SECTION SRC

SRS AIRBAG CONTROL SYSTEM

CONTENTS

BASIC INSPECTION 6

DIAGNOSIS AND REPAIR WORK FLOW 6
Work Flow 6

INSPECTION AND ADJUSTMENT 9

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT 9
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description 9
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement 9

ZERO POINT RESET 9
ZERO POINT RESET : Description 9
ZERO POINT RESET : Special Repair Requirement 9

SYSTEM DESCRIPTION 11

SRS AIR BAG SYSTEM 11
System Diagram 11
System Description 11
Component Parts Location 13
Component Description 14

OCCUPANT DETECTION SYSTEM 15
System Diagram 15
System Description 15
Component Parts Location 16
Component Description 17

ON BOARD DIAGNOSTIC (OBD) SYSTEM 18
Diagnosis Description 18
Diagnosis with Air Bag Warning Lamp 18

DIAGNOSIS SYSTEM (AIR BAG) 24
CONSULT Function 24

DIAGNOSIS SYSTEM (OCCUPANT DETECTION SYSTEM) 25
CONSULT Function 25

DTC/CIRCUIT DIAGNOSIS 26

B1001, B1002, B1003, B1004, B1005 DIAGNOSIS SENSOR UNIT 26
Description 26
DTC Logic 26
Diagnosis Procedure 26

B1006, B1007, B1008, B1009, B1010 DIAGNOSIS SENSOR UNIT 28
Description 28
DTC Logic 28
Diagnosis Procedure 28

B1011, B1012, B1013, B1014, B1015 DIAGNOSIS SENSOR UNIT 30
Description 30
DTC Logic 30
Diagnosis Procedure 30

B1017, B1020, B1021 OCCUPANT SYSTEM CONTROL UNIT 32
Description 32
DTC Logic 32
Diagnosis Procedure 32

B1018 OCCUPANT SYSTEM SENSOR 34
Description 34
DTC Logic 34
Diagnosis Procedure 34

B1022 OCCUPANT SYSTEM CONTROL UNIT 36
Description 36
DTC Logic 36
Diagnosis Procedure 36

B1023 PASSENGER AIR BAG OFF INDICATOR 38
Description 38
DTC Logic 38

Diagnosis Procedure 38

B1025, B1032, B1048 OCCUPANT SYSTEM SENSOR 40
Description 40
DTC Logic 40
Diagnosis Procedure 40

B1026, B1027, B1028, B1029, B1030, B1031 DIAGNOSIS SENSOR UNIT 42
Description 42
DTC Logic 42
Diagnosis Procedure 42

B1033, B1034 CRASH ZONE SENSOR 44
Description 44
DTC Logic 44
Diagnosis Procedure 44

B1035 CRASH ZONE SENSOR 46
Description 46
DTC Logic 46
Diagnosis Procedure 46

B1036 CRASH ZONE SENSOR 48
Description 48
DTC Logic 48
Diagnosis Procedure 48

B1037, B1039, B1041 CRASH ZONE SENSOR 50
Description 50
DTC Logic 50
Diagnosis Procedure 50

B1042, B1043, B1044, B1045, B1046, B1047 DIAGNOSIS SENSOR UNIT 52
Description 52
DTC Logic 52
Diagnosis Procedure 52

B1049, B1054 DRIVER AIR BAG MODULE 54
Description 54
DTC Logic 54
Diagnosis Procedure 54

B1050, B1055 DRIVER AIR BAG MODULE 56
Description 56
DTC Logic 56
Diagnosis Procedure 56

B1051, B1056 DRIVER AIR BAG MODULE 58
Description 58
DTC Logic 58
Diagnosis Procedure 58

B1052, B1057 DRIVER AIR BAG MODULE 60
Description 60
DTC Logic 60
Diagnosis Procedure 60

B1058, B1059, B1060, B1061, B1062, B1063 DIAGNOSIS SENSOR UNIT 62
Description 62
DTC Logic 62
Diagnosis Procedure 62

B1065, B1070 PASSENGER AIR BAG MODULE 64
Description 64
DTC Logic 64
Diagnosis Procedure 64

B1066, B1071 PASSENGER AIR BAG MODULE 66
Description 66
DTC Logic 66
Diagnosis Procedure 66

B1067, B1072 PASSENGER AIR BAG MODULE 68
Description 68
DTC Logic 68
Diagnosis Procedure 68

B1068, B1073 PASSENGER AIR BAG MODULE 70
Description 70
DTC Logic 70
Diagnosis Procedure 70

B1074, B1075, B1076, B1077, B1078, B1079 DIAGNOSIS SENSOR UNIT 72
Description 72
DTC Logic 72
Diagnosis Procedure 72

B1080, B1096 DRIVER AIR BAG MODULE 74
Description 74
DTC Logic 74
Diagnosis Procedure 74

B1081 SEAT BELT PRE-TENSIONER RH 76
Description 76
DTC Logic 76
Diagnosis Procedure 76

B1082 SEAT BELT PRE-TENSIONER RH 78
Description 78
DTC Logic 78
Diagnosis Procedure 78

B1083 SEAT BELT PRE-TENSIONER RH 80
Description 80
DTC Logic 80
Diagnosis Procedure 80

B1084 SEAT BELT PRE-TENSIONER RH 82
Description 82
DTC Logic 82
Diagnosis Procedure 82

B1086 SEAT BELT PRE-TENSIONER LH 84
Description 84
DTC Logic 84
Diagnosis Procedure 84

B1087 SEAT BELT PRE-TENSIONER LH 86
Description 86
DTC Logic 86
Diagnosis Procedure 86

B1088 SEAT BELT PRE-TENSIONER LH 88
Description 88
DTC Logic 88
Diagnosis Procedure 88

B1089 SEAT BELT PRE-TENSIONER LH 90
Description 90
DTC Logic 90
Diagnosis Procedure 90

B1090, B1091, B1092, B1093, B1094, B1095 DIAGNOSIS SENSOR UNIT 92
Description 92
DTC Logic 92
Diagnosis Procedure 92

B1106, B1107, B1108, B1109, B1110, B1111 DIAGNOSIS SENSOR UNIT 94
Description 94
DTC Logic 94
Diagnosis Procedure 94

B1113, B1114 SATELLITE SENSOR RH 96
Description 96
DTC Logic 96
Diagnosis Procedure 96

B1115 SATELLITE SENSOR RH 98
Description 98
DTC Logic 98
Diagnosis Procedure 98

B1116 SATELLITE SENSOR RH 100
Description 100
DTC Logic 100
Diagnosis Procedure 100

B1118, B1119 SATELLITE SENSOR LH 102
Description 102
DTC Logic 102
Diagnosis Procedure 102

B1120 SATELLITE SENSOR LH 104
Description 104
DTC Logic 104
Diagnosis Procedure 104

B1121 SATELLITE SENSOR LH 106
Description 106
DTC Logic 106
Diagnosis Procedure 106

B1122, B1123, B1124, B1125, B1126, B1127 DIAGNOSIS SENSOR UNIT 108
Description 108
DTC Logic 108
Diagnosis Procedure 108

B1129 SIDE AIR BAG MODULE RH 110
Description 110
DTC Logic 110
Diagnosis Procedure 110

B1130 SIDE AIR BAG MODULE RH 112
Description 112
DTC Logic 112
Diagnosis Procedure 112

B1131 SIDE AIR BAG MODULE RH 114
Description 114
DTC Logic 114
Diagnosis Procedure 114

B1132 SIDE AIR BAG MODULE RH 116
Description 116
DTC Logic 116
Diagnosis Procedure 116

B1134 SIDE AIR BAG MODULE LH 118
Description 118
DTC Logic 118
Diagnosis Procedure 118

B1135 SIDE AIR BAG MODULE LH 120
Description 120
DTC Logic 120
Diagnosis Procedure 120

B1136 SIDE AIR BAG MODULE LH 122
Description 122
DTC Logic 122
Diagnosis Procedure 122

B1137 SIDE AIR BAG MODULE LH 124
Description 124
DTC Logic 124
Diagnosis Procedure 124

B1138, B1139, B1140, B1141, B1142, B1143 DIAGNOSIS SENSOR UNIT 126
Description 126
DTC Logic 126
Diagnosis Procedure 126

B1144 DIAGNOSIS SENSOR UNIT 128
Description 128
DTC Logic 128
Diagnosis Procedure 128

B1145 CURTAIN AIR BAG MODULE RH 129
Description 129
DTC Logic 129
Diagnosis Procedure 129

B1146 CURTAIN AIR BAG MODULE RH 131
Description 131
DTC Logic 131
Diagnosis Procedure 131

B1147 CURTAIN AIR BAG MODULE RH 133
Description 133
DTC Logic 133
Diagnosis Procedure 133

B1148 CURTAIN AIR BAG MODULE RH 135
Description 135
DTC Logic 135
Diagnosis Procedure 135

B1150 CURTAIN AIR BAG MODULE LH 137
Description 137
DTC Logic 137
Diagnosis Procedure 137

B1151 CURTAIN AIR BAG MODULE LH 139
Description 139
DTC Logic 139
Diagnosis Procedure 139

B1152 CURTAIN AIR BAG MODULE LH 141
Description 141
DTC Logic 141
Diagnosis Procedure 141

B1153 CURTAIN AIR BAG MODULE LH 143
Description 143
DTC Logic 143
Diagnosis Procedure 143

B1154, B1155, B1156, B1157, B1158, B1159 DIAGNOSIS SENSOR UNIT 145
Description 145
DTC Logic 145
Diagnosis Procedure 145

B1170, B1171, B1172, B1173, B1174, B1175 DIAGNOSIS SENSOR UNIT 147
Description 147
DTC Logic 147
Diagnosis Procedure 147

B1186, B1187, B1188, B1189, B1190, B1191 DIAGNOSIS SENSOR UNIT 149
Description 149
DTC Logic 149
Diagnosis Procedure 149

B1202, B1203, B1204, B1205, B1206, B1207 DIAGNOSIS SENSOR UNIT 151
Description 151
DTC Logic 151
Diagnosis Procedure 151

B1209 FRONTAL COLLISION DETECTION . 153
Description 153
DTC Logic 153
Diagnosis Procedure 153

B1210 SIDE COLLISION DETECTION 154
Description 154
DTC Logic 154
Diagnosis Procedure 154

B1211 ROLLOVER DETECTION 155
Description 155
DTC Logic 155
Diagnosis Procedure 155

B1212, B1213, B1214 SATELLITE SENSOR RH 156
Description 156
DTC Logic 156
Diagnosis Procedure 156

B1215, B1216, B1217 SATELLITE SENSOR LH 158
Description 158
DTC Logic 158
Diagnosis Procedure 158

B1218, B1219, B1220, B1221, B1222, B1223 DIAGNOSIS SENSOR UNIT 160
Description 160
DTC Logic 160
Diagnosis Procedure 160

B1239 DIAGNOSIS SENSOR UNIT 162
Description 162
DTC Logic 162
Diagnosis Procedure 162

ECU DIAGNOSIS INFORMATION 163

DIAGNOSIS SENSOR UNIT 163
DTC Index 163
Wiring Diagram - SRS AIR BAG CONTROL SYSTEM - 166

SYMPTOM DIAGNOSIS 172

SRS AIR BAG WARNING LAMP DOES NOT TURN OFF 172
Diagnosis Procedure 172

SRS AIR BAG WARNING LAMP DOES NOT TURN ON 173
Diagnosis Procedure 173

PRECAUTION 174

PRECAUTIONS 174
Precautions for Removing of Battery Terminal 174
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" 174
Service 174

Occupant Detection System Precaution 175

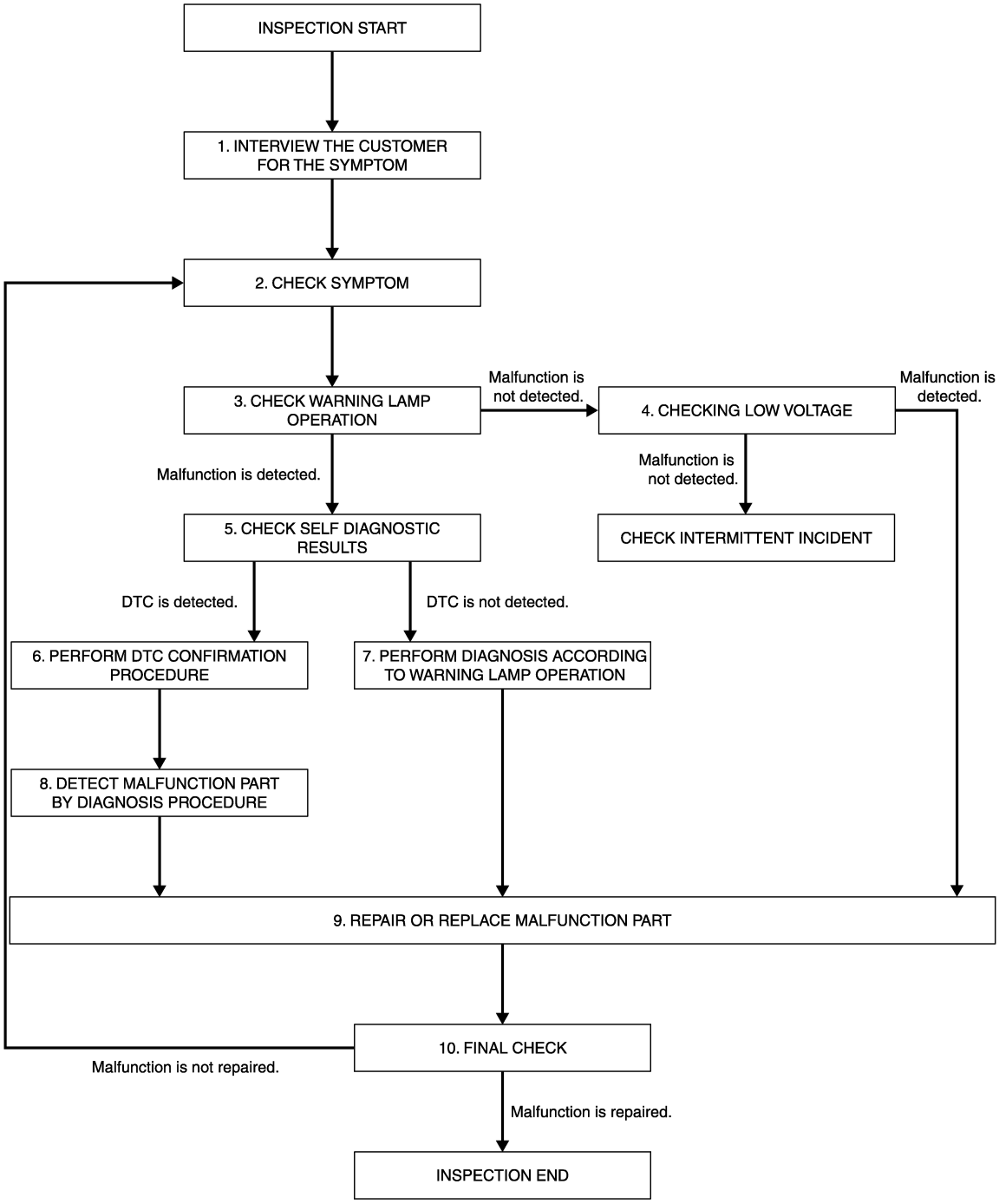
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000009946080

OVERALL SEQUENCE



JMHIA1324GB

DETAILED FLOW

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-18, "Diagnosis with Air Bag Warning Lamp".

Are any malfunction detected?

YES >> GO TO 5.
NO >> GO TO 4.

4. CHECK LOW VOLTAGE

Check low voltage with CONSULT. Refer to SRC-24, "CONSULT Function".

Are any malfunction detected?

YES >> GO TO 9.
NO >> Check intermittent incident. Refer to GI-40, "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-18, "Diagnosis with Air Bag Warning Lamp".
2. Perform Diagnosis Procedure for the air bag warning lamp operation. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp" (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

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.

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000009946081

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:0000000009946082

WORK PROCEDURE WHEN REPLACING CONTROL UNIT

1. PERFORM ZERO POINT RESET

Perform zero point reset. Refer to SRC-9, "ZERO POINT RESET : Special Repair Requirement".

>> END

ZERO POINT RESET

ZERO POINT RESET : Description

INFOID:0000000009946083

Zero point reset is an initializing procedure for occupant detection sensor that must be performed when replacing or removing and installing passenger seat.
If zero point reset is not performed, the initialization is incomplete and Occupant Detection System does not operate normally.

NOTE:

- When replacing passenger seat with a NISSAN genuine part, air bag warning lamp blinks if zero point reset is incomplete.
- When zero point reset is performed once after removal and installation of passenger seat, CONSULT displays “complete” and air bag warning does not blink.
- When reinstalling passenger seat after removal, the initial value for occupant detection sensor changes, and Occupant Detection System does not operate normally.
- Always perform zero point reset after performing the work as per the following.
- Reinstallation of passenger seat
- Replacement of passenger seat with a seat that is zero point reset complete.

ZERO POINT RESET : Special Repair Requirement

INFOID:0000000009946084

1. PERFORM ZERO POINT RESET

1. Perform zero point reset.
   NOTE:
   When performing zero point reset, be careful of the items described as per the following.
   - Perform zero point reset after installing passenger seat to the vehicle
   - Do not put any objects on passenger seat
   - Do not apply excessive vibration to the vehicle
   - Do not touch the vehicle
   - Do not tilt the vehicle
2. Select start on “Zero point reset function” screen from, WORK SUPPORT of CONSULT “OCCUPANT DETECTION”.
3. “Zero point reset” starts.

>> GO TO 2.

2. CONFIRMATION OF SETTING

1. Proceed to “Zero point reset function” screen from work support of CONSULT “OCCUPANT DETECTION”.
2. Check that “Complete” or “Incomplete” is displayed on “Zero point reset status”.

CAUTION:

< BASIC INSPECTION >

- **“Complete” is displayed on “zero point reset current status” if the seat is reinstalled by seat removal and installation, or “zero point reset” is already performed.**
- **“Zero point reset current status” displays “Incomplete” if a new seat is installed. When turning key switch ON without performing zero point reset, air bag warning lamp blinks. When zero point reset is performed, air bag warning lamp turns OFF.**
- **Air bag warning lamp blinks in user mode only.**
- **Air bag sensor unit does not record whether or not zero point reset is performed.**

Is condition “ALREADY PERFORMED”?

YES >> Print out “ZERO POINT RESET CURRENT STATUS” screen, and inspection end.

NO >> Check condition as per the following, and perform zero point reset again.

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

NOTE:

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

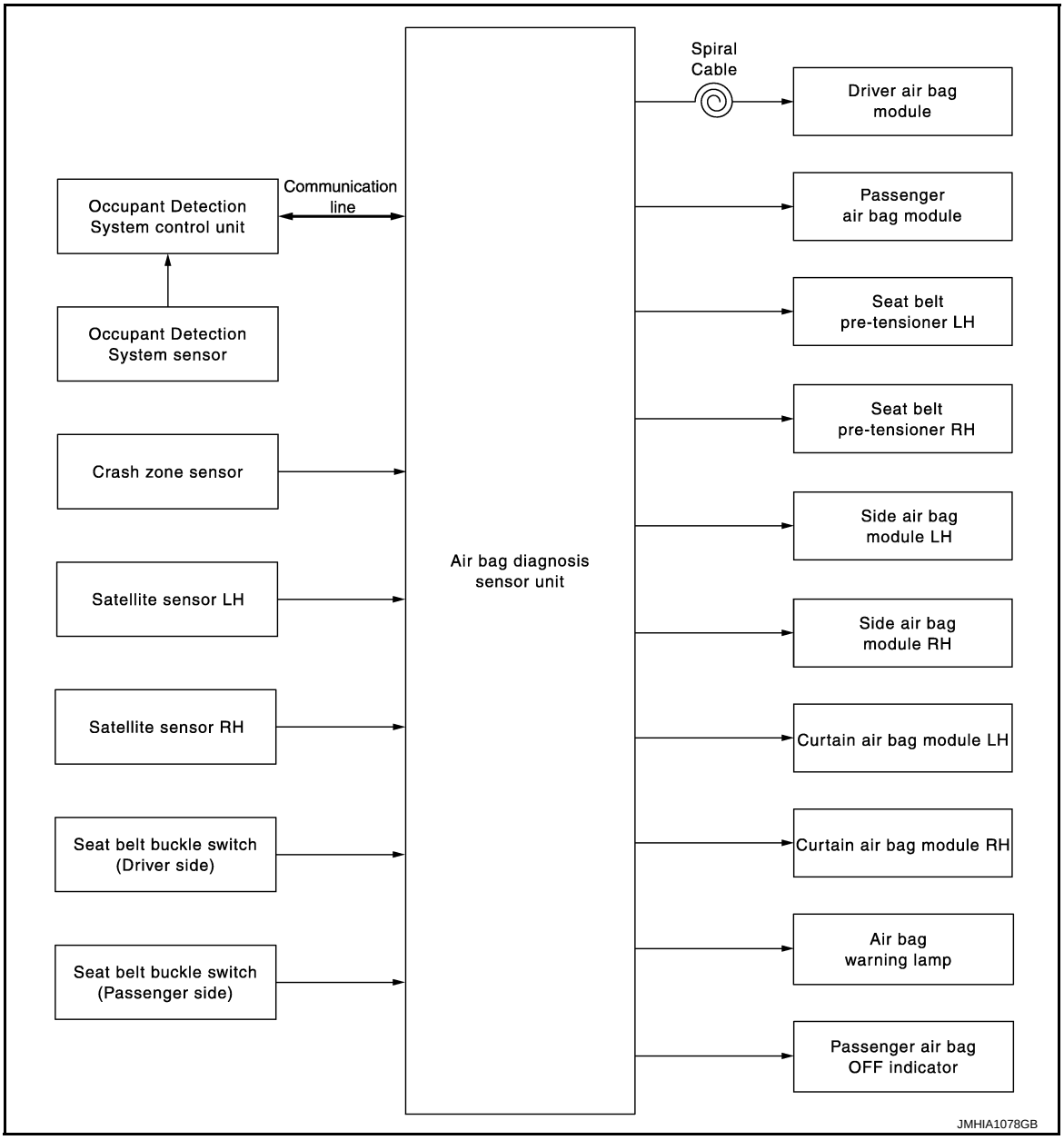
- Passenger seat is occupied by an object.
- Excessive vibration is applied while performing zero point reset.
- Occupant detection system is malfunctioning.

SYSTEM DESCRIPTION

SRS AIR BAG SYSTEM

System Diagram

INFOID:0000000009946085



System Description

INFOID:0000000009946086

Supplemental Restraint System (SRS) activates air bag module and seal belt pre-tensioner when it detects a frontal collision or a side collision that is more than the specified limit. Together with other safety devices, it reduces the impact that occupant receives when vehicle collision occurs.
Air bag diagnosis sensor unit supplies power supply to air bag module and pre-tensioner seat belt when deceleration that is more than the specified limit is detected by G sensor in air bag diagnosis sensor unit, crash zone sensor, or satellite sensor. Air bag module is composed of electric igniter (squib), filter, pyrotechnic material, and gas generating material. When air bag module receives a signal from air bag diagnosis sensor unit, air bag module ignites pyrotechnic material using electric igniter (squib) so that gas generating material generates high temperature nitrogen gas. The gas through filter activates air bag. At the same time, pre-tensioner seat belt receives power supply from air bag diagnosis sensor unit, gasgenerator is activated, and then gas is generated. Balls in pipe are moved according to generated gas pressure and strike pinion gear on ELR shaft. ELR shaft rotates and retracts seat belt.

AIR BAG DIAGNOSIS SENSOR UNIT FUNCTIONS

Air bag diagnosis sensor unit has the following functions.

- Detects a collision and supplies the energy for deploying air bag and seat belt pre-tensioner.
- Detects and records electrical malfunction in air bag system and seat belt pre-tensioner system, and blinking air bag warning lamp.
- Detects and records the deployment of air bag and seat belt pre-tensioner, and turns ON air bag warning lamp.
- Indicates malfunctioning portion via the number of blinks from the air bag warning lamp in the diagnosis mode.
- Indicates the malfunction record via CONSULT.
- Suppresses the deployment of passenger air bag when passenger seat is empty or occupied by child or child-seat.
- When passenger seat is occupied by child or child seat, turns ON 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. Further information for the seat belt warning system, refer to SBC-3, "System Description".

COLLISION MODES

The operation of SRS is different depending on the collision modes applications. For example, the driver air bag module, passenger air bag module, and seat belt pre-tensioner are activated in a frontal collision but not in a side collision.

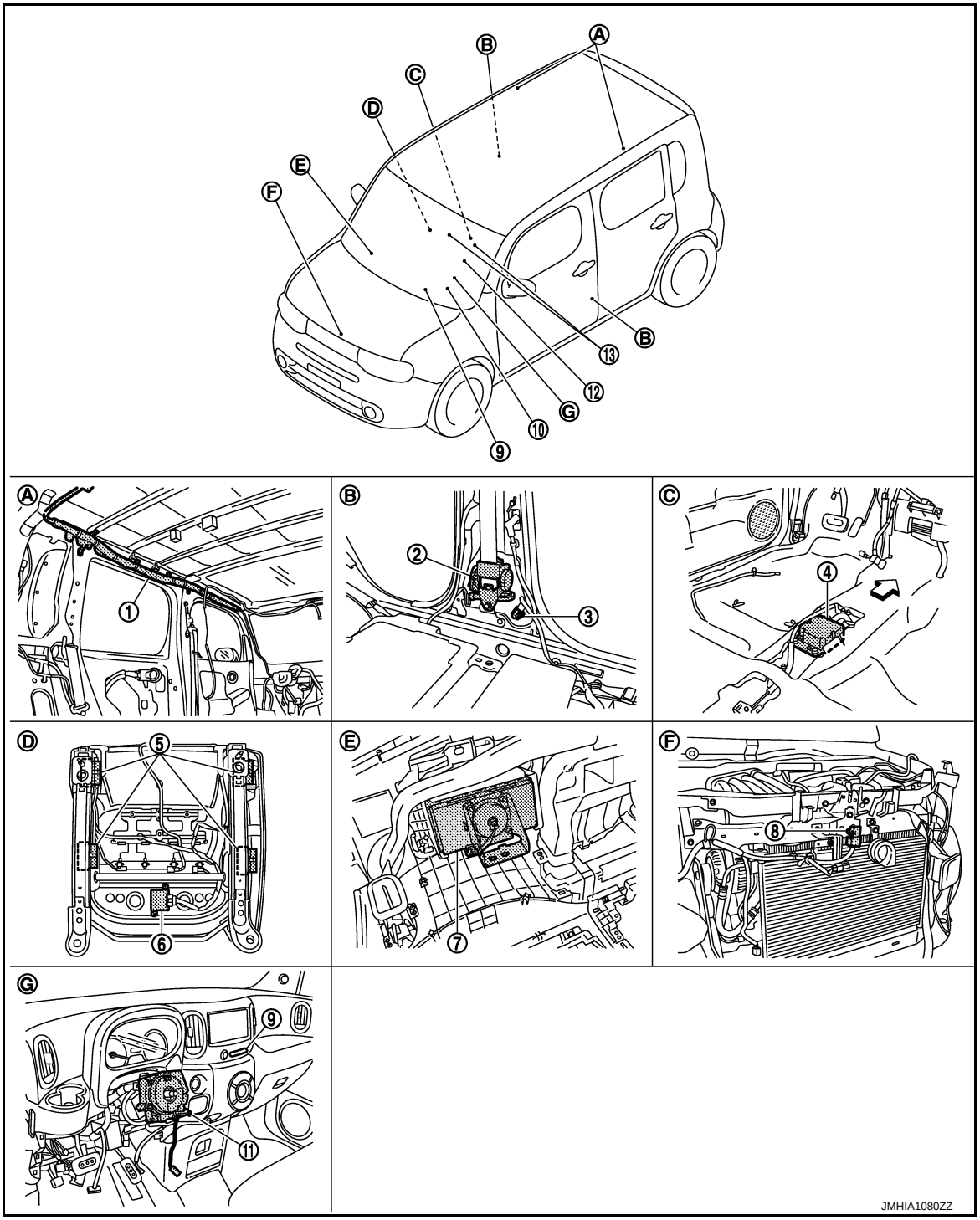
SRS configurations that are activated for the following collision modes.

×: Apply —: Not apply

SRS configuration	Frontal collision	Left side collision	Right side collision
Driver air bag module.	×	—	—
Passenger air bag module.	×	—	—
Seat belt pre-tensioner LH.	×	—	—
Seat belt pre-tensioner RH.	×	—	—
Side air bag module LH.	—	×	—
Side air bag module RH.	—	—	×
Curtain air bag module LH.	—	×	—
Curtain air bag module RH.	—	—	×

Component Parts Location

INFOID:0000000009946087



1. Curtain air bag module LH/RH
2. Seat belt pre-tensioner LH/RH
3. Satellite sensor LH/RH
4. Air bag diagnosis sensor unit
5. Occupant Detection System seat sensor
6. Occupant Detection System control unit
7. Passenger air bag module
8. Crash zone sensor
9. Passenger air bag OFF indicator
10. Combination meter
    Refer to MWI-8, "METER SYSTEM : Component Parts Location"
11. Combination switch (spiral cable)
12. Driver air bag module
13. Seat belt buckle switch (Driver side/ Passenger side)

A. Behind headlining
B. Behind center pillar lower gamish
C. Behind center console assembly
D. Backside of passenger seat cushion frame
E. Behind glove box assembly
F. View with front grille removed
G. View with steering wheel removed

Component Description

INFOID:0000000009946088

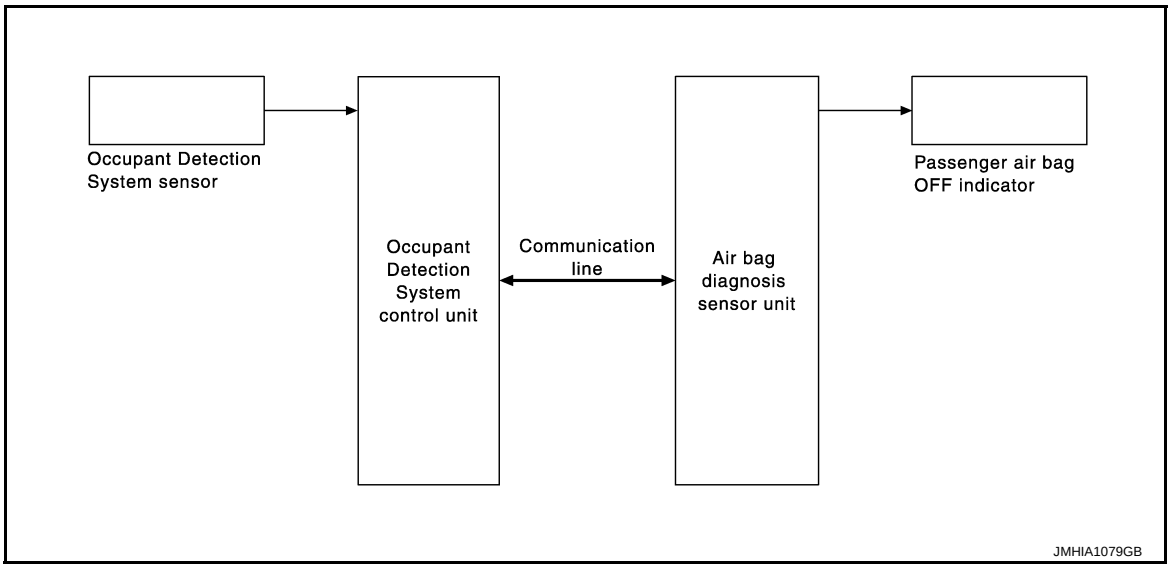
Component	Function
Air bag diagnosis sensor unit	Detects a collision and supplies power supply for deployment to air bag module and pre-tensioner seat belt.
Air bag module • Driver • Passenger • Side • Curtain	Receives signal from air bag diagnosis sensor unit and deploys air bag.
Seat belt pre-tensioner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

OCCUPANT DETECTION SYSTEM

System Diagram

INFOID:0000000009946089

OCCUPANT DETECTION SYSTEM



System Description

INFOID:0000000009946090

This Occupant Detection System has the following functions.

- Suppress the deployment of passenger air bag when passenger seat is empty, or when occupied by child and child-seat.
- Turns ON passenger air bag OFF indicator when passenger seat is occupied by child-seat and child.
- Indicates malfunction portion with blinking times of air bag warning lamp in diagnosis mode.
- Indicates the malfunctioning record by CONSULT.
- When “zero point reset” for Occupant Detection System is incomplete, CONSULT indicates that “zero point reset” is incomplete. This function is applied to NISSAN genuine parts only.

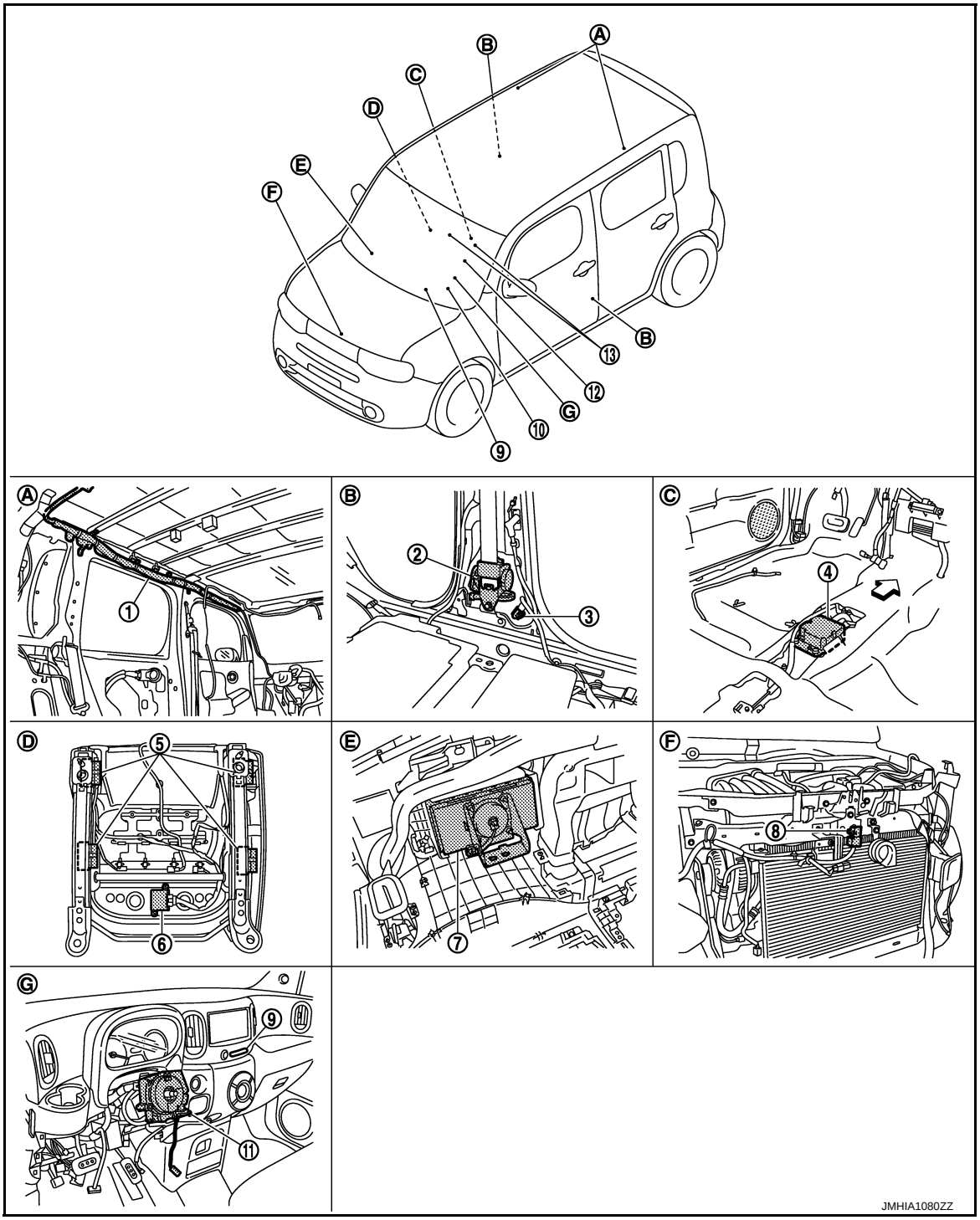
NOTE:

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

Status (passenger seat)	**Passenger air bag**	**Passenger air bag OFF indicator**	**Air bag warning lamp**
Empty	Suppress	OFF	OFF
An object	Suppress	ON	OFF
Child/ child-seat	Suppress	ON	OFF
Adult	Enable to deploy	OFF	OFF
Malfunction	Suppress	ON	Blinking
Zero point reset Not yet performed (NISSAN genuine parts only)	Suppress	ON	Blinking

Component Parts Location

INFOID:0000000009946091



1. Curtain air bag module LH/RH
2. Seat belt pre-tensioner LH/RH
3. Satellite sensor LH/RH
4. Air bag diagnosis sensor unit
5. Occupant Detection System seat sensor
6. Occupant Detection System control unit
7. Passenger air bag module
8. Crash zone sensor
9. Passenger air bag OFF indicator
10. Combination meter
    Refer to MWI-8, "METER SYSTEM : Component Parts Location"
11. Combination switch (spiral cable)
12. Driver air bag module
13. Seat belt buckle switch (Driver side/ Passenger side)

A. Behind headlining
B. Behind center pillar lower gamish
C. Behind center console assembly
D. Backside of passenger seat cushion frame
E. Behind glove box assembly
F. View with front grille removed
G. View with steering wheel removed

Component Description

INFOID:0000000009946092

Component parts	Outline of function
Occupant Detection System sensor	Detects if the passenger seat is empty or occupied
Occupant Detection System control unit	Transmits the passenger seat status (occupied or empty) to air bag diagnosis sensor unit
Passenger air bag OFF indicator	Turns the passenger air bag OFF indicator lamp ON when the 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 Detection System control unit. • Passenger air bag OFF indicator turns ON or turns OFF when passenger state signal detected by Occupant Detection System control unit is received.

ON BOARD DIAGNOSTIC (OBD) SYSTEM

Diagnosis Description

INFOID:0000000009946093

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 with 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 items.

×: Application, —: Not application

Diagnosis tool	User mode	Diagnosis mode
Air bag warning lamp	×	×
CONSULT	–	×

Diagnosis with Air Bag Warning Lamp

INFOID:0000000009946094

SELF DIAGNOSIS FUNCTION
There are two self diagnosis functions with air bag warning lamp per the following items.
- USER MODE
- DIAGNOSIS MODE

CHANGE DIAGNOSIS MODE
- Diagnosis mode changes from user mode to diagnosis mode when changing operation is performed.
- In user mode, when SRS air bag warning lamp is not blinking, changing to diagnosis mode by ignition switch operation is not possible.
- In diagnosis mode, when repair is complete and system is normal, the mode changes to user mode when ignition switch is turned from OFF to ON.

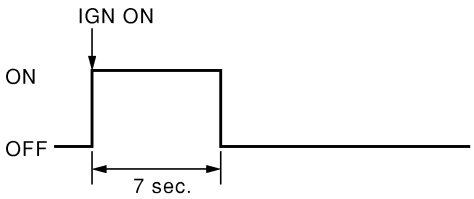
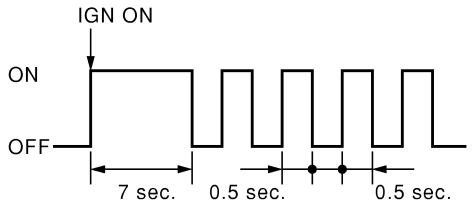
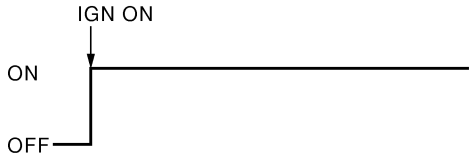
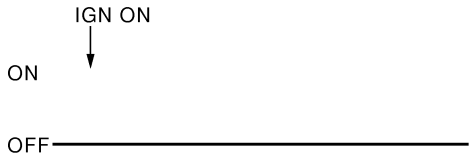
PROCEDURE TO CHANGE DIAGNOSIS MODE
1. Turn ignition switch from OFF to ON.
2. SRS air bag lamp turns ON for 7 second and turns OFF, then turn ignition switch OFF within 1second after the lamp turns OFF.
3. After turning ignition switch OFF, wait for 3 seconds or more.
4. Repeat operation 1 to 3 for 2 times so that operation 1 to 3 is repeated for 3times in total.
5. Turn ignition switch from OFF to ON. Diagnosis mode changes.

USER MODE
In USER MODE, air bag warning lamp on combination meter blinks when a malfunction is detected and warns the customer (driver).

How to Read Air Bag Warning Lamp

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

Air bag warning lamp operation (user mode)	SRS condition	Reference item
 SHIA0011E	• No malfunction is detected • No further action is necessary	—
 SHIA0012E	• The system is malfunctioning • Self diagnostic result is not erased after repair	Erase “Self Diagnostic Result” Refer to SRC-24, "CONSULT Function", How to Erase Self-diagnostic Result
	Battery voltage is low (less than 9 V)	Check “Cause of Warning Lamp” with CONSULT. Refer to SRC-24, "CONSULT Function"
	Zero point reset is not completed	Go to SRC-9, "ZERO POINT RESET : Description"
	Intermittent malfunction is detected in the past	Go to GI-40, "Intermittent Incident"
 SHIA0013E	• Air bag is deployed • Seat belt pre-tensioner is deployed	Go to SRC-153, "Diagnosis Procedure" or SRC-154, "Diagnosis Procedure"
	• Air bag diagnosis sensor unit is malfunctioning • Air bag power supply circuit is malfunctioning • Air bag warning lamp circuit is malfunctioning	Go to SRC-172, "Diagnosis Procedure"
 SHIA0014E	• Air bag diagnosis sensor unit is malfunctioning • Air bag warning lamp circuit is malfunctioning	Go to SRC-173, "Diagnosis Procedure"

DIAGNOSIS MODE

The diagnosis mode can only be switched when a malfunction is detected in the user mode. Malfunctioning system is indicated according to blinking pattern of air bag warning lamp.

How to Read Air Bag Warning Lamp

1. Follow the procedures of “PROCEDURE TO CHANGE DIAGNOSIS MODE”, and switch to the diagnosis mode.
2. Turn ignition switch ON. Check the blinking pattern of air bag warning lamp.
   There are 2 blinking patterns for the air bag warning lamp as per the following items.
   - Front air bag system: 3 second blink followed by a 0.5 second blink repeated.

- Side air bag system: Two 1.5 second blinks followed by a 0.5 second blink repeated.

Front air bag system

Number of 0.5 second blinks	Malfunctioning items	Blinking pattern
0	• Self-diagnostic result is not erased after repair • Intermittent malfunction is detected in the past	Refer to the following items • Refer to How to Erase Self-diagnostic Result • GI-40, "Intermittent Incident"
1	Seat belt pre-tensioner RH	Refer to the following items • SRC-76, "DTC Logic" • SRC-78, "DTC Logic" • SRC-80, "DTC Logic" • SRC-82, "DTC Logic"
2	Driver air bag module	Refer to the following items • SRC-54, "DTC Logic" • SRC-56, "DTC Logic" • SRC-58, "DTC Logic" • SRC-60, "DTC Logic" • SRC-74, "DTC Logic"
3	Seat belt pre-tensioner LH	Refer to the following items • SRC-84, "DTC Logic" • SRC-86, "DTC Logic" • SRC-88, "DTC Logic" • SRC-90, "DTC Logic"
5	Occupant Detection System control unit	Refer to the following items • SRC-32, "DTC Logic" • SRC-34, "DTC Logic" • SRC-36, "DTC Logic" • SRC-40, "DTC Logic"
6	Crash zone sensor	Refer to the following items • SRC-44, "DTC Logic" • SRC-46, "DTC Logic" • SRC-48, "DTC Logic" • SRC-50, "DTC Logic"
7	Air bag diagnosis sensor unit	Refer to the following items • SRC-26, "DTC Logic" • SRC-28, "DTC Logic" • SRC-30, "DTC Logic" • SRC-42, "DTC Logic" • SRC-52, "DTC Logic" • SRC-62, "DTC Logic" • SRC-72, "DTC Logic" • SRC-92, "DTC Logic" • SRC-94, "DTC Logic" • SRC-108, "DTC Logic" • SRC-126, "DTC Logic" • SRC-145, "DTC Logic" • SRC-147, "DTC Logic" • SRC-149, "DTC Logic" • SRC-151, "DTC Logic" • SRC-160, "DTC Logic" • SRC-162, "DTC Logic"
8	Passenger air bag module	Refer to the following items • SRC-64, "DTC Logic" • SRC-66, "DTC Logic" • SRC-68, "DTC Logic" • SRC-70, "DTC Logic"
11	Passenger air bag OFF indicator	Refer to SRC-38, "DTC Logic".
17	Air bag diagnosis sensor unit	Refer to SRC-128, "DTC Logic"

Side air bag system

Number of 0.5-second blinks	Malfunctioning items	Blinking pattern
1	Side air bag module RH	Refer to the following items • SRC-110, "DTC Logic" • SRC-112, "DTC Logic" • SRC-114, "DTC Logic" • SRC-116, "DTC Logic"
2	Side air bag module LH	Refer to the following items • SRC-118, "DTC Logic" • SRC-120, "DTC Logic" • SRC-122, "DTC Logic" • SRC-124, "DTC Logic"
3	Satellite sensor RH	Refer to the following items • SRC-96, "DTC Logic" • SRC-98, "DTC Logic" • SRC-100, "DTC Logic" • SRC-156, "DTC Logic"
4	Satellite sensor LH	Refer to the following items • SRC-102, "DTC Logic" • SRC-104, "DTC Logic" • SRC-106, "DTC Logic" • SRC-158, "DTC Logic"
5	Curtain air bag module RH	Refer to the following items • SRC-129, "DTC Logic" • SRC-131, "DTC Logic" • SRC-133, "DTC Logic" • SRC-135, "DTC Logic"
6	Curtain air bag module LH	Refer to the following items • SRC-137, "DTC Logic" • SRC-139, "DTC Logic" • SRC-141, "DTC Logic" • SRC-143, "DTC Logic"

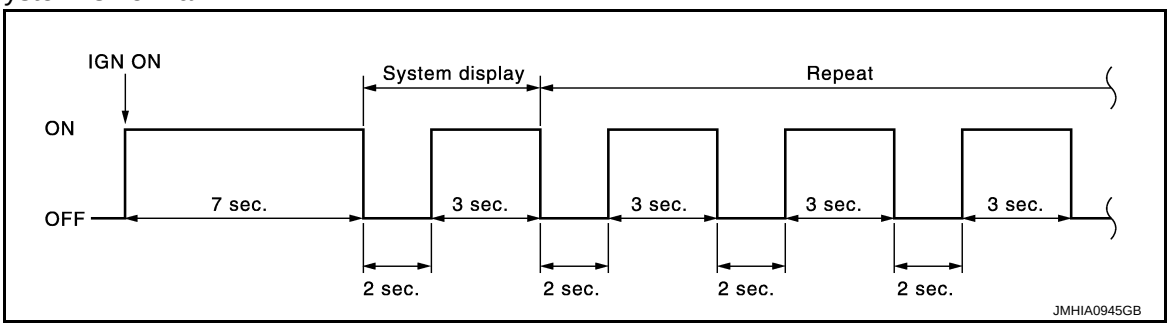
How to Erase Self Diagnosis Result

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

EXAMPLE OF AIR BAG WARNING LAMP OPERATION IN THE DIAGNOSIS MODE

System Normal

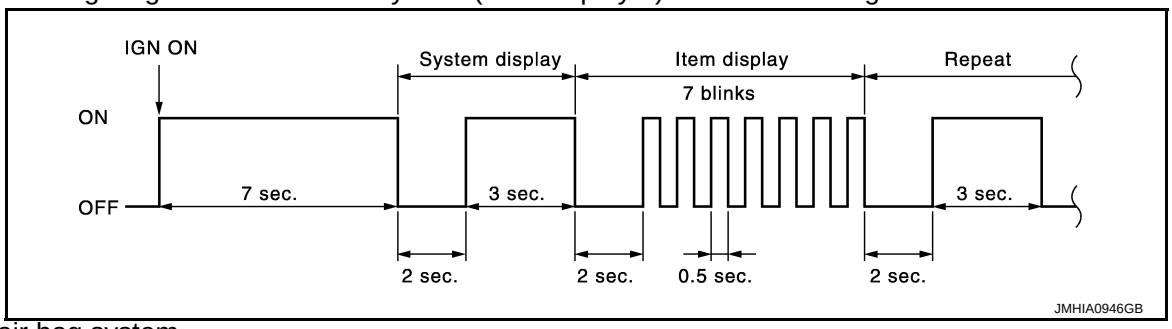
When system is normal.



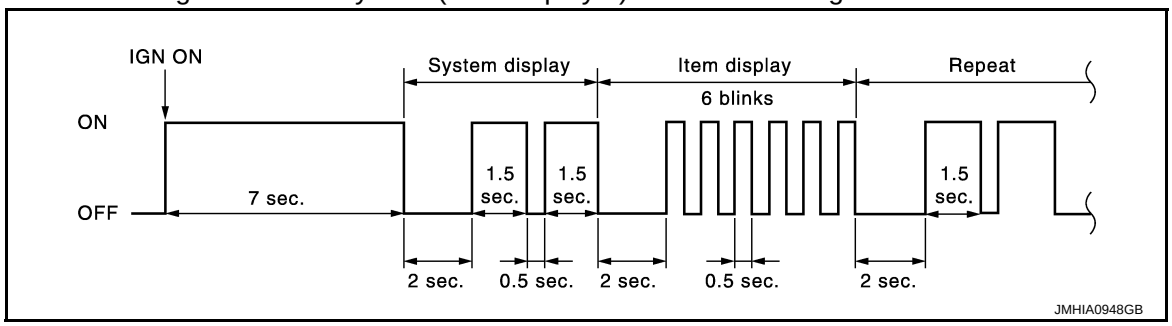
Single System Malfunction

- Front air bag system

When air bag diagnosis sensor unit system (Item display 1) is malfunctioning.

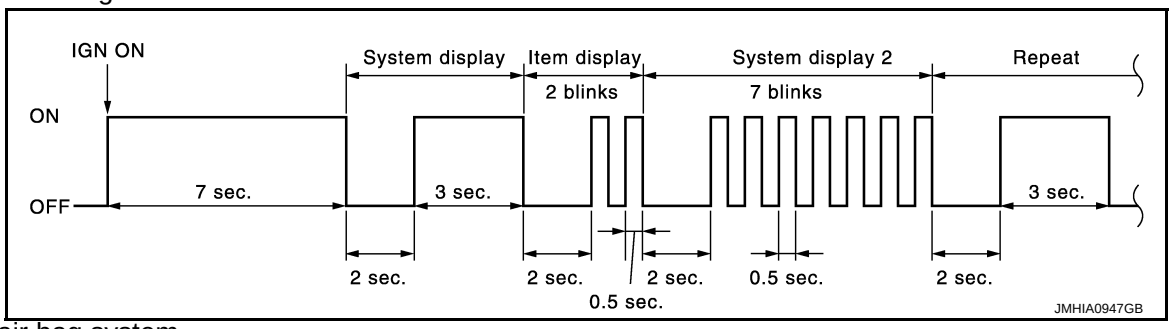


- Side air bag system
  When curtain air bag module LH system (Item display 1) is malfunctioning.

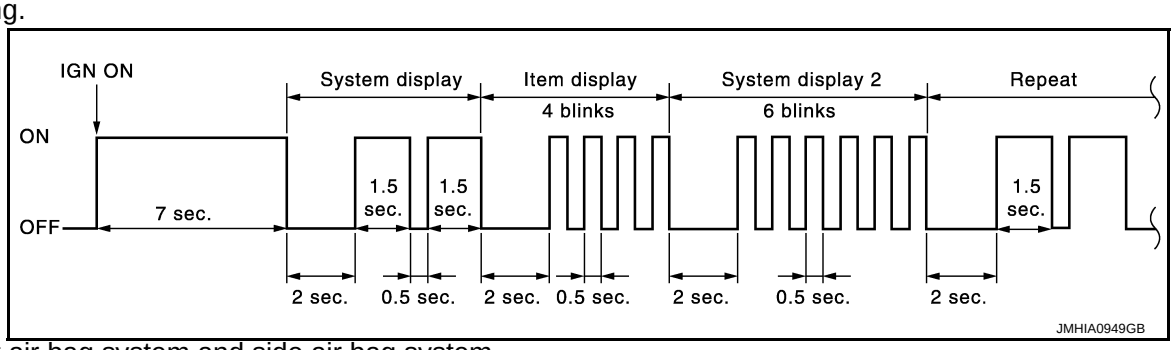


Multiple Systems Malfunction

- Front air bag system
  When driver air bag module (Item display 1) and air bag diagnosis sensor unit system (Item display 2) are malfunctioning.

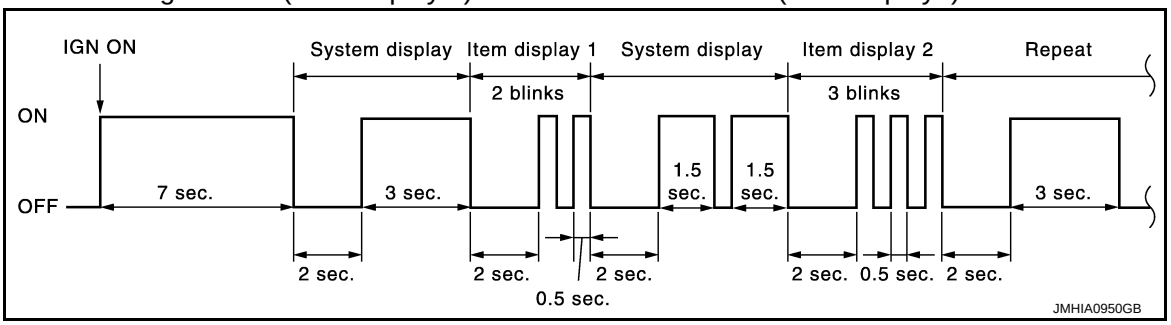


- Side air bag system
  When satellite sensor LH (Item display1) and curtain air bag module LH system (Item display 2) are malfunctioning.



- Front air bag system and side air bag system

When driver air bag module (Item display 1) and satellite sensor RH (Item display2) are malfunctioning.



DIAGNOSIS SYSTEM (AIR BAG)

CONSULT Function

INFOID:0000000009946095

APPLICATION ITEM

CONSULT performs the following functions.

Diagnosis mode	Description
ECU Identification	Air bag diagnosis sensor unit ECU discriminated number (identification number) or part number is displayed. Air bag diagnosis sensor unit has individual ECU discriminated number (identification number) or part number based on model and equipment.
Self Diagnostic Result	• Self-diagnosis result is displayed. Refer to SRC-163, "DTC Index". • “No DTC” is displayed when repair is completed by part replacement or other operations. • “SELF-DIAG RESULT [MEMORY]” is displayed until “Erase” is performed. **CAUTION:** **When “No DTC” is displayed after repair, always perform “Erase”. If this is not done SRS air bag warning lamp remains blinking when user mode is resumed.**
TROUBLE DIAG RECORD	With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed on CONSULT screen.
SELF-DIAG RESULTS [CAN]	**NOTE:** This item is displayed, but cannot be supported.
Cause of Warning Lamp	It displays the cause of warning lamp illumination that is not recorded in memory.

CAUSE OF WARNING LAMP

This item indicates IGN low voltage condition.
The air bag warning lamp blink in user mode when the battery voltage is lowered to the voltage value (less than 9 V) at which the SRS cannot be operated normally. The air bag warning lamp turns OFF after the battery voltage returns to normal status after blinking.
In such a case, the DTC memory is not performed and changing to the self-diagnostic mode by IGN operation cannot be performed while the air bag warning lamp illuminates. “NO DTC” is displayed even if the malfunctioning parts are checked by CONSULT.
This function records the following items.

Display contents of CONSULT		Description
Air bag	IGN VOLT COND	“LOW” is displayed when IGN low voltage is detected. If not, “OK” is displayed.
	IGN VOLT TIME	Times of IGN low voltage is detected.
	LOW V RECORED	Times of IGN ON after IGN low voltage is detected.

DIAGNOSIS SYSTEM (OCCUPANT DETECTION SYSTEM)

CONSULT Function

INFOID:0000000009946096

ZERO POINT RESET DESCRIPTION

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

WORK SUPPORT

Monitor item	Description
Zero point reset function	Perform zero point reset. Refer to SRC-9, "ZERO POINT RESET : Special Repair Requirement".

DTC/CIRCUIT DIAGNOSIS

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

Description

INFOID:0000000009946097

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946098

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1001 B1002 B1003 B1004 B1005	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-26, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946099

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".

2. Perform DTC confirmation procedure. Refer to SRC-26, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946100

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946101

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1006 B1007 B1008 B1009 B1010	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self-Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-28, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946102

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-28, "DTC Logic"

Is DTC detected?

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

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

Description

INFOID:0000000009946103

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946104

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1011 B1012 B1013 B1014 B1015	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-30, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946105

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-30, "DTC Logic"

Is DTC detected?

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

B1017, B1020, B1021 OCCUPANT SYSTEM CONTROL UNIT

Description

INFOID:0000000009946106

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

DTC Logic

INFOID:0000000009946107

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1017 B1020 B1021	OCCUPANT SENS C/U [UNIT FAIL]	Occupant Detection System control unit is malfunctioning	• Disconnection of wiring harness • Malfunction in Occupant Detection System control unit • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result with CONSULT.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-32, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946108

WARNING:
- **Before servicing, turn ignition switch OFF, disconnect battery negative terminal, and wait 3 minutes or more. (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.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE OCCUPANT DETECTION SYSTEM CONTROL UNIT

1. Replace occupant detection system control unit. Refer to SR-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-32, "DTC Logic".

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE OCCUPANT DETECTION SYSTEM SEAT SENSOR

1. Replace passenger seat cushion frame. Refer to SE-12, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-32, "DTC Logic".

Is DTC detected?

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

5. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-32, "DTC Logic".

Is DTC detected?

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

B1018 OCCUPANT SYSTEM SENSOR

Description

INFOID:0000000009946109

Occupant Detection System sensor detects occupant in passenger seat and transmits it to Occupant Detection System control unit.

DTC Logic

INFOID:0000000009946110

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1018	OCCUPANT SENS [UNIT FAIL]	Occupant Detection System sensor is malfunctioning	• Disconnection of wiring harness • Malfunction in Occupant Detection System sensor • Malfunction in Occupant Detection System control unit • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result with CONSULT.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-34, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946111

WARNING:
- **Before servicing, turn ignition switch OFF, disconnect battery negative terminal, and wait 3 minutes or more. (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.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE OCCUPANT DETECTION SYSTEM CONTROL UNIT

1. Replace occupant detection system control unit. Refer to SR-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-34, "DTC Logic".

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE OCCUPANT DETECTION SYSTEM SEAT SENSOR

1. Replace passenger seat cushion frame. Refer to SE-12, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-34, "DTC Logic".

Is DTC detected?

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

5. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-34, "DTC Logic".

Is DTC detected?

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

B1022 OCCUPANT SYSTEM CONTROL UNIT

Description

INFOID:0000000009946112

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

DTC Logic

INFOID:0000000009946113

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1022	OCCUPANT SENS C/U [COMM FAIL]	• Internal malfunction of Occupant Detection System control unit • Malfunction of circuit between Occupant Detection System control unit and Air bag diagnosis sensor unit • Malfunction of Air bag diagnosis sensor unit	• Disconnection of wiring harness • Malfunction in Occupant Detection System control unit • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result with CONSULT.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-36, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946114

WARNING:
- **Before servicing, turn ignition switch OFF, disconnect battery negative terminal, and wait 3 minutes or more. (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.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE OCCUPANT DETECTION SYSTEM CONTROL UNIT

1. Replace occupant detection system control unit. Refer to SR-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-36, "DTC Logic".

Is DTC detected?

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

4. REPLACE OCCUPANT DETECTION SYSTEM SEAT SENSOR

1. Replace passenger seat cushion frame. Refer to SE-12, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-36, "DTC Logic".

Is DTC detected?

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

5. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-36, "DTC Logic".

Is DTC detected?

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

B1023 PASSENGER AIR BAG OFF INDICATOR

Description

INFOID:0000000009946115

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

DTC Logic

INFOID:0000000009946116

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	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	• Disconnection of wiring harness • Malfunction in passenger air bag OFF indicator • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result with CONSULT.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-38, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946117

WARNING:
- **Before servicing, turn ignition switch OFF, disconnect battery negative terminal, and wait 3 minutes or more. (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.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. CHECK PASSENGER AIR BAG OFF INDICATOR

1. Replace passenger air bag OFF indicator. Refer to IP-13, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-38, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-38, "DTC Logic".

Is DTC detected?

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

B1025, B1032, B1048 OCCUPANT SYSTEM SENSOR

Description

INFOID:0000000009946118

Occupant Detection System sensor detects occupant in passenger seat and transmits it to Occupant Detection System control unit.

DTC Logic

INFOID:0000000009946119

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1025 B1032 B1048	OCS SENSOR	• Internal malfunction of Occupant Detection System control unit • Malfunction of circuit between Occupant Detection System control unit and Air bag diagnosis sensor unit • Malfunction of Air bag diagnosis sensor unit	• Disconnection of wiring harness • Malfunction in Occupant Detection System control unit • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result with CONSULT.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-40, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946120

WARNING:
- **Before servicing, turn ignition switch OFF, disconnect battery negative terminal, and wait 3 minutes or more. (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.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE OCCUPANT DETECTION SYSTEM CONTROL UNIT

1. Replace occupant detection system control unit. Refer to SR-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-40, "DTC Logic".

Is DTC detected?

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

4. REPLACE OCCUPANT DETECTION SYSTEM SEAT SENSOR

1. Replace passenger seat cushion frame. Refer to SE-12, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-40, "DTC Logic".

Is DTC detected?

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

5. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-40, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946121

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946122

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1026 B1027 B1028 B1029 B1030 B1031	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-42, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946123

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-42, "DTC Logic".

Is DTC detected?

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

B1033, B1034 CRASH ZONE SENSOR

Description

INFOID:0000000009946124

Crash zone sensor is a G sensor that outputs voltage signal during deceleration at the time of a vehicle frontal collision that is more than the specified limit is detected.

DTC Logic

INFOID:0000000009946125

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1033 B1034	CRASH ZONE SENSOR [UNIT FAIL]	Crash zone sensor is malfunctioning	• Disconnection of wiring harness • Malfunction in crash zone sensor • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-44, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946126

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE CRASH ZONE SENSOR

1. Replace crash zone sensor. Refer to SR-22, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-44, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-44, "DTC Logic".

Is DTC detected?

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

B1035 CRASH ZONE SENSOR

Description

INFOID:0000000009946127

Crash zone sensor is a G sensor that outputs voltage signal during deceleration at the time of a vehicle frontal collision that is more than the specified limit is detected.

DTC Logic

INFOID:0000000009946128

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1035	CRASH ZONE SENSOR [COMM FAIL]	Crash zone sensor is malfunctioning	• Disconnection of wiring harness • Malfunction in crash zone sensor • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-46, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946129

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE CRASH ZONE SENSOR

1. Replace crash zone sensor. Refer to SR-22, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-46, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-46, "DTC Logic".

Is DTC detected?

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

B1036 CRASH ZONE SENSOR

Description

INFOID:0000000009946130

Crash zone sensor is a G sensor that outputs voltage signal during deceleration at the time of a vehicle frontal collision that is more than the specified limit is detected.

DTC Logic

INFOID:0000000009946131

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1036	CRASH ZONE SENSOR [UNMATCH]	Crash zone sensor is out of the specified specification	Diagnosis sensor unit or crash zone sensor is different from the part specified

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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-48, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946132

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE CRASH ZONE SENSOR

1. Replace crash zone sensor. Refer to SR-22, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-48, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-48, "DTC Logic".

Is DTC detected?

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

B1037, B1039, B1041 CRASH ZONE SENSOR

Description

INFOID:0000000009946133

Crash zone sensor is a G sensor that outputs voltage signal during deceleration at the time of a vehicle frontal collision that is more than the specified limit is detected.

DTC Logic

INFOID:0000000009946134

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1037 B1039 B1041	CRASH ZONE SENSOR1	Crash zone sensor is malfunctioning	• Disconnection of wiring harness • Malfunction in crash zone sensor • Malfunction in air bag diagnosis sensor unit

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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-50, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946135

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE CRASH ZONE SENSOR

1. Replace crash zone sensor. Refer to SR-22, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-50, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-50, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946136

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946137

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1042 B1043 B1044 B1045 B1046 B1047	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-52, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946138

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-52, "DTC Logic".

Is DTC detected?

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

B1049, B1054 DRIVER AIR BAG MODULE

Description

INFOID:0000000009946139

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946140

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1049 B1054	DRIVER AIRBAG MODULE [OPEN]	Driver air bag module circuit is open (including the spiral cable)	• Disconnection of wiring harness and open • Malfunction in driver air bag module • Malfunction in spiral cable • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-54, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946141

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. CHECK SPIRAL CABLE CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver air bag module connector and combination switch (spiral cable) 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	
M350	10	M32	28	Existed
	11		30	
M351	12		29	
	9		30	

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

Driver side air bag module			Continuity
Connector	Terminal		
M350	10	Ground	Not existed
	11		
M351	12		
	9		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace combination switch (spiral cable). Refer to SR-11, "Exploded View".

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-54, "DTC Logic".

Is DTC detected?

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

5. REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to SR-11, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-54, "DTC Logic".

Is DTC detected?

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

B1050, B1055 DRIVER AIR BAG MODULE

Description

INFOID:0000000009946142

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946143

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1050 B1055	DRIVER AIRBAG MODULE [VB-SHORT]	Driver air bag module circuit is shorted to power supply circuit (including the spiral cable)	• Disconnection of wiring harness and short • Malfunction in driver air bag module • Malfunction in spiral cable • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-56, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946144

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. CHECK SPIRAL CABLE CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver air bag module connector and combination switch (spiral cable) 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	
M350	10	M32	28	Existed
	11		30	
M351	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		
M350	10	Ground	Not existed
	11		
M351	12		
	9		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace combination switch (spiral cable). Refer to SR-11, "Exploded View".

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-56, "DTC Logic".

Is DTC detected?

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

5. REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to SR-11, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-56, "DTC Logic".

Is DTC detected?

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

B1051, B1056 DRIVER AIR BAG MODULE

Description

INFOID:0000000009946145

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946146

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	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)	• Disconnection of wiring harness and short • Malfunction in driver air bag module • Malfunction in spiral cable • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-58, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946147

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. CHECK SPIRAL CABLE CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver air bag module connector and combination switch (spiral cable) 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	
M350	10	M32	28	Existed
	11		30	
M351	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		
M350	10	Ground	Not existed
	11		
M351	12		
	9		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace combination switch (spiral cable). Refer to SR-11, "Exploded View".

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-58, "DTC Logic".

Is DTC detected?

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

5. REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to SR-11, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-58, "DTC Logic".

Is DTC detected?

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

B1052, B1057 DRIVER AIR BAG MODULE

Description

INFOID:0000000009946148

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946149

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	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)	• Disconnection of wiring harness and short • Malfunction in driver air bag module • Malfunction in spiral cable • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-60, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946150

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. CHECK SPIRAL CABLE CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver air bag module connector and combination switch (spiral cable) 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	
M350	10	M32	28	Existed
	11		30	
M351	12		29	
	9		30	

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

Driver side air bag module			Continuity
Connector	Terminal	Ground	
M350	10		Not existed
	11		
M351	12		
	9		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace combination switch (spiral cable). Refer to SR-11, "Exploded View".

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-60, "DTC Logic".

Is DTC detected?

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

5. REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to SR-11, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-60, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946151

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946152

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1058 B1059 B1060 B1061 B1062 B1063	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-62, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946153

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-62, "DTC Logic".

Is DTC detected?

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

B1065, B1070 PASSENGER AIR BAG MODULE

Description

INFOID:0000000009946154

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946155

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1065 B1070	ASSIST A/B MODULE [OPEN]	Passenger air bag module circuit is open	• Disconnection of wiring harness and open • Malfunction in passenger air bag module • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-64, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946156

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-64, "DTC Logic".

Is DTC detected?

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

4. REPLACE PASSENGER AIR BAG MODULE

1. Replace passenger air bag module. Refer to SR-17, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-64, "DTC Logic".

Is DTC detected?

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

B1066, B1071 PASSENGER AIR BAG MODULE

Description

INFOID:0000000009946157

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946158

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1066 B1071	ASSIST A/B MODULE [VB-SHORT]	Passenger air bag module circuit is shorted to power supply circuit	• Disconnection of wiring harness and short • Malfunction in passenger air bag module • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-66, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946159

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-66, "DTC Logic".

Is DTC detected?

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

4. REPLACE PASSENGER AIR BAG MODULE

1. Replace passenger air bag module. Refer to SR-17, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-66, "DTC Logic".

Is DTC detected?

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

B1067, B1072 PASSENGER AIR BAG MODULE

Description

INFOID:0000000009946160

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946161

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1067 B1072	ASSIST A/B MODULE [GND-SHORT]	Passenger air bag module circuit is shorted to ground	• Disconnection of wiring harness and short • Malfunction in passenger air bag module • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-68, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946162

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-68, "DTC Logic".

Is DTC detected?

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

4. REPLACE PASSENGER AIR BAG MODULE

1. Replace passenger air bag module. Refer to SR-17, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-68, "DTC Logic".

Is DTC detected?

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

B1068, B1073 PASSENGER AIR BAG MODULE

Description

INFOID:0000000009946163

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946164

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1068 B1073	ASSIST A/B MODULE [SHORT]	Passenger air bag module circuits are shorted to each other	• Disconnection of wiring harness and short • Malfunction in passenger air bag module • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-70, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946165

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-70, "DTC Logic".

Is DTC detected?

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

4. REPLACE PASSENGER AIR BAG MODULE

1. Replace passenger air bag module. Refer to SR-17, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-70, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946166

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946167

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1074 B1075 B1076 B1077 B1078 B1079	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-72, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946168

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-72, "DTC Logic".

Is DTC detected?

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

B1080, B1096 DRIVER AIR BAG MODULE

Description

INFOID:0000000009946169

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946170

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1080 B1096	DRIVER AIRBAG MODULE [SHORT]	Driver air bag module circuit are shorted to each other (including the spiral cable)	• Disconnection of wiring harness and short • Malfunction in driver air bag module • Malfunction in spiral cable • Malfunction in air bag diagnosis sensor unit

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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-74, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946171

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. CHECK SPIRAL CABLE CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver air bag module connector and combination switch (spiral cable) 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	
M350	10	M32	28	Existed
	11		30	
M351	12		29	
	9		30	

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

Driver side air bag module			Continuity
Connector	Terminal		
M350	10	Ground	Not existed
	11		
M351	12		
	9		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace combination switch (spiral cable). Refer to MWI-93, "Exploded View".

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-74, "DTC Logic".

Is DTC detected?

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

5. REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to SR-11, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-74, "DTC Logic".

Is DTC detected?

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

B1081 SEAT BELT PRE-TENSIONER RH

Description

INFOID:0000000009946172

In the case of a frontal collision that is more than the 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.

DTC Logic

INFOID:0000000009946173

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1081	PRE-TEN FRONT RH [OPEN]	Seat belt pre-tensioner RH circuit is open	• Disconnection of wiring harness and open • Malfunction in seat belt pre-tensioner RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-76, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946174

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE SEAT BELT PRE-TENSIONER

1. Replace seat belt pre-tensioner RH. Refer to SB-6, "SEAT BELT RETRACTOR : Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-76, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-76, "DTC Logic".

Is DTC detected?

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

B1082 SEAT BELT PRE-TENSIONER RH

Description

INFOID:0000000009946175

In the case of a frontal collision that is more than the 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.

DTC Logic

INFOID:0000000009946176

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1082	PRE-TEN FRONT RH [VB-SHORT]	Seat belt pre-tensioner RH circuit is shorted to power supply circuit	• Disconnection of wiring harness and short • Malfunction in seat belt pre-tensioner RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-78, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946177

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE SEAT BELT PRE-TENSIONER

1. Replace seat belt pre-tensioner RH. Refer to SB-6, "SEAT BELT RETRACTOR : Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-78, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-78, "DTC Logic".

Is DTC detected?

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

B1083 SEAT BELT PRE-TENSIONER RH

Description

INFOID:0000000009946178

In the case of a frontal collision that is more than the 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.

DTC Logic

INFOID:0000000009946179

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1083	PRE-TEN FRONT RH [GND-SHORT]	Seat belt pre-tensioner RH circuit is shorted to ground	• Disconnection of wiring harness and short • Malfunction in seat belt pre-tensioner RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-80, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946180

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE SEAT BELT PRE-TENSIONER

1. Replace seat belt pre-tensioner RH. Refer to SB-6, "SEAT BELT RETRACTOR : Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-80, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-80, "DTC Logic".

Is DTC detected?

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

B1084 SEAT BELT PRE-TENSIONER RH

Description

INFOID:0000000009946181

In the case of a frontal collision that is more than the 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.

DTC Logic

INFOID:0000000009946182

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1084	PRE-TEN FRONT RH [SHORT]	Seat belt pre-tensioner RH circuits are shorted to each other	• Disconnection of wiring harness and short • Malfunction in seat belt pre-tensioner RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-82, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946183

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

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3.REPLACE SEAT BELT PRE-TENSIONER

1. Replace seat belt pre-tensioner RH. Refer to SB-6, "SEAT BELT RETRACTOR : Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-82, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-82, "DTC Logic".

Is DTC detected?

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

B1086 SEAT BELT PRE-TENSIONER LH

Description

INFOID:0000000009946184

In the case of a frontal collision that is more than the 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.

DTC Logic

INFOID:0000000009946185

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1086	PRE-TEN FRONT LH [OPEN]	Seat belt pre-tensioner LH circuit is open	• Disconnection of wiring harness and open • Malfunction in seat belt pre-tensioner LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-84, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946186

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

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3.REPLACE SEAT BELT PRE-TENSIONER

1. Replace seat belt pre-tensioner LH. Refer to SB-6, "SEAT BELT RETRACTOR : Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-84, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-84, "DTC Logic".

Is DTC detected?

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

B1087 SEAT BELT PRE-TENSIONER LH

Description

INFOID:0000000009946187

In the case of a frontal collision that is more than the 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.

DTC Logic

INFOID:0000000009946188

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1087	PRE-TEN FRONT LH [VB-SHORT]	Seat belt pre-tensioner LH circuit is shorted to power supply circuit	• Disconnection of wiring harness and short • Malfunction in seat belt pre-tensioner LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-86, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946189

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE SEAT BELT PRE-TENSIONER

1. Replace seat belt pre-tensioner LH. Refer to SB-6, "SEAT BELT RETRACTOR : Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-86, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-86, "DTC Logic".

Is DTC detected?

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

B1088 SEAT BELT PRE-TENSIONER LH

Description

INFOID:0000000009946190

In the case of a frontal collision that is more than the 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.

DTC Logic

INFOID:0000000009946191

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1088	PRE-TEN FRONT LH [GND-SHORT]	Seat belt pre-tensioner LH circuit is shorted to ground	• Disconnection of wiring harness and short • Malfunction in seat belt pre-tensioner LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-88, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946192

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE SEAT BELT PRE-TENSIONER

1. Replace seat belt pre-tensioner LH. Refer to SB-6, "SEAT BELT RETRACTOR : Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-88, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-88, "DTC Logic".

Is DTC detected?

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

B1089 SEAT BELT PRE-TENSIONER LH

Description

INFOID:0000000009946193

In the case of a frontal collision that is more than the 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.

DTC Logic

INFOID:0000000009946194

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1089	PRE-TEN FRONT LH [SHORT]	Seat belt pre-tensioner LH circuits are shorted to each other	• Disconnection of wiring harness and short • Malfunction in seat belt pre-tensioner LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-90, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946195

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

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3.REPLACE SEAT BELT PRE-TENSIONER

1. Replace seat belt pre-tensioner LH. Refer to SB-6, "SEAT BELT RETRACTOR : Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-90, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-90, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946196

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946197

DTC DETECTION LOGIC

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

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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-92, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946198

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-92, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946199

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946200

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1106 B1107 B1108 B1109 B1110 B1111	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-94, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946201

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-94, "DTC Logic".

Is DTC detected?

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

B1113, B1114 SATELLITE SENSOR RH

Description

INFOID:0000000009946202

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

DTC Logic

INFOID:0000000009946203

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1113 B1114	SATELLITE SENS RH [UNIT FAIL]	Satellite sensor RH is malfunctioning	• Disconnection of wiring harness • Malfunction in satellite sensor RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-96, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946204

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE SATELLITE SENSOR

1. Replace satellite sensor RH. Refer to SR-24, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-96, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-96, "DTC Logic".

Is DTC detected?

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

B1115 SATELLITE SENSOR RH

Description

INFOID:0000000009946205

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

DTC Logic

INFOID:0000000009946206

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1115	SATELLITE SENS RH [COMM FAIL]	Satellite sensor RH is malfunctioning	• Disconnection of wiring harness • Malfunction in satellite sensor RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-98, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946207

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

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3.REPLACE SATELLITE SENSOR

1. Replace satellite sensor RH. Refer to SR-24, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-98, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-98, "DTC Logic".

Is DTC detected?

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

B1116 SATELLITE SENSOR RH

Description

INFOID:0000000009946208

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

DTC Logic

INFOID:0000000009946209

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1116	SATELLITE SENS RH [UNMATCH]	Satellite sensor RH is out of the specified specification	Diagnosis sensor unit or crash zone sensor is different from the part specified

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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-100, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946210

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

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3.REPLACE SATELLITE SENSOR

1. Replace satellite sensor RH. Refer to SR-24, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-100, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-100, "DTC Logic".

Is DTC detected?

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

B1118, B1119 SATELLITE SENSOR LH

Description

INFOID:0000000009946211

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

DTC Logic

INFOID:0000000009946212

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1118 B1119	SATELLITE SENS LH [UNIT FAIL]	Satellite sensor LH is malfunctioning	• Disconnection of wiring harness • Malfunction in satellite sensor LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-102, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946213

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

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3.REPLACE SATELLITE SENSOR

1. Replace satellite sensor LH. Refer to SR-24, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-102, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-102, "DTC Logic".

Is DTC detected?

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

B1120 SATELLITE SENSOR LH

Description

INFOID:0000000009946214

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

DTC Logic

INFOID:0000000009946215

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1120	SATELLITE SENS LH [COMM FAIL]	Satellite sensor LH is malfunctioning	• Disconnection of wiring harness • Malfunction in satellite sensor LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-104, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946216

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE SATELLITE SENSOR

1. Replace satellite sensor LH. Refer to SR-24, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-104, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-104, "DTC Logic".

Is DTC detected?

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

B1121 SATELLITE SENSOR LH

Description

INFOID:0000000009946217

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

DTC Logic

INFOID:0000000009946218

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1121	SATELLITE SENS LH [UNMATCH]	Satellite sensor LH is out of the specified specification	Diagnosis sensor unit or crash zone sensor is different from the part specified

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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-106, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946219

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE SATELLITE SENSOR

1. Replace satellite sensor LH. Refer to SR-24, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-106, "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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-106, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946220

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946221

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1122 B1123 B1124 B1125 B1126 B1127	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-108, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946222

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-108, "DTC Logic".

Is DTC detected?

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

B1129 SIDE AIR BAG MODULE RH

Description

INFOID:0000000009946223

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946224

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1129	SIDE MODULE RH [OPEN]	Side air bag module RH circuit is open	• Disconnection of wiring harness and open • Malfunction in side air bag module RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. SRC-18, "Diagnosis with Air Bag Warning Lamp"

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

Is malfunctioning part detected?

YES >> Refer to SRC-110, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946225

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-110, "DTC Logic".

Is DTC detected?

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

4. REPLACE SIDE AIR BAG MODULE

1. Replace side air bag module RH. Refer to SE-12, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-110, "DTC Logic".

Is DTC detected?

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

B1130 SIDE AIR BAG MODULE RH

Description

INFOID:0000000009946226

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946227

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1130	SIDE MODULE RH [VB-SHORT]	Side air bag module RH circuit is shorted to power supply circuit	• Disconnection of wiring harness and short • Malfunction in side air bag module RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-112, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946228

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-112, "DTC Logic".

Is DTC detected?

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

4. REPLACE SIDE AIR BAG MODULE

1. Replace side air bag module RH. Refer to SE-12, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-112, "DTC Logic".

Is DTC detected?

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

B1131 SIDE AIR BAG MODULE RH

Description

INFOID:0000000009946229

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946230

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1131	SIDE MODULE RH [GND-SHORT]	Side air bag module RH circuit is shorted to ground	• Disconnection of wiring harness and short • Malfunction in side air bag module RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-114, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946231

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-114, "DTC Logic".

Is DTC detected?

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

4. REPLACE SIDE AIR BAG MODULE

1. Replace side air bag module RH. Refer to SE-12, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-114, "DTC Logic".

Is DTC detected?

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

B1132 SIDE AIR BAG MODULE RH

Description

INFOID:0000000009946232

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946233

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1132	SIDE MODULE RH [SHORT]	Side air bag module RH circuits are shorted to each other	• Disconnection of wiring harness and short • Malfunction in side air bag module RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-116, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946234

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-116, "DTC Logic".

Is DTC detected?

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

4. REPLACE SIDE AIR BAG MODULE

1. Replace side air bag module RH. Refer to SE-12, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-116, "DTC Logic".

Is DTC detected?

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

B1134 SIDE AIR BAG MODULE LH

Description

INFOID:0000000009946235

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946236

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1134	SIDE MODULE LH [OPEN]	Side air bag module LH circuit is open	• Disconnection of wiring harness and open • Malfunction in side air bag module LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-118, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946237

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-118, "DTC Logic".

Is DTC detected?

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

4. REPLACE SIDE AIR BAG MODULE

1. Replace side air bag module LH. Refer to SE-12, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-118, "DTC Logic".

Is DTC detected?

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

B1135 SIDE AIR BAG MODULE LH

Description

INFOID:0000000009946238

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946239

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1135	SIDE MODULE LH [VB-SHORT]	Side air bag module LH circuit is shorted to power supply circuit	• Disconnection of wiring harness and short • Malfunction in side air bag module LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-120, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946240

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-120, "DTC Logic".

Is DTC detected?

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

4. REPLACE SIDE AIR BAG MODULE

1. Replace side air bag module LH. Refer to SE-12, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-120, "DTC Logic".

Is DTC detected?

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

B1136 SIDE AIR BAG MODULE LH

Description

INFOID:0000000009946241

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946242

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1136	SIDE MODULE LH [GND-SHORT]	Side air bag module LH circuit is shorted to ground	• Disconnection of wiring harness and short • Malfunction in side air bag module LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-122, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946243

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-122, "DTC Logic".

Is DTC detected?

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

4. REPLACE SIDE AIR BAG MODULE

1. Replace side air bag module LH. Refer to SE-12, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-122, "DTC Logic".

Is DTC detected?

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

B1137 SIDE AIR BAG MODULE LH

Description

INFOID:0000000009946244

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946245

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1137	SIDE MODULE LH [SHORT]	Side air bag module LH circuits are shorted to each other	• Disconnection of wiring harness and short • Malfunction in side air bag module LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-124, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946246

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-124, "DTC Logic".

Is DTC detected?

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

4. REPLACE SIDE AIR BAG MODULE

1. Replace side air bag module LH. Refer to SE-12, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-124, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946247

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946248

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1138 B1139 B1140 B1141 B1142 B1143	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-126, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946249

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

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2.CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-126, "DTC Logic".

Is DTC detected?

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

B1144 DIAGNOSIS SENSOR UNIT

Description

INFOID:0000000009946250

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946251

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1144	Diagnosis sensor unit	Air bag diagnosis sensor unit is malfunctioning or out of the specification	• Malfunction in air bag diagnosis sensor unit • Configuration in air bag diagnosis sensor unit does not match the vehicles specification

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT
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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-128, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946252

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

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2.CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-128, "DTC Logic".

Is DTC detected?

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

B1145 CURTAIN AIR BAG MODULE RH

Description

INFOID:0000000009946253

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946254

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1145	CURTAIN MODULE RH [OPEN]	Curtain air bag module RH circuit is open	• Disconnection of wiring harness and open • Malfunction in side curtain air bag module RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-129, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946255

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-129, "DTC Logic".

Is DTC detected?

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

4. REPLACE CURTAIN AIR BAG MODULE

1. Replace curtain air bag module RH. Refer to SR-20, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-129, "DTC Logic".

Is DTC detected?

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

B1146 CURTAIN AIR BAG MODULE RH

Description

INFOID:0000000009946256

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946257

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1146	CURTAIN MODULE RH [VB-SHORT]	Curtain air bag module RH circuit is shorted to power supply circuit	• Disconnection of wiring harness and short • Malfunction in curtain air bag module RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-131, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946258

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-131, "DTC Logic".

Is DTC detected?

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

4. REPLACE CURTAIN AIR BAG MODULE

1. Replace curtain air bag module RH. Refer to SR-20, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-131, "DTC Logic".

Is DTC detected?

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

B1147 CURTAIN AIR BAG MODULE RH

Description

INFOID:0000000009946259

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946260

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1147	CURTAIN MODULE RH [GND-SHORT]	Curtain air bag module RH circuit is shorted to ground	• Disconnection of wiring harness and short • Malfunction in curtain air bag module RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-133, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946261

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-133, "DTC Logic".

Is DTC detected?

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

4. REPLACE CURTAIN AIR BAG MODULE

1. Replace curtain air bag module RH. Refer to SR-20, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-133, "DTC Logic".

Is DTC detected?

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

B1148 CURTAIN AIR BAG MODULE RH

Description

INFOID:0000000009946262

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946263

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1148	CURTAIN MODULE RH [SHORT]	Curtain air bag module RH circuits are shorted to each other	• Disconnection of wiring harness and short • Malfunction in curtain air bag module RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-135, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946264

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-135, "DTC Logic".

Is DTC detected?

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

4. REPLACE CURTAIN AIR BAG MODULE

1. Replace curtain air bag module RH. Refer to SR-20, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-135, "DTC Logic".

Is DTC detected?

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

B1150 CURTAIN AIR BAG MODULE LH

Description

INFOID:0000000009946265

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946266

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1150	CURTAIN MODULE LH [OPEN]	Curtain air bag module LH circuit is open	• Disconnection of wiring harness and open • Malfunction in curtain air bag module LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-137, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946267

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-137, "DTC Logic".

Is DTC detected?

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

4. REPLACE CURTAIN AIR BAG MODULE

1. Replace curtain air bag module LH. Refer to SR-20, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-137, "DTC Logic".

Is DTC detected?

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

B1151 CURTAIN AIR BAG MODULE LH

Description

INFOID:0000000009946268

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946269

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1151	CURTAIN MODULE LH [VB-SHORT]	Curtain air bag module LH circuit is shorted to power supply circuit	• Disconnection of wiring harness and short • Malfunction in curtain air bag module LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-139, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946270

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-139, "DTC Logic".

Is DTC detected?

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

4. REPLACE CURTAIN AIR BAG MODULE

1. Replace curtain air bag module LH. Refer to SR-20, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-139, "DTC Logic".

Is DTC detected?

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

B1152 CURTAIN AIR BAG MODULE LH

Description

INFOID:0000000009946271

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946272

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1152	CURTAIN MODULE LH [GND-SHORT]	Curtain air bag module LH circuit is shorted to ground	• Disconnection of wiring harness and short • Malfunction in curtain air bag module LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-141, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946273

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-141, "DTC Logic".

Is DTC detected?

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

4. REPLACE CURTAIN AIR BAG MODULE

1. Replace curtain air bag module LH. Refer to SR-20, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-141, "DTC Logic".

Is DTC detected?

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

B1153 CURTAIN AIR BAG MODULE LH

Description

INFOID:0000000009946274

In case of frontal collision where acceleration is more than 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.

DTC Logic

INFOID:0000000009946275

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1153	CURTAIN MODULE LH [SHORT]	Curtain air bag module LH circuits are shorted to each other	• Disconnection of wiring harness and short • Malfunction in curtain air bag module LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-143, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946276

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-143, "DTC Logic".

Is DTC detected?

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

4. REPLACE CURTAIN AIR BAG MODULE

1. Replace curtain air bag module LH. Refer to SR-20, "Exploded View"
2. Perform DTC confirmation procedure. Refer to SRC-143, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946277

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946278

DTC DETECTION LOGIC

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

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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-145, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946279

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-145, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946280

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946281

DTC DETECTION LOGIC

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

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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-147, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946282

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-147, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946283

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946284

DTC DETECTION LOGIC

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

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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-149, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946285

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-149, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946286

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946287

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1202 B1203 B1204 B1205 B1206 B1207	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-151, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946288

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-151, "DTC Logic".

Is DTC detected?

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

B1209 FRONTAL COLLISION DETECTION

Description

INFOID:0000000009946289

The air bags and seat belt pre-tensioners for driver and passenger are activated by the air bag diagnosis sensor unit signal transmitted at the time of the frontal collision.

DTC Logic

INFOID:0000000009946290

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1209	FRONTAL COLLISION DETECTION	Seat belt pre-tensioner, driver side air bag and passenger air bag are deployed	—

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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-153, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946291

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

1. PERFORM COLLISION DIAGNOSIS

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

Is collision diagnosis complete?

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

2. FINAL INSPECTION

Perform “AIR BAG” Self Diagnostic Result.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Perform diagnosis of applicable DTC.Refer to SRC-163, "DTC Index".

B1210 SIDE COLLISION DETECTION

Description

INFOID:0000000009946292

The side air bag and curtain air bag are activated by the air bag diagnosis sensor unit signal transmitted at the time of side collision.

DTC Logic

INFOID:0000000009946293

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1210	SIDE COLLISION DETECTION	Side air bag and curtain air bag are deployed	—

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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-154, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946294

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

1.PERFORM COLLISION DIAGNOSIS

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

Is collision diagnosis complete?

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

2.FINAL INSPECTION

Perform “AIR BAG” Self Diagnostic Result.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Perform diagnosis of applicable DTC.Refer to SRC-163, "DTC Index".

B1211 ROLLOVER DETECTION

Description

INFOID:0000000009946295

The seat belt pre-tensioner and curtain air bag are activated by the air bag diagnosis sensor unit signal at the time of rollover.

DTC Logic

INFOID:0000000009946296

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1211	ROLLOVER DETECTION	Seat belt pre-tensioner and curtain air bag module are deployed because of rollover detection	—

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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-155, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946297

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

1. PERFORM COLLISION DIAGNOSIS

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

Is collision diagnosis complete?

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

2. FINAL INSPECTION

Perform “AIR BAG” Self Diagnostic Result.

Is the inspection result normal?

YES >> INSPECTION END
NO >> Perform diagnosis of applicable DTC.Refer to SRC-163, "DTC Index".

B1212, B1213, B1214 SATELLITE SENSOR RH

Description

INFOID:0000000009946298

Satellite sensor is a G sensor that outputs voltage signal during deceleration at the time of a vehicle side collision that is more than the specified limit is detected.

DTC Logic

INFOID:0000000009946299

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1212 B1213 B1214	RH1 SAT-SENS	Satellite sensor RH is malfunctioning	• Disconnection of wiring harness • Malfunction in satellite sensor RH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-156, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946300

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE SATELLITE SENSOR

1. Replace satellite sensor RH. Refer to SR-24, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-156, "DTC Logic".

Is DTC detected?

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

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-156, "DTC Logic".

Is DTC detected?

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

B1215, B1216, B1217 SATELLITE SENSOR LH

Description

INFOID:0000000009946301

Satellite sensor is a G sensor that outputs voltage signal during deceleration at the time of a vehicle side collision that is more than the specified limit is detected.

DTC Logic

INFOID:0000000009946302

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1215 B1216 B1217	LH1 SAT-SENS	Satellite sensor LH is malfunctioning	• Disconnection of wiring harness • Malfunction in satellite sensor LH • Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-158, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946303

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3. REPLACE SATELLITE SENSOR

1. Replace satellite sensor LH. Refer to SR-24, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-158, "DTC Logic"

Is DTC detected?

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

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-158, "DTC Logic".

Is DTC detected?

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

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

Description

INFOID:0000000009946304

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946305

DTC DETECTION LOGIC

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

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-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-160, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946306

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2. CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-160, "DTC Logic".

Is DTC detected?

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

B1239 DIAGNOSIS SENSOR UNIT

Description

INFOID:0000000009946307

- It detects a shock that is more than the specified level and monitors whether the driver and passenger air bags, side air bag, curtain air bag, and pre-tensioner seat belts operate normally.
- It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.

DTC Logic

INFOID:0000000009946308

DTC DETECTION LOGIC

DTC	Display contents of CONSULT	DTC detecting condition	Possible cause
B1239	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT
1. Turn ignition switch ON.
2. Perform “AIR BAG” Self Diagnostic Result.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-18, "Diagnosis with Air Bag Warning Lamp".

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

Is malfunctioning part detected?

YES >> Refer to SRC-162, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009946309

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

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

2.CHECK WIRING HARNESS

Check the wiring harness externals.

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-26, "Exploded View".
2. Perform DTC confirmation procedure. Refer to SRC-162, "DTC Logic".

Is DTC detected?

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

ECU DIAGNOSIS INFORMATION

DIAGNOSIS SENSOR UNIT

DTC Index

INFOID:0000000009946310

DTC	Diagnostic item	Explanation		Reference page
—	NO DTC IS DETECTED.	When malfunction is indicated by the “AIR BAG” warning lamp in the user mode	Low battery voltage (Less than 9 V)	SRC-24, "CONSULT Function".
			Self-diagnostic result is not erased after repair	SRC-18, "Diagnosis with Air Bag Warning Lamp", SRC-24, "CONSULT Function".
			Intermittent malfunction is detected in the past	GI-40, "Intermittent Incident"
		No malfunction is detected		—
B1001-B1015	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning		• SRC-26, "DTC Logic". • SRC-28, "DTC Logic". • SRC-30, "DTC Logic".
B1017 B1020 B1021	OCCUPANT SENS C/U [UNIT FAIL]	Malfunction occurs in Occupant Detection System control unit		SRC-32, "DTC Logic".
B1018	OCCUPANT SENS [UNIT FAIL]	Malfunction occurs in Occupant Detection System sensor		SRC-34, "DTC Logic".
B1022	OCCUPANT SENS C/U [COMM FAIL]	Malfunction occurs in Occupant Detection System control unit, circuit of Occupant Detection System control unit air bag diagnosis sensor unit, or air bag diagnosis sensor unit		SRC-36, "DTC Logic".
B1023	PASS A/B INDCTR CKT	Passenger air bag OFF indicator circuit is open or shorted to ground or the circuits are shorted each other		SRC-38, "DTC Logic".
B1025 B1032 B1048	OCS SENSOR	Malfunction occurs in Occupant Detection System control unit, circuit of Occupant Detection System control unit air bag diagnosis sensor unit, or air bag diagnosis sensor unit		SRC-40, "DTC Logic".
B1026-B1031	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification		SRC-42, "DTC Logic".
B1033 B1034	CRASH ZONE SEN [UNIT FAIL]	Crash zone sensor is malfunctioning		SRC-44, "DTC Logic".
B1035	CRASH ZONE SEN [COMM FAIL]	Crash zone sensor is malfunctioning		SRC-46, "DTC Logic".
B1036	CRASH ZONE SEN [UNMATCH]	Crash zone sensor is out of the specified specification		SRC-48, "DTC Logic".
B1037 B1039 B1041	CRASH ZONE SEN1	Crash zone sensor is malfunctioning		SRC-50, "DTC Logic".
B1042-B1047	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning		SRC-52, "DTC Logic".
B1049 B1054	DRIVER AIRBAG MODULE [OPEN]	Driver air bag module circuit is open (including the spiral cable)		SRC-54, "DTC Logic".
B1050 B1055	DRIVER AIRBAG MODULE [VB-SHORT]	Driver air bag module circuit is shorted to power supply circuit (including the spiral cable)		SRC-56, "DTC Logic".
B1051 B1056	DRIVER AIRBAG MODULE [GND-SHORT]	Driver air bag module circuit is shorted to ground (including the spiral cable)		SRC-58, "DTC Logic".

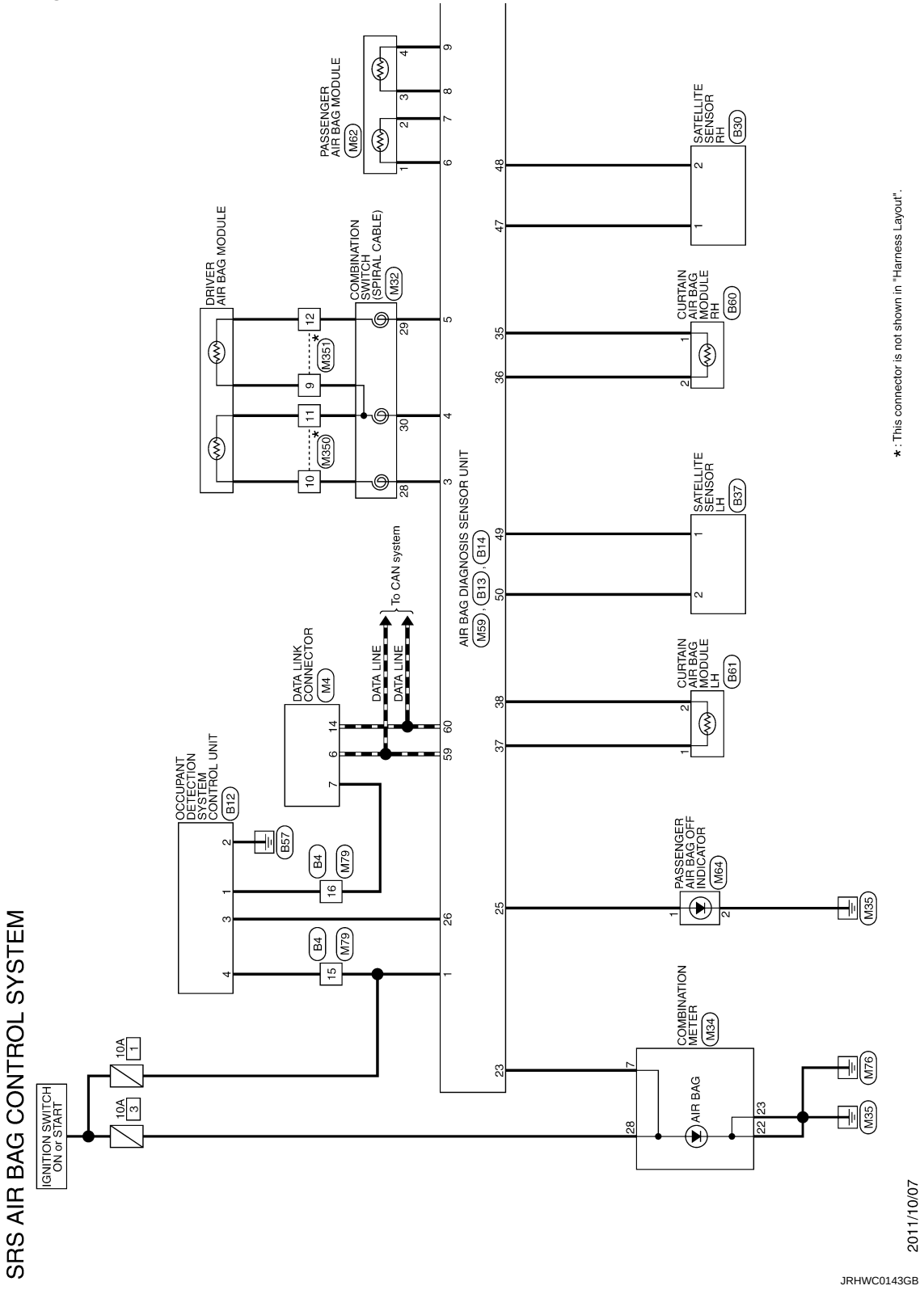
DTC	Diagnostic item	Explanation	Reference page
B1052 B1057	DRIVER AIRBAG MODULE [SHORT]	Driver air bag module circuits are shorted to each other (including spiral cable)	SRC-60, "DTC Logic".
B1058-B1063	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	SRC-62, "DTC Logic".
B1065 B1070	ASSIST A/B MODULE [OPEN]	Passenger air bag module circuit is open	SRC-64, "DTC Logic".
B1066 B1071	ASSIST A/B MODULE [VB-SHORT]	Passenger air bag module circuit is shorted to power supply circuit	SRC-66, "DTC Logic".
B1067 B1072	ASSIST A/B MODULE [GND-SHORT]	Passenger air bag module circuit is shorted to ground	SRC-68, "DTC Logic".
B1068 B1073	ASSIST A/B MODULE [SHORT]	Passenger air bag module circuits are shorted to each other	SRC-70, "DTC Logic".
B1074-B1079	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	SRC-72, "DTC Logic".
B1080 B1096	DRIVER AIRBAG MODULE [SHORT]	Driver air bag module circuits are shorted to each other (including spiral cable)	SRC-74, "DTC Logic".
B1081	PRE-TEN FRONT RH [OPEN]	Seat belt pre-tensioner RH circuit is open	SRC-76, "DTC Logic".
B1082	PRE-TEN FRONT RH [VB-SHORT]	Seat belt pre-tensioner RH circuit is shorted to power supply circuit	SRC-78, "DTC Logic".
B1083	PRE-TEN FRONT RH [GND-SHORT]	Seat belt pre-tensioner RH circuit is shorted to ground	SRC-80, "DTC Logic".
B1084	PRE-TEN FRONT RH [SHORT]	Seat belt pre-tensioner RH circuits are shorted to each other	SRC-82, "DTC Logic".
B1086	PRE-TEN FRONT LH [OPEN]	Seat belt pre-tensioner LH circuit is open	SRC-84, "DTC Logic".
B1087	PRE-TEN FRONT LH [VB-SHORT]	Seat belt pre-tensioner LH circuit is shorted to power supply circuit	SRC-86, "DTC Logic".
B1088	PRE-TEN FRONT LH [GND-SHORT]	Seat belt pre-tensioner LH circuit is shorted to ground	SRC-88, "DTC Logic".
B1089	PRE-TEN FRONT LH [SHORT]	Seat belt pre-tensioner LH circuits are shorted to each other	SRC-90, "DTC Logic".
B1090-B1095	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	SRC-92, "DTC Logic".
B1106-B1111	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	SRC-94, "DTC Logic".
B1113 B1114	SATELLITE SENS RH [UNIT FAIL]	Satellite sensor RH is malfunctioning	SRC-96, "DTC Logic".
B1115	SATELLITE SENS RH [COMM FAIL]	Satellite sensor RH is malfunctioning	SRC-98, "DTC Logic".
B1116	SATELLITE SENS RH [UNMATCH]	Satellite sensor RH is out of the specified specification	SRC-100, "DTC Logic".
B1118 B1119	SATELLITE SENS LH [UNIT FAIL]	Satellite sensor LH is malfunctioning	SRC-102, "DTC Logic".
B1120	SATELLITE SENS LH [COMM FAIL]	Satellite sensor LH is malfunctioning	SRC-104, "DTC Logic".
B1121	SATELLITE SENS LH [UNMATCH]	Satellite sensor LH is out of the specified specification	SRC-106, "DTC Logic".
B1122-B1127	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	SRC-108, "DTC Logic".
B1129	SIDE MODULE RH [OPEN]	Side air bag module RH circuit is open	SRC-110, "DTC Logic".

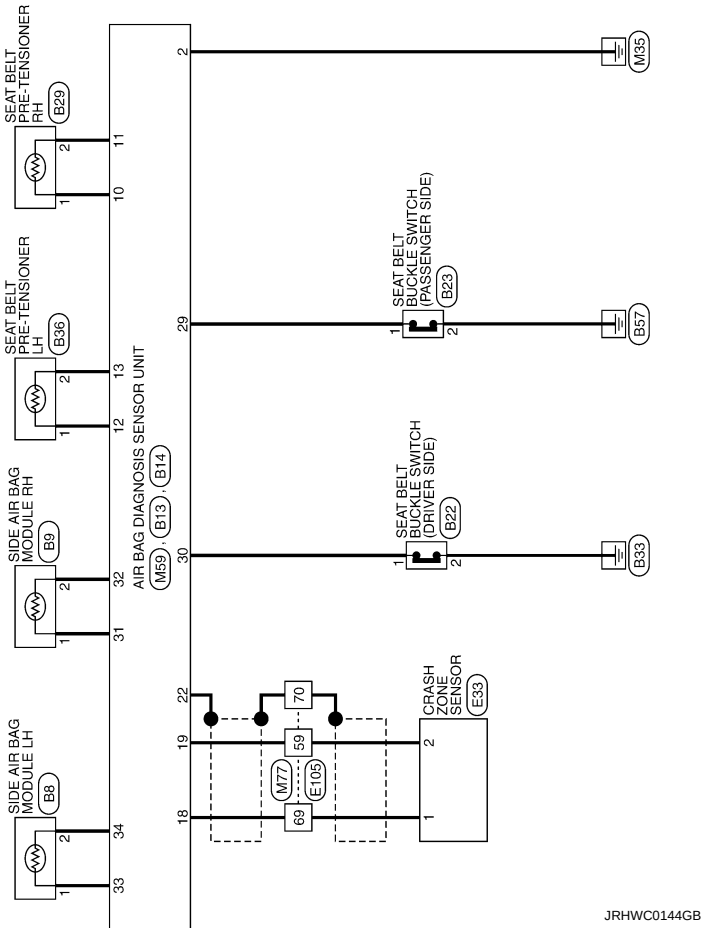
DTC	Diagnostic item	Explanation	Reference page
B1130	SIDE MODULE RH [VB-SHORT]	Side air bag module RH circuit is shorted to power supply circuit	SRC-112, "DTC Logic".
B1131	SIDE MODULE RH [GND-SHORT]	Side air bag module RH circuit is shorted to ground	SRC-114, "DTC Logic".
B1132	SIDE MODULE RH [SHORT]	Seat belt pre-tensioner RH circuits are shorted to each other	SRC-116, "DTC Logic".
B1134	SIDE MODULE LH [OPEN]	Side air bag module LH circuit is open	SRC-118, "DTC Logic".
B1135	SIDE MODULE LH [VB-SHORT]	Side air bag module LH circuit is shorted to power supply circuit	SRC-120, "DTC Logic".
B1136	SIDE MODULE LH [GND-SHORT]	Side air bag module LH circuit is shorted to ground	SRC-122, "DTC Logic".
B1137	SIDE MODULE LH [SHORT]	Side air bag module LH circuits are shorted to each other	SRC-124, "DTC Logic".
B1138-B1143	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	SRC-126, "DTC Logic"
B1144	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning or out of the specified specification	SRC-128, "DTC Logic".
B1145	CURTAIN MODULE RH [OPEN]	Curtain air bag module RH circuit is open	SRC-129, "DTC Logic".
B1146	CURTAIN MODULE RH [VB-SHORT]	Curtain air bag module RH circuit is shorted to power supply circuit	SRC-131, "DTC Logic".
B1147	CURTAIN MODULE RH [GND-SHORT]	Curtain air bag module RH circuit is shorted to ground	SRC-133, "DTC Logic".
B1148	CURTAIN MODULE RH [SHORT]	Curtain air bag module RH circuits are shorted to each other	SRC-135, "DTC Logic".
B1150	CURTAIN MODULE LH [OPEN]	Curtain air bag module LH circuit is open	SRC-137, "DTC Logic".
B1151	CURTAIN MODULE LH [VB-SHORT]	Curtain air bag module LH circuit is shorted to power supply circuits	SRC-139, "DTC Logic".
B1152	CURTAIN MODULE LH [GND-SHORT]	Curtain air bag module LH circuit is shorted to ground	SRC-141, "DTC Logic".
B1153	CURTAIN MODULE LH [SHORT]	Curtain air bag module LH circuits are shorted to each other	SRC-143, "DTC Logic".
B1154-B1159	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	SRC-145, "DTC Logic".
B1170-B1175	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	SRC-147, "DTC Logic".
B1186-B1191	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	SRC-149, "DTC Logic".
B1202-B1207	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	SRC-151, "DTC Logic".
B1209	FRONTAL COLLISION DETECTION	Seat belt pre-tensioner, driver side air bag and passenger air bag are deployed	SRC-153, "DTC Logic".
B1210	SIDE COLLISION DETECTION	Side air bag and curtain air bag are deployed	SRC-154, "DTC Logic".
B1211	ROLLOVER DETECTION	Seat belt pre-tensioner side curtain air bag module are deployed because of rollover detection	SRC-155, "DTC Logic".
B1212-B1214	RH1 SAT-SENS	Satellite sensor RH is malfunctioning	SRC-156, "DTC Logic".
B1215-B1217	LH1 SAT-SENS	Satellite sensor LH is malfunctioning	SRC-158, "DTC Logic".

DTC	Diagnostic item	Explanation	Reference page
B1218-B1223	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	SRC-160, "DTC Logic".
B1239	CONTROL UNIT	Air bag diagnosis sensor unit is malfunctioning	SRC-162, "DTC Logic".

Wiring Diagram - SRS AIR BAG CONTROL SYSTEM -

INFOID:0000000009946311

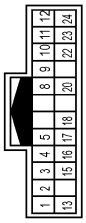



SIDE AIR BAG MODULE LH
B8
SIDE AIR BAG MODULE RH
B9
SEAT BELT PRE-TENSIONER LH
B36
SEAT BELT PRE-TENSIONER RH
B29
AIR BAG DIAGNOSIS SENSOR UNIT
M59 , B13 , B14
33
34
31
32
12
13
10
11
18
19
22
29
30
2
69
M77
E105
59
70
CRASH ZONE SENSOR
E33
SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
B22
SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
B23
B33
B57
M35
JRHWC0144GB

SRS AIR BAG CONTROL SYSTEM

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	O	-
4	P	-
5	W	-
8	SB	-
9	GR	-
10	SB	-
11	G	-
12	SB	-
13	L	-
15	R	-
16	GR	-
17	BR	-
18	L	-
20	LG	-
22	Y	-
23	BR	-
24	O	-

Connector No.	B8
Connector Name	SIDE AIR BAG MODULE LH
Connector Type	TK02FY-EX-1V

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-

Connector No.	B9
Connector Name	SIDE AIR BAG MODULE RH
Connector Type	TK02FY-EX-1V

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-

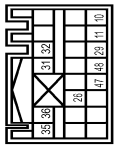
Connector No.	B12
Connector Name	OCCUPANT DETECTION SYSTEM CONTROL UNIT
Connector Type	TH04FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	B	-
3	V	-
4	R	-

Connector No.	B13
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH22FY-1V-EX

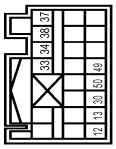
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
10	Y	PRH (+)
11	Y	PRH (-)
26	V	ODS INPUT
29	LG	RH BUCKLE SW INPUT
31	Y	SRH (+)
32	Y	SRH (-)
35	P	CRH (+)
36	L	CRH (-)
47	G	SATELLITE RH (+)
48	R	SATELLITE RH (-)

Connector No.	B14
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH22FY-2V-EX

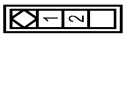
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
12	Y	PLH (+)
13	Y	PLH (-)
30	O	LH BUCKLE SW INPUT
33	Y	SLH (+)
34	Y	SLH (-)
37	G	CLH (+)
38	R	CLH (-)
49	P	SATELLITE LH (+)
50	L	SATELLITE LH (-)

Connector No.	B22
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	A03FW

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	-
2	B	-

JRHWC1437GB

SRS AIR BAG CONTROL SYSTEM

Connector No.	B23
Connector Name	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	A03FW

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	B	-

Connector No.	B30
Connector Name	SATELLITE SENSOR RH
Connector Type	HK02FY-1V-EX

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	B37
Connector Name	SATELLITE SENSOR LH
Connector Type	HK02FY-1V-EX

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	L	-

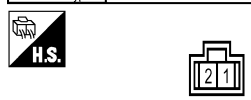
Connector No.	B61
Connector Name	CURTAIN AIR BAG MODULE LH
Connector Type	ACB02FOR

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	B29
Connector Name	SEAT BELT PRE-TENSIONER RH
Connector Type	ACB02FY

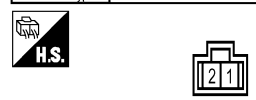
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-

Connector No.	B36
Connector Name	SEAT BELT PRE-TENSIONER LH
Connector Type	ACB02FY



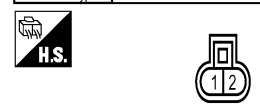
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-

Connector No.	B60
Connector Name	CURTAIN AIR BAG MODULE RH
Connector Type	ACB02FOR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	L	-

Connector No.	E33
Connector Name	CRASH ZONE SENSOR
Connector Type	HK02FY-1V-EX

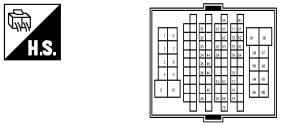


Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	L	-

JRHWC1438GB

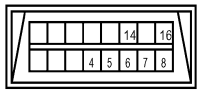
SRS AIR BAG CONTROL SYSTEM

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	W	-
3	SB	-
4	G	-
5	P	-
6	L	- [With NAVI]
6	R	- [Without NAVI]
7	Y	-
8	O	-
9	W	-
10	SB	-
31	V	-
32	R	-
33	GR	-
34	P	-
35	Y	-
36	BR	-
39	SB	-
44	R	-
45	V	-
46	P	-
48	L	-
51	B	- [With M/T]
51	BR	- [With CVT]
53	SB	-
54	O	- [With M/T]
54	W	- [With CVT]
57	LG	-
59	L	-
60	O	-
61	G	-
62	W	-
63	L	-
67	GR	- [With CVT]
67	V	- [With M/T]
69	P	-
70	SHIELD	-
71	GR	-
72	LG	-
73	P	-
74	V	-
76	Y	-
77	LG	-
78	O	-
79	G	-
80	P	-
81	L	-
82	W	-
83	BR	-
84	B	-
91	W	-
92	Y	-
93	Y	-
94	R	-
95	V	-
96	LG	-
97	R	-
98	SB	-
99	G	-
100	P	-

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

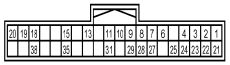


Terminal No.	Color Of Wire	Signal Name [Specification]
4	B	-
5	B	-
6	L	-
7	GR/R	-
8	O	-
14	P	-
16	LG/R	-

Connector No.	M32
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK06FY-EX-1V

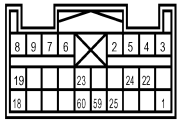
Terminal No.	Color Of Wire	Signal Name [Specification]
23	W	-
28	Y	-
29	L/Y	-
30	Y/R	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
3	V	VEHICLE SPEED SIGNAL (2-PULSE)
4	L	VEHICLE SPEED SIGNAL (8-PULSE) [Without NAVI]
4	V/R	VEHICLE SPEED SIGNAL (8-PULSE) [With NAVI]
6	BR/Y	FUEL LEVEL SENSOR SIGNAL
7	R/G	AIR BAG SIGNAL
8	P	OVERDRIVE CONTROL SWITCH SIGNAL
9	O	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	SB	PARKING BRAKE SWITCH SIGNAL
11	G/R	BRAKE FLUID LEVEL SWITCH SIGNAL
13	B/R	ILLUMINATION CONTROL SIGNAL
15	L/Y	ACC POWER SUPPLY
18	R/Y	SECURITY SIGNAL
19	PU/W	AMBIENT SENSOR SIGNAL
20	R/W	AMBIENT SENSOR GROUND
21	B	GROUND
22	B	GROUND
23	B	GROUND
24	PU	FUEL LEVEL SENSOR GROUND
25	B	VDC GROUND
27	LG/R	BATTERY POWER SUPPLY
28	GR	IGNITION SIGNAL
29	BR	PASSENGER SEAT BELT WARNING SIGNAL
31	R	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
35	BR	ENGINE COOLANT TEMPERATURE SIGNAL
38	GR	ALTERNATOR SIGNAL

Connector No.	M59
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R/L	IGN
2	B	GROUND
3	Y	DR 1 (+)
4	Y/R	DR 1 (-) DR 2 (-)
5	L/Y	DR 2 (+)
6	Y/G	AS 1 (+)
7	Y/B	AS 1 (-)
8	Y/L	AS 2 (+)
9	G/Y	AS 2 (-)
18	LG	ECZS (+)
19	V	ECZS (-)
22	SHIELD	SHIELD
23	R/G	AIR BAG W/L
24	BR	SEAT BELT W/L
25	R/B	CUTOFF TELLTALE
59	L	CAN-H
60	P	CAN-L

JRHWC1439GB

SRS AIR BAG CONTROL SYSTEM

Connector No.	M62
Connector Name	PASSENGER AIR BAG MODULE
Connector Type	RK04FY-BD

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y/G	-
2	Y/B	-
3	Y/L	-
4	G/Y	-

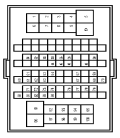
Connector No.	M64
Connector Name	PASSENGER AIR BAG OFF INDICATOR
Connector Type	JAB05FB

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R/B	-
2	B	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

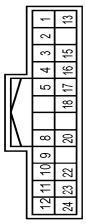
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B/O	-
2	R	-
3	G/R	-
4	G/B	-
5	L	-
6	L	-
7	W/R	-
8	G/W	-
9	Y/L	-
10	W	-
31	GR/L	-
32	L/B	-
33	R/Y	-
34	SB	-
35	BR	-
36	G	-
39	L/R	-
44	G/O	-
45	LG/R	-
46	GR/W	-
48	L/O	-
51	B/W	-
53	R/L	-
54	O	-
57	GR	-
59	V	-
60	R/W	-
61	PU/W	-
62	W/L	-
63	W/B	-
67	Y/R	-
69	LG	-
70	SHIELD	-
71	P/B	-
72	R/G	-
73	R	-
74	L/Y	-
76	W/G	-
77	GR/R	-
78	O	-
79	LG	-
80	P	-
81	L	-
82	GR	-
83	G/R	-
84	B	-
91	R	-
92	O	-
93	Y	-
94	R/B	-
95	L/W	-
96	Y	-
97	L	-
98	BR/W	-
99	W	-
100	G/R	-

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W/G	-
2	L/Y	-
3	R	-
4	P/B	-
5	W	-
8	SB	-
9	L/G	-
10	GR/B	-
11	G/B	-
12	G/R	-
13	R/G	-
15	R/L	-
16	GR/R	-
17	BR/Y	-
18	PU	-
20	GR/L	-
22	L	-
23	Y/L	-
24	G/W	-

Connector No.	M350
Connector Name	DRIVER AIR BAG MODULE
Connector Type	ACA02FY-2V

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
10	-	-
11	-	-

Connector No.	M351
Connector Name	DRIVER AIR BAG MODULE
Connector Type	ACA02FOR

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
9	-	-
12	-	-

JRHWC1440GB

SYMPTOM DIAGNOSIS

SRS AIR BAG WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:0000000009946312

1. CHECK AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Check the deployment of air bag module and seat belt pre-tensioner.

Is air bag module deployed?

YES >> Replace the malfunctioning parts.
NO >> GO TO 2.

2. CHECK AIR BAG FUSE

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

Is the inspection result normal?

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

3. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace harness connectors.

4. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace wiring harness.

5. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 6.

6. REPLACE COMBINATION METER

1. Replace combination meter. Refer to MWI-93, "Exploded View".
2. Check air bag warning lamp operation.

Is the inspection result normal?

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

SRS AIR BAG WARNING LAMP DOES NOT TURN ON

Diagnosis Procedure

INFOID:0000000009946313

1. CHECK COMBINATION METER POWER SPPLY AND GROUND CIRCUIT

Check combination meter unit power supply and ground circuit. Refer to MWI-39, "COMBINATION METER : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

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

3. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace wiring harness.

4. CHECK AIR BAG DIAGNOSIS SENSOR UNIT

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

Does air bag warning lamp turn ON?

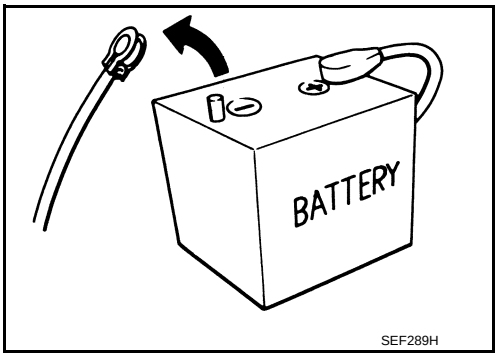
YES >> Replace air bag diagnosis sensor unit. Refer to SR-26, "Exploded View".
NO >> Replace combination meter. Refer to MWI-93, "Exploded View".

PRECAUTION

PRECAUTIONS

Precautions for Removing of Battery Terminal

INFOID:0000000010166639



- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
  NOTE:
  ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
  NOTE:
  If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.
- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
  NOTE:
  The removal of 12V battery may cause a DTC detection error.

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

INFOID:0000000010166642

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:0000000009946315

- Never use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.

For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pretensioner to deploy. Therefore, never work on any SRS connectors or wires until at least 3 minutes have passed.

- 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 with the neutral position since its rotations are limited. Never 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.
- Never solder the harness when making repairs. Check that harness is not pinched and that there is no contact with other components.
- Never allow harness to come in contact with oil, grease, waste oil, or water.
- Never insert foreign materials, such as a screwdriver, into the harness connector. (This is to prevent accidental activation caused by static electricity.)
- Always use CONSULT or SRS air bag warning lamp to perform the circuit diagnosis. (Never use an electric tester such as a circuit tester.)

Occupant Detection System Precaution

INFOID:0000000009946316

Replace Occupant Detection System control unit and passenger front seat cushion frame as an assembly. Refer to SE-12, "Exploded View".