SECTION SRC
SRS AIRBAG CONTROL SYSTEM

CONTENTS

BASIC INSPECTION 3

DIAGNOSIS AND REPAIR WORK FLOW 3
Work Flow 3

INTERMITTENTS INCIDENT 5
Inspection Procedure 5
Trouble Diagnosis with CONSULT-III 5

FUNCTION DIAGNOSIS 6

SRS AIR BAG SYSTEM 6
SRS Configuration 6
SRS Component Parts Location 7
Driver Air Bag Module 7
Front Passenger Air Bag Module 8
Front Side Air Bag 8
Side Curtain Air Bag 8
Front Seat Belt Pre-tensioner with Load Limiter 8
Direct-connect SRS Component Connectors 9

OCCUPANT CLASSIFICATION SYSTEM 10
System Diagram 10
Occupant Classification System (OCS) 10

PASSENGER SEAT BELT WARNING SYSTEM 12
System Diagram 12
System Description 12
Component Parts Location 12

ON BOARD DIAGNOSTIC (OBD) SYSTEM 13
Trouble Diagnosis Introduction 13
SRS Operation Check 13
Trouble Diagnosis without CONSULT-III 15
CONSULT-III Function (AIR BAG) 15
Self-Diagnosis Function (Without CONSULT-III) 15

COMPONENT DIAGNOSIS 17

B1049 – B1052, B1054 – B1057 DRIVER AIR-BAG MODULE 17
Description TD(.1-)oT0 DRIVER AIR-

Diagnosis Procedure (Component Diagnosis) 39

B1086 – B1089 SEAT BELT PRE-TENSIONER LH 41
Description 41
DTC Logic 41
Diagnosis Procedure (Component Diagnosis) 42

B1081 – B1084 SEAT BELT PRE-TENSIONER RH 44
Description 44
DTC Logic 44
Diagnosis Procedure (Component Diagnosis) 45

B1033 – B1035 CRASH ZONE SENSOR 47
Description 47
DTC Logic 47
Diagnosis Procedure (Component Diagnosis) 48

B1118 – B1120 SATELLITE SENSOR LH 50
Description 50
DTC Logic 50
Diagnosis Procedure (Component Diagnosis) 51

B1113 – B1115 SATELLITE SENSOR RH 53
Description 53
DTC Logic 53
Diagnosis Procedure (Component Diagnosis) 54

B1XXX AIR BAG DIAGNOSIS SENSOR UNIT... 56
Description 56
DTC Logic 56
Diagnosis Procedure (Component Diagnosis) 57

B1023 PASSENGER AIR BAG OFF INDICATOR 58
Description 58
DTC Logic 58
Diagnosis Procedure (Component Diagnosis) 59

B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM 61
Description 61
DTC Logic 61
Diagnosis Procedure (Component Diagnosis) 62

B1209 – B1211 COLLISION DETECTION 64
Description 64
DTC Logic 64
Diagnosis Procedure (Component Diagnosis) 64

ECU DIAGNOSIS 65

DIAGNOSIS SENSOR UNIT 65
Wiring Diagram 65
Trouble Diagnosis with CONSULT-III 75
Trouble Diagnosis without CONSULT-III 79

SYMPTOM DIAGNOSIS 83

SRS AIR BAG SYSTEM 83
"AIR BAG" Warning Lamp Does Not Turn Off 83
"AIR BAG" Warning Lamp Does Not Turn On 83

PASSENGER SEAT BELT WARNING SYSTEM 85
Seat Belt Warning System Does Not Function 85

PRECAUTION 86

PRECAUTIONS 86
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" 86
Precaution for SRS "AIR BAG" and "SEAT BELT PRE-TENSIONER" Service 86
Occupant Classification System Precaution 86

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

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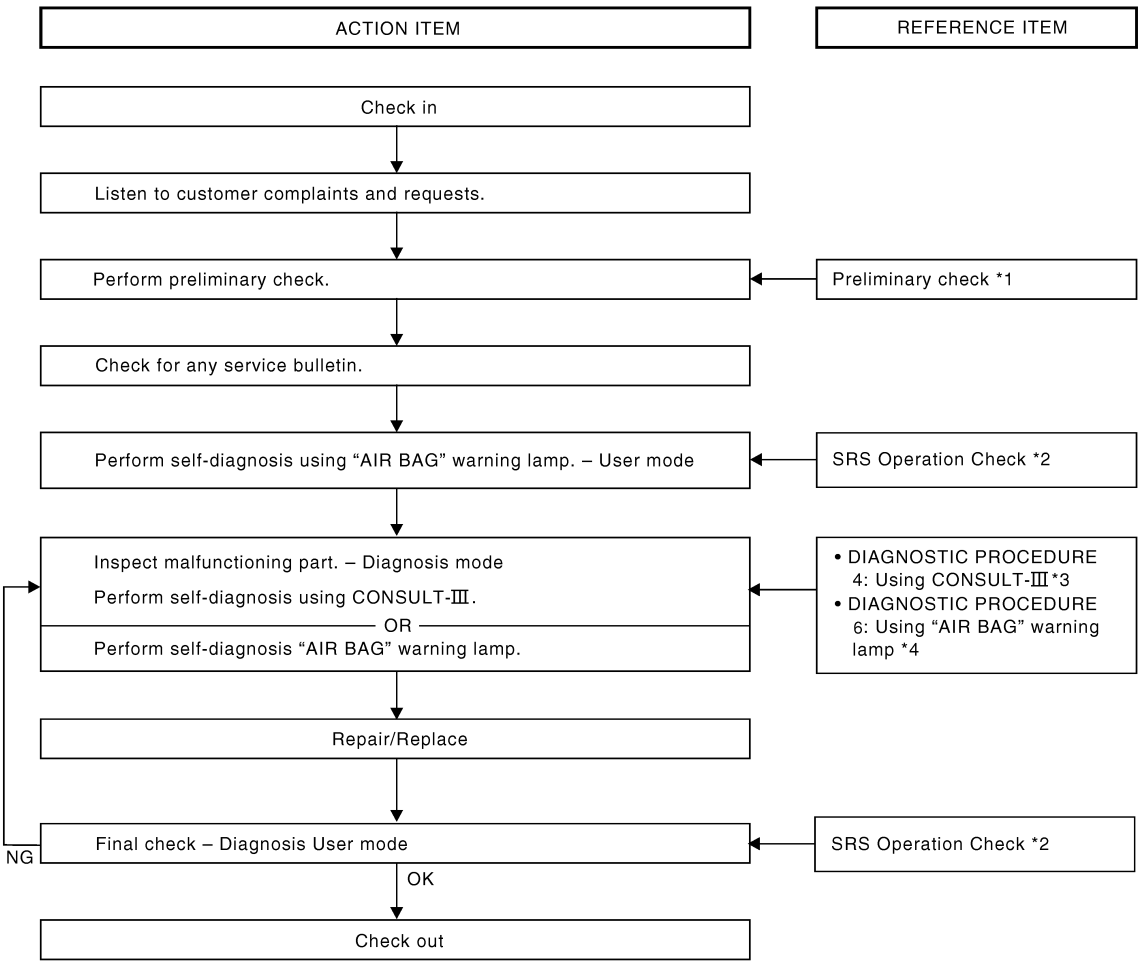
OVERALL SEQUENCE



WHIA0348E

*1 SRC-13, "Trouble Diagnosis Introduction"
*2 SRC-13, "SRS Operation Check"
*3 SRC-15, "CONSULT-III Function (AIR BAG)"
*4 SRC-15, "Self-Diagnosis Function (Without CONSULT-III)"

DETAILED WORK FLOW

1.CUSTOMER INFORMATION

Get detailed information from the customer about the symptom.

>> GO TO 2

2.PRELIMINARY CHECK

Perform preliminary check. Refer to SRC-13, "Trouble Diagnosis Introduction".

>> GO TO 3

3. TECHNICAL SERVICE BULLETINS

Check for technical service bulletins.

>> GO TO 4

4. USER MODE

Perform self-diagnosis using the "AIR BAG" warning lamp in User mode. Refer to SRC-13, "SRS Operation Check".

>> GO TO 5

5. SELF-DIAGNOSIS

Perform SELF-DIAGNOSIS. Refer to SRC-15, "CONSULT-III Function (AIR BAG)" (w/CONSULT-III) or SRC-15, "Self-Diagnosis Function (Without CONSULT-III)" (w/o CONSULT- III).

>> GO TO 6

6. REPLACE PART

Replace the malfunctioning part.

>> GO TO 7

7. FINAL CHECK

Check SRS using Diagnosis mode and User mode.

Does Diagnosis mode and User mode indicate SRS normal?

YES >> Inspection End.
NO >> GO TO 5

INTERMITTENTS INCIDENT

Inspection Procedure

INFOID:0000000003937567

INTERMITTENT TROUBLE

An intermittent incident may have occured in the past but is not being detected currently. This DTC will not be detected on SELF DIAG [CURRENT], but may be viewed on SELF DIAG [PAST] using CONSULT-III.

Trouble Diagnosis with CONSULT-III

INFOID:0000000003937568

DIAGNOSTIC PROCEDURE 4

Check SRS Repair History

1. CONSIDER POSSIBILITY THAT SELF-DIAGNOSTIC RESULT WAS NOT ERASED AFTER REPAIR

Check repair history of the SRS.

Have any previous repairs been made to the SRS?

YES >> Self-diagnostic result “SELF-DIAG [PAST]” (previously stored in the memory) might not be erased after repair. Go to "DIAGNOSTIC PROCEDURE 3". Refer to SRC-15, "Self-Diagnosis Function (Without CONSULT-III)".

NO >> Go to "DIAGNOSTIC PROCEDURE 2". Refer to SRC-13, "SRS Operation Check".

FUNCTION DIAGNOSIS

SRS AIR BAG SYSTEM

SRS Configuration

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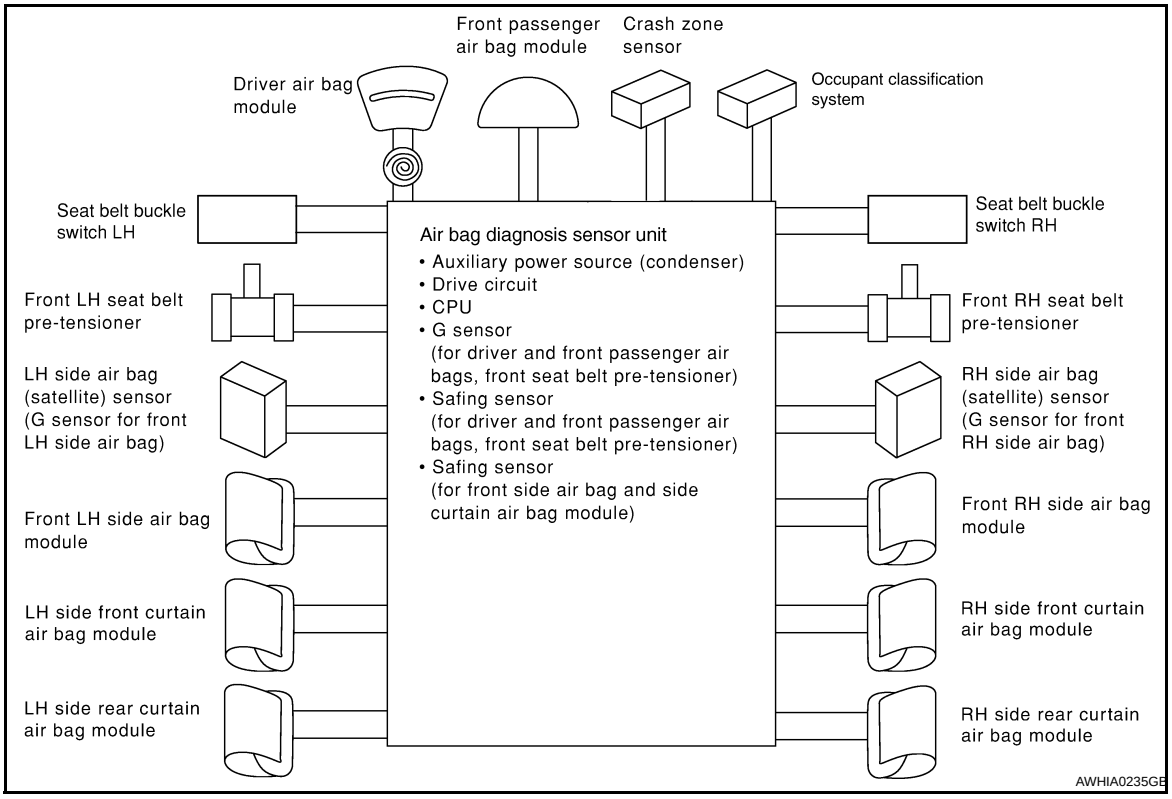
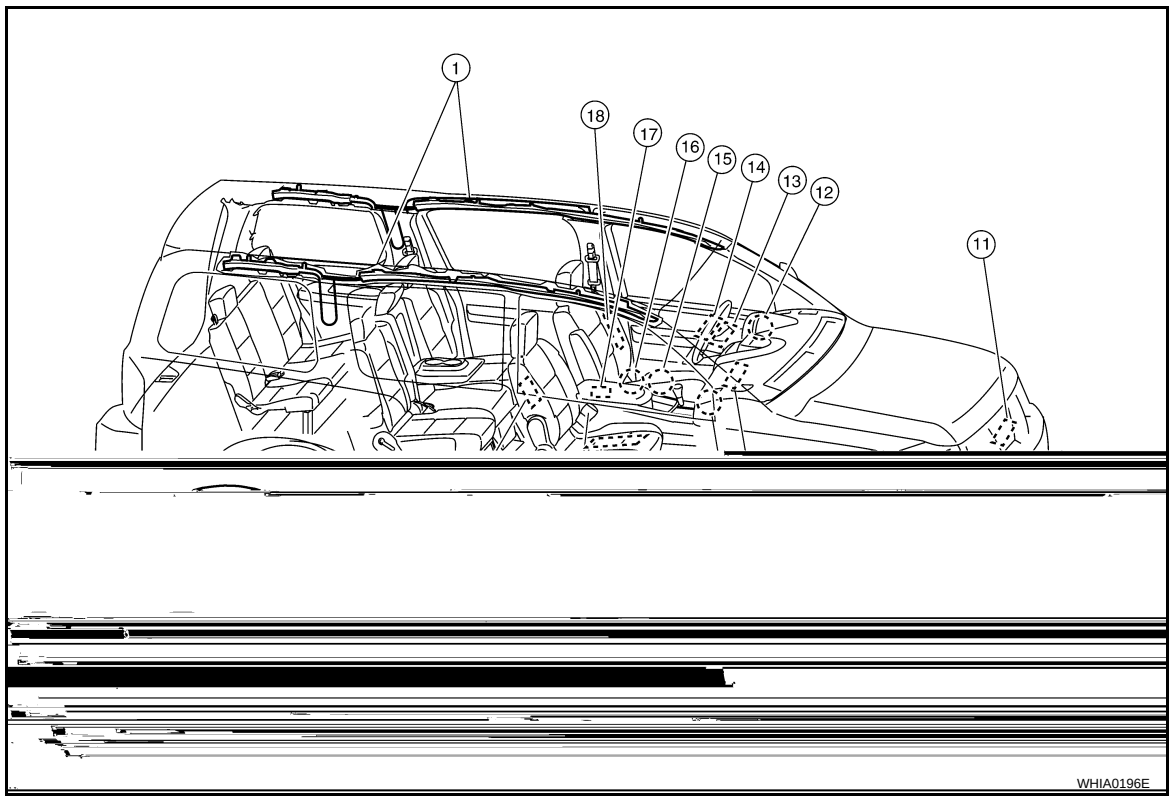


The air bag deploys if the air bag diagnosis sensor unit is activated while the ignition switch is in the ON or START position.
The collision modes for which supplemental restraint systems are activated are different among the SRS systems. For example, the driver air bag module, front passenger air bag module and front seat belt pre-tensioners are activated in a frontal collision but not in a side collision.
SRS configurations for some collision modes are as follows:

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

SRS Component Parts Location

INFOID:0000000003937570

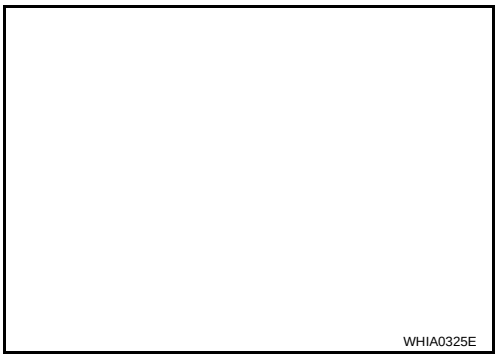


1. Side curtain air bag modules
2. Front RH side air bag module
3. Front RH seat belt pre-tensioner
4. Belt tension sensor
5. Seat belt buckle switch RH
6. RH side air bag (satellite) sensor
7. Occupant classification system sensor
8. Occupant classification system control unit
9. Front passenger air bag off indicator
10. Front passenger air bag module
11. Crash zone sensor
12. Air bag warning lamp
13. Spiral cable
14. Driver air bag module
15. LH side air bag (satellite) sensor
16. Front LH seat belt pre-tensioner
17. Air bag diagnosis sensor unit
18. Front LH side air bag module

Driver Air Bag Module

INFOID:0000000003937571

The driver air bag module is dual stage and located in the steering wheel assembly. It operates with the SRS system in a frontal collision exceeding a specified level.



Direct-connect SRS Component Connectors

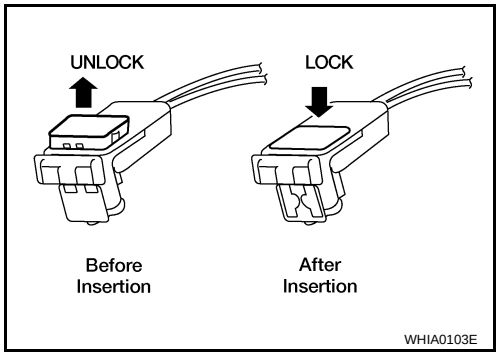
INFOID:0000000003937576

The following SRS components use direct-connect style harness connectors.

- Driver air bag module
- Front passenger air bag module
- LH side front curtain air bag module
- LH side rear curtain air bag module
- RH side front curtain air bag module
- RH side rear curtain air bag module
- Front LH seat belt pre-tensioner
- Front RH seat belt pre-tensioner

Always pull up to release locking tab prior to removing connector from SRS component.

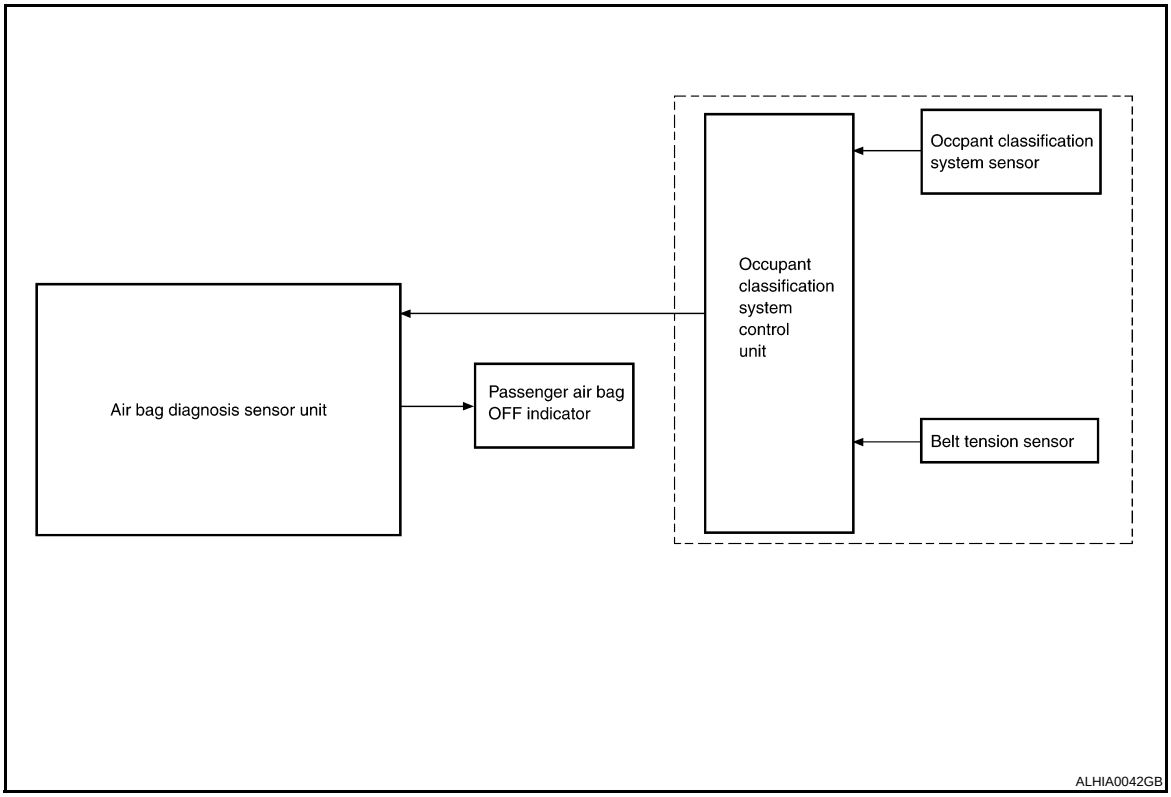
Always push down to lock locking tab after installing connector to SRS component. When locked, the locking tab is level with the connector housing.



OCCUPANT CLASSIFICATION SYSTEM

System Diagram

INFOID:0000000003937577



Occupant Classification System (OCS)

INFOID:0000000003937578

The occupant classification system (OCS) identifies different size occupants, out of position occupants, and detects if child seat is present in the front passenger seat. The OCS receives inputs from the occupant classification sensor (located inside the passenger seat cushion assembly) and belt tension sensor (part of the passenger front seat belt assembly and located at the belt anchor location). Depending on classification of the passenger, the OCS sends a signal to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit uses this signal and the seat belt buckle switch RH signal to determine deployment or non deployment of the passenger front air bag in the event of a collision. Depending on the signals received, the air bag diagnosis sensor unit can disable the passenger front air bag completely.

NOTE:

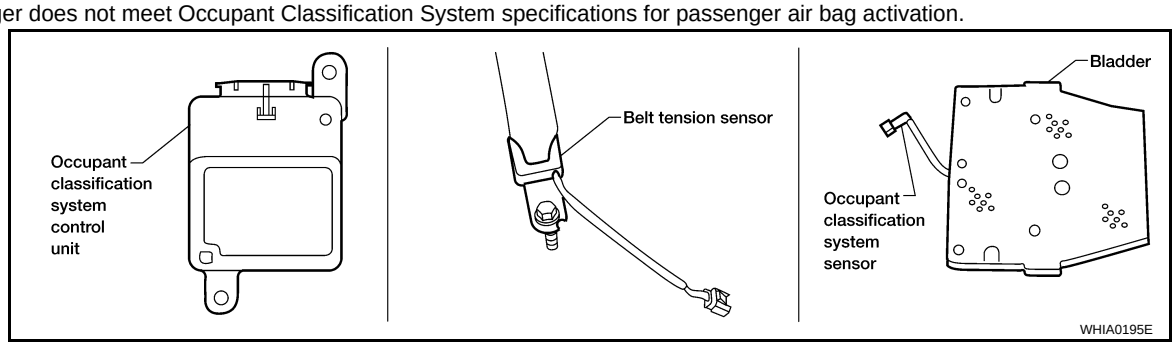
In case of customer concern, CONSULT-III can be used to confirm the passenger air bag status (readiness).

Passenger Air Bag Status Conditions

Front Passenger Seat (Condition)	PASS AIR BAG OFF Indicator (Status)	Passenger Air Bag Status (Readiness)	CONSULT-III Display
Seat occupied	OFF	Active (enabled)	ON
Seat occupied NOTE	ON	Deactivated (disabled)	OFF
Seat empty	OFF	Deactivated (disabled)	OFF

NOTE:

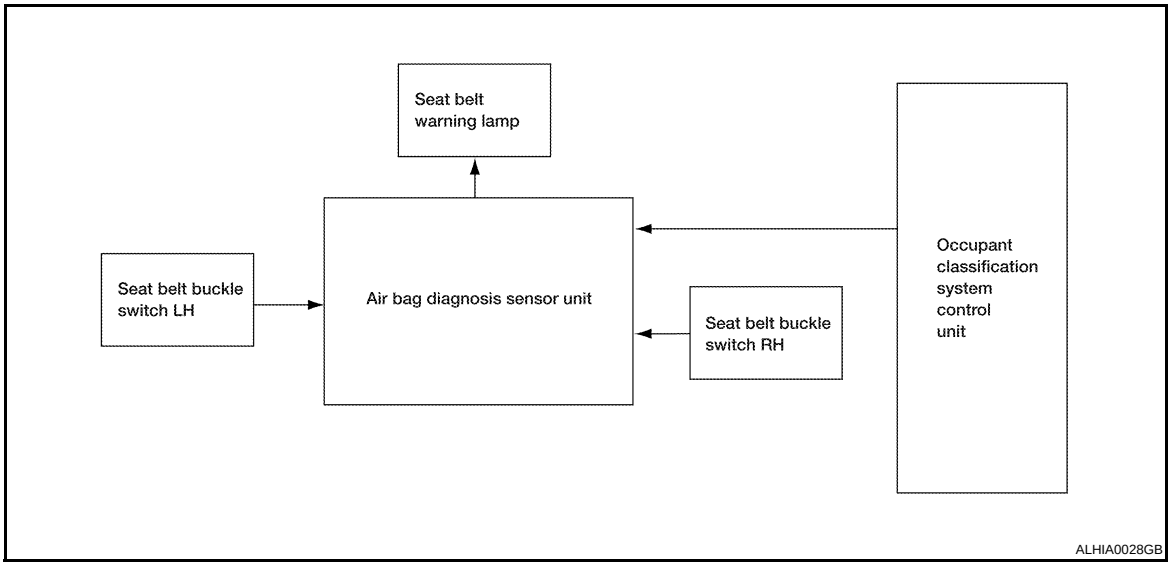
Passenger does not meet Occupant Classification System specifications for passenger air bag activation.



PASSENGER SEAT BELT WARNING SYSTEM

System Diagram

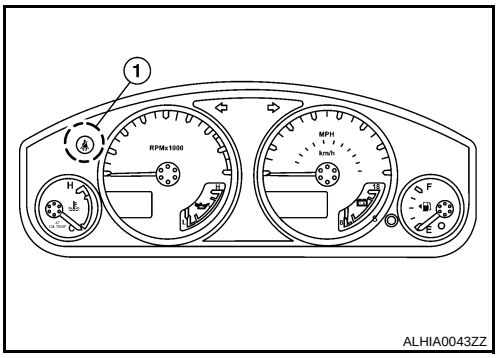
INFOID:0000000003937579



System Description

INFOID:0000000003937580

The passenger seat belt warning system will remind the driver if the driver or front passenger seat belt should be buckled by turning on the seat belt warning light (1). The system works in conjunction with the occupant classification system. Refer to SRC-10, "Occupant Classification System (OCS)".



Passenger Seat Belt Warning System Operation

Driver seat status (Ignition switch ON)	Passenger seat status	Seat belt buckle switch LH status	Seat belt buckle switch RH status	Seat belt warning lamp
Seat occupied	Seat occupied	Buckled	Buckled	Off
			Unbuckled	On
	Seat unoccupied		—	Off
	—	Unbuckled		On

Component Parts Location

INFOID:0000000003937581

Refer to SRC-7, "SRS Component Parts Location".

ON BOARD DIAGNOSTIC (OBD) SYSTEM

Trouble Diagnosis Introduction

INFOID:0000000003937582

CAUTION:

- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to do so in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harness connectors.**
- **Do not attempt to repair, splice or modify SRS wiring harnesses. If a harness is damaged, replace it with a new one.**
- **Keep ground connections clean.**

DIAGNOSIS FUNCTION

The SRS self-diagnosis results can be read by using “AIR BAG” warning lamp and/or CONSULT-III.
The User mode is exclusively prepared for the customer (driver). This mode warns the driver of a system malfunction through the operation of the “AIR BAG” warning lamp.
The Diagnosis mode allows the technician to locate and inspect the malfunctioning part.
The mode applications for the “AIR BAG” warning lamp and CONSULT-III are as follows:

	User mode	Diagnosis mode	Display type
“AIR BAG” warning lamp	X	X	ON-OFF operation
CONSULT-III	—	X	Monitoring

HOW TO PERFORM TROUBLE DIAGNOSES FOR QUICK AND ACCURATE REPAIR

A good understanding of the malfunction conditions can make troubleshooting faster and more accurate.
In general, each customer feels differently about a malfunction. It is important to fully understand the symptoms or conditions for a customer complaint.

Information From Customer
WHAT - Vehicle model
WHEN - Date, Frequencies
WHERE - Road conditions
HOW - Operating conditions, Symptoms

Preliminary Check
Check that the following parts are in good order.

- Battery
- Fuses
- System component-to-harness connections

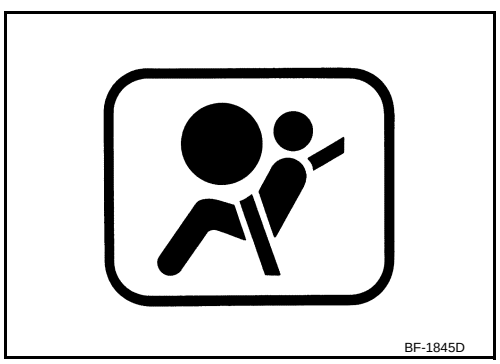
SRS Operation Check

INFOID:0000000003937583

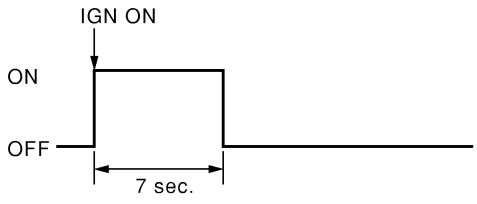
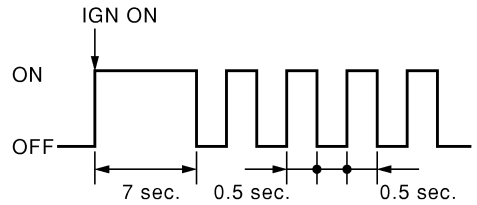
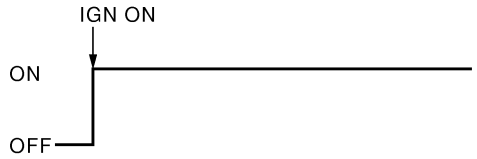
DIAGNOSTIC PROCEDURE 1

Checking SRS Operation Using “AIR BAG” Warning Lamp—User Mode

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



SRS Air bag warning lamp examples

"AIR BAG" warning lamp (User mode)	SRS condition	Reference item
 SHIA0011E	• No malfunction is detected. • No further action is necessary.	—
 SHIA0012E	The system is malfunctioning and needs to be repaired as indicated.	Go to DIAGNOSTIC PROCEDURE 2 that follows (with CONSULT-III) or SRC-15, "Trouble Diagnosis without CONSULT-III" (without CONSULT-III).
 SHIA0013E	• Air bag is deployed. • Seat belt pre-tensioner is deployed.	Go to COLLISION DIAGNOSIS SR-18, "For Frontal Collision" or SR-19, "For Side and Rollover Collision".
	• Air bag diagnosis sensor unit is malfunctioning. • Air bag power supply circuit is malfunctioning. • SRS air bag warning lamp circuit is malfunctioning.	Go to SRC-83, ""AIR BAG" Warning Lamp Does Not Turn Off".
SHIA0014E	• Air bag diagnosis sensor unit is malfunctioning. • Air bag warning lamp circuit is malfunctioning.	Go to SRC-83, ""AIR BAG" Warning Lamp Does Not Turn On".

DIAGNOSTIC PROCEDURE 2

1. Connect CONSULT-III.
2. Diagnostic code is displayed on "SELF-DIAG [CURRENT]".
   If no malfunction is detected on "SELF-DIAG [CURRENT]", but malfunction is detected in "SRS Operation Check" using the "AIR BAG" warning lamp, the following cases may exist:
   • "SELF-DIAG [PAST]" memory might not be erased.
   • The SRS system malfunctions intermittently.
   Perform DIAGNOSTIC PROCEDURE 4. Refer to SRC-15, "Self-Diagnosis Function (Without CONSULT-III)".

Trouble Diagnosis without CONSULT-III

INFOID:0000000003937584

DIAGNOSTIC PROCEDURE 6

Inspect SRS Malfunction Using "AIR BAG" Warning Lamp—Diagnosis Mode

NOTE:

SRS will not enter Diagnosis mode if no malfunction is detected in User mode.

1. Turn ignition switch ON.
2. After “AIR BAG” warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.
3. Wait more than 3 seconds.
4. Repeat steps 1 to 3 two more times (3 times total).
5. Turn ignition switch ON.

SRS is now in Diagnosis mode. Refer to SRC-79, "Trouble Diagnosis without CONSULT-III".

CONSULT-III Function (AIR BAG)

INFOID:0000000003937585

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

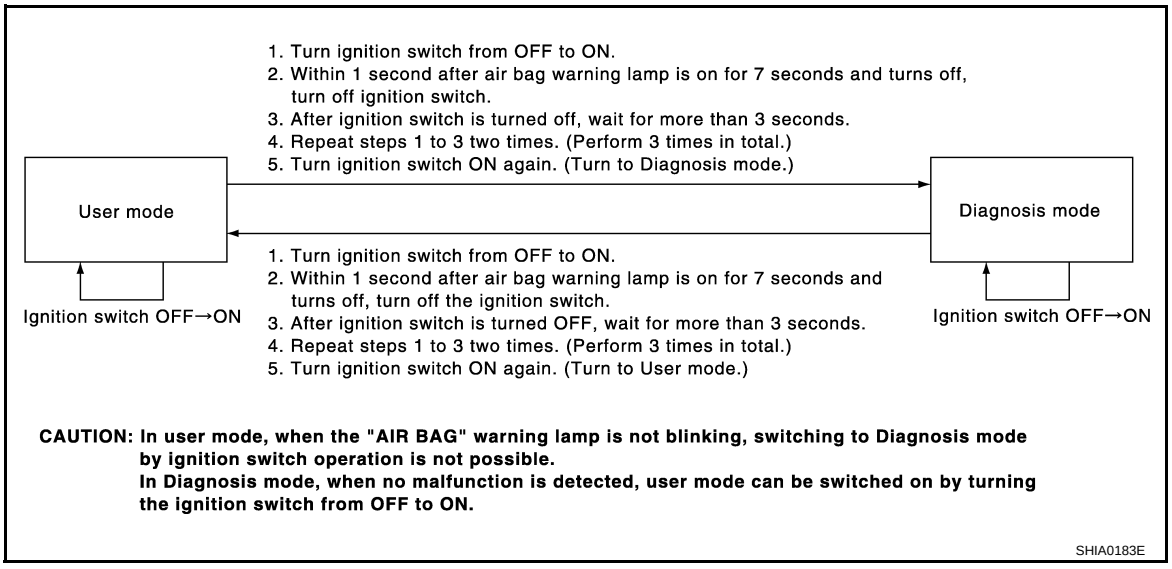
AIR BAG diagnostic mode	Description
SELF-DIAG [CURRENT]	A current Self-diagnosis result (also indicated by the number of warning lamp flashes in the Diagnosis mode) is displayed on the CONSULT-III screen in real time. This refers to a malfunctioning part requiring repairs.
SELF-DIAG [PAST]	Diagnosis results previously stored in the memory are displayed on the CONSULT-III screen. The stored results will remain until memory erasing is executed.
TROUBLE DIAG RECORD	With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed on the CONSULT-III screen.
ECU DISCRIMINATED NO.	The air bag diagnosis sensor unit for each vehicle model is assigned with its own, individual classification number. This number will be displayed on the CONSULT-III screen, as shown. When replacing the air bag diagnosis sensor unit, refer to the part number for the compatibility. After installation, replacement with a correct unit can be checked by confirming this classification number on the CONSULT-III screen. **The air bag diagnosis sensor unit discriminated number assigned is F6A2.**
PASSENGER AIR BAG	The STATUS (readiness) of the front passenger air bag module is displayed. The STATUS displayed (ON/OFF) depends on the signals supplied to the occupant classification system control module and air bag diagnosis sensor unit. Refer to SRC-10, "Occupant Classification System (OCS)" for more information.

Self-Diagnosis Function (Without CONSULT-III)

INFOID:0000000003937586

- The reading of these results is accomplished using one of two modes —“User mode” and “Diagnosis mode”.
- After a malfunction is repaired, turn the ignition switch OFF for at least one second, then back ON. Diagnosis mode returns to the User mode. At that time, the self-diagnostic result is cleared.

HOW TO CHANGE SELF-DIAGNOSIS MODE



DIAGNOSTIC PROCEDURE 3

Final Check of SRS Using CONSULT-III—Diagnosis Mode

1. Connect CONSULT-III.
2. If no DTC is detected on “SELF-DIAG [CURRENT]”, repair of SRS is completed. Go to step 3.
   If any DTC is detected on “SELF-DIAG [CURRENT]”, the malfunctioning part has not been repaired completely or another malfunctioning part is being detected. Perform DIAGNOSTIC PROCEDURE 2. Refer to SRC-13, "SRS Operation Check".
3. Touch “ERASE”.
   NOTE:
   Touch “ERASE” to clear the memory of the malfunction (“SELF-DIAG [PAST]”).
   If the memory of the malfunction in “SELF-DIAG [PAST]” is not erased, the User mode shows the system malfunction by the operation of the warning lamp even if the malfunction is repaired completely.
4. Touch “BACK” key of CONSULT-III. Touch “SELF-DIAG [PAST]”.
5. Check that no malfunction is detected on “SELF-DIAG [PAST]”.
6. Touch “BACK” key of CONSULT-III to return to User mode from Diagnosis mode.
7. Turn ignition switch OFF and then turn off and disconnect CONSULT-III.
8. Go to SRC-13, "SRS Operation Check".

DIAGNOSTIC PROCEDURE 4

Check SRS Repair History

1. CONSIDER POSSIBILITY THAT SELF-DIAGNOSTIC RESULT WAS NOT ERASED AFTER REPAIR

Check repair history of the SRS.

Have any previous repairs been made to the SRS?

YES >> Self-diagnostic result “SELF-DIAG [PAST]” (previously stored in the memory) might not be erased after repair. Perform DIAGNOSTIC PROCEDURE 3. Refer to SRC-15, "Self-Diagnosis Function (Without CONSULT-III)".

NO >> Perform DIAGNOSTIC PROCEDURE 2. Refer to SRC-13, "SRS Operation Check".

COMPONENT DIAGNOSIS

B1049 – B1052, B1054 – B1057 DRIVER AIRBAG MODULE

Description

INFOID:0000000003937587

DTC B1049 – B1052, B1054 – B1057 DRIVER AIRBAG MODULE

The driver air bag module is dual stage and wired to the air bag diagnosis sensor unit through the spiral cable. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the driver air bag module including the spiral cable.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

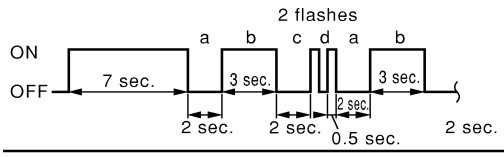
INFOID:0000000003937588

DTC DETECTION LOGIC

With CONSULT-III

CONSULT-III name	DTC	DTC detecting condition	Repair order
DRIVER AIRBAG MODULE [OPEN]	B1049	Driver air bag module circuit (DR1) is open (including the spiral cable).	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the driver air bag module. 4. Replace the spiral cable. 5. Replace the air bag diagnosis sensor unit. 6. Replace the related harness.
	B1054	Driver air bag module circuit (DR2) is open (including the spiral cable).	
DRIVER AIRBAG MODULE [VB-SHORT]	B1050	Driver air bag module circuit (DR1) is shorted to a power supply circuit (including the spiral cable).	
	B1055	Driver air bag module circuit (DR2) is shorted to a power supply circuit (including the spiral cable).	
DRIVER AIRBAG MODULE [GND-SHORT]	B1051	Driver air bag module circuit (DR1) is shorted to ground (including the spiral cable).	
	B1056	Driver air bag module circuit (DR2) is shorted to ground (including the spiral cable).	
DRIVER AIRBAG MODULE [SHORT]	B1052	Driver air bag module circuits (DR1) are shorted to each other (including the spiral cable).	
	B1057	Driver air bag module circuits (DR2) are shorted to each other (including the spiral cable).	

Without CONSULT-III

<Driver air bag module>	
Flash pattern	Repair order
a through d are repeated. d: Two flashes indicate malfunctioning driver air bag module circuits. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the spiral cable. 4. Replace driver air bag module. 5. Replace the air bag diagnosis sensor unit. 6. Replace the related harness.

WHIA0260E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-lll.

Is the DTC detected?

YES >> Refer to SRC-18, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-lll)

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

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5.

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6.

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937589

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2. WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3. DRIVER AIR BAG MODULE

Replace the driver air bag module. Refer to SR-5, "Removal and Installation".

>> GO TO 4

4. SPIRAL CABLE

Replace the spiral cable. Refer to SR-7, "Removal and Installation".

>> GO TO 5

5. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 6

6. RELATED HARNESS

Replace the related harness.

>> **END**

B1065 – B1068, B1070 – B1073 PASSENGER AIRBAG MODULE

Description

INFOID:0000000003937590

DTC B1065 – B1068, B1070 – B1073 PASSENGER AIR BAG MODULE

The passenger air bag module is dual stage and wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the passenger air bag module.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937591

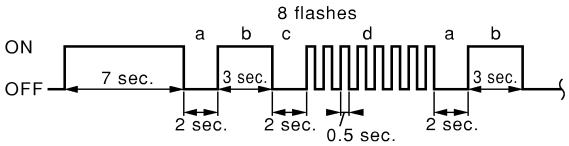
DTC DETECTION LOGIC

With CONSULT-III

CONSULT-III name	DTC	DTC detecting condition	Repair order
ASSIST A/B MODULE [OPEN]	B1065	Front passenger air bag module circuit (AS1) is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the front passenger air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
	B1070	Front passenger air bag module circuit (AS2) is open.	
ASSIST A/B MODULE [VB-SHORT]	B1066	Front passenger air bag module circuit (AS1) is shorted to a power supply circuit.	
	B1071	Front passenger air bag module circuit (AS2) is shorted to a power supply circuit.	
ASSIST A/B MODULE [GND-SHORT]	B1067	Front passenger air bag module circuit (AS1) is shorted to ground.	
	B1072	Front passenger air bag module circuit (AS2) is shorted to ground.	
ASSIST A/B MODULE [SHORT]	B1068	Front passenger air bag module circuits (AS1) are shorted to each other.	
	B1073	Front passenger air bag module circuits (AS2) are shorted to each other.	

Without CONSULT-III

<Front passenger air bag module>

Flash pattern	Repair order
a through d are repeated. d: Eight flashes indicate malfunctioning front passenger air bag module circuit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace front passenger air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

WHIA0261E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-21, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-lll)

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

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937592

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.FRONT PASSENGER AIR BAG MODULE

Replace the front passenger air bag module. Refer to SR-9, "Removal and Installation".

>> GO TO 4

4. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 5

5. RELATED HARNESS

Replace the related harness.

>> **END**

B1134 – B1137 SIDE AIRBAG MODULE LH

Description

INFOID:0000000003937593

DTC B1134 – B1137 FRONT LH SIDE AIR BAG MODULE

The front LH side air bag module is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the front LH side air bag module.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937594

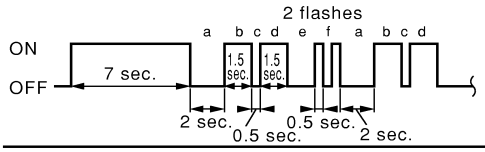
DTC DETECTION LOGIC

With CONSULT-III

CONSULT-III name	DTC	DTC detecting condition	Repair order
SIDE MODULE LH [OPEN]	B1134	Front LH side air bag module circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the front LH seat back assembly. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
SIDE MODULE LH [VB-SHORT]	B1135	Front LH side air bag module circuit is shorted to a power supply circuit.	
SIDE MODULE LH [GND-SHORT]	B1136	Front LH side air bag module circuit is shorted to ground.	
SIDE MODULE LH [SHORT]	B1137	Front LH side air bag module circuits are shorted to each other.	

Without CONSULT-III

<Front LH side air bag module>

Flash pattern	Repair order
a through f are repeated. f: Two flashes indicate malfunctioning front LH side air bag module circuit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace front LH seat back assembly. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

WHIA0265E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-24, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

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

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937595

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.FRONT LH SIDE AIR BAG MODULE

Replace the front LH seat back assembly. Refer to SE-30, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

>> **END**

B1129 – B1132 SIDE AIRBAG MODULE RH

Description

INFOID:0000000003937596

DTC B1129 – B1132 FRONT RH SIDE AIR BAG MODULE

The front RH side air bag module is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the front RH side air bag module.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937597

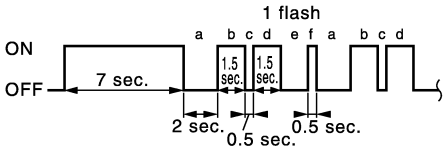
DTC DETECTION LOGIC

With CONSULT-III

CONSULT-III name	DTC	DTC detecting condition	Repair order
SIDE MODULE RH [OPEN]	B1129	Front RH side air bag module circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the front RH seat back assembly. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
SIDE MODULE RH [VB-SHORT]	B1130	Front RH side air bag module circuit is shorted to a power supply circuit.	
SIDE MODULE RH [GND-SHORT]	B1131	Front RH side air bag module circuit is shorted to ground.	
SIDE MODULE RH [SHORT]	B1132	Front RH side air bag module circuits are shorted to each other.	

Without CONSULT-III

<Front RH side air bag module>

Flash pattern	Repair order
a through f are repeated. f: One flash indicate malfunctioning front RH side air bag module circuit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace front RH seat back assembly. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

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DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-27, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

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

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937598

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.FRONT RH SIDE AIR BAG MODULE

Replace the front RH seat back assembly. Refer to SE-30, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

>> **END**

B1198 – B1201 SIDE CURTAIN AIR BAG MODULE LH (FRONT)

Description

INFOID:0000000003937599

DTC B1198 – B1201 LH SIDE CURTAIN AIR BAG MODULE (FRONT)

The LH side curtain air bag module (front) is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the LH side curtain air bag module (front).

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937600

DTC DETECTION LOGIC

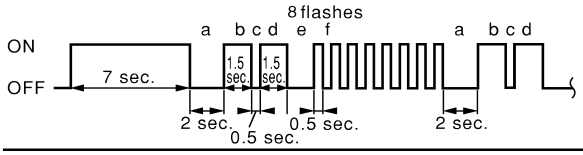
With CONSULT-III

CONSULT-III name	DTC	DTC detecting condition	Repair order
FR CURTN MODULE LH [OPEN]	B1198	LH side curtain air bag module (front) circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the LH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
FR CURTN MODULE LH [VB-SHORT]	B1199	LH side curtain air bag module (front) circuit is shorted to a power supply circuit.	
FR CURTN MODULE LH [GND-SHORT]	B1200	LH side curtain air bag module (front) circuit is shorted to ground.	
FR CURTN MODULE LH [SHORT]	B1201	LH side curtain air bag module (front) circuits are shorted to each other.	

Without CONSULT-III

<LH side curtain air bag module (front)>

Flash pattern	Repair order
a through f are repeated. f: Eight flashes indicate malfunctioning LH side curtain air bag module (front) circuit.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace LH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.



WHIA0255E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-30, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

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

1. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937601

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.LH SIDE CURTAIN AIR BAG MODULE

Replace the LH side curtain air bag module. Refer to SR-12, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

>> **END**

B1193 – B1196 SIDE CURTAIN AIR BAG MODULE RH (FRONT)

Description

INFOID:0000000003937602

DTC B1193 – B1196 RH SIDE CURTAIN AIR BAG MODULE (FRONT)

The RH side curtain air bag module (front) is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the RH side curtain air bag module (front).

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937603

DTC DETECTION LOGIC

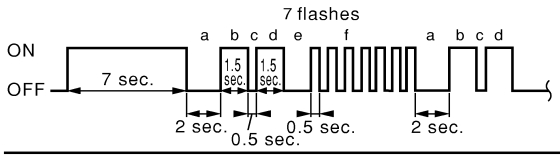
With CONSULT-III

CONSULT-III name	DTC	DTC detecting condition	Repair order
FR CURTN MODULE RH [OPEN]	B1193	RH side curtain air bag module (front) circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
FR CURTN MODULE RH [VB-SHORT]	B1194	RH side curtain air bag module (front) circuit is shorted to a power supply circuit.	
FR CURTN MODULE RH [GND-SHORT]	B1195	RH side curtain air bag module (front) circuit is shorted to ground.	
FR CURTN MODULE RH [SHORT]	B1196	RH side curtain air bag module (front) circuits are shorted to each other.	

Without CONSULT-III

<RH side curtain air bag module (front)>

Flash pattern	Repair order
a through f are repeated. f: Seven flashes indicate malfunctioning RH side curtain air bag module (front) circuit.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace RH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.



WHIA0253E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-33, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

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

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937604

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.RH SIDE CURTAIN AIR BAG MODULE

Replace the RH side curtain air bag module. Refer to SR-12, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

>> **END**

B1150 – B1153 SIDE CURTAIN AIR BAG MODULE LH (REAR)

Description

INFOID:0000000003937605

DTC B1150 – B1153 LH SIDE CURTAIN AIR BAG MODULE (REAR)

The LH side curtain air bag module (rear) is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the LH side curtain air bag module (rear).

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937606

DTC DETECTION LOGIC

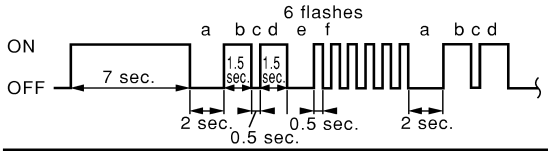
With CONSULT-III

CONSULT-III name	DTC	DTC detecting condition	Repair order
CURTAIN MODULE LH [OPEN]	B1150	LH side curtain air bag module (rear) circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the LH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
CURTAIN MODULE LH [VB-SHORT]	B1151	LH side curtain air bag module (rear) circuit is shorted to a power supply circuit.	
CURTAIN MODULE LH [GND-SHORT]	B1152	LH side curtain air bag module (rear) circuit is shorted to ground.	
CURTAIN MODULE LH [SHORT]	B1153	LH side curtain air bag module (rear) circuits are shorted to each other.	

Without CONSULT-III

<LH side curtain air bag module (rear)>

Flash pattern	Repair order
a through f are repeated. f: Six flashes indicate malfunctioning LH side curtain air bag module (rear) circuit.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace LH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.



WHIA0254E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-36, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

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

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937607

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.LH SIDE CURTAIN AIR BAG MODULE

Replace the LH side curtain air bag module. Refer to SR-12, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

>> **END**

B1145 – B1148 SIDE CURTAIN AIR BAG MODULE RH (REAR)

Description

INFOID:0000000003937608

DTC B1145 – B1148 RH SIDE CURTAIN AIR BAG MODULE (REAR)

The RH side curtain air bag module (rear) is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the RH side curtain air bag module (rear).

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937609

DTC DETECTION LOGIC

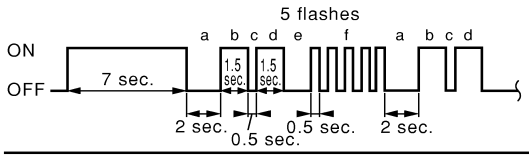
With CONSULT-III

CONSULT-III name	DTC	DTC detecting condition	Repair order
CURTAIN MODULE RH [OPEN]	B1145	RH side curtain air bag module (rear) circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
CURTAIN MODULE RH [VB-SHORT]	B1146	RH side curtain air bag module (rear) circuit is shorted to a power supply circuit.	
CURTAIN MODULE RH [GND-SHORT]	B1147	RH side curtain air bag module (rear) circuit is shorted to ground.	
CURTAIN MODULE RH [SHORT]	B1148	RH side curtain air bag module (rear) circuits are shorted to each other.	

Without CONSULT-III

<RH side curtain air bag module (rear)>

Flash pattern	Repair order
a through f are repeated. f: Five flashes indicate malfunctioning RH side curtain air bag module (rear) circuit.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace RH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.



WHIA0252E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-39, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

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

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937610

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.RH SIDE CURTAIN AIR BAG MODULE

Replace the RH side curtain air bag module. Refer to SR-12, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

>> **END**

B1086 – B1089 SEAT BELT PRE-TENSIONER LH

Description

INFOID:0000000003937611

DTC B1086 – B1089 SEAT BELT PRE-TENSIONER LH

The seat belt pre-tensioner LH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the seat belt pre-tensioner LH.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937612

DTC DETECTION LOGIC

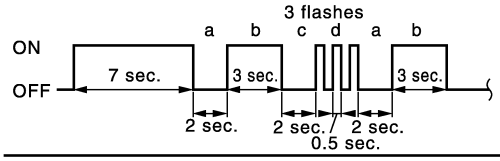
With CONSULT-III

CONSULT-III name	DTC	DTC detecting condition	Repair order
PRE-TEN FRONT LH [OPEN]	B1086	LH seat belt pre-tensioner circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the front LH seat belt pre-tensioner. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
PRE-TEN FRONT LH [VB-SHORT]	B1087	LH seat belt pre-tensioner circuit is shorted to a power supply circuit.	
PRE-TEN FRONT LH [GND-SHORT]	B1088	LH seat belt pre-tensioner circuit is shorted to ground.	
PRE-TEN FRONT LH [SHORT]	B1089	LH seat belt pre-tensioner circuits are shorted to each other.	

Without CONSULT-III

<Front LH seat belt pre-tensioner>

Flash pattern	Repair order
a through d are repeated. d: Three flashes indicate malfunctioning front LH seat belt pre-tensioner circuit.	1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace front LH seat belt pre-tensioner. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.



WHIA0263E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-42, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

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

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937613

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.FRONT LH SEAT BELT PRE-TENSIONER

Replace the front LH seat belt pre-tensioner. Refer to SR-15, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

>> **END**

B1081 – B1084 SEAT BELT PRE-TENSIONER RH

Description

INFOID:0000000003937614

DTC B1081 – B1084 SEAT BELT PRE-TENSIONER RH

The seat belt pre-tensioner RH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the seat belt pre-tensioner RH.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937615

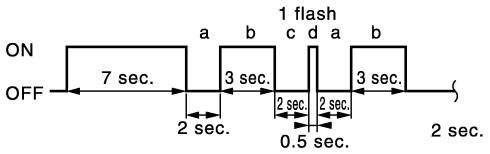
DTC DETECTION LOGIC

With CONSULT-III

CONSULT-III name	DTC	DTC detecting condition	Repair order
PRE-TEN FRONT RH [OPEN]	B1081	RH seat belt pre-tensioner circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the front RH seat belt pre-tensioner. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
PRE-TEN FRONT RH [VB-SHORT]	B1082	RH seat belt pre-tensioner circuit is shorted to a power supply circuit.	
PRE-TEN FRONT RH [GND-SHORT]	B1083	RH seat belt pre-tensioner circuit is shorted to ground.	
PRE-TEN FRONT RH [SHORT]	B1084	RH seat belt pre-tensioner circuits are shorted to each other.	

Without CONSULT-III

<Front RH seat belt pre-tensioner>

Flash pattern	Repair order
a through d are repeated. d: One flash indicates malfunctioning front RH seat belt pre-tensioner circuit. 	1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace front RH seat belt pre-tensioner. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

WHIA0262E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-45, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

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

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937616

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.FRONT RH SEAT BELT PRE-TENSIONER

Replace the front RH seat belt pre-tensioner. Refer to SR-15, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

>> **END**

B1033 – B1035 CRASH ZONE SENSOR

Description

INFOID:0000000003937617

DTC B1033 – B1035 CRASH ZONE SENSOR

The crash zone sensor is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the crash zone sensor.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937618

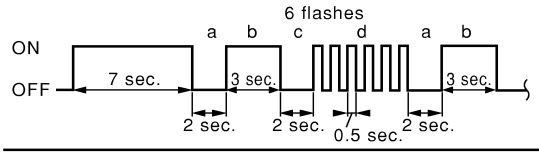
DTC DETECTION LOGIC

With CONSULT-III

CONSULT-III name	DTC	DTC detecting condition	Repair order
CRASH ZONE SEN [UNIT FAIL]	B1033	Crash zone sensor has malfunctioned.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the crash zone sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
	B1034		
CRASH ZONE SEN [COMM FAIL]	B1035	Crash zone sensor communication error.	

Without CONSULT-III

<Crash zone sensor>

Flash pattern	Repair order
a through d are repeated. d: Six flashes indicate malfunctioning crash zone sensor circuit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the crash zone sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

WHIA0200E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-48, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

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

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937619

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.CRASH ZONE SENSOR

Replace the crash zone sensor. Refer to SR-13, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

>> **END**

B1118 – B1120 SATELLITE SENSOR LH

Description

INFOID:0000000003937620

DTC B1118 – B1120 SATELLITE SENSOR LH

The satellite sensor LH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor the satellite sensor LH for internal failures and it's circuits for communication errors.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

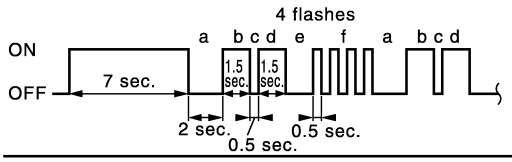
INFOID:0000000003937621

DTC DETECTION LOGIC

With CONSULT-lll

CONSULT-III name	DTC	DTC detecting condition	Repair order
SATELLITE SENS LH [UNIT FAIL]	B1118	LH side air bag satellite sensor has malfunctioned.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the LH side air bag satellite sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
	B1119		
SATELLITE SENS LH [COMM FAIL]	B1120	LH side air bag satellite sensor communication error.	

Without CONSULT-lll

<LH side air bag (Satellite) sensor>	
Flash pattern	Repair order
a through f are repeated. f: Four flashes indicate malfunctioning LH side air bag (Satellite) sensor. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the LH side air bag (Satellite) sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

WHIA0204E

DTC CONFIRMATION PROCEDURE (With CONSULT-lll)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-lll.

Is the DTC detected?

YES >> Refer to SRC-51, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-lll)

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

1. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937622

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.LH SIDE AIR BAG SATELLITE SENSOR

Replace the LH side air bag satellite sensor. Refer to SR-14, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

>> **END**

B1113 – B1115 SATELLITE SENSOR RH

Description

INFOID:0000000003937623

DTC B1113 – B1115 SATELLITE SENSOR RH

The satellite sensor RH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor the satellite sensor RH for internal failures and it's circuits for communication errors.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

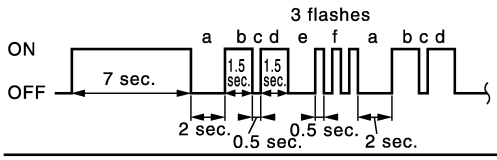
INFOID:0000000003937624

DTC DETECTION LOGIC

With CONSULT-lll

CONSULT-III name	DTC	DTC detecting condition	Repair order
SATELLITE SENS RH [UNIT FAIL]	B1113	RH side air bag satellite sensor has malfunctioned.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH side air bag satellite sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
	B1114		
SATELLITE SENS RH [COMM FAIL]	B1115	RH side air bag satellite sensor communication error.	

Without CONSULT-lll

<RH side air bag (Satellite) sensor>	
Flash pattern	Repair order
a through f are repeated. f: Three flashes indicate malfunctioning RH side air bag (Satellite) sensor circuit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH side air bag (Satellite) sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

WHIA0203E

DTC CONFIRMATION PROCEDURE (With CONSULT-lll)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-lll.

Is the DTC detected?

YES >> Refer to SRC-54, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-lll)

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

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937625

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.RH SIDE AIR BAG SATELLITE SENSOR

Replace the RH side air bag satellite sensor. Refer to SR-14, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

>> **END**

B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

Description

INFOID:0000000003937626

DTC B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

The air bag diagnosis sensor unit will run self diagnostics when the ignition switch is turned ON. It has the potential to set many diagnostic trouble codes which will conform to the B1XXX format, but will not match any other SRS diagnostic trouble codes. Refer to SRC-15, "CONSULT-III Function (AIR BAG)".

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937627

DTC DETECTION LOGIC

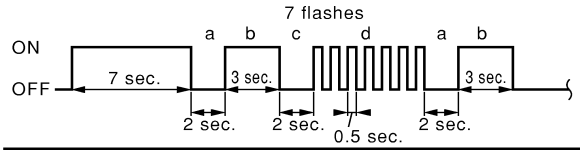
With CONSULT-lll

CONSULT-III name	DTC	DTC detecting condition	Repair order
CONTROL UNIT	B1XXX	Air bag diagnosis sensor unit is malfunctioning.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the air bag diagnosis sensor unit. 4. Replace the related harness.

Without CONSULT-lll

<Air bag diagnosis sensor unit>

Flash pattern	Repair order
a through d are repeated. d: Seven flashes indicate malfunctioning diagnosis sensor unit circuit.	1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace the air bag diagnosis sensor unit. 4. Replace the related harness.



WHIA0198E

DTC CONFIRMATION PROCEDURE (With CONSULT-lll)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-lll.

Is the DTC detected?

YES >> Refer to SRC-57, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-lll)

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

1. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937628

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 4

4.RELATED HARNESS

Replace the related harness.

>> **END**

B1023 PASSENGER AIR BAG OFF INDICATOR

Description

INFOID:0000000003937629

DTC B1023 FRONT PASSENGER AIR BAG OFF INDICATOR

The front passenger air bag off indicator is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit monitors the front passenger air bag off indicator and circuit for failures.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937630

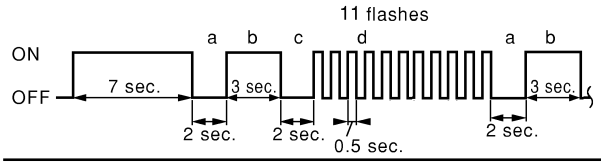
DTC DETECTION LOGIC

With CONSULT-lll

CONSULT-III name	DTC	DTC detecting condition	Repair order
PASS A/B INDCTR CKT	B1023	Front passenger air bag off indicator is malfunctioning.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the front passenger air bag off indicator. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

Without CONSULT-lll

<Front passenger air bag off indicator>

Flash pattern	Repair order
a through d are repeated. d: Eleven flashes indicate malfunctioning front passenger air bag off indicator. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace front passenger air bag off indicator. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

WHIA0212E

DTC CONFIRMATION PROCEDURE (With CONSULT-lll)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-lll.

Is the DTC detected?

YES >> Refer to SRC-59, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-lll)

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

1. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diagnosis without CONSULT-III".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937631

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2.WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3.FRONT PASSENGER AIR BAG OFF INDICATOR

Replace the front passenger air bag off indicator. Refer to IP-11, "Removal and Installation".

>> GO TO 4

4.AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> GO TO 5

5.RELATED HARNESS

Replace the related harness.

>> **END**

B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM

Description

INFOID:0000000003937632

DTC B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM (OCS)

The OCS control unit is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor the OCS for failures and interuptions in communication between the OCS control unit and the air bag diagnosis sensor unit.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937633

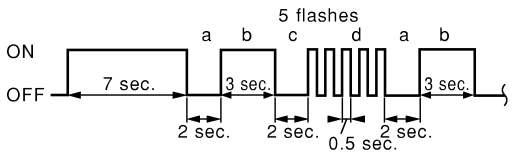
DTC DETECTION LOGIC

With CONSULT-lll

CONSULT-III name	DTC	DTC detecting condition	Repair order
OCCUPANT SENS C/U [UNIT FAIL]	B1017 B1020 B1021	The OCS control unit is malfunctioning.	1. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly.
OCCUPANT SENS [UNIT FAIL]	B1018	The OCS sensor is malfunctioning.	
BELT TENSION SENS [UNIT FAIL]	B1019	The belt tension sensor is malfunctioning.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH front seat belt assembly. 4. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly. 5. Replace the related harness.
OCCUPANT SENS C/U [COMM FAIL]	B1022	Communication between the OCS control unit and the air bag diagnosis sensor unit is interrupted.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

Without CONSULT-lll

<Occupant classification system>

Flash pattern	Repair order
a through d are repeated. d: Five flashes indicate malfuntioning occupant classification system control unit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH front seat cushion occupant classification system control unit assembly. 4. Replace the air bag diagnosis sensor unit.

WHIA0211E

DTC CONFIRMATION PROCEDURE (With CONSULT-lll)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-lll.

Is the DTC detected?

YES >> Refer to SRC-62, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-lll)

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

1.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2.IGNITION SWITCH

After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4.REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5.IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6.DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-7, "SRS Component Parts Location".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937634

Recheck SRS after each replacement.

1.DTC

Does CONSULT-III indicate B1019 or B1022?

YES or NO

YES >> GO TO 2
NO >> GO TO 6

2.HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

3. WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

YES >> Replace the harness.
NO >> GO TO 4

4. DTC

Does CONSULT-III indicate B1022?

YES or NO

YES >> GO TO 6
NO >> GO TO 5

5. REPLACE RH FRONT SEAT BELT ASSEMBLY

Replace the RH front seat belt assembly.

>> GO TO 6

6. REPLACE RH FRONT SEAT CUSHION ASSEMBLY

Replace the RH front seat cushion assembly. Refer to SE-30, "Removal and Installation".

>> GO TO 7

7. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

>> **END.**

B1209 – B1211 COLLISION DETECTION

Description

INFOID:0000000003937635

DTC B1209 - B1211 COLLISION DETECTION

The air bag diagnosis sensor unit will set this DTC if it has detected a collision or rollover which has resulted in a deployment of one or more air bags or pre-tensioners. If this DTC is detected after a SRS repair, the air bag diagnosis sensor unit has not yet been replaced. This DTC can not be erased.

PART LOCATION

Refer to SRC-7, "SRS Component Parts Location".

DTC Logic

INFOID:0000000003937636

DTC DETECTION LOGIC

With CONSULT-lll

CONSULT-III name	DTC	DTC detecting condition	Repair order
FRONTAL COLLISION DETECTION	B1209	Driver and/or front passenger air bag modules are deployed.	Refer to SR-18, "For Frontal Collision".
SIDE COLLISION DETECTION	B1210	Side and/or curtain air bag modules are deployed.	Refer to SR-19, "For Side and Rollover Collision".
ROLLOVER DETECTION	B1211	Curtain air bag module and seat belt pre-tensioner are deployed.	

DTC CONFIRMATION PROCEDURE (With CONSULT-lll)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-lll.

Is the DTC detected?

YES >> Refer to SRC-64, "Diagnosis Procedure (Component Diagnosis)".
NO >> Inspection End.

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000003937637

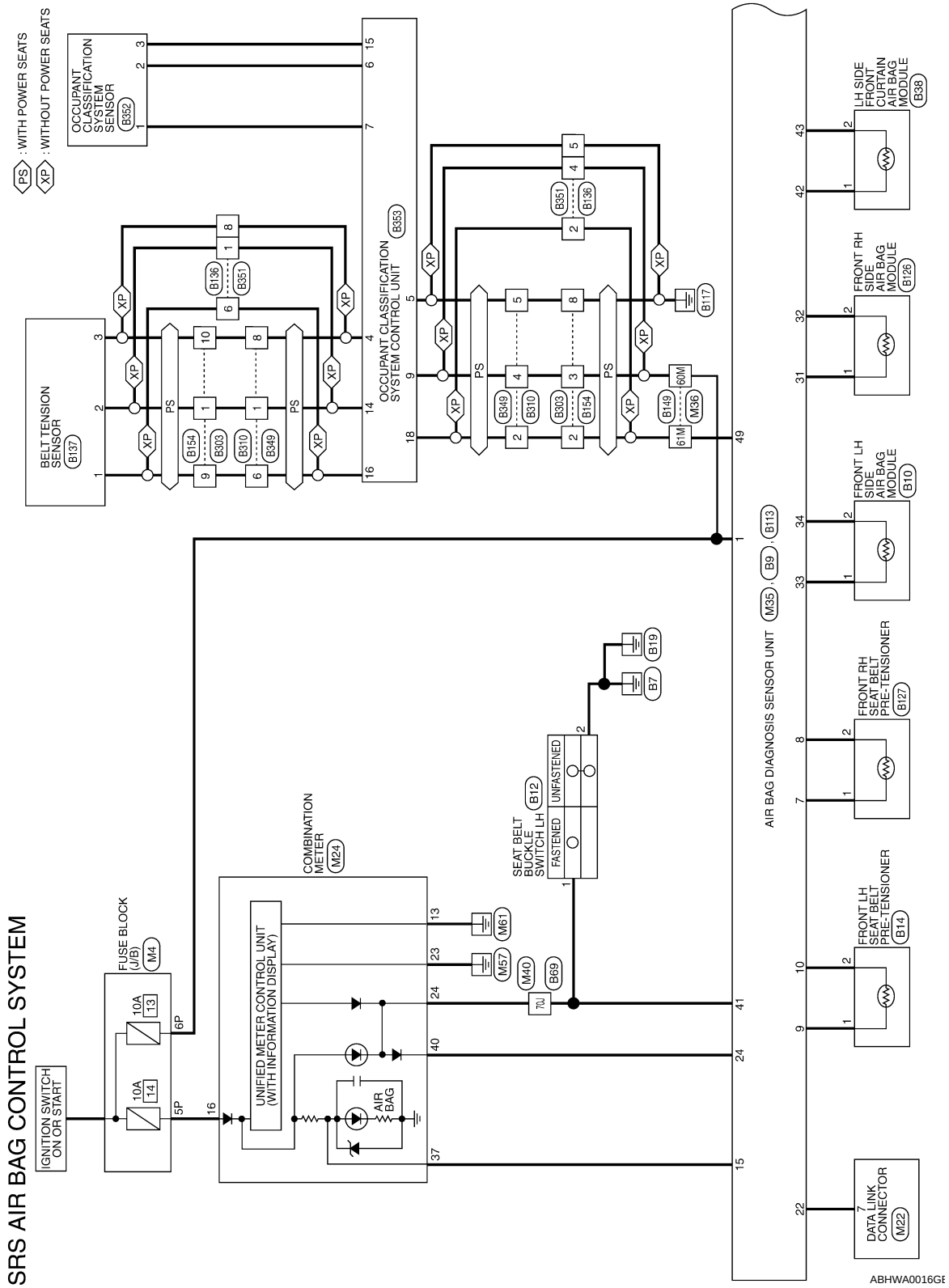
Refer to SR-18, "For Frontal Collision" or SR-19, "For Side and Rollover Collision".

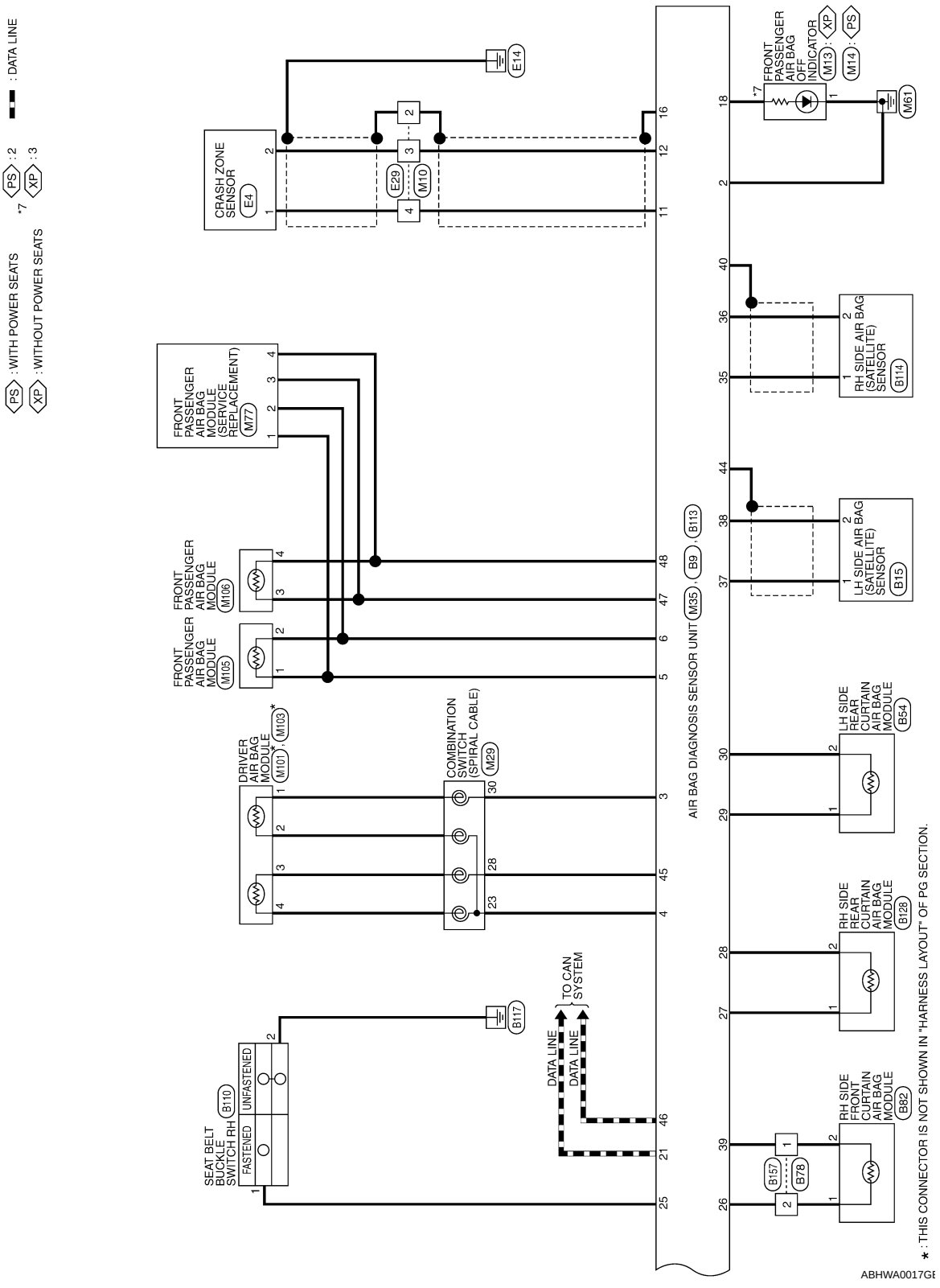
ECU DIAGNOSIS

DIAGNOSIS SENSOR UNIT

Wiring Diagram

INFOID:0000000003937638

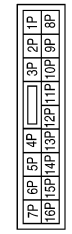



PS : WITH POWER SEATS
XP : WITHOUT POWER SEATS
*7 PS : 2 XP : 3
: DATA LINE
CRASH ZONE SENSOR E4
E14
E29
M10
FRONT PASSENGER AIR BAG MODULE (SERVICE REPLACEMENT) M77
FRONT PASSENGER AIR BAG MODULE M106
FRONT PASSENGER AIR BAG MODULE M105
DRIVER AIR BAG MODULE M101 M103*
COMBINATION SWITCH (SPIRAL CABLE) M29
SEAT BELT BUCKLE SWITCH RH B110
FASTENED
UNFASTENED
B117
DATA LINE
TO CAN SYSTEM
AIR BAG DIAGNOSIS SENSOR UNIT M35 , B9 , B113
FRONT PASSENGER AIR BAG OFF INDICATOR M13 : XP M14 : PS
M61
RH SIDE AIR BAG (SATELLITE) SENSOR B114
LH SIDE AIR BAG (SATELLITE) SENSOR B15
LH SIDE REAR CURTAIN AIR BAG MODULE B54
RH SIDE REAR CURTAIN AIR BAG MODULE B128
RH SIDE FRONT CURTAIN AIR BAG MODULE B82
B157
B78
* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.
ABHWA0017GB

SRS AIR BAG CONTROL SYSTEM CONNECTORS

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE

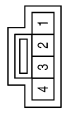
H.S.



Terminal No.	Color of Wire	Signal Name
5P	W/G	–
6P	W/R	–

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	YELLOW

H.S.



Terminal No.	Color of Wire	Signal Name
2	SHIELD	–
3	B	–
4	W	–

Connector No.	M13
Connector Name	FRONT PASSENGER AIR BAG OFF INDICATOR (WITHOUT POWER SEATS)
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	–
3	O	–

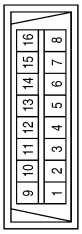
Connector No.	M14
Connector Name	FRONT PASSENGER AIR BAG OFF INDICATOR (WITH POWER SEATS)
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	–
2	O	–

Connector No.	M22
Connector Name	DATA LINK CONNECTOR
Connector Color	WHITE

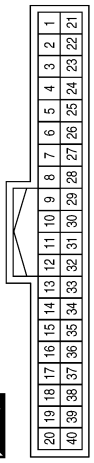
H.S.



Terminal No.	Color of Wire	Signal Name
7	W	–

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
13	GR	GROUND
16	W/G	RUN/START
23	B	POWER GROUND
24	V	BUCKLE (SEATBELT) SW
37	SB	AIRBAG CONT
40	LG	PASS SEATBELT

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Terminal No.	Color of Wire	Signal Name
13	–	–
14	–	–
15	SB	WARN LP
16	SHIELD	GND
17	–	–
18	O	CUT OFF TELLTALE
19	–	–
20	–	–
21	L	CAN-H
22	SB	K LINE
23	–	–
24	LG	SEATBELT REMINDER AS
45	Y/G	INFLATOR DR2 (+)
46	P	CAN-L
47	Y/B	INFLATOR AS2 (+)
48	Y	INFLATOR AS2 (-)
49	Y/B	ODS INPUT
50	–	–
51	–	–
52	–	–

Connector No.	M35
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color	YELLOW

Terminal No.	Color of Wire	Signal Name
1	W/R	IGN
2	B	GND
3	Y/R	INFLATOR DR1+
4	Y	INFLATOR DR1 (-),DR2 (-)
5	Y/R	INFLATOR AS1+
6	Y/G	INFLATOR AS1-
11	W	ECZS+
12	B	ECZS-

Connector No.	M29
Connector Name	COMBINATION SWITCH
Connector Color	YELLOW

Terminal No.	Color of Wire	Signal Name
23	Y	–
28	Y/G	–
30	Y/R	–

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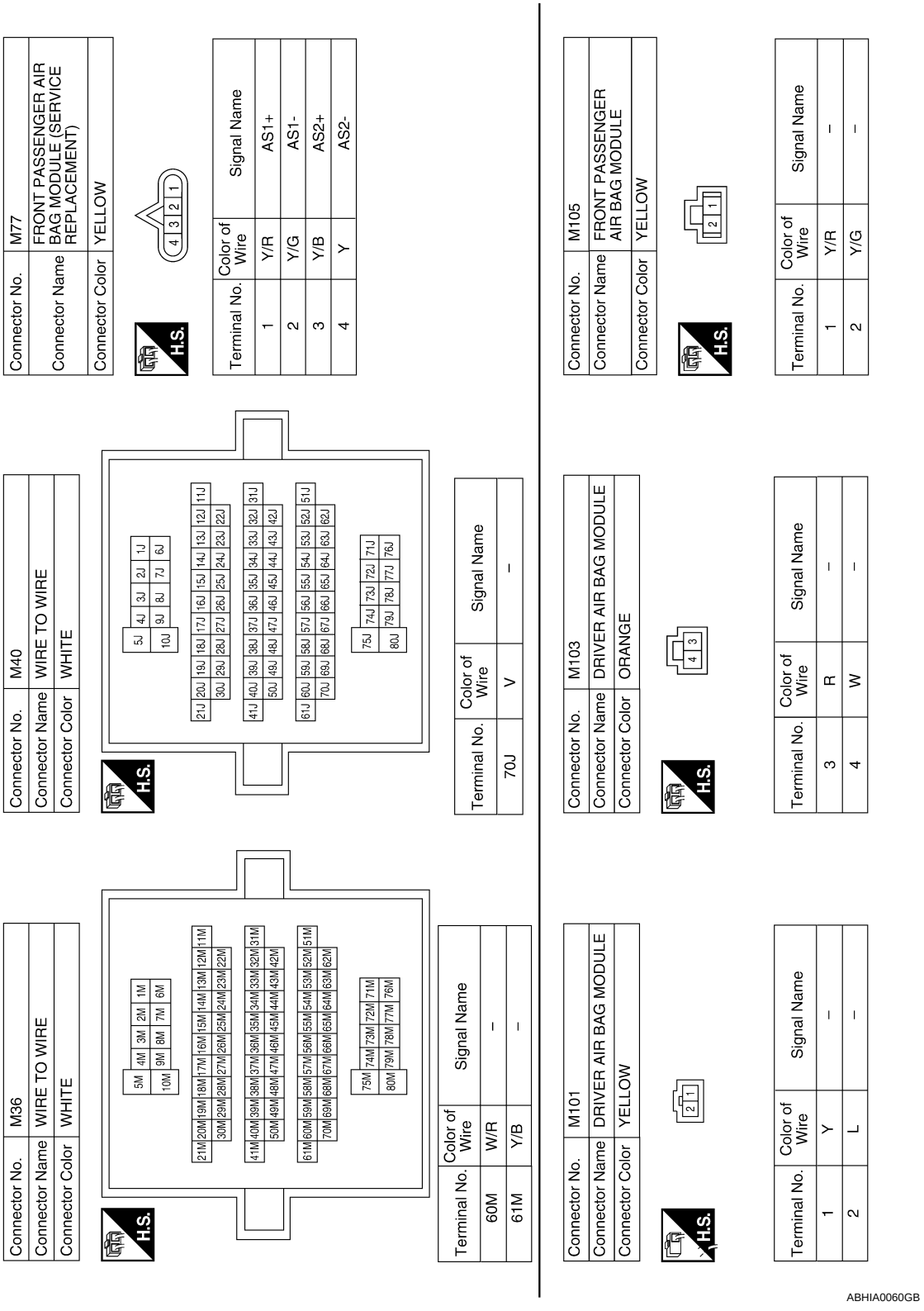
Connector No. M77
Connector Name FRONT PASSENGER AIR BAG MODULE (SERVICE REPLACEMENT)
Connector Color YELLOW
H.S.
4 3 2 1
Terminal No. | Color of Wire | Signal Name
1 | Y/R | AS1+
2 | Y/G | AS1-
3 | Y/B | AS2+
4 | Y | AS2-
Connector No. M40
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
5J 4J 3J 2J 1J
10J 9J 8J 7J 6J
21J 20J 19J 18J 17J 16J 15J 14J 13J 12J 11J
30J 29J 28J 27J 26J 25J 24J 23J 22J
41J 40J 39J 38J 37J 36J 35J 34J 33J 32J 31J
50J 49J 48J 47J 46J 45J 44J 43J 42J
61J 60J 59J 58J 57J 56J 55J 54J 53J 52J 51J
70J 69J 68J 67J 66J 65J 64J 63J 62J
75J 74J 73J 72J 71J
80J 79J 78J 77J 76J
Terminal No. | Color of Wire | Signal Name
70J | V | –
Connector No. M105
Connector Name FRONT PASSENGER AIR BAG MODULE
Connector Color YELLOW
H.S.
2 1
Terminal No. | Color of Wire | Signal Name
1 | Y/R | –
2 | Y/G | –
Connector No. M36
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
5M 4M 3M 2M 1M
10M 9M 8M 7M 6M
21M 20M 19M 18M 17M 16M 15M 14M 13M 12M 11M
30M 29M 28M 27M 26M 25M 24M 23M 22M
41M 40M 39M 38M 37M 36M 35M 34M 33M 32M 31M
50M 49M 48M 47M 46M 45M 44M 43M 42M
61M 60M 59M 58M 57M 56M 55M 54M 53M 52M 51M
70M 69M 68M 67M 66M 65M 64M 63M 62M
75M 74M 73M 72M 71M
80M 79M 78M 77M 76M
Terminal No. | Color of Wire | Signal Name
60M | W/R | –
61M | Y/B | –
Connector No. M103
Connector Name DRIVER AIR BAG MODULE
Connector Color ORANGE
H.S.
4 3
Terminal No. | Color of Wire | Signal Name
3 | R | –
4 | W | –
Connector No. M101
Connector Name DRIVER AIR BAG MODULE
Connector Color YELLOW
H.S.
2 1
Terminal No. | Color of Wire | Signal Name
1 | Y | –
2 | L | –
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Connector No.	E29
Connector Name	WIRE TO WIRE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
2	SHIELD	–
3	B	–
4	W	–

Connector No.	E4
Connector Name	CRASH ZONE SENSOR
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	–
2	B	–

Connector No.	M106
Connector Name	FRONT PASSENGER AIR BAG MODULE
Connector Color	ORANGE

H.S.

Terminal No.	Color of Wire	Signal Name
3	Y/B	–
4	Y	–

Connector No.	B10
Connector Name	FRONT LH SIDE AIR BAG MODULE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y/B	+
2	Y	-

Terminal No.	Color of Wire	Signal Name
29	Y/G	C-LH1(+)
30	Y	C-LH1(-)
33	Y/B	S-LH1 (+)
34	Y	S-LH1 (-)
37	BR	SATELLITE LH (+)
38	R	SATELLITE LH (-)
41	O	BUCKLE SW LH
42	Y/B	C-LH2 (+)
43	Y/R	C-LH2 (-)
44	SHIELD	GND

Connector No.	B9
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
9	Y	P-LH 1(+)
10	Y/B	P-LH 1 (-)

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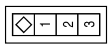
Connector No.	B12
Connector Name	SEAT BELT BUCKLE SWITCH LH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	O	–
2	B	–

Connector No.	B14
Connector Name	FRONT LH SEAT BELT PRE-TENSIONER
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	Y/B	–

Connector No.	B15
Connector Name	LH SIDE AIR BAG (SATELLITE) SENSOR
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	BR	AGR (+)
2	Y	AGR (-)

Connector No.	B38
Connector Name	LH SIDE FRONT CURTAIN AIR BAG MODULE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y/B	–
2	Y/R	–

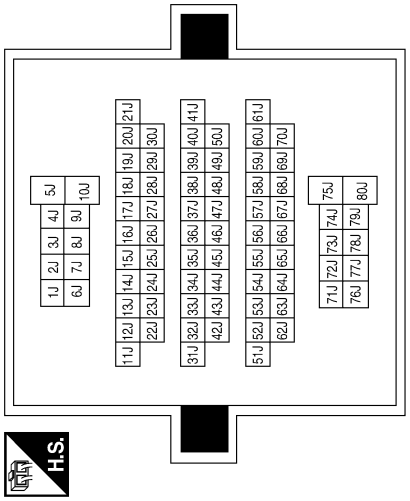
Connector No.	B54
Connector Name	LH SIDE REAR CURTAIN AIR BAG MODULE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y/G	–
2	Y	–

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
70J	V	–

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Connector No.	B110
Connector Name	SEAT BELT BUCKLE SWITCH RH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	–
2	B	–

Connector No.	B82
Connector Name	RH SIDE FRONT CURTAIN AIR BAG MODULE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y/G	–
2	Y/R	–

Connector No.	B114
Connector Name	RH SIDE AIR BAG (SAT ELLITE) SENSOR
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	DGR (+)
2	B	DGR (-)

Connector No.	B78
Connector Name	WIRE TO WIRE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y/R	–
2	Y/G	–

Terminal No.	Color of Wire	Signal Name
25	L	BUCKLE SW AS
26	Y/G	C-RH2 (+)
27	Y	C-RH1 (+)
28	Y/B	C-RH1 (-)
31	Y/B	S-RH1 (+)
32	Y	S-RH1 (-)
35	W	SATELLITE RH (+)
36	B	SATELLITE RH (-)
39	Y/R	C-RH2 (-)
40	SHIELD	GND

Connector No.	B113
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
7	Y	P-RH1 (+)
8	Y/G	P-RH1 (-)

ABHIA0063GB

Connector No.	B128
Connector Name	RH SIDE REAR CURTAIN AIR BAG MODULE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	Y/B	–

Connector No.	B127
Connector Name	FRONT RH SEAT BELT PRE-TENSIONER
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	Y/G	–

Connector No.	B126
Connector Name	FRONT RH SIDE AIR BAG MODULE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y/B	+
2	Y	-

Connector No.	B137
Connector Name	BELT TENSION SENSOR
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	–
2	G	–
3	L	–

Connector No.	B136
Connector Name	WIRE TO WIRE (WITHOUT POWER SEATS)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	–
2	Y/B	–
4	W/R	–
5	B	–
6	LG	–
8	L	–

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Connector No.	B154
Connector Name	WIRE TO WIRE (WITH POWER SEATS)
Connector Color	

H.S.

7	6	5	4		3	2	1
16	15	14	13	12	11	10	9	8

Terminal No.	Color of Wire	Signal Name
1	G	–
2	Y/B	–
3	W/R	–
8	B	–
9	LG	–
10	L	–

Connector No.	B310
Connector Name	WIRE TO WIRE (WITH POWER SEATS)
Connector Color	WHITE

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	B/Y	–
2	O	–
4	V/W	–
5	B	–
6	Y/W	–
8	Y/B	–

Terminal No.	Color of Wire	Signal Name
60M	W/R	–
61M	Y/B	–

Connector No.	B303
Connector Name	WIRE TO WIRE (WITH POWER SEATS)
Connector Color	WHITE

H.S.

1	2	3		4	5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name
1	B/Y	–
2	O	–
3	V/W	–
8	B	–
9	Y/W	–
10	Y/B	–

Connector No.	B149
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1M	2M	3M	4M		5M
6M	7M	8M	9M		10M

11M	12M	13M	14M	15M	16M	17M	18M	19M	20M	21M
	22M	23M	24M	25M	26M	27M	28M	29M	30M	

31M	32M	33M	34M	35M	36M	37M	38M	39M	40M	41M
	42M	43M	44M	45M	46M	47M	48M	49M	50M	

51M	52M	53M	54M	55M	56M	57M	58M	59M	60M	61M
	62M	63M	64M	65M	66M	67M	68M	69M	70M	

71M	72M	73M	74M	75M
76M	77M	78M	79M	80M

Connector No.	B157
Connector Name	WIRE TO WIRE
Connector Color	YELLOW

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	Y/R	+
2	Y/G	-

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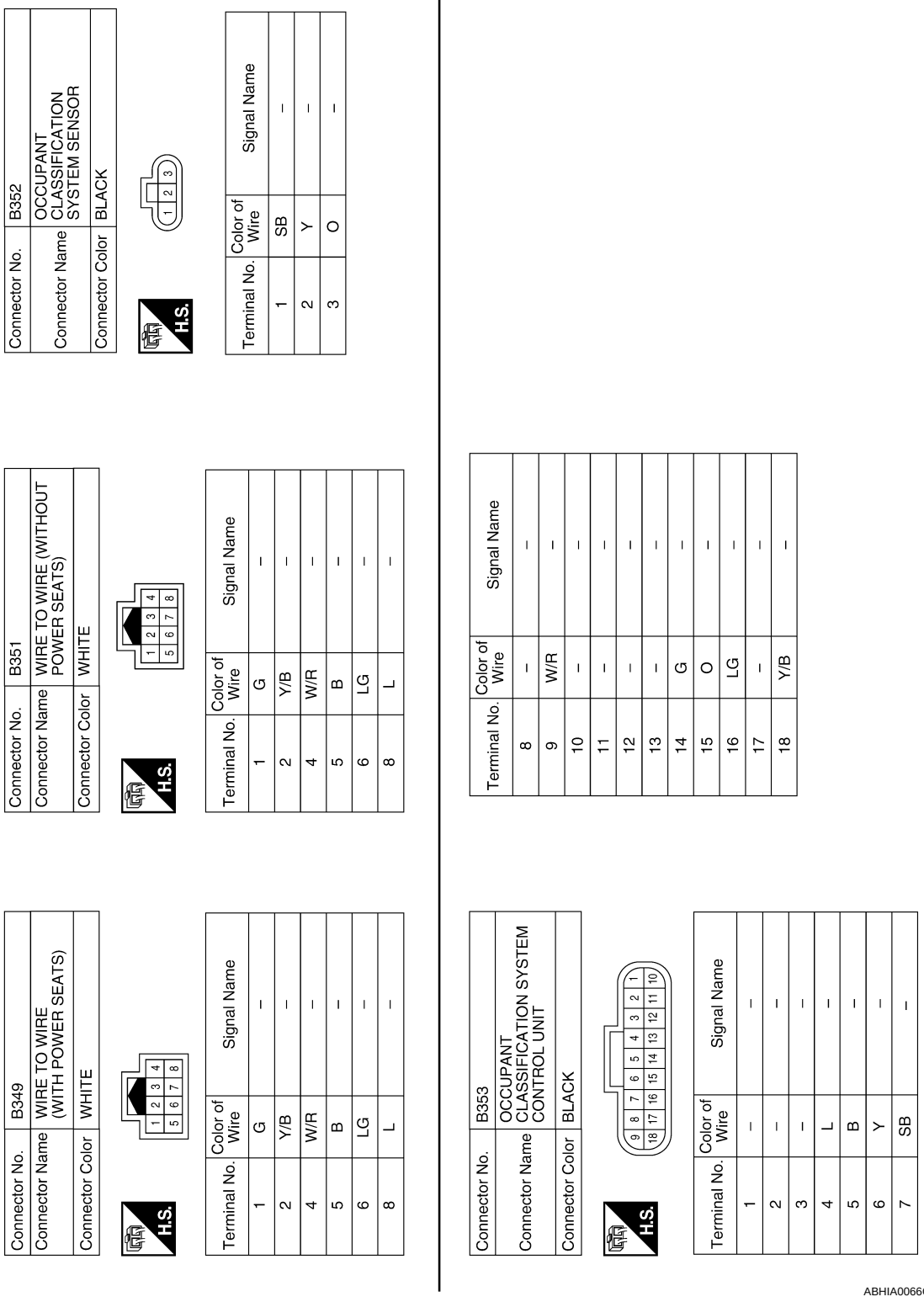

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Trouble Diagnosis with CONSULT-III

INFOID:0000000003937639

DIAGNOSTIC CODE CHART

NOTE:

Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using air bag warning lamp or CONSULT-III each time repair is finished. If malfunction is still observed, proceed to the next step. When malfunction is eliminated, further repair work is not required.

CONSULT-III name	DTC	DTC detecting condition	Repair order
DRIVER AIRBAG MODULE [OPEN]	B1049	Driver air bag module circuit (DR1) is open (including the spiral cable).	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the driver air bag module. 4. Replace the spiral cable. 5. Replace the air bag diagnosis sensor unit. 6. Replace the related harness.
	B1054	Driver air bag module circuit (DR2) is open (including the spiral cable).	
DRIVER AIRBAG MODULE [VB-SHORT]	B1050	Driver air bag module circuit (DR1) is shorted to a power supply circuit (including the spiral cable).	
	B1055	Driver air bag module circuit (DR2) is shorted to a power supply circuit (including the spiral cable).	
DRIVER AIRBAG MODULE [GND-SHORT]	B1051	Driver air bag module circuit (DR1) is shorted to ground (including the spiral cable).	
	B1056	Driver air bag module circuit (DR2) is shorted to ground (including the spiral cable).	
DRIVER AIRBAG MODULE [SHORT]	B1052	Driver air bag module circuits (DR1) are shorted to each other (including the spiral cable).	
	B1057	Driver air bag module circuits (DR2) are shorted to each other (including the spiral cable).	
ASSIST A/B MODULE [OPEN]	B1065	Front passenger air bag module circuit (AS1) is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the front passenger air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
	B1070	Front passenger air bag module circuit (AS2) is open.	
ASSIST A/B MODULE [VB-SHORT]	B1066	Front passenger air bag module circuit (AS1) is shorted to a power supply circuit.	
	B1071	Front passenger air bag module circuit (AS2) is shorted to a power supply circuit.	
ASSIST A/B MODULE [GND-SHORT]	B1067	Front passenger air bag module circuit (AS1) is shorted to ground.	
	B1072	Front passenger air bag module circuit (AS2) is shorted to ground.	
ASSIST A/B MODULE [SHORT]	B1068	Front passenger air bag module circuits (AS1) are shorted to each other.	
	B1073	Front passenger air bag module circuits (AS2) are shorted to each other.	
SIDE MODULE LH [OPEN]	B1134	Front LH side air bag module circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the front LH seat back assembly. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
SIDE MODULE LH [VB-SHORT]	B1135	Front LH side air bag module circuit is shorted to a power supply circuit.	
SIDE MODULE LH [GND-SHORT]	B1136	Front LH side air bag module circuit is shorted to ground.	
SIDE MODULE LH [SHORT]	B1137	Front LH side air bag module circuits are shorted to each other.	

CONSULT-III name	DTC	DTC detecting condition	Repair order
SIDE MODULE RH [OPEN]	B1129	Front RH side air bag module circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the front RH seat back assembly. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
SIDE MODULE RH [VB-SHORT]	B1130	Front RH side air bag module circuit is shorted to a power supply circuit.	
SIDE MODULE RH [GND-SHORT]	B1131	Front RH side air bag module circuit is shorted to ground.	
SIDE MODULE RH [SHORT]	B1132	Front RH side air bag module circuits are shorted to each other.	
FR CURTN MODULE LH [OPEN]	B1198	LH side curtain air bag module (front) circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the LH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
FR CURTN MODULE LH [VB-SHORT]	B1199	LH side curtain air bag module (front) circuit is shorted to a power supply circuit.	
FR CURTN MODULE LH [GND-SHORT]	B1200	LH side curtain air bag module (front) circuit is shorted to ground.	
FR CURTN MODULE LH [SHORT]	B1201	LH side curtain air bag module (front) circuits are shorted to each other.	
FR CURTN MODULE RH [OPEN]	B1193	RH side curtain air bag module (front) circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
FR CURTN MODULE RH [VB-SHORT]	B1194	RH side curtain air bag module (front) circuit is shorted to a power supply circuit.	
FR CURTN MODULE RH [GND-SHORT]	B1195	RH side curtain air bag module (front) circuit is shorted to ground.	
FR CURTN MODULE RH [SHORT]	B1196	RH side curtain air bag module (front) circuits are shorted to each other.	
CURTAIN MODULE LH [OPEN]	B1150	LH side curtain air bag module (rear) circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the LH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
CURTAIN MODULE LH [VB-SHORT]	B1151	LH side curtain air bag module (rear) circuit is shorted to a power supply circuit.	
CURTAIN MODULE LH [GND-SHORT]	B1152	LH side curtain air bag module (rear) circuit is shorted to ground.	
CURTAIN MODULE LH [SHORT]	B1153	LH side curtain air bag module (rear) circuits are shorted to each other.	
CURTAIN MODULE RH [OPEN]	B1145	RH side curtain air bag module (rear) circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
CURTAIN MODULE RH [VB-SHORT]	B1146	RH side curtain air bag module (rear) circuit is shorted to a power supply circuit.	
CURTAIN MODULE RH [GND-SHORT]	B1147	RH side curtain air bag module (rear) circuit is shorted to ground.	
CURTAIN MODULE RH [SHORT]	B1148	RH side curtain air bag module (rear) circuits are shorted to each other.	
PRE-TEN FRONT LH [OPEN]	B1086	LH seat belt pre-tensioner circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the front LH seat belt pre-tensioner. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
PRE-TEN FRONT LH [VB-SHORT]	B1087	LH seat belt pre-tensioner circuit is shorted to a power supply circuit.	
PRE-TEN FRONT LH [GND-SHORT]	B1088	LH seat belt pre-tensioner circuit is shorted to ground.	
PRE-TEN FRONT LH [SHORT]	B1089	LH seat belt pre-tensioner circuits are shorted to each other.	

CONSULT-III name	DTC	DTC detecting condition	Repair order
PRE-TEN FRONT RH [OPEN]	B1081	RH seat belt pre-tensioner circuit is open.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the front RH seat belt pre-tensioner. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
PRE-TEN FRONT RH [VB-SHORT]	B1082	RH seat belt pre-tensioner circuit is shorted to a power supply circuit.	
PRE-TEN FRONT RH [GND-SHORT]	B1083	RH seat belt pre-tensioner circuit is shorted to ground.	
PRE-TEN FRONT RH [SHORT]	B1084	RH seat belt pre-tensioner circuits are shorted to each other.	
CRASH ZONE SEN [UNIT FAIL]	B1033 B1034	Crash zone sensor has malfunctioned.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the crash zone sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
CRASH ZONE SEN [COMM FAIL]	B1035	Crash zone sensor communication error.	
SATELLITE SENS LH [UNIT FAIL]	B1118 B1119	LH side air bag satellite sensor has malfunctioned.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the LH side air bag satellite sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
SATELLITE SENS LH [COMM FAIL]	B1120	LH side air bag satellite sensor communication error.	
SATELLITE SENS RH [UNIT FAIL]	B1113 B1114	RH side air bag satellite sensor has malfunctioned.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH side air bag satellite sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
SATELLITE SENS RH [COMM FAIL]	B1115	RH side air bag satellite sensor communication error.	
CONTROL UNIT	B1XXX	Air bag diagnosis sensor unit is malfunctioning.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the air bag diagnosis sensor unit. 4. Replace the related harness.
PASS A/B INDCTR CKT	B1023	Front passenger air bag OFF indicator is malfunctioning.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the front passenger air bag OFF indicator. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
OCCUPANT SENS C/U [UNIT FAIL]	B1017 B1020 B1021	The OCS control unit is malfunctioning.	1. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly.
OCCUPANT SENS [UNIT FAIL]	B1018	The OCS sensor is malfunctioning.	
BELT TENSION SENS [UNIT FAIL]	B1019	The belt tension sensor is malfunctioning.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH front seat belt assembly. 4. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly. 5. Replace the related harness.
OCCUPANT SENS C/U [COMM FAIL]	B1022	Communication between the OCS control unit and the air bag diagnosis sensor unit is interrupted.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
FRONTAL COLLISION DETECTION	B1209	Driver and/or front passenger air bag modules are deployed.	Refer to SR-18, "For Frontal Collision".

CONSULT-III name	DTC	DTC detecting condition	Repair order
SIDE COLLISION DETECTION	B1210	Side and/or curtain air bag modules are deployed.	Refer to SR-19, "For Side and Rollover Collision".
ROLLOVER DETECTION	B1211	Curtain air bag module and seat belt pre-tensioner are deployed.	

Trouble Diagnosis without CONSULT-III

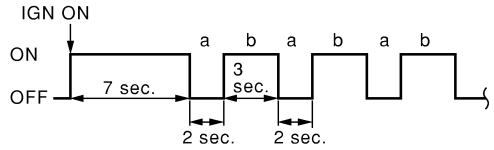
INFOID:0000000003937640

WARNING LAMP FLASH CODE CHART

NOTE:

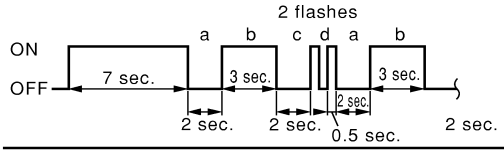
Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using air bag warning lamp each time repair is finished. If malfunction is still observed, proceed to the next step. When malfunction is eliminated, further repair work is not required.

<Diagnosis results (previously stored in the memory) might not be erased after repair or intermittent malfunctions have been detected in the past.>

Flash pattern	Repair order
a through b are repeated.  	1. Go to DIAGNOSTIC PROCEDURES 2 and 3.

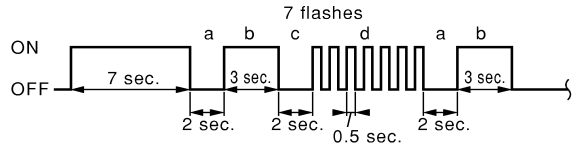
SHIA0026E

<Driver air bag module>

Flash pattern	Repair order
a through d are repeated. d: Two flashes indicate malfunctioning driver air bag module circuits.  	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the spiral cable. 4. Replace driver air bag module. 5. Replace the air bag diagnosis sensor unit. 6. Replace the related harness.

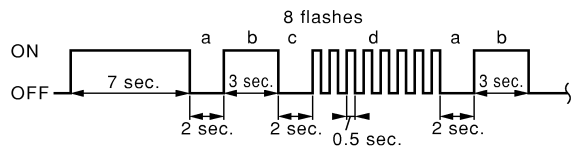
WHIA0260E

<Air bag diagnosis sensor unit>

Flash pattern	Repair order
a through d are repeated. d: Seven flashes indicate malfunctioning diagnosis sensor unit circuit.  	1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace the air bag diagnosis sensor unit. 4. Replace the related harness.

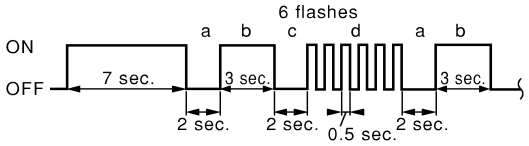
WHIA0198E

<Front passenger air bag module>

Flash pattern	Repair order
a through d are repeated. d: Eight flashes indicate malfunctioning front passenger air bag module circuit.  	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace front passenger air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

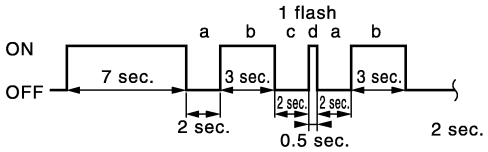
WHIA0261E

<Crash zone sensor>

Flash pattern	Repair order
a through d are repeated. d: Six flashes indicate malfunctioning crash zone sensor circuit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the crash zone sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

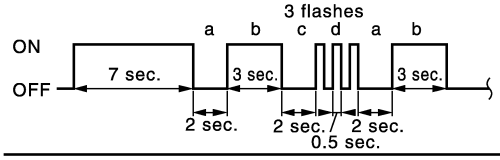
WHIA0200E

<Front RH seat belt pre-tensioner>

Flash pattern	Repair order
a through d are repeated. d: One flash indicates malfunctioning front RH seat belt pre-tensioner circuit. 	1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace front RH seat belt pre-tensioner. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

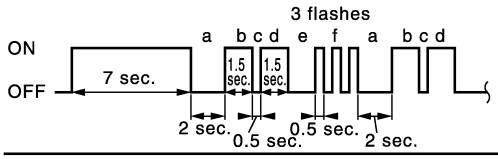
WHIA0262E

<Front LH seat belt pre-tensioner>

Flash pattern	Repair order
a through d are repeated. d: Three flashes indicate malfunctioning front LH seat belt pre-tensioner circuit. 	1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace front LH seat belt pre-tensioner. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

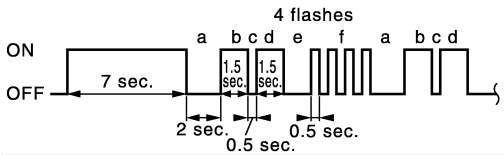
WHIA0263E

<RH side air bag (Satellite) sensor>

Flash pattern	Repair order
a through f are repeated. f: Three flashes indicate malfunctioning RH side air bag (Satellite) sensor circuit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH side air bag (Satellite) sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

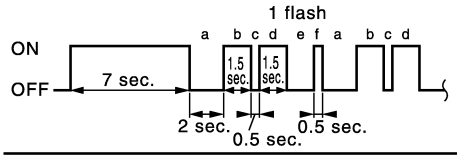
WHIA0203E

<LH side air bag (Satellite) sensor>

Flash pattern	Repair order
a through f are repeated. f: Four flashes indicate malfunctioning LH side air bag (Satellite) sensor. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the LH side air bag (Satellite) sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

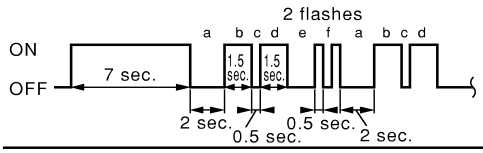
WHIA0204E

<Front RH side air bag module>

Flash pattern	Repair order
a through f are repeated. f: One flash indicate malfunctioning front RH side air bag module circuit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace front RH seat back assembly. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

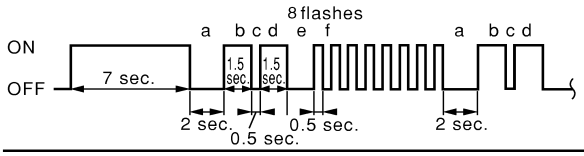
WHIA0264E

<Front LH side air bag module>

Flash pattern	Repair order
a through f are repeated. f: Two flashes indicate malfunctioning front LH side air bag module circuit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace front LH seat back assembly. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

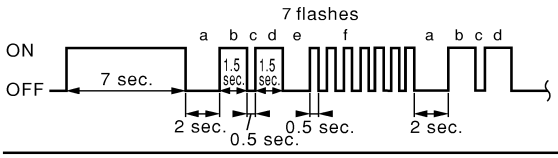
WHIA0265E

<LH side curtain air bag module (front)>

Flash pattern	Repair order
a through f are repeated. f: Eight flashes indicate malfunctioning LH side curtain air bag module (front) circuit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace LH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

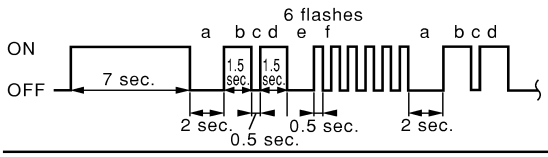
WHIA0255E

<RH side curtain air bag module (front)>

Flash pattern	Repair order
a through f are repeated. f: Seven flashes indicate malfunctioning RH side curtain air bag module (front) circuit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace RH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

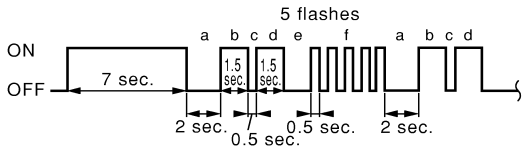
WHIA0253E

<LH side curtain air bag module (rear)>

Flash pattern	Repair order
a through f are repeated. f: Six flashes indicate malfunctioning LH side curtain air bag module (rear) circuit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace LH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

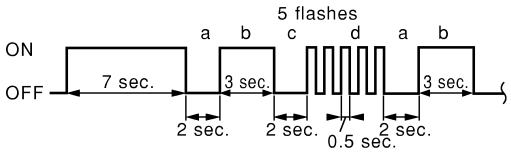
WHIA0254E

<RH side curtain air bag module (rear)>

Flash pattern	Repair order
a through f are repeated. f: Five flashes indicate malfunctioning RH side curtain air bag module (rear) circuit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace RH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

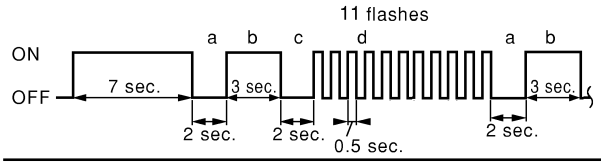
WHIA0252E

<Occupant classification system>

Flash pattern	Repair order
a through d are repeated. d: Five flashes indicate malfuntioning occupant classification system control unit. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH front seat cushion occupant classification system control unit assembly. 4. Replace the air bag diagnosis sensor unit.

WHIA0211E

<Front passenger air bag off indicator>

Flash pattern	Repair order
a through d are repeated. d: Eleven flashes indicate malfunctioning front passenger air bag off indicator. 	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace front passenger air bag off indicator. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

WHIA0212E

SYMPTOM DIAGNOSIS

SRS AIR BAG SYSTEM

"AIR BAG" Warning Lamp Does Not Turn Off

INFOID:0000000003937641

DIAGNOSTIC PROCEDURE 7

1.CHECK CONDITION OF AIR BAG MODULE

Inspect for any deployed air bag modules or seat belt pre-tensioners.

Are any air bag modules or seat belt pre-tensioners deployed?

YES >> Refer to SR-18, "For Frontal Collision" or SR-19, "For Side and Rollover Collision".
NO >> GO TO 2

2.CHECK THE AIR BAG FUSE

Check 10A fuse [No. 13, located in the fuse block (J/B)].

Is the fuse blown?

YES >> GO TO 3
NO >> GO TO 4

3.CHECK AIR BAG FUSE AGAIN

Replace 10A fuse [No. 13, located in the fuse block (J/B)] and turn ignition switch ON.

Does the fuse blow again?

YES >> Replace harness.
NO >> Inspection End.

4.CHECK AIR BAG DIAGNOSIS SENSOR UNIT

Connect CONSULT-III.

Is “AIR BAG” displayed on CONSULT-III?

YES >> GO TO 5
NO >> Visually inspect the air bag diagnosis sensor unit harness connections. If the connections are OK, replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

5.CHECK HARNESS CONNECTION

Check for loose connections between the combination meter and the air bag diagnosis sensor unit.

Are there any loose connections?

YES >> Properly connect the combination meter and air bag diagnosis sensor unit harness connectors. If “AIR BAG” warning lamp still does not turn off, replace the wiring harness.
NO >> Replace air bag diagnosis sensor unit.

"AIR BAG" Warning Lamp Does Not Turn On

INFOID:0000000003937642

DIAGNOSTIC PROCEDURE 8

1.CHECK METER FUSE

Check the 10A fuse [No. 14, located in the fuse block (J/B)] .

Is the fuse blown?

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

2.REPLACE METER FUSE AND CHECK AGAIN

Replace 10A fuse [No. 14, located in the fuse block (J/B)] and turn ignition switch ON.

Does the fuse blow again?

YES >> Replace harness.
NO >> Inspection End.

3.CHECK HARNESS CONNECTIONS BETWEEN AIR BAG DIAGNOSIS SENSOR UNIT AND COMBINA-

TION METER

Inspect the harness and connectors between the air bag diagnosis sensor unit and the combination meter.

Do the harness or connectors have any visible damage?

YES >> Replace harness.
NO >> GO TO 4

4. CHECK COMBINATION METER

Disconnect the air bag diagnosis sensor unit harness connectors and turn ignition switch ON.

Does “AIR BAG” warning lamp turn on?

YES >> Replace the air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".
NO >> Replace the combination meter. Refer to MWI-94, "Removal and Installation".

PASSENGER SEAT BELT WARNING SYSTEM

Seat Belt Warning System Does Not Function

INFOID:0000000003937643

1.SEAT BELT WARNING LIGHT

Turn ignition switch ON.

Does the seat belt warning lamp come ON?

YES >> GO TO 2
NO >>
- Check 10A fuse [No. 14, located in the fuse block (J/B)].
- Check seat belt buckle switch LH.
- Check harness between combination meter and seat belt buckle switch LH.
- Check combination meter. Refer to MWI-57, "Fail Safe".

2.SEAT BELT BUCKLE LH

Fasten the seat belt buckle LH.

Does the seat belt warning lamp go OFF?

YES >> GO TO 3
NO >>
- Check seat belt buckle switch LH.
- Check harness between combination meter and seat belt buckle switch LH.

3.OCCUPANT CLASSIFICATION SYSTEM

Have a helper sit in the passenger seat.

Does the seat belt warning lamp go ON?

YES >> GO TO 4
NO >>
- Check occupant classification system. Refer to SRC-10, "Occupant Classification System (OCS)".
- Check harness between occupant classification control unit and air bag diagnosis sensor unit.

4.SEAT BELT BUCKLE RH

Fasten the seat belt buckle RH.

Does the seat belt warning lamp go OFF?

YES >> System OK.
NO >>
- Check seat belt buckle switch RH.
- Check harness between seat belt buckle switch RH and air bag diagnosis sensor unit.
- Replace air bag diagnosis sensor unit. Refer to SR-16, "Removal and Installation".

PRECAUTION

PRECAUTIONS

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

INFOID:0000000003937644

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 SR and SB section of this Service Manual.

WARNING:

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.**
- **Do not 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.**

Precaution for SRS "AIR BAG" and "SEAT BELT PRE-TENSIONER" Service

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- Do not use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
  For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pretensioner to deploy. Therefore, do not work on any SRS connectors or wires until at least 3 minutes have passed.
- The air bag diagnosis sensor unit must always be installed with the arrow mark “⇐” pointing toward the front of the vehicle for proper operation. Also check air bag 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. Do not attempt to turn steering wheel or 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.

Occupant Classification System Precaution

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Replace occupant classification system control unit and passenger front seat cushion as an assembly.