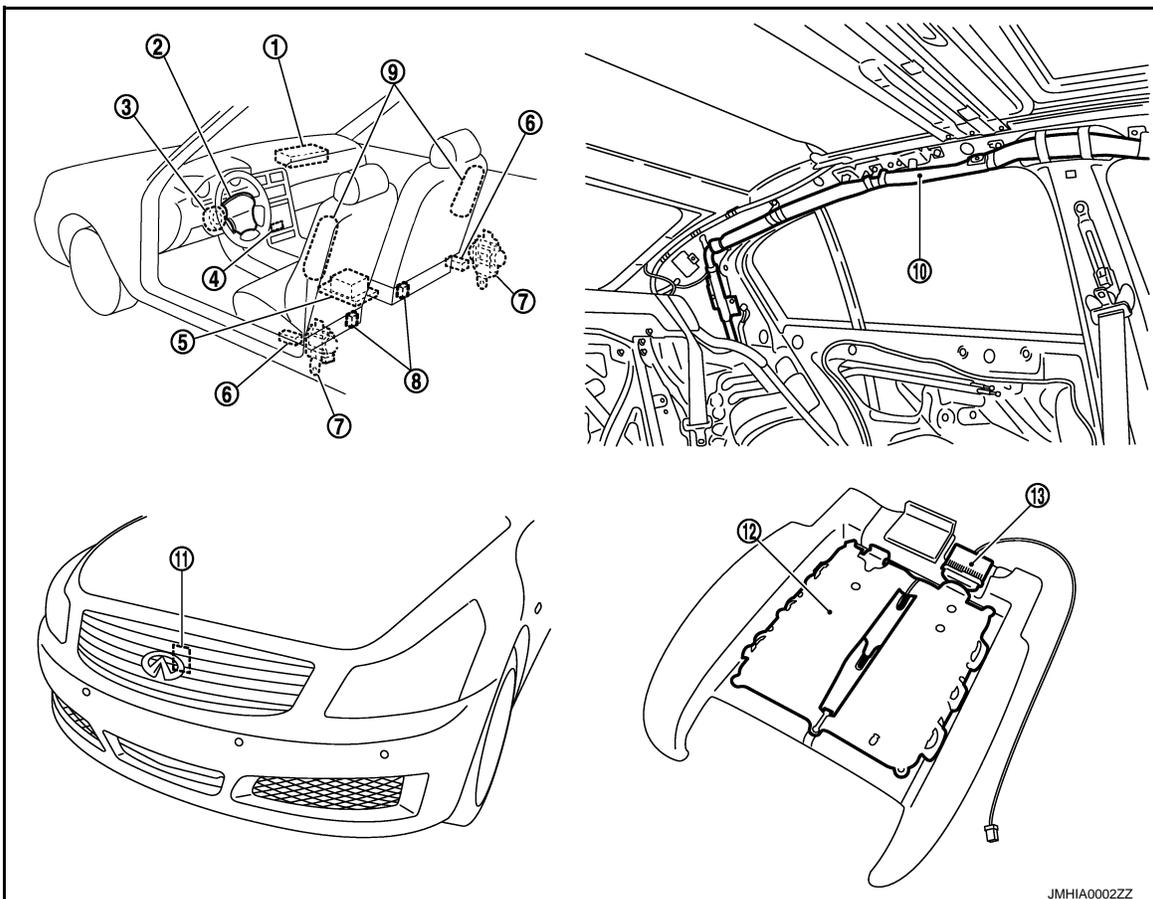
- The operation of supplemental restraint system is different depending on the collision modes applications. For example, the driver air bag module, front passenger air bag module and front seat belt pre-tensioner are activated in a frontal collision but not in a side collision.
- SRS configurations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

x: 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.	—	—	×

## Component Parts Location

INFOID:000000008295528



JMHIA0002Z

# SRS AIR BAG SYSTEM

## < SYSTEM DESCRIPTION >

- |   |                                  |  |
|---|----------------------------------|--|
| 1. Front passenger air bag module-1<br>Front passenger air bag module-2 | 2. Driver air bag module         | 3. Combination switch (spiral cable)               |
| 4. Front passenger air bag off indicator                                | 5. Air bag diagnosis sensor unit | 6. LH/RH side air bag (satellite) sensor           |
| 7. Front LH/RH seat belt pre-tensioner                                  | 8. Seat belt buckle switch       | 9. Front LH/RH side air bag module                 |
| 10. LH/RH side curtain air bag module                                   | 11. Crash zone sensor            | 12. Occupant Classification System seat sensor mat |
| 13. Occupant Classification System control unit                         |                                  |  |

## Component Description

INFOID:000000008295529

Component	Function
Air bag diagnosis sensor unit	Detects a collision and supplies power supply for deployment to air bag module and pre-tensioner seat belt.
Air bag module <ul style="list-style-type: none"> <li>• Driver</li> <li>• Passenger</li> <li>• Front side</li> <li>• Side curtain</li> </ul>	Receives signal from air bag diagnosis sensor unit and deploys air bag.
Front seat belt pre-tensioner	Receives signal from air bag diagnosis sensor unit and deploys pre-tensioner seat belt.
Seat belt buckle switch	Controls deployment timing depending on the seat belt condition that is fastened or unfastened.
Crash zone sensor	Transmits signal to air bag diagnosis sensor unit when a frontal collision occurs.
Satellite sensor (LH/RH)	Transmits signal to air bag diagnosis sensor unit when a side collision occurs.
Occupant Classification System	Detects front passenger seat occupant and judges whether or not deploys front passenger seat air bag.
Combination meter (air bag warning lamp)	Indicates air bag malfunctioning and deployment by blinking and illuminating air bag warning lamp.
Front passenger air bag OFF indicator	Indicates whether or not front passenger air bag is in activation mode subject to the judgement by Occupant Classification System.
Combination switch (spiral cable)	Supplies power supply to driver air bag module on steering wheel.

# OCCUPANT CLASSIFICATION SYSTEM

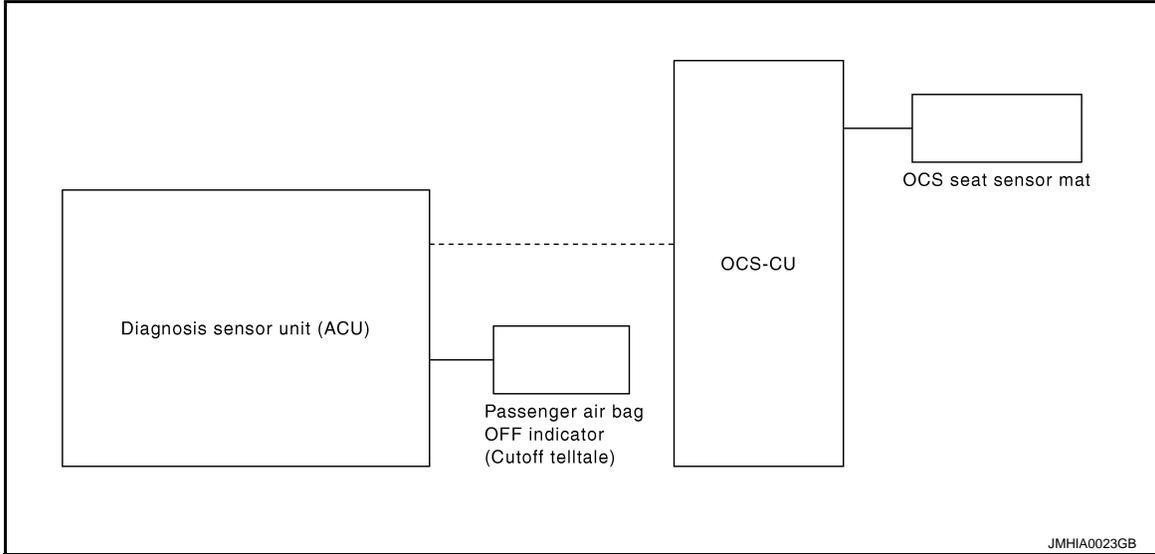
< SYSTEM DESCRIPTION >

## OCCUPANT CLASSIFICATION SYSTEM

### System Diagram

INFOID:000000008295530

### OCCUPANT CLASSIFICATION SYSTEM



### System Description

INFOID:000000008295531

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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.

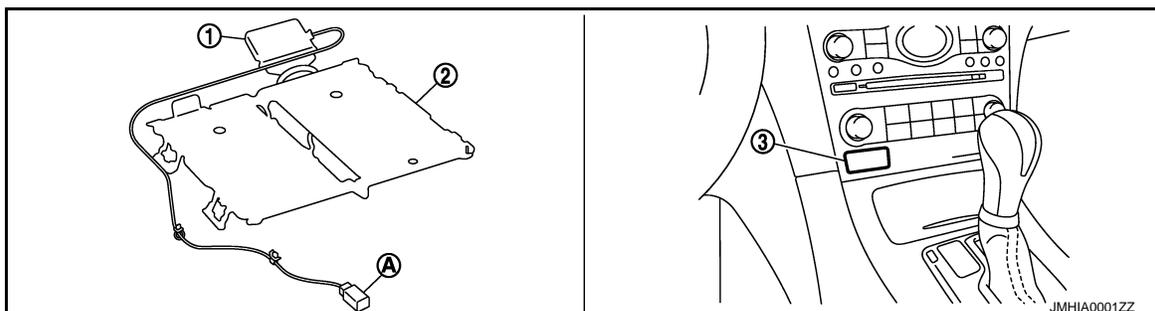
**NOTE:**

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:000000008295532



# OCCUPANT CLASSIFICATION SYSTEM

## < SYSTEM DESCRIPTION >

1. Occupant Classification System control unit
  2. Occupant Classification System seat sensor mat
  3. Front passenger air bag OFF indicator
- A. Occupant Classification System harness connector

## Component Description

INFOID:000000008295533

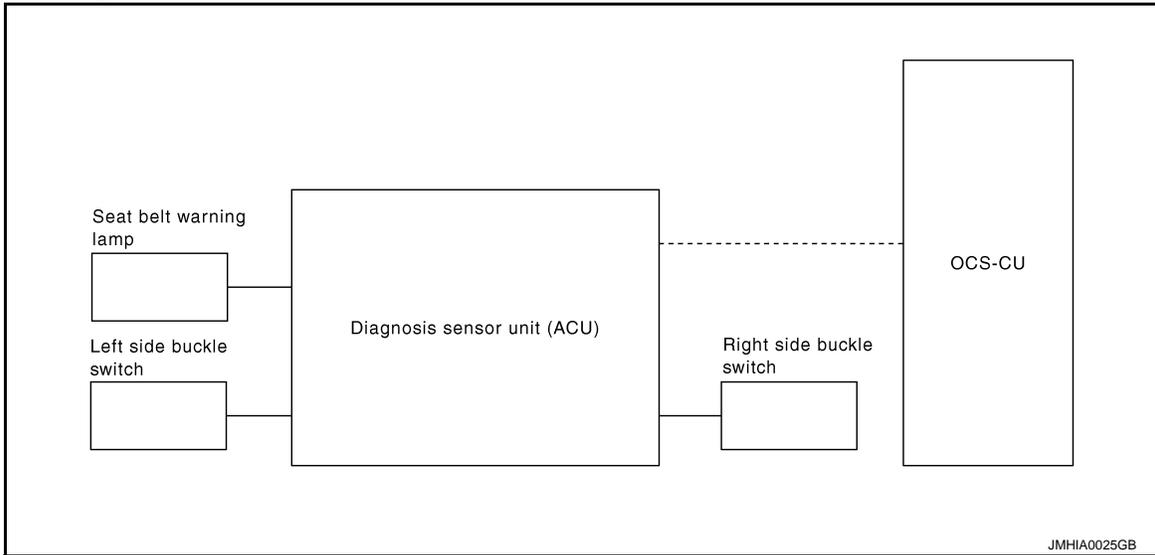
Component parts	Outline of function
Seat sensor mat	Detects if the passenger seat is empty or occupied
Occupant Classification System control unit	Transmits the passenger seat status (occupied or empty) to air bag diagnosis sensor unit
Front passenger air bag OFF indicator	Turns the front passenger air 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

# PASSENGER SEAT BELT WARNING SYSTEM

< SYSTEM DESCRIPTION >

## PASSENGER SEAT BELT WARNING SYSTEM

### System Diagram



### System Description

INFOID:000000008295535

- 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.
- For driver seat belt function, refer to [MWI-6. "METER SYSTEM : System Diagram"](#)

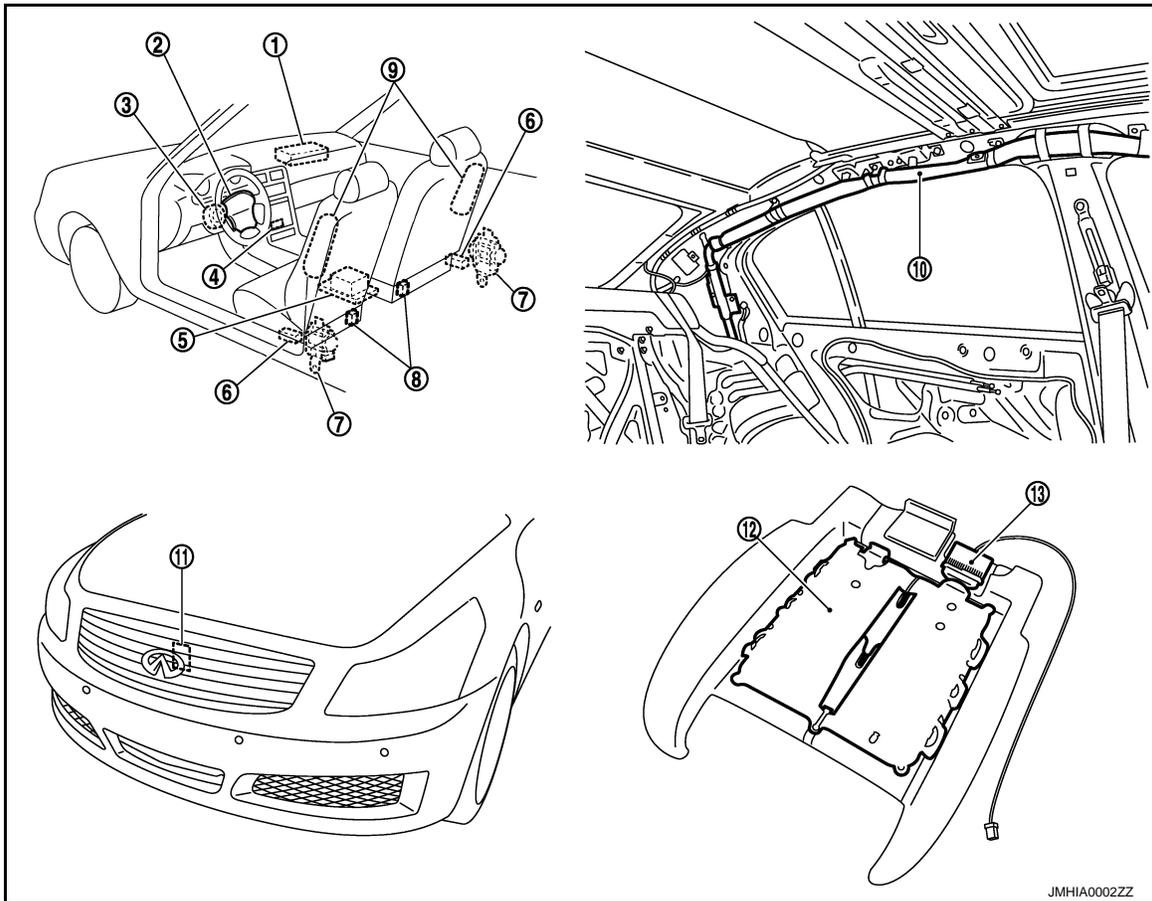
Status (front passenger seat)	Seat belt warning lamp (When front passenger seat is unbuckled)
Empty	OFF
Child/ child-seat	ON
Adult	ON
Malfunction	OFF

# PASSENGER SEAT BELT WARNING SYSTEM

< SYSTEM DESCRIPTION >

## Component Parts Location

INFOID:000000008295536



- |   |                                  |  |
|---|----------------------------------|--|
| 1. Front passenger air bag module-1<br>Front passenger air bag module-2 | 2. Driver air bag module         | 3. Combination switch (spiral cable)               |
| 4. Front passenger air bag off indicator                                | 5. Air bag diagnosis sensor unit | 6. LH/RH side air bag (satellite) sensor           |
| 7. Front LH/RH seat belt pre-tensioner                                  | 8. Seat belt buckle switch       | 9. Front LH/RH side air bag module                 |
| 10. LH/RH side curtain air bag module                                   | 11. Crash zone sensor            | 12. Occupant Classification System seat sensor mat |
| 13. Occupant Classification System control unit                         |                                  |  |

## Component Description

INFOID:000000008295537

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
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:000000008295538

#### 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:000000008295539

### 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.

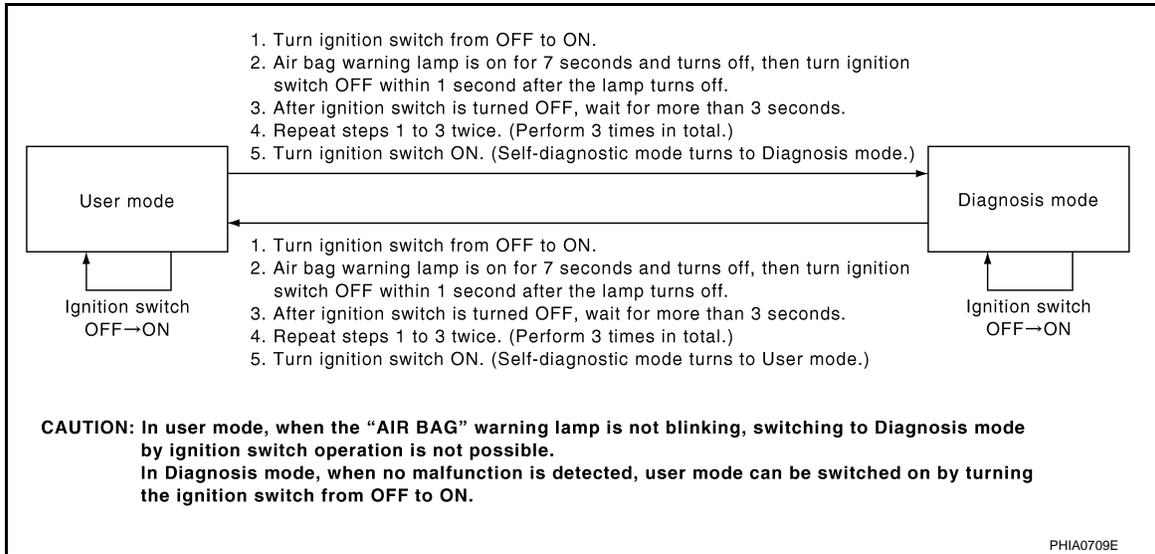
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SRC

# 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.

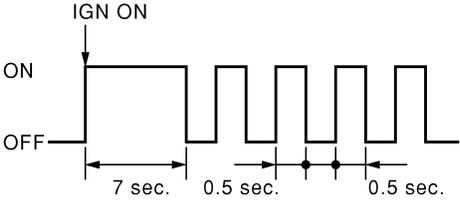
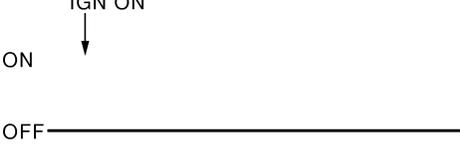


Air bag warning lamp examples (User mode)

Air bag warning lamp operation -User mode	SRS condition	Reference item
<p style="text-align: right;">SHIA0011E</p>	<ul style="list-style-type: none"> <li>• No malfunction is detected</li> <li>• No further action is necessary</li> </ul>	<p style="text-align: center;">—</p>

# DIAGNOSIS SYSTEM (AIRBAG)

## < SYSTEM DESCRIPTION >

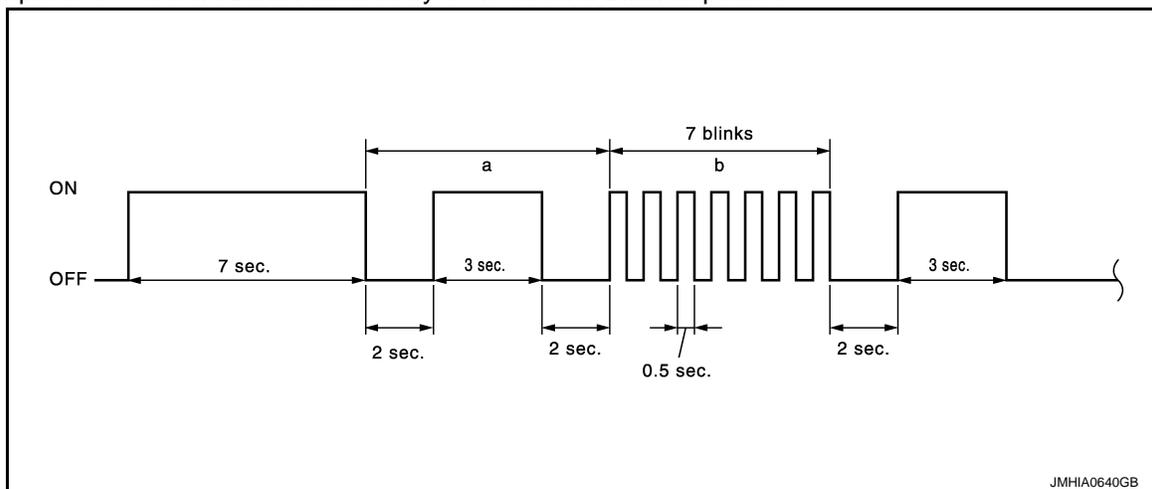
Air bag warning lamp operation -User mode	SRS condition	Reference item
 <p style="text-align: center;">SHIA0012E</p>	<ul style="list-style-type: none"> <li>The system is malfunctioning</li> <li>Self diagnostic result is not erased after repair</li> </ul> <p>Battery voltage is low (less than 9 V)</p> <p>Intermittent malfunction is detected in the past</p>	<p>Erase "Self Diagnostic Result" Refer to <a href="#">SRC-19, "CONSULT Function"</a>, How to Erase Self-diagnostic Result</p> <p>Check Battery voltage. Refer to <a href="#">PG-3, "How to Handle Battery"</a></p> <p>Go to <a href="#">GI-43, "Intermittent Incident"</a></p>
 <p style="text-align: center;">SHIA0013E</p>	<ul style="list-style-type: none"> <li>Air bag is deployed</li> <li>Seat belt pre-tensioner is deployed</li> </ul> <ul style="list-style-type: none"> <li>Air bag diagnosis sensor unit is malfunctioning</li> <li>Air bag power supply circuit is malfunctioning</li> <li>Air bag warning lamp circuit is malfunctioning</li> </ul>	<p>Go to <a href="#">SRC-127, "Diagnosis Procedure"</a> or <a href="#">SRC-129, "Diagnosis Procedure"</a></p> <p>Go to <a href="#">SRC-137, "Diagnosis Procedure"</a></p>
 <p style="text-align: center;">SHIA0014E</p>	<ul style="list-style-type: none"> <li>Air bag diagnosis sensor unit is malfunctioning</li> <li>Air bag warning lamp circuit is malfunctioning</li> </ul>	<p>Go to <a href="#">SRC-138, "Diagnosis Procedure"</a></p>

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## 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.

## DIAGNOSIS SYSTEM (AIRBAG)

### < SYSTEM DESCRIPTION >

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

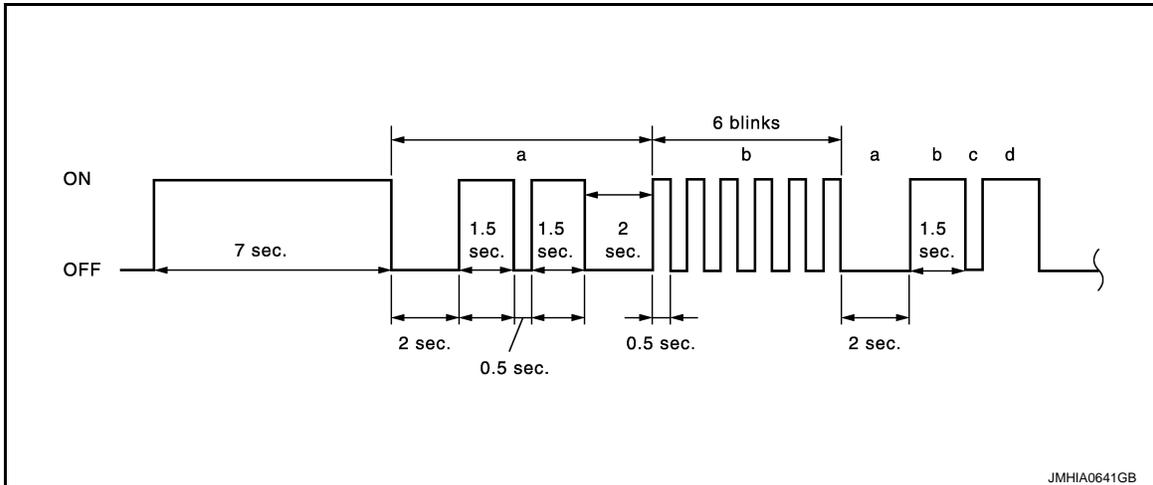
Number of 0.5-second blinks after a 3-second blink indicates malfunctioning items

Number of 0.5-second blinks	Malfunctioning items	Blinking pattern
0	Self-diagnosis result is not deleted	—
1	Front RH seat belt pre-tensioner	Refer to the following items <ul style="list-style-type: none"> <li>• <a href="#">SRC-63, "DTC Logic"</a></li> <li>• <a href="#">SRC-65, "DTC Logic"</a></li> <li>• <a href="#">SRC-67, "DTC Logic"</a></li> <li>• <a href="#">SRC-69, "DTC Logic"</a></li> </ul>
2	Driver air bag module	Refer to the following items <ul style="list-style-type: none"> <li>• <a href="#">SRC-43, "DTC Logic"</a></li> <li>• <a href="#">SRC-45, "DTC Logic"</a></li> <li>• <a href="#">SRC-47, "DTC Logic"</a></li> <li>• <a href="#">SRC-49, "DTC Logic"</a></li> </ul>
3	Front LH seat belt pre-tensioner	Refer to the following items <ul style="list-style-type: none"> <li>• <a href="#">SRC-71, "DTC Logic"</a></li> <li>• <a href="#">SRC-73, "DTC Logic"</a></li> <li>• <a href="#">SRC-75, "DTC Logic"</a></li> <li>• <a href="#">SRC-77, "DTC Logic"</a></li> </ul>
5	Occupant Classification System control unit	Refer to the following items <ul style="list-style-type: none"> <li>• <a href="#">SRC-27, "DTC Logic"</a></li> <li>• <a href="#">SRC-29, "DTC Logic"</a></li> <li>• <a href="#">SRC-31, "DTC Logic"</a></li> </ul>
6	Crash zone sensor	Refer to the following items <ul style="list-style-type: none"> <li>• <a href="#">SRC-37, "DTC Logic"</a></li> <li>• <a href="#">SRC-39, "DTC Logic"</a></li> </ul>
7	Air bag diagnosis sensor unit	Refer to the following items <ul style="list-style-type: none"> <li>• <a href="#">SRC-21, "DTC Logic"</a></li> <li>• <a href="#">SRC-23, "DTC Logic"</a></li> <li>• <a href="#">SRC-25, "DTC Logic"</a></li> <li>• <a href="#">SRC-35, "DTC Logic"</a></li> <li>• <a href="#">SRC-41, "DTC Logic"</a></li> <li>• <a href="#">SRC-51, "DTC Logic"</a></li> <li>• <a href="#">SRC-61, "DTC Logic"</a></li> <li>• <a href="#">SRC-79, "DTC Logic"</a></li> <li>• <a href="#">SRC-89, "DTC Logic"</a></li> <li>• <a href="#">SRC-107, "DTC Logic"</a></li> <li>• <a href="#">SRC-125, "DTC Logic"</a></li> </ul>
8	Front passenger air bag module	Refer to the following items <ul style="list-style-type: none"> <li>• <a href="#">SRC-53, "DTC Logic"</a></li> <li>• <a href="#">SRC-55, "DTC Logic"</a></li> <li>• <a href="#">SRC-57, "DTC Logic"</a></li> <li>• <a href="#">SRC-59, "DTC Logic"</a></li> </ul>
11	Front passenger air bag OFF indicator	Refer to <a href="#">SRC-33, "DTC Logic"</a> .

# DIAGNOSIS SYSTEM (AIRBAG)

## < SYSTEM DESCRIPTION >

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



a through b are repeated.

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

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

Number of 0.5-second blinks	Malfunctioning items	Blinking pattern
1	Front RH side air bag module	Refer to the following items <ul style="list-style-type: none"> <li><a href="#">SRC-91, "DTC Logic"</a></li> <li><a href="#">SRC-93, "DTC Logic"</a></li> <li><a href="#">SRC-95, "DTC Logic"</a></li> <li><a href="#">SRC-97, "DTC Logic"</a></li> </ul>
2	Front LH side air bag module	Refer to the following items <ul style="list-style-type: none"> <li><a href="#">SRC-99, "DTC Logic"</a></li> <li><a href="#">SRC-101, "DTC Logic"</a></li> <li><a href="#">SRC-103, "DTC Logic"</a></li> <li><a href="#">SRC-105, "DTC Logic"</a></li> </ul>
3	RH satellite sensor	Refer to the following items <ul style="list-style-type: none"> <li><a href="#">SRC-81, "DTC Logic"</a></li> <li><a href="#">SRC-83, "DTC Logic"</a></li> </ul>
4	LH satellite sensor	Refer to the following items <ul style="list-style-type: none"> <li><a href="#">SRC-85, "DTC Logic"</a></li> <li><a href="#">SRC-87, "DTC Logic"</a></li> </ul>
5	RH side curtain air bag module	Refer to the following items <ul style="list-style-type: none"> <li><a href="#">SRC-109, "DTC Logic"</a></li> <li><a href="#">SRC-111, "DTC Logic"</a></li> <li><a href="#">SRC-113, "DTC Logic"</a></li> <li><a href="#">SRC-115, "DTC Logic"</a></li> </ul>
6	LH side curtain air bag module	Refer to the following items <ul style="list-style-type: none"> <li><a href="#">SRC-117, "DTC Logic"</a></li> <li><a href="#">SRC-119, "DTC Logic"</a></li> <li><a href="#">SRC-121, "DTC Logic"</a></li> <li><a href="#">SRC-123, "DTC Logic"</a></li> </ul>

### 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:000000008295540

### APPLICATION ITEM

CONSULT performs the following functions.

# DIAGNOSIS SYSTEM (AIRBAG)

## < SYSTEM DESCRIPTION >

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"><li>• Self-diagnosis result is displayed. Refer to <a href="#">SRC-131, "DTC Index"</a>.</li><li>• "No DTC" is displayed when repair is completed by part replacement or other operations.</li><li>• "SELF-DIAG RESULT [PAST]" is displayed until "Erase" is performed.</li></ul> <p><b>CAUTION:</b> 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.

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

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

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

#### Description

INFOID:000000008295541

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:000000008295542

DTC No.	Trouble diagnosis name	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"><li>Malfunction in air bag diagnosis sensor unit</li><li>Configuration in air bag diagnosis sensor unit does not match the vehicles specification</li></ul>

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-15, "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-21, "Diagnosis Procedure"](#).  
NO >> INSPECTION END

#### Diagnosis Procedure

INFOID:000000008295543

#### 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.

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

< DTC/CIRCUIT DIAGNOSIS >

---

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

### 3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-21, "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:000000008295544

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:000000008295545

DTC No.	Trouble diagnosis name	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"><li>Malfunction in air bag diagnosis sensor unit</li><li>Configuration in air bag diagnosis sensor unit does not match the vehicle specification</li></ul>

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-15, "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:000000008295546

#### WARNING:

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

#### 1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

#### 2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 3.

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

### < DTC/CIRCUIT DIAGNOSIS >

---

NO >> Replace wiring harness.

### 3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22, "Exploded View"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-23, "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:000000008295547

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:000000008295548

DTC No.	Trouble diagnosis name	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"><li>Malfunction in air bag diagnosis sensor unit</li><li>Configuration in air bag diagnosis sensor unit does not match the vehicle specification</li></ul>

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-15, "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:000000008295549

#### WARNING:

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

#### 1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

#### 2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 3.

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

< DTC/CIRCUIT DIAGNOSIS >

---

NO >> Replace wiring harness.

### 3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22, "Exploded View"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-25, "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:000000008295550

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:000000008295551

### DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1017 B1020 B1021	OCCUPANT SENS C/U [UNIT FAIL]	Trouble occurs in Occupant Classification System control unit	<ul style="list-style-type: none"><li>• Disconnection of wiring harness</li><li>• Malfunction in Occupant Classification System control unit</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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-15. "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:000000008295552

#### 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-22, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-27, "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-60, "Exploded View"](#).

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

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

# B1018 OCCUPANT SENS

< DTC/CIRCUIT DIAGNOSIS >

## B1018 OCCUPANT SENS

### Description

INFOID:000000008295553

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:000000008295554

### DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1018	OCCUPANT SENS [UNIT FAIL]	Malfunction occurs in Occupant Classification System sensor	<ul style="list-style-type: none"><li>• Disconnection of wiring harness</li><li>• Malfunction in Occupant Classification System sensor</li><li>• Malfunction in Occupant Classification System control unit</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15, "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:000000008295555

#### 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-22, "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 AND SENSOR

---

1. Replace seat cushion frame. Refer to [SE-60, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-29, "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:000000008295556

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:000000008295557

### DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	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"> <li>• Disconnection of wiring harness</li> <li>• Malfunction in Occupant Classification System control unit</li> <li>• Malfunction in air bag diagnosis sensor unit</li> </ul>

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-15. "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:000000008295558

#### 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.

## B1022 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-22, "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

---

1. Replace seat cushion frame. Refer to [SE-60, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-31, "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:000000008295559

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:000000008295560

### DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1023	PASS A/B INDCTR CKT [UNIT FAIL]	Passenger air bag OFF indicator circuit is open or shorted to ground or the circuits are shorted each other	<ul style="list-style-type: none"><li>• Disconnection of wiring harness</li><li>• Malfunction in front passenger air bag OFF indicator</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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-15, "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:000000008295561

#### 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.REPLACE PASSENGER AIR BAG OFF INDICATOR

---

1. Replace front passenger air bag OFF indicator. Refer to [IP-11, "A/T MODELS : Exploded View"](#)

2. Perform DTC confirmation procedure. Refer to [SRC-33, "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-22, "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-33, "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:000000008295562

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:000000008295563

DTC No.	Trouble diagnosis name	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"><li>Malfunction in air bag diagnosis sensor unit</li><li>Configuration in air bag diagnosis sensor unit does not match the vehicle specification</li></ul>

### 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-15, "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:000000008295564

#### 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?

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

< DTC/CIRCUIT DIAGNOSIS >

---

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

### **3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT**

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22. "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-35. "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:000000008295565

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:000000008295566

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1033 B1034	CRASH ZONE SENSOR [UNIT FAIL]	Crash zone sensor is malfunctioning	<ul style="list-style-type: none"><li>• Disconnection of wiring harness</li><li>• Malfunction in crash zone sensor</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15. "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:000000008295567

#### WARNING:

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

#### 1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

#### 2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

## B1033, B1034 CRASH ZONE SEN

< DTC/CIRCUIT DIAGNOSIS >

---

### 3. REPLACE CRASH ZONE SENSOR

---

1. Replace crash zone sensor. Refer to [SR-20, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-37, "DTC Logic"](#).

Is DTC detected?

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

### 4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-37, "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:000000008295568

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:000000008295569

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1035 B1036	CRASH ZONE SEN- SOR [COMM FAIL] [UNMATCH]	Crash zone sensor is malfunctioning or out of the specified specification	<ul style="list-style-type: none"><li>• Disconnection of wiring harness</li><li>• Malfunction in crash zone sensor</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15. "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:000000008295570

#### WARNING:

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

#### 1.CHECK HARNESS CONNECTOR

Check the harness connector.

#### Is the inspection result normal?

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

#### 2.CHECK WIRING HARNESS

Check the wiring harness externals.

#### Is the inspection result normal?

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

## B1035, B1036 CRASH ZONE SEN

< DTC/CIRCUIT DIAGNOSIS >

---

### 3. REPLACE CRASH ZONE SENSOR

---

1. Replace crash zone sensor. Refer to [SR-20, "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-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-39, "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:000000008295571

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:000000008295572

DTC No.	Trouble diagnosis name	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"><li>Malfunction in air bag diagnosis sensor unit</li><li>Configuration in air bag diagnosis sensor unit does not match the vehicle specification</li></ul>

### 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-15, "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:000000008295573

#### 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?

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

### **< DTC/CIRCUIT DIAGNOSIS >**

---

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

### **3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT**

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22. "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-41. "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:000000008295574

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:000000008295575

DTC No.	Trouble diagnosis name	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"><li>• Disconnection of wiring harness and open</li><li>• Malfunction in driver air bag module</li><li>• Malfunction in spiral cable</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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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-15, "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:000000008295576

#### 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.

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## B1049, B1054 DRIVER AIRBAG MODULE

### < DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

### 3. CHECK SPIRAL CABLE CIRCUIT

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

Driver air bag module		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-13, "Exploded View"](#).

### 4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-22, "Exploded View"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-43, "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-10, "Exploded View"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-43, "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:000000008295577

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:000000008295578

DTC No.	Trouble diagnosis name	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"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in driver air bag module</li><li>• Malfunction in spiral cable</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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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-15, "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:000000008295579

#### 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.

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# B1050, B1055 DRIVER AIRBAG MODULE

## < DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

### 3. CHECK SPIRAL CABLE CIRCUIT

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

Driver air bag module		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-13, "Exploded View"](#).

### 4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-22, "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-10, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-43, "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:000000008295580

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:000000008295581

DTC No.	Trouble diagnosis name	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"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in driver air bag module</li><li>• Malfunction in spiral cable</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15, "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:000000008295582

#### 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.

# B1051, B1056 DRIVER AIRBAG MODULE

## < DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

### 3. CHECK SPIRAL CABLE CIRCUIT

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

Driver air bag module		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	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-13, "Exploded View"](#).

### 4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-22, "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-10, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-47, "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:000000008295583

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:000000008295584

DTC No.	Trouble diagnosis name	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"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in driver air bag module</li><li>• Malfunction in spiral cable</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295585

#### 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.

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## B1052, B1057 DRIVER AIRBAG MODULE

### < DTC/CIRCUIT DIAGNOSIS >

NO >> Replace wiring harness.

### 3. CHECK SPIRAL CABLE CIRCUIT

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

Driver air bag module		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-13, "Exploded View"](#).

### 4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-22, "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-10, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-49, "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:000000008295586

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:000000008295587

DTC No.	Trouble diagnosis name	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"><li>Malfunction in air bag diagnosis sensor unit</li><li>Configuration in air bag diagnosis sensor unit does not match the vehicle specification</li></ul>

### 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-15, "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:000000008295588

#### 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?

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

< DTC/CIRCUIT DIAGNOSIS >

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

### **3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT**

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1. Replace air bag diagnosis sensor unit. Refer to [SR-22. "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-51. "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:000000008295589

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:000000008295590

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1065 B1070	ASSIST A/B MODULE [OPEN]	Front passenger air bag module circuit is open	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and open</li><li>• Malfunction in front passenger air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295591

#### 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.

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## B1065, B1070 ASSIST A/B MODULE

### < DTC/CIRCUIT DIAGNOSIS >

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NO >> Replace wiring harness.

### 3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-53, "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-16, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-53, "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:000000008295592

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:000000008295593

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1066 B1071	ASSIST A/B MODULE [VB-SHORT]	Front passenger air bag module circuit is shorted to some power supply circuit	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front passenger air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295594

#### 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.

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## B1066, B1071 ASSIST A/B MODULE

### < DTC/CIRCUIT DIAGNOSIS >

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NO >> Replace wiring harness.

### 3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22, "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-16, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-55, "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:000000008295595

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:000000008295596

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1067 B1072	ASSIST A/B MODULE [GND-SHORT]	Front passenger air bag module circuit is shorted to ground	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front passenger air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295597

#### 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.

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## B1067, B1072 ASSIST A/B MODULE

### < DTC/CIRCUIT DIAGNOSIS >

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NO >> Replace wiring harness.

### 3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22, "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-16, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-57, "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:000000008295598

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:000000008295599

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1068 B1073	ASSIST A/B MODULE [SHORT]	Front passenger air bag module circuits are shorted to each other	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front passenger air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295600

#### 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.

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## B1068, B1073 ASSIST A/B MODULE

### < DTC/CIRCUIT DIAGNOSIS >

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NO >> Replace wiring harness.

### 3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22, "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-16, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-59, "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:000000008295601

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:000000008295602

DTC No.	Trouble diagnosis name	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"><li>Malfunction in air bag diagnosis sensor unit</li><li>Configuration in air bag diagnosis sensor unit does not match the vehicle specification</li></ul>

### 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-15, "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:000000008295603

#### 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?

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

< DTC/CIRCUIT DIAGNOSIS >

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- 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. "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-61. "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:000000008295604

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:000000008295605

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1081	PRE-TEN FRONT RH [OPEN]	Front RH seat belt pre-tensioner circuit is open	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and open</li><li>• Malfunction in front RH seat belt pre-tensioner</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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-15, "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:000000008295606

#### 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?

## B1081 PRE-TEN FRONT RH

< DTC/CIRCUIT DIAGNOSIS >

---

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

### 3.REPLACE FRONT SEAT BELT PRE-TENSIONER

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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-63. "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-22. "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-63. "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:000000008295607

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:000000008295608

DTC No.	Trouble diagnosis name	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"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front RH seat belt pre-tensioner</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15, "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:000000008295609

#### 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?

## B1082 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-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-22. "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-65. "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:000000008295610

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:000000008295611

DTC No.	Trouble diagnosis name	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"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front RH seat belt pre-tensioner</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15, "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:000000008295612

#### 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?

## B1083 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-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-22. "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-67. "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:000000008295613

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:000000008295614

DTC No.	Trouble diagnosis name	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"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front RH seat belt pre-tensioner</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15, "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:000000008295615

#### 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?

## 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-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-22. "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-69. "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:000000008295616

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:000000008295617

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1086	PRE-TEN FRONT LH [OPEN]	Front LH seat belt pre-tensioner circuit is open	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and open</li><li>• Malfunction in front LH seat belt pre-tensioner</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15, "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

### Diagnosis Procedure

INFOID:000000008295618

#### 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-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-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-71, "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:000000008295619

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:000000008295620

DTC No.	Trouble diagnosis name	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"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front LH seat belt pre-tensioner</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15, "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:000000008295621

#### 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?

## 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-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-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-73, "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:000000008295622

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:000000008295623

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1088	PRE-TEN FRONT LH [GND-SHORT]	Front LH seat belt pre-tensioner circuit is shorted to ground	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front LH seat belt pre-tensioner</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

A  
B  
C  
D  
E  
F

G

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-15, "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

I  
J  
K  
L  
M

### Diagnosis Procedure

INFOID:000000008295624

#### 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

## 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-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-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-75, "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:000000008295625

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:000000008295626

DTC No.	Trouble diagnosis name	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"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front LH seat belt pre-tensioner</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15, "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:000000008295627

#### 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-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-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-77, "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:000000008295628

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:000000008295629

DTC No.	Trouble diagnosis name	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"><li>Malfunction in air bag diagnosis sensor unit</li><li>Configuration in air bag diagnosis sensor unit does not match the vehicle specification</li></ul>

### 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-15, "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:000000008295630

#### 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?

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

< DTC/CIRCUIT DIAGNOSIS >

---

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

### **3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT**

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22. "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-79. "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:000000008295631

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:000000008295632

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1113 B1114	SATELLITE SENS RH [UNIT FAIL]	RH satellite sensor is malfunctioning	<ul style="list-style-type: none"><li>• Disconnection of wiring harness</li><li>• Malfunction in RH satellite sensor</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15. "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-81. "Diagnosis Procedure"](#).  
NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000008295633

#### WARNING:

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

#### 1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

#### 2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

## B1113, B1114 SATELLITE SENS RH

< DTC/CIRCUIT DIAGNOSIS >

---

### 3. REPLACE SATELLITE SENSOR

---

1. Replace RH satellite sensor. Refer to [SR-21, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-81, "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-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-81, "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:000000008295634

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:000000008295635

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1115 B1116	SATELLITE SENS RH [COMM FAIL] [UNMATCH]	RH satellite sensor is malfunctioning or out of the specified specification	<ul style="list-style-type: none"><li>• Disconnection of wiring harness</li><li>• Malfunction in RH satellite sensor</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15. "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:000000008295636

#### WARNING:

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

#### 1.CHECK HARNESS CONNECTOR

Check the harness connector.

#### Is the inspection result normal?

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

#### 2.CHECK WIRING HARNESS

Check the wiring harness externals.

#### Is the inspection result normal?

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

## B1115, B1116 SATELLITE SENS RH

< DTC/CIRCUIT DIAGNOSIS >

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### 3.REPLACE SATELLITE SENSOR

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1. Replace RH satellite sensor. Refer to [SR-21, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-83, "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-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-83, "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:000000008295637

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:000000008295638

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1118 B1119	SATELLITE SENS LH [UNIT FAIL]	LH satellite sensor is malfunctioning	<ul style="list-style-type: none"><li>• Disconnection of wiring harness</li><li>• Malfunction in LH satellite sensor</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15. "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:000000008295639

#### WARNING:

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

#### 1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

#### 2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

## B1118, B1119 SATELLITE SENS LH

< DTC/CIRCUIT DIAGNOSIS >

---

### 3. REPLACE SATELLITE SENSOR

---

1. Replace LH satellite sensor. Refer to [SR-21, "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-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-85, "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:000000008295640

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:000000008295641

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1120 B1121	SATELLITE SENS LH [COMM FAIL] [UNMATCH]	LH satellite sensor is malfunctioning or out of the specified specification	<ul style="list-style-type: none"><li>• Disconnection of wiring harness</li><li>• Malfunction in LH satellite sensor</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

### 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-15. "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:000000008295642

#### WARNING:

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

#### 1. CHECK HARNESS CONNECTOR

Check the harness connector.

#### Is the inspection result normal?

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

#### 2. CHECK WIRING HARNESS

Check the wiring harness externals.

#### Is the inspection result normal?

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

## B1120, B1121 SATELLITE SENS LH

< DTC/CIRCUIT DIAGNOSIS >

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### 3. REPLACE SATELLITE SENSOR

---

1. Replace LH satellite sensor. Refer to [SR-21, "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-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-87, "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:000000008295643

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:000000008295644

DTC No.	Trouble diagnosis name	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"><li>Malfunction in air bag diagnosis sensor unit</li><li>Configuration in air bag diagnosis sensor unit does not match the vehicle specification</li></ul>

### 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-15, "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:000000008295645

#### 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?

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

< DTC/CIRCUIT DIAGNOSIS >

---

YES >> GO TO 3.

NO >> Replace wiring harness.

### 3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22. "Exploded View"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-89. "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:000000008295646

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:000000008295647

DTC No.	Trouble diagnosis name	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"><li>• Disconnection of wiring harness and open</li><li>• Malfunction in front RH side air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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-15, "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:000000008295648

#### 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-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 FRONT SIDE AIR BAG MODULE

---

1. Replace front RH side air bag module. Refer to [SE-60, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-91, "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:000000008295649

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:000000008295650

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1130	SIDE MODULE RH [VB-SHORT]	Front RH side air bag module circuit is shorted to some power supply circuit	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front RH side air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295651

#### 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.

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## 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-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-93, "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-60, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-93, "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:000000008295652

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:000000008295653

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1131	SIDE MODULE RH [GND-SHORT]	Front RH side air bag module circuit is shorted to ground	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front RH side air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295654

#### 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.

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## 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-22, "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-60, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-95, "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:000000008295655

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:000000008295656

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1132	SIDE MODULE RH [SHORT]	Front RH side air bag module circuit are shorted to each other	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front RH side air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295657

#### 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.

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## 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-22, "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-60, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-97, "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:000000008295658

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:000000008295659

DTC No.	Trouble diagnosis name	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"><li>• Disconnection of wiring harness and open</li><li>• Malfunction in front LH side air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295660

#### 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.

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## 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-22, "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 LH side air bag module. Refer to [SE-60, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-99, "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:000000008295661

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:000000008295662

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1135	SIDE MODULE LH [VB-SHORT]	Front LH side air bag module circuit is shorted to some power supply circuit	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front LH side air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295663

#### 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.

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## 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-22, "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 LH side air bag module. Refer to [SE-60, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-101, "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:000000008295664

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:000000008295665

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1136	SIDE MODULE LH [GND-SHORT]	Front LH side air bag module circuit is shorted to ground	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front LH side air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295666

#### 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.

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## 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-22, "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-60, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-103, "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:000000008295667

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:000000008295668

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1137	SIDE MODULE LH [SHORT]	Front LH side air bag module circuit are shorted to each other	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in front LH side air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295669

#### 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.

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## B1137 SIDE MODULE LH

### < DTC/CIRCUIT DIAGNOSIS >

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NO >> Replace wiring harness.

### 3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22, "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-60, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-105, "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:000000008295670

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:000000008295671

DTC No.	Trouble diagnosis name	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"><li>Malfunction in air bag diagnosis sensor unit</li><li>Configuration in air bag diagnosis sensor unit does not match the vehicle specification</li></ul>

### 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-15, "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:000000008295672

#### 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?

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

< DTC/CIRCUIT DIAGNOSIS >

---

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

### **3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT**

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22. "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-107. "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:000000008295673

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:000000008295674

DTC No.	Trouble diagnosis name	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"> <li>• Disconnection of wiring harness and open</li> <li>• Malfunction in RH side curtain air bag module</li> <li>• Malfunction in air bag diagnosis sensor unit</li> </ul>

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### 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-15, "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:000000008295675

#### 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-22, "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 SIDE CURTAIN AIR BAG MODULE

---

1. Replace RH side curtain air bag module. Refer to [SR-18, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-109, "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:000000008295676

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:000000008295677

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1146	CURTAIN MODULE RH [VB-SHORT]	RH side curtain air bag module circuit is shorted to some power supply circuit	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in RH side curtain air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295678

#### 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.

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## 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-22, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-111, "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-18, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-111, "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:000000008295679

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:000000008295680

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1147	CURTAIN MODULE RH [GND-SHORT]	RH side curtain air bag module circuit is shorted to ground	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in RH side curtain air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295681

#### 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.

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## 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-22, "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-18, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-113, "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:000000008295682

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:000000008295683

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1148	CURTAIN MODULE RH [SHORT]	RH side curtain air bag module circuit are shorted to each other	<ul style="list-style-type: none"> <li>• Disconnection of wiring harness and short</li> <li>• Malfunction in RH side curtain air bag module</li> <li>• Malfunction in air bag diagnosis sensor unit</li> </ul>

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### 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-15, "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:000000008295684

#### 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-22, "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-18, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-115, "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:000000008295685

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:000000008295686

DTC No.	Trouble diagnosis name	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"><li>• Disconnection of wiring harness and open</li><li>• Malfunction in LH side curtain air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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### 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-15, "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:000000008295687

#### 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.

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## 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-22, "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 LH side curtain air bag module. Refer to [SR-18, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-117, "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:000000008295688

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:000000008295689

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1151	CURTAIN MODULE LH [VB-SHORT]	LH side curtain air bag module circuit is shorted to some power supply circuit	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in LH side curtain air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

A  
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D  
E  
F  
G  
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-15, "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:000000008295690

#### 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.

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## 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-22, "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 LH side curtain air bag module. Refer to [SR-18, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-119, "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:000000008295691

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:000000008295692

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1152	CURTAIN MODULE LH [GND-SHORT]	LH side curtain air bag module circuit is shorted to ground	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in LH side curtain air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

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G  
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-15, "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:000000008295693

#### 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.

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## 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-22, "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-18, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-121, "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:000000008295694

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:000000008295695

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1153	CURTAIN MODULE LH [SHORT]	LH side curtain air bag module circuit are shorted to each other	<ul style="list-style-type: none"><li>• Disconnection of wiring harness and short</li><li>• Malfunction in LH side curtain air bag module</li><li>• Malfunction in air bag diagnosis sensor unit</li></ul>

A  
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G  
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-15, "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:000000008295696

#### 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.

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## 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-22, "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-18, "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-123, "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:000000008295697

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:000000008295698

DTC No.	Trouble diagnosis name	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"><li>Malfunction in air bag diagnosis sensor unit</li><li>Configuration in air bag diagnosis sensor unit does not match the vehicle specification</li></ul>

### 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-15, "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:000000008295699

#### 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?

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

### < DTC/CIRCUIT DIAGNOSIS >

---

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

### 3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

---

1. Replace air bag diagnosis sensor unit. Refer to [SR-22. "Exploded View"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-125. "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:000000008295700

### 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-10. "Exploded View"](#) (Driver air bag module), [SR-16. "Exploded View"](#) (Front passenger air bag module), [SR-20. "Exploded View"](#) (Crash zone sensor), [SR-22. "Exploded View"](#) (Air bag diagnosis sensor unit), [SB-6. "SEAT BELT RETRACTOR : Exploded View"](#) (Front LH/RH seat belt pre-tensioner).

### DTC Logic

INFOID:000000008295701

DTC No.	Trouble diagnosis name	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

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-15. "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:000000008295702

#### 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-4. "FOR FRONTAL COLLISION : When SRS is activated in a collision"](#) or [SR-5. "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.

Is the inspection result normal?

## B1209 FRONTAL COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

---

YES >> INSPECTION END

NO >> Perform diagnosis of applicable DTC. Refer to [SRC-131, "DTC Index"](#).

# B1210 SIDE COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

## B1210 SIDE COLLISION DETECTION

### Description

INFOID:000000008295703

### 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-60. "Exploded View"](#) (Front LH/RH side air bag module), [SR-20. "Exploded View"](#) (Side curtain air bag module), [SR-21. "Exploded View"](#) (LH/RH satellite sensor).

### DTC Logic

INFOID:000000008295704

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B1210	SIDE COLLISION DETECTION	Front side air bag, side curtain air bag is deployed	—

### DTC CONFIRMATION PROCEDURE

SRC

#### 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-15. "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-129. "Diagnosis Procedure"](#).  
NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000008295705

#### 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-6. "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision"](#) or [SR-7. "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?

- YES >> INSPECTION END

## B1210 SIDE COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

---

NO >> Perform diagnosis of applicable DTC. Refer to [SRC-131, "DTC Index"](#).

# DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

## ECU DIAGNOSIS INFORMATION

### DIAGNOSIS SENSOR UNIT

#### DTC Index

INFOID:000000008295706

Diagnostic item	Explanation	Reference page
NO DTC IS DETECTED	When malfunction is indicated by the "AIR BAG" warning lamp in User mode	<p>Low battery voltage (Less than 9 V)</p> <p><a href="#">SRC-27, "DTC Logic".</a></p> <ul style="list-style-type: none"> <li>Self-diagnosis result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair</li> <li>Intermittent malfunction has been detected in the past</li> </ul> <p><a href="#">SRC-15, "Air Bag Warning Lamp Diagnosis", SRC-19, "CONSULT Function".</a></p>
	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"> <li><a href="#">SRC-21, "DTC Logic".</a></li> <li><a href="#">SRC-23, "DTC Logic".</a></li> <li><a href="#">SRC-25, "DTC Logic".</a></li> </ul>
OCCUPANT SENS C/U [UNIT FAIL] [B1017] [B1020] [B1021]	Malfunction occurs in Occupant Classification System control unit	<a href="#">SRC-27, "DTC Logic".</a>
OCCUPANT SENS [UNIT FAIL] [B1018]	Malfunction occurs in Occupant Classification System sensor	<a href="#">SRC-29, "DTC Logic".</a>
OCCUPANT SENS C/U [COMM FAIL] [B1022]	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	<a href="#">SRC-31, "DTC Logic".</a>
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	<a href="#">SRC-33, "DTC Logic".</a>
CONTROL UNIT [B1026-B1031]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	<a href="#">SRC-35, "DTC Logic".</a>
CRASH ZONE SEN [UNIT FAIL] [B1033] [B1034]	Crash zone sensor is malfunctioning	<a href="#">SRC-37, "DTC Logic".</a>
CRASH ZONE SEN [COMM FAIL] [B1035] [UNMATCH] [B1036]	Crash zone sensor is malfunctioning or out of the specified specification	<a href="#">SRC-39, "DTC Logic".</a>
CONTROL UNIT [B1042-B1047]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	<a href="#">SRC-41, "DTC Logic".</a>
DRIVER AIRBAG MODULE [OPEN] [B1049] [B1054]	Driver air bag module circuit is open (including the spiral cable)	<a href="#">SRC-43, "DTC Logic".</a>
DRIVER AIRBAG MODULE [VB-SHORT] [B1050] [B1055]	Driver air bag module circuit is shorted to some power supply circuit (including the spiral cable)	<a href="#">SRC-45, "DTC Logic".</a>
DRIVER AIRBAG MODULE [GND-SHORT] [B1051] [B1056]	Driver air bag module circuit is shorted to ground (including the spiral cable)	<a href="#">SRC-47, "DTC Logic".</a>

## 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)	<a href="#">SRC-49, "DTC Logic"</a> .
CONTROL UNIT [B1058-B1063]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	<a href="#">SRC-51, "DTC Logic"</a> .
ASSIST A/B MODULE [OPEN] [B1065] [B1070]	Front passenger air bag module circuit is open	<a href="#">SRC-53, "DTC Logic"</a> .
ASSIST A/B MODULE [VB-SHORT] [B1066] [B1071]	Front passenger air bag module circuit is shorted to some power supply circuit	<a href="#">SRC-55, "DTC Logic"</a> .
ASSIST A/B MODULE [GND-SHORT] [B1067] [B1072]	Front passenger air bag module circuit is shorted to ground	<a href="#">SRC-57, "DTC Logic"</a> .
ASSIST A/B MODULE [SHORT] [B1068] [B1073]	Front passenger air bag module circuits are shorted to each other	<a href="#">SRC-59, "DTC Logic"</a> .
CONTROL UNIT [B1074-B1079]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	<a href="#">SRC-61, "DTC Logic"</a> .
PRE-TEN FRONT RH [OPEN] [B1081]	Front RH seat belt pre-tensioner circuit is open	<a href="#">SRC-63, "DTC Logic"</a> .
PRE-TEN FRONT RH [VB-SHORT] [B1082]	Front RH seat belt pre-tensioner circuit is shorted to some power supply circuit	<a href="#">SRC-65, "DTC Logic"</a> .
PRE-TEN FRONT RH [GND-SHORT] [B1083]	Front RH seat belt pre-tensioner circuit is shorted to ground	<a href="#">SRC-67, "DTC Logic"</a> .
PRE-TEN FRONT RH [SHORT] [B1084]	Front RH seat belt pre-tensioner circuits are shorted to each other	<a href="#">SRC-69, "DTC Logic"</a> .
PRE-TEN FRONT LH [OPEN] [B1086]	Front LH seat belt pre-tensioner circuit is open	<a href="#">SRC-71, "DTC Logic"</a> .
PRE-TEN FRONT LH [VB-SHORT] [B1087]	Front LH seat belt pre-tensioner circuit is shorted to some power supply circuit	<a href="#">SRC-73, "DTC Logic"</a> .
PRE-TEN FRONT LH [GND-SHORT] [B1088]	Front LH seat belt pre-tensioner circuit is shorted to ground	<a href="#">SRC-75, "DTC Logic"</a> .
PRE-TEN FRONT LH [SHORT] [B1089]	Front LH seat belt pre-tensioner circuits are shorted to each other	<a href="#">SRC-77, "DTC Logic"</a> .
CONTROL UNIT [B1106-B1111]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	<a href="#">SRC-79, "DTC Logic"</a> .
SATELLITE SENS RH [UNIT FAIL] [B1113] [B1114]	RH satellite sensor is malfunctioning	<a href="#">SRC-81, "DTC Logic"</a> .

## 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	<a href="#">SRC-83, "DTC Logic"</a> .	A
SATELLITE SENS LH [UNIT FAIL] [B1118] [B1119]	LH satellite sensor is malfunctioning	<a href="#">SRC-85, "DTC Logic"</a> .	B
SATELLITE SENS LH [COMM FAIL] [B1120] [UNMATCH] [B1121]	LH satellite sensor is malfunctioning or out of the specified specification	<a href="#">SRC-87, "DTC Logic"</a> .	C
CONTROL UNIT [B1122-B1127]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	<a href="#">SRC-89, "DTC Logic"</a> .	D
SIDE MODULE RH [OPEN] [B1129]	Front RH side air bag module circuit is open	<a href="#">SRC-91, "DTC Logic"</a> .	E
SIDE MODULE RH [VB-SHORT] [B1130]	Front RH side air bag module circuit is shorted to some power supply circuit	<a href="#">SRC-93, "DTC Logic"</a> .	F
SIDE MODULE RH [GND-SHORT] [B1131]	Front RH side air bag module circuit is shorted to ground	<a href="#">SRC-95, "DTC Logic"</a> .	G
SIDE MODULE RH [SHORT] [B1132]	Front LH seat belt pre-tensioner circuits are shorted to each other	<a href="#">SRC-97, "DTC Logic"</a> .	<b>SRC</b>
SIDE MODULE LH [OPEN] [B1134]	Front LH side air bag module circuit is open	<a href="#">SRC-99, "DTC Logic"</a> .	I
SIDE MODULE LH [VB-SHORT] [B1135]	Front LH side air bag module circuit is shorted to some power supply circuit	<a href="#">SRC-101, "DTC Logic"</a> .	J
SIDE MODULE LH [GND-SHORT] [B1136]	Front LH side air bag module circuit is shorted to ground	<a href="#">SRC-103, "DTC Logic"</a> .	K
SIDE MODULE LH [SHORT] [B1137]	Front LH side air bag module circuits are shorted to each other	<a href="#">SRC-105, "DTC Logic"</a> .	L
CURTAIN MODULE RH [OPEN] [B1145]	RH side curtain air bag module circuit is open	<a href="#">SRC-109, "DTC Logic"</a> .	M
CURTAIN MODULE RH [VB-SHORT] [B1146]	RH side curtain air bag module circuit is shorted to some power supply circuit	<a href="#">SRC-111, "DTC Logic"</a> .	N
CURTAIN MODULE RH [GND-SHORT] [B1147]	RH side curtain air bag module circuit is shorted to ground	<a href="#">SRC-113, "DTC Logic"</a> .	O
CURTAIN MODULE RH [SHORT] [B1148]	RH side curtain air bag module circuits are shorted to each other	<a href="#">SRC-115, "DTC Logic"</a> .	P
CURTAIN MODULE LH [OPEN] [B1150]	LH side curtain air bag module circuit is open	<a href="#">SRC-117, "DTC Logic"</a> .	

## DIAGNOSIS SENSOR UNIT

### < ECU DIAGNOSIS INFORMATION >

Diagnostic item	Explanation	Reference page
CURTAIN MODULE LH [VB-SHORT] [B1151]	LH side curtain air bag module circuit is shorted to some power supply circuits	<a href="#">SRC-119, "DTC Logic"</a> .
CURTAIN MODULE LH [GND-SHORT] [B1152]	LH side curtain air bag module circuit is shorted to ground	<a href="#">SRC-121, "DTC Logic"</a> .
CURTAIN MODULE LH [SHORT] [B1153]	LH side curtain air bag module circuits are shorted to each other	<a href="#">SRC-123, "DTC Logic"</a> .
CONTROL UNIT [B1202-B1207]	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	<a href="#">SRC-125, "DTC Logic"</a> .
FRONTAL COLLISION DETECTION [B1209]	Front seat belt pre-tensioner and front air bag is deployed	<a href="#">SRC-127, "DTC Logic"</a> .
SIDE COLLISION DE- TECTION [B1210]	Front side air bag and side curtain air bag are deployed	<a href="#">SRC-129, "DTC Logic"</a> .

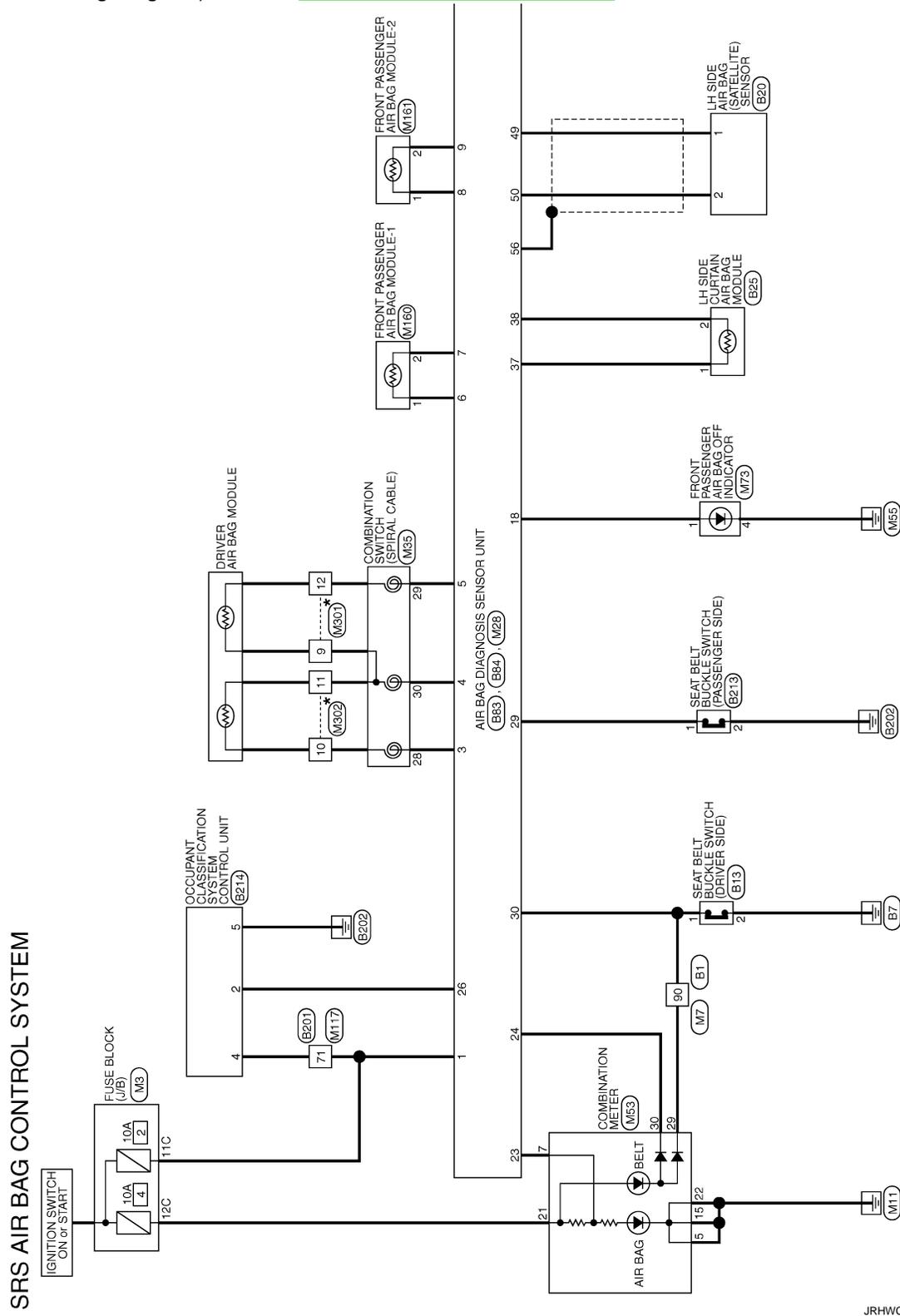
# DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

## Wiring Diagram - SRS AIR BAG CONTROL SYSTEM -

INFOID:000000008295707

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



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

2012/07/10

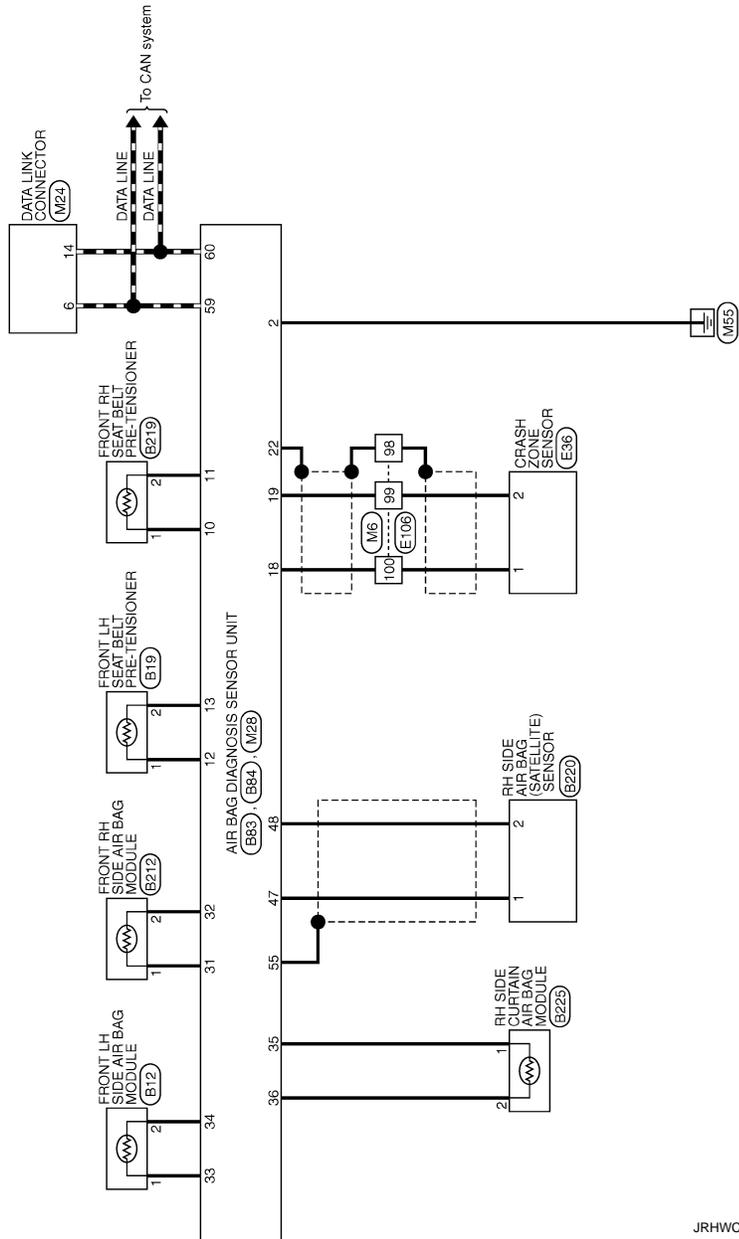
JRHWC0300GB

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# DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >



JRHWC0301GB

# 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:000000008295708

#### 1.CHECK FRONT AIR BAG MODULE

Check the deployment of front air bag module.

Is air bag module deployed?

YES >> Refer to [SR-10](#) or [SR-16, "Exploded View"](#).

NO >> GO TO 2.

#### 2.CHECK AIR BAG FUSE

Check the air bag fuse. Refer to [PG-115, "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-22, "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.

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# SRS AIR BAG WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

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## SRS AIR BAG WARNING LAMP DOES NOT TURN ON

### Diagnosis Procedure

INFOID:000000008295709

“SRS AIR BAG” Warning Lamp Does Not Turn ON

#### 1.CHECK METER FUSE

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Check the meter fuse. Refer to [PG-115, "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

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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

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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-22, "Exploded View"](#).

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

# PASSENGER SEAT BELT WARNING SYSTEM

< SYMPTOM DIAGNOSIS >

## PASSENGER SEAT BELT WARNING SYSTEM

### Diagnosis Procedure

INFOID:000000008295710

#### 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:000000008295711

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:000000008295712

- 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.

#### Occupant Classification System Precaution

INFOID:000000008295713

- Replace occupant classification system control unit and passenger front seat cushion as an assembly. Refer to [SE-63. "Removal and Installation"](#).