SECTION SRC
SRS AIRBAG CONTROL SYSTEM

CONTENTS

PRECAUTION

PRECAUTIONS

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

INFOID:0000000010346332

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. 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.**

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

WARNING:

- **When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.**

Service

INFOID:0000000009798191

- Do not use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 minutes.
  For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pretensioner to deploy. Therefore, do not work on any SRS connectors or wires until at least 3 minutes have elapsed.
- Diagnosis sensor unit must always be installed with their arrow marks “⇐” pointing towards the front of the vehicle for proper operation. Also check diagnosis sensor unit for cracks, deformities or rust before installation and replace as required.
- The spiral cable must be aligned in the neutral position since its rotations are limited. Do not turn steering wheel and column after removal of steering gear.
- Handle air bag module carefully. Always place driver and front passenger air bag modules with the pad side facing upward and seat mounted front side air bag module standing with the stud bolt side facing down.
- Conduct self-diagnosis to check entire SRS for proper functioning after replacing any components.
- After air bag inflates, the front instrument panel assembly should be replaced if damaged.
- Always replace instrument panel pad following front passenger air bag deployment.

Occupant Classification System Precaution

INFOID:0000000009798192

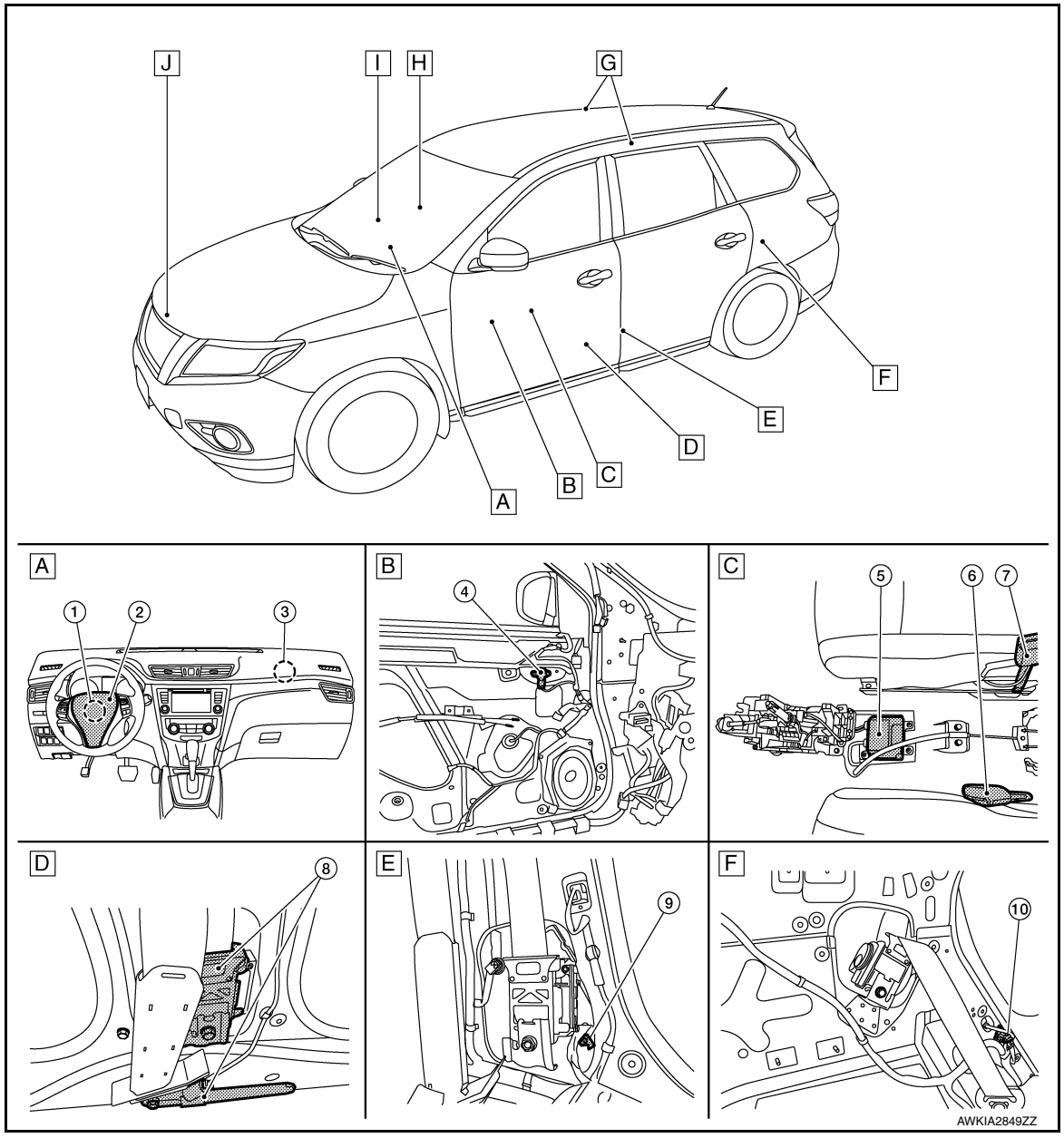
- Replace occupant classification system control unit and passenger front seat cushion as an assembly.
  Refer to SE-32, "DRIVER SIDE : Removal and Installation".

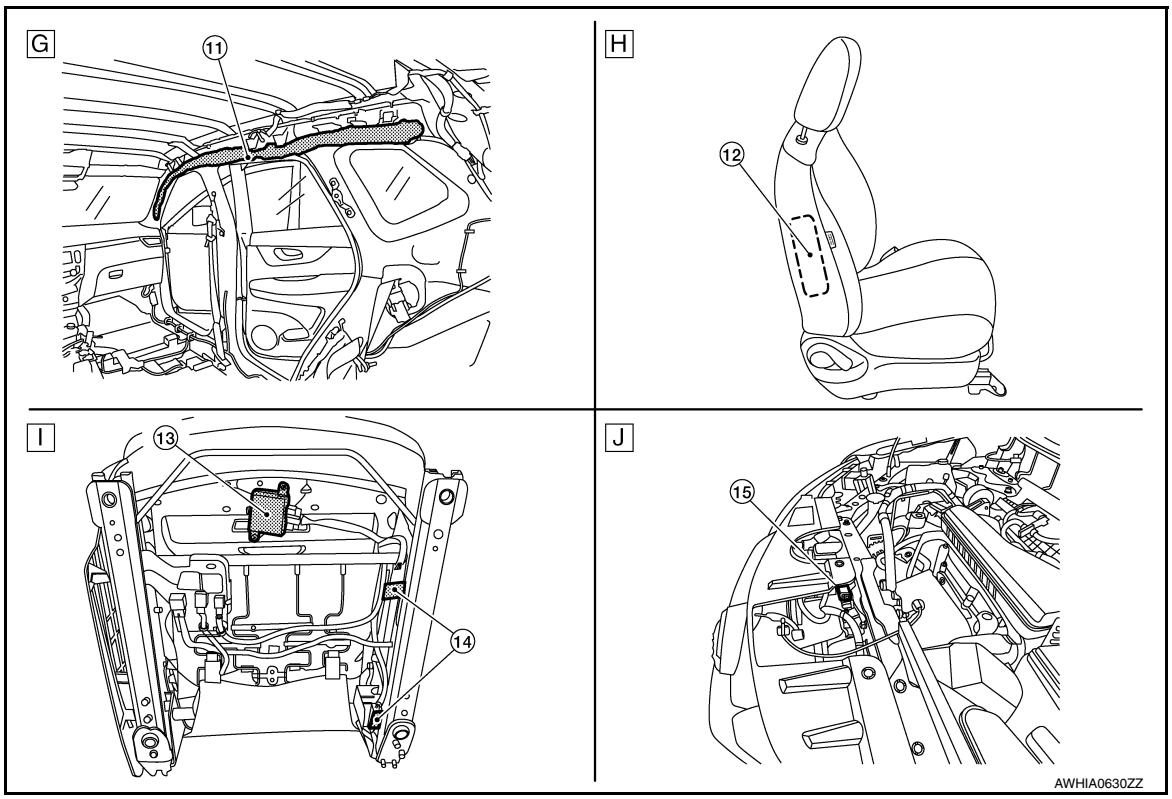
SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000010246022


J
I
H
G
F
E
D
C
B
A
A
1
2
3
B
4
C
5
6
7
D
8
E
9
F
10
AWKIA2849ZZ



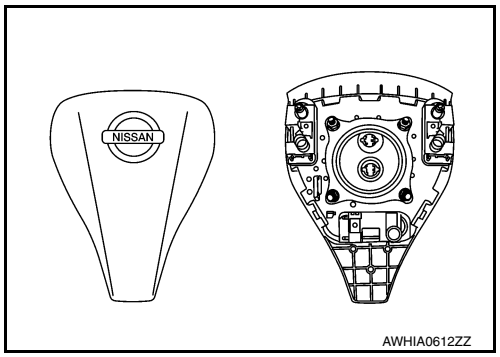
A. Instrument panel
B. View with drivers door finisher removed
C. View with center console removed
D. View with the lower B-pillar trim removed
E. View with the lower B-pillar trim removed
F. View with LH rear lower luggage finisher removed
G. View with headlining removed
H. RH front passenger seat
I. Occupant classification system
J. Radiator core support assembly

No.	Component	Function
1.	Spiral cable	The spiral cable provides a rotating physical connection to the driver air bag module.
2.	Drivers air bag module	Refer to SRC-9, "Driver Air Bag Module".
3.	Front passenger air bag module	Refer to SRC-9, "Front Passenger Air Bag Module".
4.	Front door satellite sensor	Refer to SRC-11, "Front Door Satellite Sensor".
5.	Air bag diagnosis sensor unit	Refer to SRC-10, "Air Bag Diagnosis Sensor Unit".
6.	Seat belt buckle switch (driver seat)	The seat belt buckle switch LH provides the seat belt buckle signals to the air bag diagnosis sensor unit and the combination meter.
7.	Seat belt buckle switch (passenger seat)	The seat belt buckle switch RH provides the seat belt buckle signals to the air bag diagnosis sensor unit and the combination meter.
8.	Front LH seat belt pre-tensioner (RH similar)	Refer to SRC-10, "Front Seat Belt Pre-tensioner".
9.	Front side air bag satellite sensor	Refer to SRC-10, "Front Side Air Bag Satellite Sensor".
10.	Rear side air bag satellite sensor LH (RH similar)	Refer to SRC-11, "Rear Side Air Bag Satellite Sensor".
11.	RH side curtain air bag module (LH similar)	Refer to SRC-9, "Side Curtain Air Bag Module".
12.	Front RH side air bag module (LH similar)	Refer to SRC-9, "Front Side Air Bag Module".
13.	Occupant classification system control unit	Refer to SRC-13, "OCCUPANT CLASSIFICATION SYSTEM : System Description".
14.	Occupant classification system sensors	Refer to SRC-13, "OCCUPANT CLASSIFICATION SYSTEM : System Description".
15.	Crash zone sensor	Refer to SRC-10, "Crash Zone Sensor".

Driver Air Bag Module

INFOID:0000000010246023

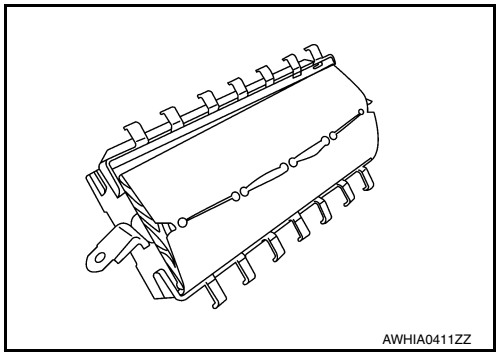
The driver air bag module is dual stage and located in the steering wheel assembly. It operates with the SRS system in a frontal collision exceeding a specified level.



Front Passenger Air Bag Module

INFOID:0000000010246024

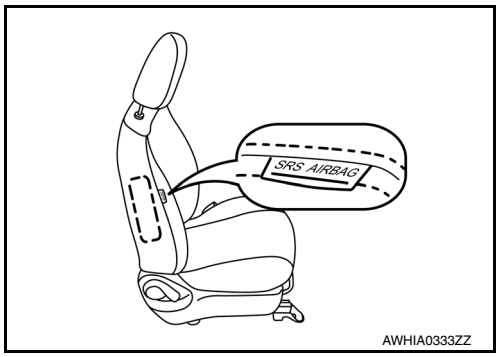
The front passenger air bag module is dual stage and is located behind the instrument panel assembly. It operates with the SRS system in a frontal collision exceeding a specified level. Refer to SRC-12, "SRS AIR BAG SYSTEM : System Description" for more information.



Front Side Air Bag Module

INFOID:0000000010246025

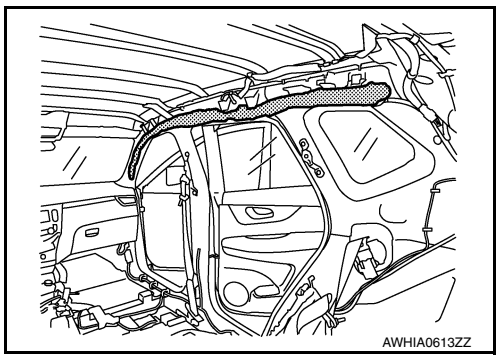
Front side air bag modules are built into the front seatback assemblies. Vehicles with side air bags are equipped with labels as shown.



Side Curtain Air Bag Module

INFOID:0000000010246026

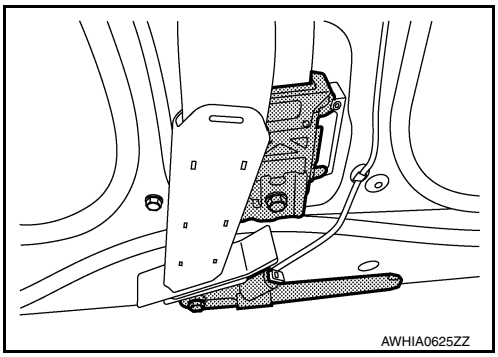
Side curtain air bag modules are located above the vehicle headlining.Vehicles with side curtain air bags are equipped with labels on the pillar upper finishers.



Front Seat Belt Pre-tensioner

INFOID:0000000010246027

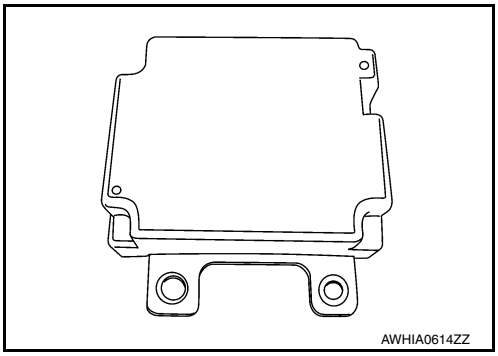
The seat belt pre-tensioner system with load limiter is installed for both the driver's seat and the front passenger's seat. It operates simultaneously with the SRS air bag system in the event of a frontal collision with an impact exceeding a specified level.
When the frontal collision with an impact exceeding a specified level occurs, seat belt slack resulting from clothing or other factors is immediately taken up by the shoulder belt pre-tensioner as well as the lap belt pre-tensioner. Vehicle passengers are securely restrained.
When passengers in a vehicle are thrown forward in a collision and the restraining force of the seat belt exceeds a specified level, the load limiter permits the specified extension of the seat belt by the twisting of the ELR shaft, and a relaxation of the chest-area seat belt web tension while maintaining force.


AWHIA0625ZZ

Air Bag Diagnosis Sensor Unit

INFOID:0000000010246028

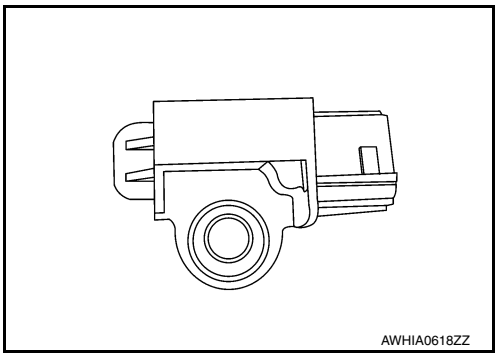
The air bag diagnosis sensor unit is located under the center console assembly. The air bag diagnosis sensor unit receives signals from multiple SRS sensors and controls the deployment of the air bags. The deployment of the air bags depends on the type and severity of the collision. The air bag diagnosis sensor unit has self-diagnosis capability through the use of the CONSULT as well as flash codes displayed by the air bag warning lamp.


AWHIA0614ZZ

Crash Zone Sensor

INFOID:0000000010246029

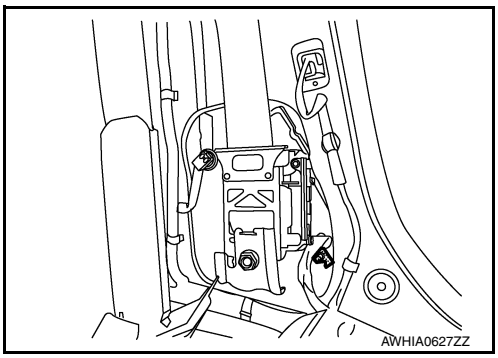
The crash zone sensor is located in front of the radiator. The crash zone sensor sends signals to the air bag diagnosis sensor unit during a frontal collision. This sensor may be identified by a yellow connector.


AWHIA0618ZZ

Front Side Air Bag Satellite Sensor

INFOID:0000000010246030

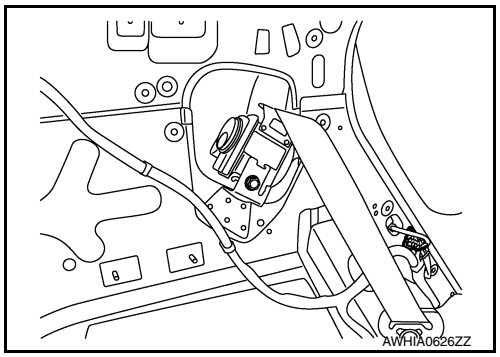
The front side air bag satellite sensors are located on the front center pillar LH and RH next to the seat belt pretensioners. The front side air bag satellite sensors send signals to the air bag diagnosis sensor unit during a side collision. These sensors may be identified by yellow connectors.


AWHIA0627ZZ

Rear Side Air Bag Satellite Sensor

INFOID:0000000010246031

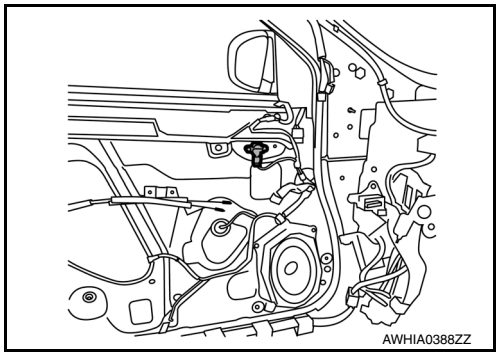
The rear side air bag satellite sensors are located behind the luggage side lower finisher LH and RH. The rear side air bag satellite sensors send signals to the air bag diagnosis sensor unit during a side collision. These sensors may be identified by yellow connectors.



Front Door Satellite Sensor

INFOID:0000000010336843

The front door satellite sensors are located in the driver and passenger doors. The front door satellite sensors send signals to the air bag diagnosis sensor unit during a side collision. These sensors may be identified by yellow connectors.



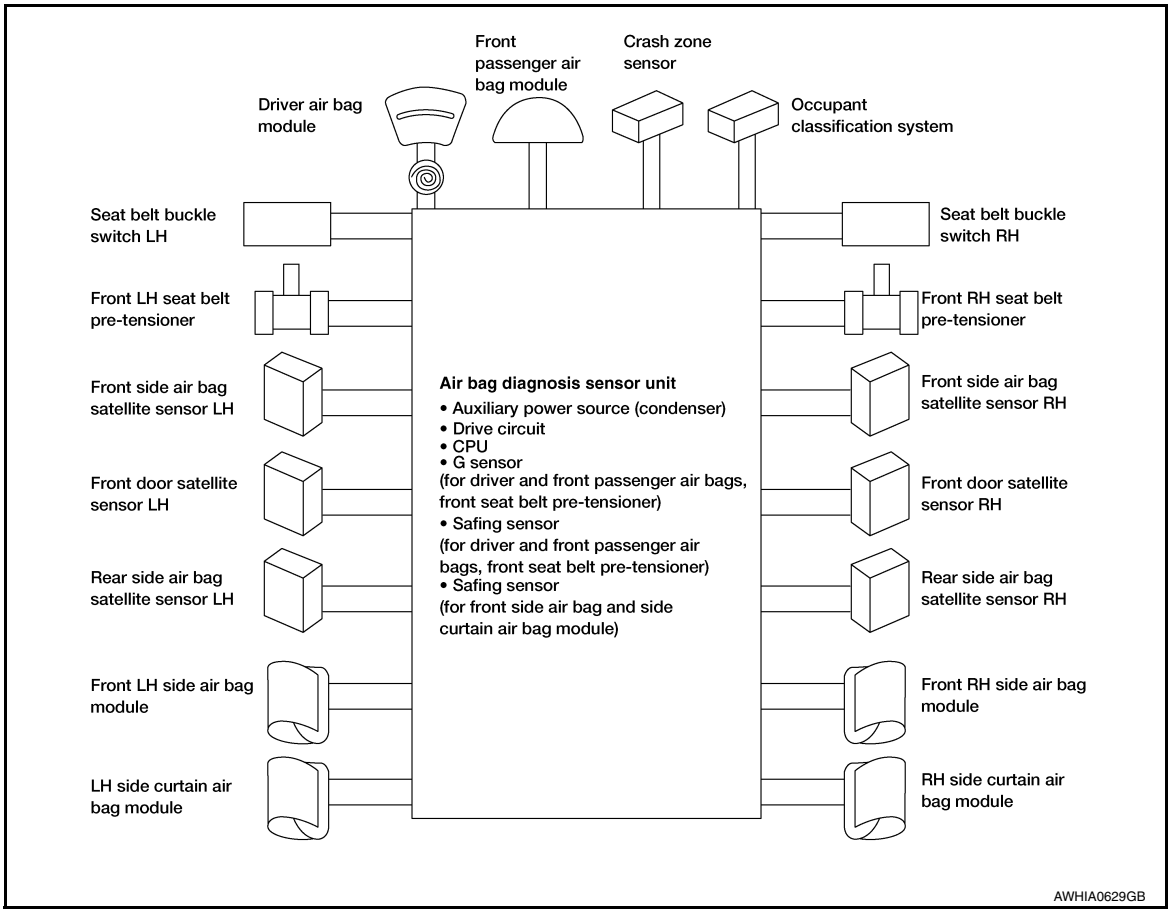
SYSTEM

SRS AIR BAG SYSTEM

SRS AIR BAG SYSTEM : System Description

INFOID:0000000010246034

SYSTEM DIAGRAM



DESCRIPTION

- 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 Collision Modes

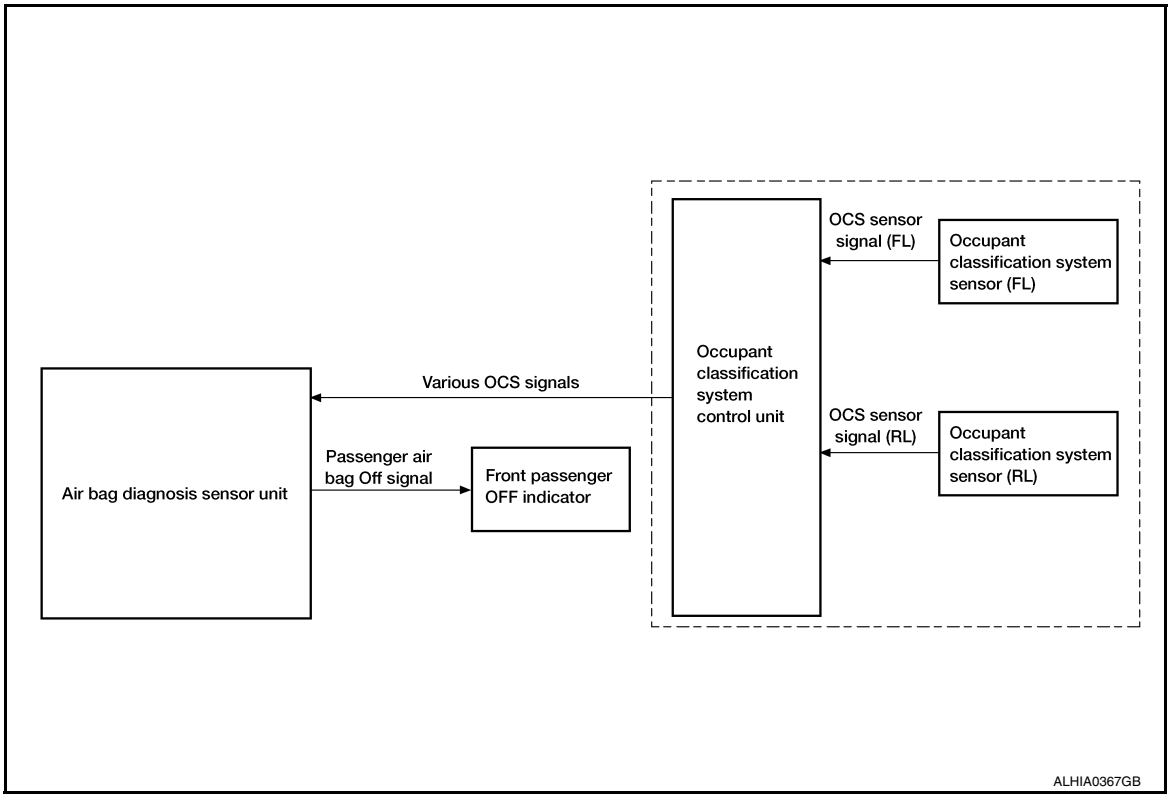
SRS configuration	Frontal collision	Left side collision	Right side collision
Driver air bag module	x	—	—
Front passenger air bag module	x	—	—
Front LH seat belt pre-tensioner	x	—	—
Front RH seat belt pre-tensioner	x	—	—
Front LH side air bag module	—	x	—
Front RH side air bag module	—	—	x
LH side curtain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

OCCUPANT CLASSIFICATION SYSTEM

OCCUPANT CLASSIFICATION SYSTEM : System Description

INFOID:0000000010246035

SYSTEM DIAGRAM



DESCRIPTION

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 control unit (2) receives inputs from the occupant classification sensors (1) (located on the passenger seat track assembly). 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. The OCS (weight sensors) must be set to zero point using CONSULT after servicing the OCS system.

NOTE:

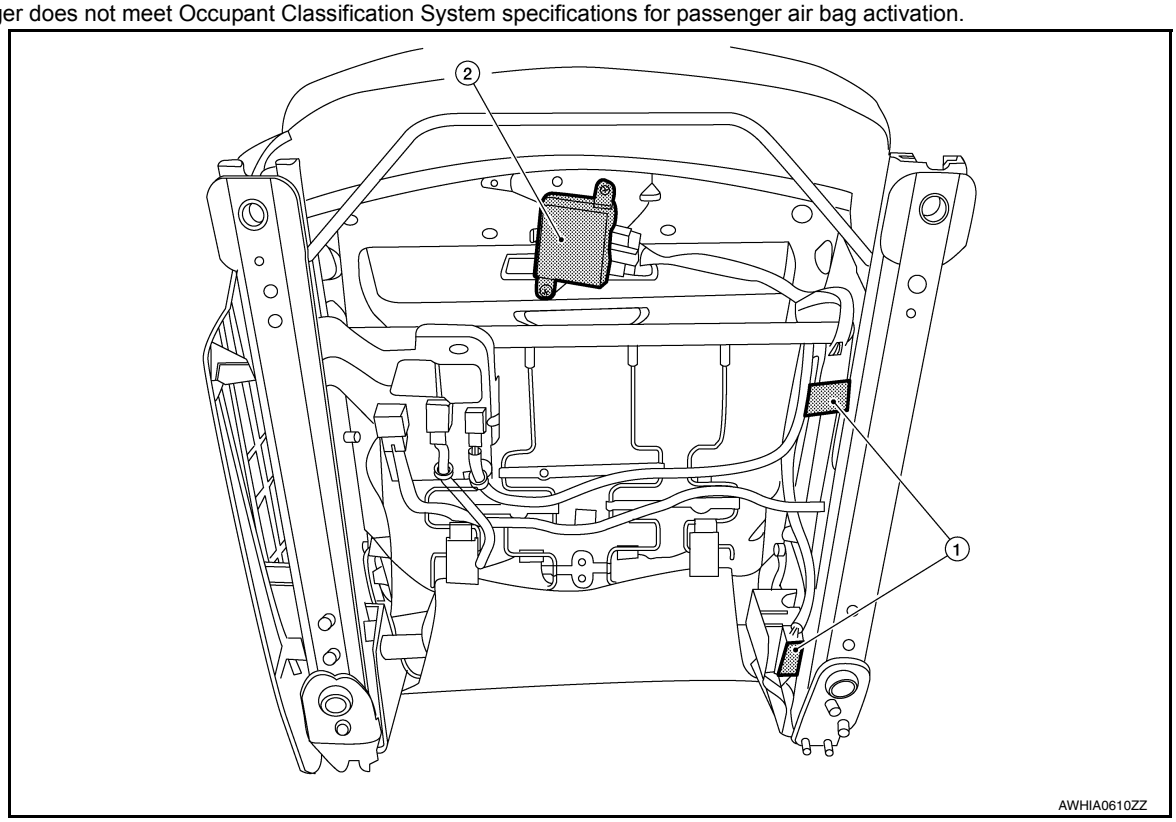
- CONSULT can be used to confirm when “zero point reset” for OCS is complete.
- Always perform zero point reset after the removal and installation of the seat or when disconnecting the OCS control unit harness connector even if zero point reset has been completed in the past.
- If zero point reset is incomplete, the passenger air bag will be disabled and the passenger air bag off indicator will be ON.
- In case of customer concern, CONSULT 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 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.

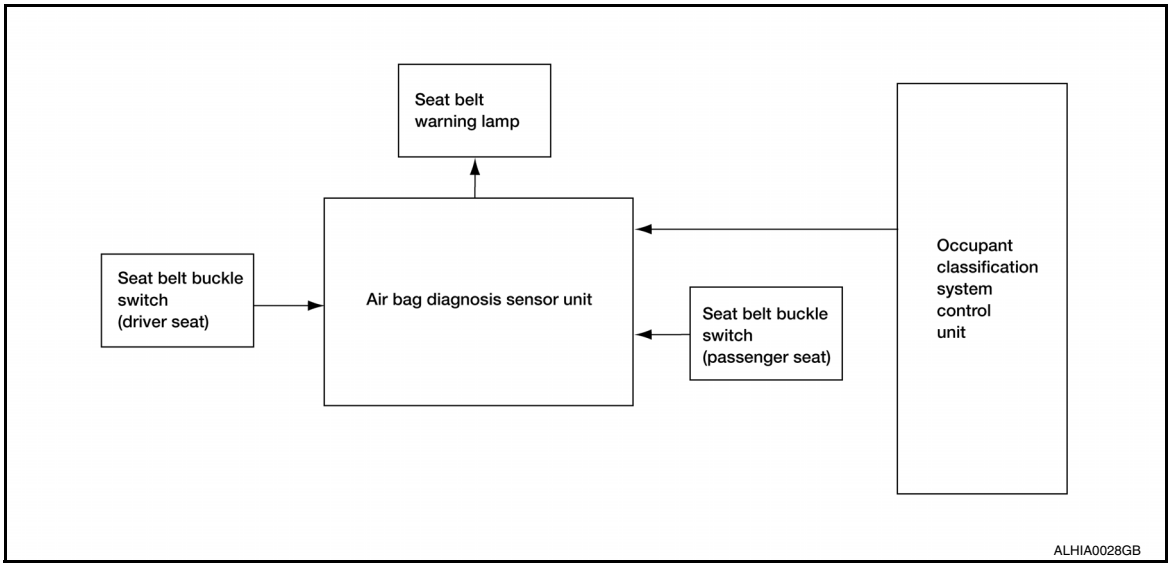


SEAT BELT WARNING LAMP SYSTEM

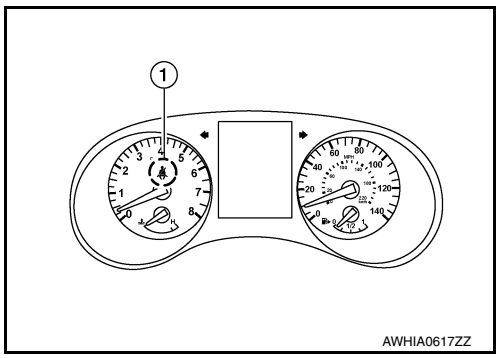
SEAT BELT WARNING LAMP SYSTEM : System Description

INFOID:0000000010246036

SYSTEM DIAGRAM



The seat belt warning lamp (1) will remind the driver if the driver or front passenger seat belt should be buckled. The system works in conjunction with the occupant classification system. Refer to SRC-13, "OCCUPANT CLASSIFICATION SYSTEM : System Description".



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

DIAGNOSIS SYSTEM (AIR BAG)

Description

INFOID:0000000010246037

CAUTION:

- **Never use electrical test equipment on any circuit related to the SRS unless instructed in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**
- **Never repair, splice or modify the SRS wiring harness. If the harness is damaged, replace it with a new one.**
- **Keep ground portion clean.**

DIAGNOSIS FUNCTION

- The SRS self-diagnostic results can be read with air bag warning lamp and/or CONSULT.
- The user mode is exclusively prepared for the customer (driver). This mode warns the driver of a system malfunction through the operation of the air bag warning lamp.
- The diagnosis mode allows the technician to locate and inspect the malfunctioning part.
- The mode applications for the air bag warning lamp and CONSULT are as per the following items.

×: Application, —: Not application

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

On Board Diagnosis Function

INFOID:0000000010246038

ON-BOARD DIAGNOSIS

There are two self diagnosis functions with air bag warning lamp per the following items.

- USER MODE
- DIAGNOSIS MODE

METHOD OF STARTING

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

Procedure to Change Diagnosis Mode

1. Turn ignition switch from OFF to ON.
2. SRS air bag lamp turns ON for 7 seconds and turns OFF, then turn ignition switch OFF within 2 seconds after the lamp turns OFF.
   NOTE:
   When in Diagnosis Mode, the air bag warning lamp may illuminate for more than 7 seconds after the ignition switch is turned ON. If this is the case, the ignition switch must still be cycled OFF after 7 seconds.
3. After turning ignition switch OFF, wait for 3 seconds or more.
4. Repeat operation 1 to 3 for 2 times so that operation 1 to 3 is repeated for 3 times in total.
5. Turn ignition switch from OFF to ON. Diagnosis mode changes.

USER MODE

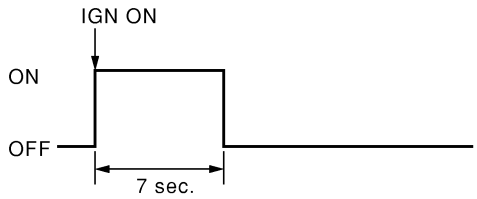
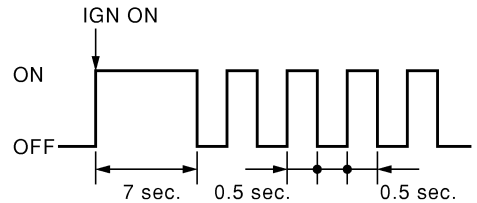
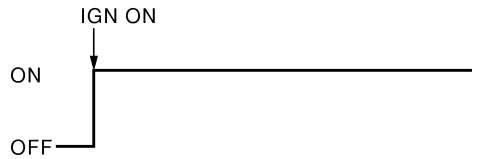
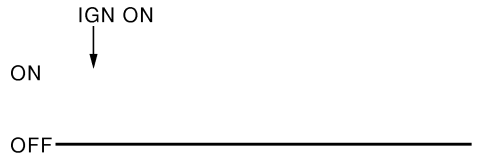
In USER MODE, air bag warning lamp on combination meter turns ON when a malfunction is detected and warns the customer (driver).

How to Read Air Bag Warning Lamp

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

Air Bag Warning Lamp Examples:

Air bag warning lamp flashing pattern (User Mode)

Warning lamp	SRS condition	Reference item
 SHIA0011E	• No malfunction is detected. • No further action is necessary.	—
 SHIA0012E	The system is malfunctioning and needs to be repaired.	Refer to SRC-18, "Trouble Diagnosis with CONSULT" or SRC-16, "On Board Diagnosis Function".
 SHIA0013E	• Air bag is deployed. • Seat belt pre-tensioner is deployed.	Refer to Frontal collision: SR-5, "FOR FRONTAL COLLISION : When SRS is activated in a collision", SR-6, "FOR FRONTAL COLLISION : When SRS is not activated in a collision" or Side and rollover collision: SR-7, "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision", SR-8, "FOR SIDE AND ROLLOVER COLLISION : When SRS is not activated in a collision".
	• Air bag diagnosis sensor unit is malfunctioning. • Air bag power supply circuit is malfunctioning. • SRS air bag warning lamp circuit is malfunctioning.	Refer to SRC-99, "AIR BAG Warning Lamp Does Not Turn Off".
 SHIA0014E	• Air bag diagnosis sensor unit is malfunctioning. • Air bag warning lamp circuit is malfunctioning.	Refer to SRC-98, "AIR BAG Warning Lamp Does Not Turn On".

DIAGNOSIS MODE

NOTE:

Diagnosis Mode can not be entered if a malfunction is not 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-23, "Flash Code Index".

Trouble Diagnosis with CONSULT

INFOID:0000000010246039

1. Connect CONSULT.
2. DTC is displayed on SELF-DIAG RESULTS.

NOTE:
If a malfunction is not detected on SELF-DIAG RESULTS [CURRENT], but a malfunction is detected during SRS Operation Check, the following cases may exist:
- SELF-DIAG [PAST] memory might not be erased. Refer to SRC-16, "On Board Diagnosis Function".
- SRS system malfunctions intermittently. Refer to SRC-45, "Inspection Procedure".

DIAGNOSIS MODE

1. Connect CONSULT.
2. Confirm that zero point reset of OCS is complete.
3. If no DTCs are detected on “SELF-DIAG RESULTS [CURRENT]”, repair of SRS is completed. Go to step 4.
   If any DTCs are detected on “SELF-DIAG RESULTS [CURRENT]”, the malfunction has not been repaired completely or another malfunction is being detected. Perform SRS Operation Check again. Refer to SRC-16, "On Board Diagnosis Function".
4. Touch “ERASE”.
   NOTE:
   Touching “ERASE” will clear the SRS memory of the malfunction (“SELF-DIAG [PAST]”). If “SELF-DIAG [PAST]” is not erased, User Mode may show the previous system malfunction even if the malfunction has been repaired completely.
5. Check that no malfunction is detected in “SELF-DIAG [PAST]”.
6. Exit Diagnosis Mode and disconnect the CONSULT.
7. Perform SRS Operation Check. Refer to SRC-16, "On Board Diagnosis Function".

SRS HISTORY CHECK

1. Check repair history of the SRS. If no repairs have been made, perform SRC-16, "On Board Diagnosis Function". If repairs have been made, GO TO step 2.
2. Erase ”SELF-DIAG [PAST]” after repair. Refer to SRC-16, "On Board Diagnosis Function".

CONSULT Function (AIR BAG)

INFOID:0000000010246040

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

Diagnostic Test Mode	Diagnostic Item	Description
Self Diagnostic Result	SELF-DIAG RESULT [CURRENT]	A current Self-diagnosis result (also indicated by the number of warning lamp flashes in the Diagnosis mode) is displayed on the CONSULT screen in real time. This refers to a malfunctioning part requiring repairs.
Data Monitor	DATA MONITOR	Displays air bag diagnosis sensor unit input/output data in real time.
ECU Identification	ECU DISCRIMINATED NO.	Air bag diagnosis sensor unit ECU discriminated number (identification number) or part number is displayed. Air bag diagnosis sensor unit has individual ECU discriminated number (identification number) or part number based on model and equipment.
Trouble Diagnostic Record	TROUBLE DIAG RECORD [PAST]	With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed on the CONSULT screen.

ECU DIAGNOSIS INFORMATION

DIAGNOSIS SENSOR UNIT

DTC Index

INFOID:0000000010246011

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 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 name	DTC	DTC detecting condition	Repair order
DRIVER AIRBAG MODULE CIRCUIT [OPEN]	B0001	Driver air bag module circuit (DR1) is open (including the spiral cable).	Refer to SRC-47, "Diagnosis Procedure".
DRIVER AIRBAG MODULE CIRCUIT [VB-SHORT]		Driver air bag module circuit (DR1) is shorted to a power supply circuit (including the spiral cable).	
DRIVER AIRBAG MODULE CIRCUIT [GND-SHORT]		Driver air bag module circuit (DR1) is shorted to ground (including the spiral cable).	
DRIVER AIRBAG MODULE CIRCUIT [SHORT]		Driver air bag module circuits (DR1) are shorted to each other (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [OPEN]	B0002	Driver air bag module circuit (DR2) is open (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [VB-SHORT]		Driver air bag module circuit (DR2) is shorted to a power supply circuit (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [GND-SHORT]		Driver air bag module circuit (DR2) is shorted to ground (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [SHORT]		Driver air bag module circuits (DR2) are shorted to each other (including the spiral cable).	
ASSIST AIRBAG MODULE CIRCUIT [OPEN]	B0010	Front passenger air bag module circuit (AS1) is open.	Refer to SRC-49, "Diagnosis Procedure".
ASSIST AIRBAG MODULE CIRCUIT [VB-SHORT]		Front passenger air bag module circuit (AS1) is shorted to a power supply circuit.	
ASSIST AIRBAG MODULE CIRCUIT [GND-SHORT]		Front passenger air bag module circuit (AS1) is shorted to ground.	
ASSIST AIRBAG MODULE CIRCUIT [SHORT]		Front passenger air bag module circuits (AS1) are shorted to each other.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [OPEN]	B0011	Front passenger air bag module circuit (AS2) is open.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [VB-SHORT]		Front passenger air bag module circuit (AS2) is shorted to a power supply circuit.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [GND-SHORT]		Front passenger air bag module circuit (AS2) is shorted to ground.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [SHORT]		Front passenger air bag module circuits (AS2) are shorted to each other.	

CONSULT name	DTC	DTC detecting condition	Repair order
SIDE AIRBAG MODULE LH CIRCUIT [OPEN]	B0020	Front LH side air bag module circuit is open.	Refer to SRC-51, "Diagnosis Procedure".
SIDE AIRBAG MODULE LH CIRCUIT [VB-SHORT]		Front LH side air bag module circuit is shorted to a power supply circuit.	
SIDE AIRBAG MODULE LH CIRCUIT [GND-SHORT]		Front LH side air bag module circuit is shorted to ground.	
SIDE AIRBAG MODULE LH CIRCUIT [SHORT]		Front LH side air bag module circuits are shorted to each other.	
SIDE AIRBAG MODULE RH CIRCUIT [OPEN]	B0028	Front RH side air bag module circuit is open.	Refer to SRC-53, "Diagnosis Procedure".
SIDE AIRBAG MODULE RH CIRCUIT [VB-SHORT]		Front RH side air bag module circuit is shorted to a power supply circuit.	
SIDE AIRBAG MODULE RH CIRCUIT [GND-SHORT]		Front RH side air bag module circuit is shorted to ground.	
SIDE AIRBAG MODULE RH CIRCUIT [SHORT]		Front RH side air bag module circuits are shorted to each other.	
CURTAIN AIRBAG MODULE LH CIRCUIT [OPEN]	B0021	LH side curtain air bag module circuit is open.	Refer to SRC-55, "Diagnosis Procedure".
CURTAIN AIRBAG MODULE LH CIRCUIT [VB-SHORT]		LH side curtain air bag module circuit is shorted to a power supply circuit.	
CURTAIN AIRBAG MODULE LH CIRCUIT [GND-SHORT]		LH side curtain air bag module circuit is shorted to ground.	
CURTAIN AIRBAG MODULE LH CIRCUIT [SHORT]		LH side curtain air bag module circuits are shorted to each other.	
CURTAIN AIRBAG MODULE RH CIRCUIT [OPEN]	B0029	RH side curtain air bag module circuit is open.	Refer to SRC-57, "Diagnosis Procedure".
CURTAIN AIRBAG MODULE RH CIRCUIT [VB-SHORT]		RH side curtain air bag module circuit is shorted to a power supply circuit.	
CURTAIN AIRBAG MODULE RH CIRCUIT [GND-SHORT]		RH side curtain air bag module circuit is shorted to ground.	
CURTAIN AIRBAG MODULE RH CIRCUIT [SHORT]		RH side curtain air bag module circuits are shorted to each other.	
FRONT PRE-TEN LH CIRCUIT [OPEN]	B1430	Front LH seat belt pre-tensioner circuit is open.	Refer to SRC-59, "Diagnosis Procedure".
FRONT PRE-TEN LH CIRCUIT [VB-SHORT]		Front LH seat belt pre-tensioner circuit is shorted to a power supply circuit.	
FRONT PRE-TEN LH CIRCUIT [GND-SHORT]		Front LH seat belt pre-tensioner circuit is shorted to ground.	
FRONT PRE-TEN LH CIRCUIT [SHORT]		Front LH seat belt pre-tensioner circuits are shorted to each other.	
FRONT PRE-TEN RH CIRCUIT [OPEN]	B1431	Front RH seat belt pre-tensioner circuit is open.	Refer to SRC-61, "Diagnosis Procedure".
FRONT PRE-TEN RH CIRCUIT [VB-SHORT]		Front RH seat belt pre-tensioner circuit is shorted to a power supply circuit.	
FRONT PRE-TEN RH CIRCUIT [GND-SHORT]		Front RH seat belt pre-tensioner circuit is shorted to ground.	
FRONT PRE-TEN RH CIRCUIT [SHORT]		Front RH seat belt pre-tensioner circuits are shorted to each other.	

CONSULT name	DTC	DTC detecting condition	Repair order
SEAT BELT BUCKLE SW LH CIRCUIT [OPEN]	B1428	Seat belt buckle switch (driver side) circuit is open.	Refer to SRC-63, "Diagnosis Procedure".
SEAT BELT BUCKLE SW LH CIRCUIT [VB-SHORT]		Seat belt buckle switch (driver side) circuit is shorted to a power supply circuit.	
SEAT BELT BUCKLE SW LH CIRCUIT [GND-SHORT]		Seat belt buckle switch (driver side) circuit is shorted to ground.	
SEAT BELT BUCKLE SW LH CIRCUIT [UNDEFINED]		Seat belt buckle switch (driver side) circuit malfunction.	
SEAT BELT BUCKLE SW RH CIRCUIT [OPEN]	B1429	Seat belt buckle switch (passenger side) circuit is open.	Refer to SRC-66, "Diagnosis Procedure".
SEAT BELT BUCKLE SW RH CIRCUIT [VB-SHORT]		Seat belt buckle switch (passenger side) circuit is shorted to a power supply circuit.	
SEAT BELT BUCKLE SW RH CIRCUIT [GND-SHORT]		Seat belt buckle switch (passenger side) circuit is shorted to ground.	
SEAT BELT BUCKLE SW RH CIRCUIT [UNDEFINED]		Seat belt buckle switch (passenger side) circuit malfunction.	
CRASH ZONE SENSOR [SENSOR FAIL]	B0094	Crash zone sensor has malfunctioned.	Refer to SRC-68, "Diagnosis Procedure".
CRASH ZONE SENSOR [COMM FAIL]		Crash zone sensor communication error.	
CRASH ZONE SENSOR [DISCONNECT]		Crash zone sensor is disconnected.	
CRASH ZONE SENSOR [UNMATCH]		Crash zone sensor is out of specification.	
CRASH ZONE SENSOR [GND-SHORT]		Crash zone sensor circuit is shorted to ground.	
DOOR SATELLITE SENSOR LH [SENSOR FAIL]	B0093	Front door satellite sensor LH has malfunctioned.	Refer to SRC-70, "Diagnosis Procedure".
DOOR SATELLITE SENSOR LH [COMM FAIL]		Front door satellite sensor LH communication error.	
DOOR SATELLITE SENSOR LH [DISCONNECT]		Front door satellite sensor LH is disconnected.	
DOOR SATELLITE SENSOR LH [UNMATCH]		Front door satellite sensor LH is out of specification.	
DOOR SATELLITE SENSOR LH [GND-SHORT]		Front door satellite sensor LH circuit is shorted to ground.	
DOOR SATELLITE SENSOR RH [SENSOR FAIL]	B0098	Front door satellite sensor RH has malfunctioned.	Refer to SRC-72, "Diagnosis Procedure".
DOOR SATELLITE SENSOR RH [COMM FAIL]		Front door satellite sensor RH communication error.	
DOOR SATELLITE SENSOR RH [DISCONNECT]		Front door satellite sensor RH is disconnected.	
DOOR SATELLITE SENSOR RH [UNMATCH]		Front door satellite sensor RH is out of specification.	
DOOR SATELLITE SENSOR RH [GND-SHORT]		Front door satellite sensor RH circuit is shorted to ground.	

CONSULT name	DTC	DTC detecting condition	Repair order
B-PILLAR SATELLITE SENSOR LH [SENSOR FAIL]	B0091	Front side air bag satellite sensor LH has malfunctioned.	Refer to SRC-75, "Diagnosis Procedure".
B-PILLAR SATELLITE SENSOR LH [COMM FAIL]		Front side air bag satellite sensor LH communication error.	
B-PILLAR SATELLITE SENSOR LH [DISCONNECT]		Front side air bag satellite sensor LH is disconnected.	
B-PILLAR SATELLITE SENSOR LH [UNMATCH]		Front side air bag satellite sensor LH is out of specification.	
B-PILLAR SATELLITE SENSOR LH [GND-SHORT]		Front side air bag satellite sensor LH circuit is shorted to ground.	
B-PILLAR SATELLITE SENSOR RH [SENSOR FAIL]	B0096	Front side air bag satellite sensor RH has malfunctioned.	Refer to SRC-78, "Diagnosis Procedure".
B-PILLAR SATELLITE SENSOR RH [COMM FAIL]		Front side air bag satellite sensor RH communication error.	
B-PILLAR SATELLITE SENSOR RH [DISCONNECT]		Front side air bag satellite sensor RH is disconnected.	
B-PILLAR SATELLITE SENSOR RH [UNMATCH]		Front side air bag satellite sensor RH is out of specification.	
B-PILLAR SATELLITE SENSOR RH [GND-SHORT]		Front side air bag satellite sensor RH circuit is shorted to ground.	
C-PILLAR SATELLITE SENSOR LH [SENSOR FAIL]	B0092	Rear side satellite sensor LH has malfunctioned.	Refer to SRC-81, "Diagnosis Procedure".
C-PILLAR SATELLITE SENSOR LH [COMM FAIL]		Rear side satellite sensor LH communication error.	
C-PILLAR SATELLITE SENSOR LH [DISCONNECT]		Rear side satellite sensor LH is disconnected.	
C-PILLAR SATELLITE SENSOR LH [UNMATCH]		Rear side satellite sensor LH is out of specification.	
C-PILLAR SATELLITE SENSOR LH [GND-SHORT]		Rear side satellite sensor LH circuit is shorted to ground.	
C-PILLAR SATELLITE SENSOR RH [SENSOR FAIL]	B0097	Rear side satellite sensor RH has malfunctioned.	Refer to SRC-84, "Diagnosis Procedure".
C-PILLAR SATELLITE SENSOR RH [COMM FAIL]		Rear side satellite sensor RH communication error.	
C-PILLAR SATELLITE SENSOR RH [DISCONNECT]		Rear side satellite sensor RH is disconnected.	
C-PILLAR SATELLITE SENSOR RH [UNMATCH]		Rear side satellite sensor RH is out of specification.	
C-PILLAR SATELLITE SENSOR RH [GND-SHORT]		Rear side satellite sensor RH circuit is shorted to ground.	

CONSULT name	DTC	DTC detecting condition	Repair order
OCCUPANT DETECTION SENSOR UNIT [UNIT FAIL]	B00A0	The OCS control unit is malfunctioning.	Refer to SRC-87, "Diagnosis Procedure".
OCCUPANT DETECTION SENSOR UNIT [NO DATA]			
OCCUPANT DETECTION SENSOR UNIT [UNDEFINED]			
OCCUPANT DETECTION SENSOR UNIT [RESET FAIL]			
OCCUPANT DETECTION SENSOR UNIT [COMM FAIL]		Communication between the OCS control unit and the air bag diagnosis sensor unit is interrupted.	
OCCUPANT DETECTION SENSOR [UNIT FAIL]		The OCS sensor is malfunctioning.	
OCCUPANT DETECTION SENSOR [POWER FAIL]		The OCS sensor circuit is malfunctioning.	
CONTROL UNIT [UNIT FAIL]	B14XX	Air bag diagnosis sensor unit is malfunctioning.	Refer to SRC-89, "Diagnosis Procedure".
PASSENGER AIRBAG INDICATOR CIRCUIT [FAIL]	B00D5	Front passenger air bag OFF indicator is malfunctioning.	Refer to SRC-91, "Diagnosis Procedure".
PASSENGER AIRBAG INDICATOR CIRCUIT [OPEN]		Front passenger air bag OFF indicator circuit is open.	
PASSENGER AIRBAG INDICATOR CIRCUIT [VB-SHORT]		Front passenger air bag OFF indicator is shorted to a power supply circuit.	
PASSENGER AIRBAG INDICATOR CIRCUIT [GND-SHORT]		Front passenger air bag OFF indicator is shorted to ground.	
IGN VOLTAGE [LOW]	B142A	Ignition voltage to the air bag diagnosis sensor unit is low.	Refer to SRC-93, "Diagnosis Procedure".
IGN VOLTAGE [HIGH]		Ignition voltage to the air bag diagnosis sensor unit is high.	
CAN COMMUNICATION FAILURE	U1000	CAN system communication faiilure.	Refer to SRC-95, "Diagnosis Procedure".
CAN COMMUNICATION FAILURE [CONTROL UNIT]	U1010	CAN system (control unit) faiilure.	Refer to SRC-96, "Diagnosis Procedure".
FRONTAL COLLISION DETECTION	B1421	Frontal collision detected. Driver and/or front passenger air bag modules are deployed.	Refer to SR-5, "FOR FRONTAL COLLISION : When SRS is activated in a collision" or SR-6, "FOR FRONTAL COLLISION : When SRS is not activated in a collision".
SIDE COLLISION DETECTION	B1422	Side collision detected. Curtain air bag module and seat belt pre-tensioner are deployed.	Refer to SR-7, "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision" or SR-8, "FOR SIDE AND ROLLOVER COLLISION : When SRS is not activated in a collision".

Flash Code Index

INFOID:0000000010246012

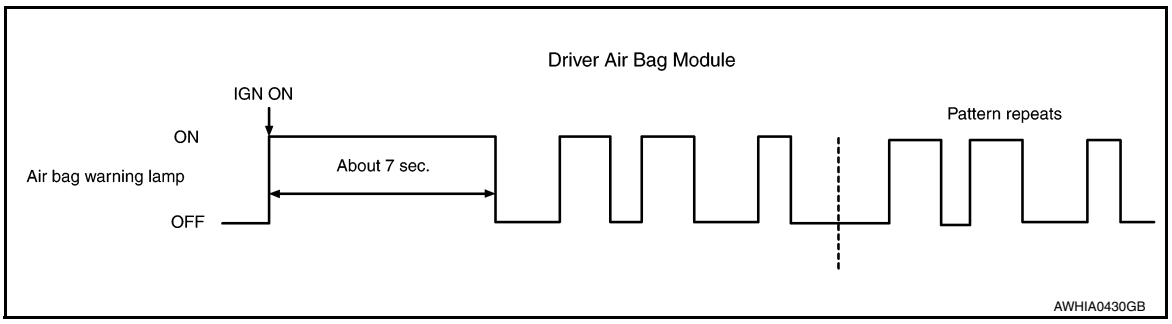
WARNING LAMP FLASH CODE CHART

How to read flash codes

1. Put the vehicle in Diagnosis Mode. Refer to SRC-16, "On Board Diagnosis Function".
2. All codes are proceded by a seven second "holding" flash.
3. Identify how many primary flashes are displayed as well as the length of each primary flash.
4. Refer to the tables and examples below to determine which SRS subsystem the code belongs to.
5. Count the short secondary flashes that follow the primary flashes.
6. Match the correct flashing pattern to the malfunctioning component and perform the Diagnosis Procedure.

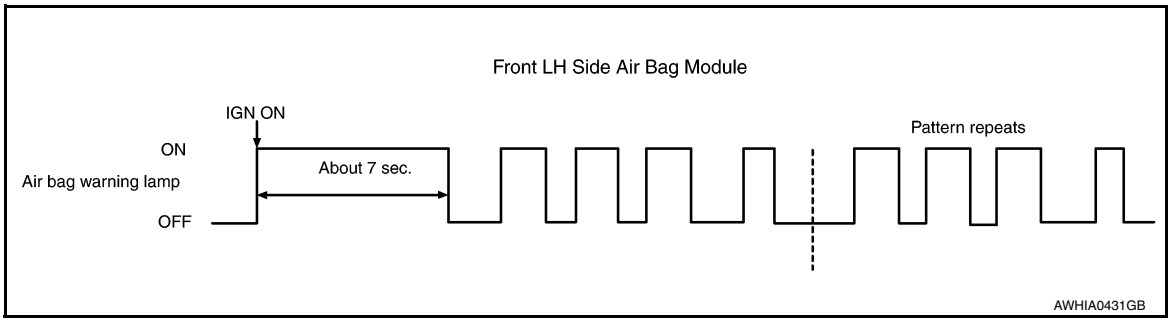
Refer to the illustrations below for an example of each flashing pattern.

Front subsystem



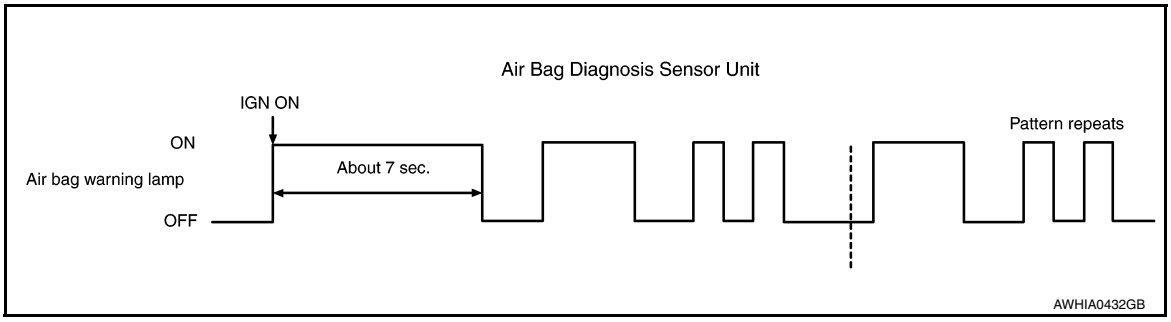
Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	1.5	1	Driver air bag module	SRC-47, "Diagnosis Procedure"
		2	Passenger air bag module	SRC-49, "Diagnosis Procedure"
		3	Front LH seat belt pre-tensioner	SRC-59, "Diagnosis Procedure"
		4	Front RH seat belt pre-tensioner	SRC-61, "Diagnosis Procedure"

Side subsystem



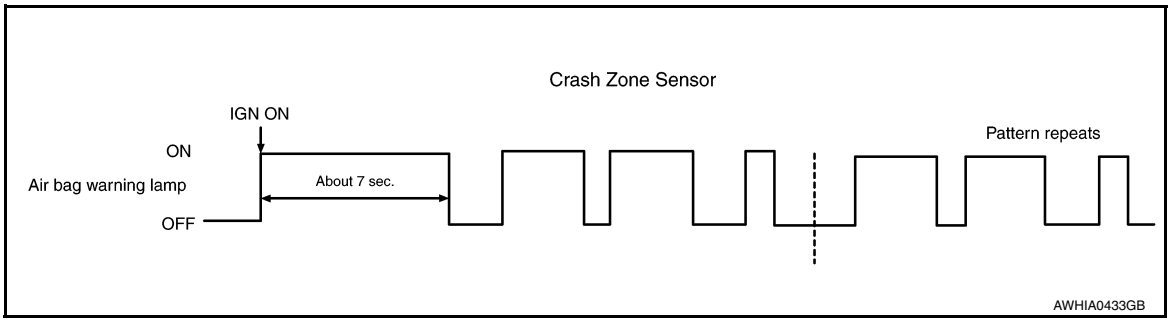
Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
3	1.5	1	Front LH side air bag module	SRC-51, "Diagnosis Procedure"
		2	Front RH side air bag module	SRC-53, "Diagnosis Procedure"
		3	LH side curtain air bag module	SRC-55, "Diagnosis Procedure"
		4	RH side curtain air bag module	SRC-57, "Diagnosis Procedure"

Air bag subsystem



Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
1	3	1	Collision detection	SRC-97, "Diagnosis Procedure"
		2	Air bag diagnosis sensor unit	SRC-89, "Diagnosis Procedure"
		3	Passenger air bag OFF indicator	SRC-91, "Diagnosis Procedure"
		4	Occupant classification system	SRC-87, "Diagnosis Procedure"

Sensor subsystem



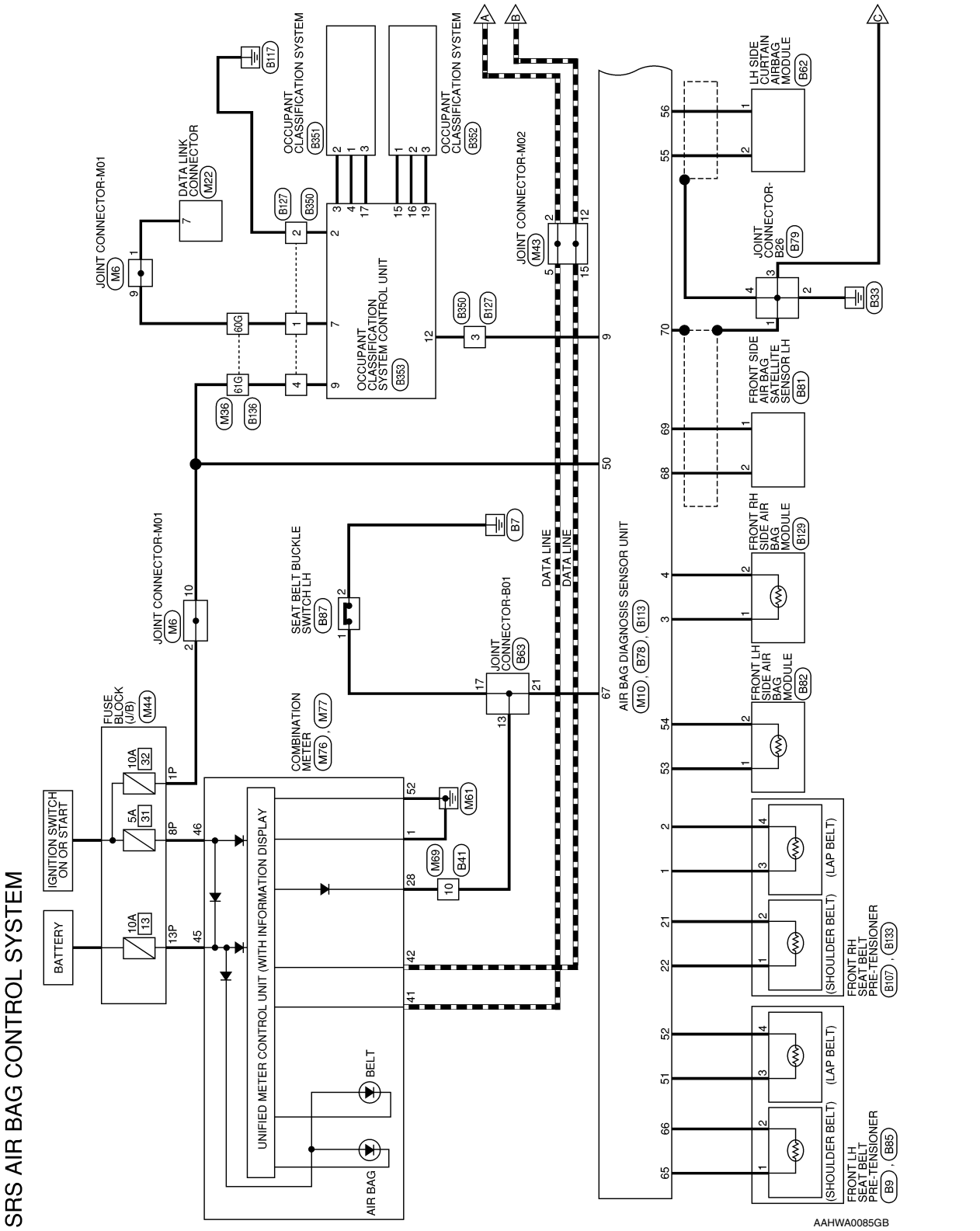
Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	3	1	Crash zone sensor	SRC-68, "Diagnosis Procedure"
		2	Front side air bag satellite sensor LH	SRC-75, "Diagnosis Procedure"
		3	Front side air bag satellite sensor RH	SRC-78, "Diagnosis Procedure"
		4	Rear side satellite sensor LH	SRC-81, "Diagnosis Procedure"
		5	Rear side satellite sensor RH	SRC-84, "Diagnosis Procedure"
		6	Front door satellite sensor LH	SRC-70, "Diagnosis Procedure"
		7	Front door satellite sensor RH	SRC-72, "Diagnosis Procedure"
		8	Seat belt buckle switch LH	SRC-63, "Diagnosis Procedure"
		9	Seat belt buckle switch RH	SRC-66, "Diagnosis Procedure"

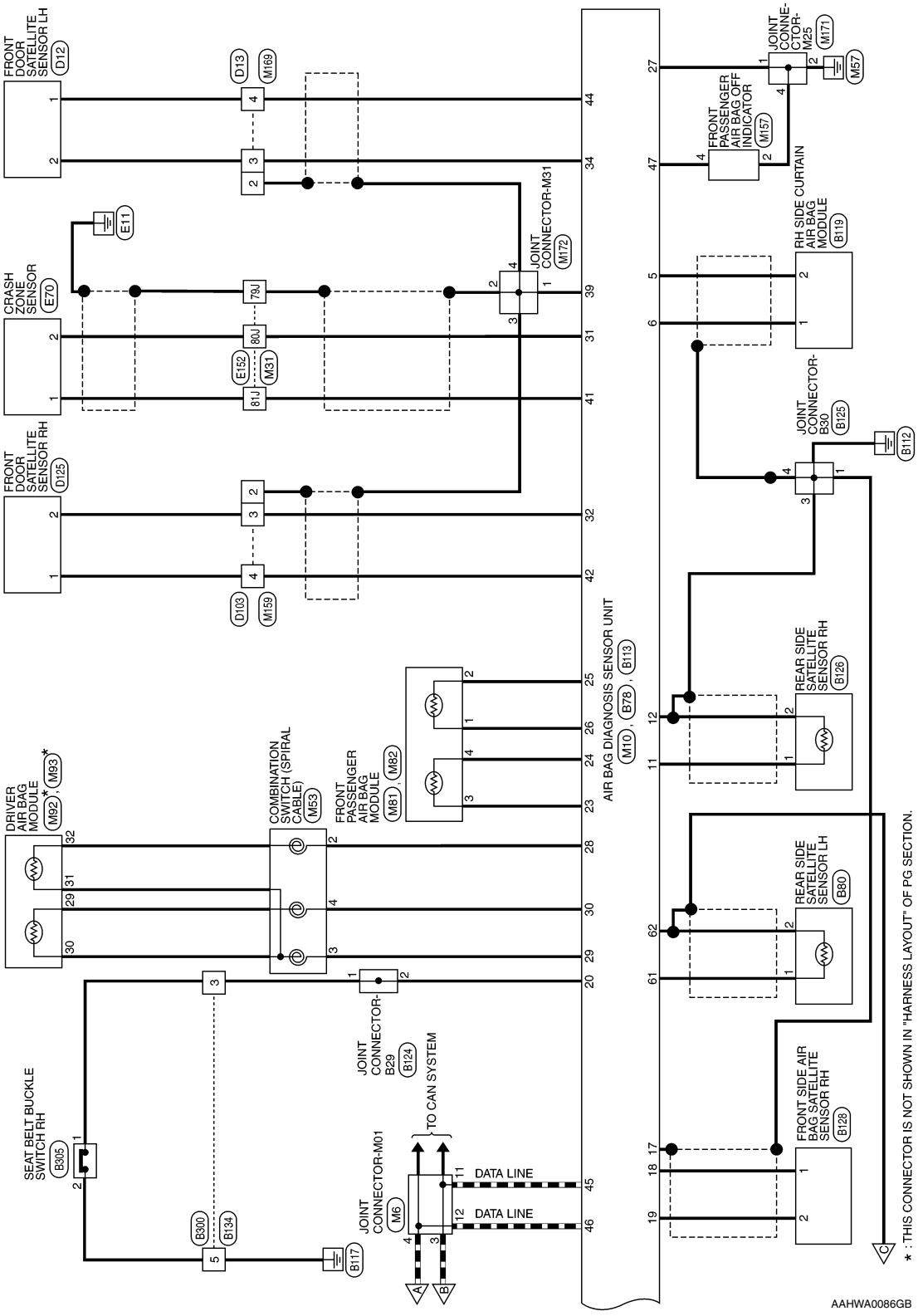
WIRING DIAGRAM

SRS AIR BAG SYSTEM

Wiring Diagram

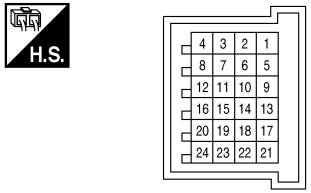
INFOID:0000000010223813




FRONT DOOR SATELLITE SENSOR LH D12
D13
M169
CRASH ZONE SENSOR E70
E11
E152
M31
JOINT CONNECTOR-M31 M172
FRONT DOOR SATELLITE SENSOR RH D125
D103
M159
AIR BAG DIAGNOSIS SENSOR UNIT M10, B78, B113
DRIVER AIR BAG MODULE M92*, M93*
COMBINATION SWITCH (SPIRAL CABLE) M53
FRONT PASSENGER AIR BAG MODULE M81, M82
SEAT BELT BUCKLE SWITCH RH B305
JOINT CONNECTOR-B29 B124
TO CAN SYSTEM
JOINT CONNECTOR-M01 M6
B300
B134
B117
DATA LINE
DATA LINE
JOINT CONNE-CTOR-M25 M171
M57
FRONT PASSENGER AIR BAG OFF INDICATOR M157
RH SIDE CURTAIN AIR BAG MODULE B119
JOINT CONNECTOR-B30 B125
B112
REAR SIDE SATELLITE SENSOR RH B126
REAR SIDE SATELLITE SENSOR LH B80
FRONT SIDE AIR BAG SATELLITE SENSOR RH B128
* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.
AAHWA0086GB

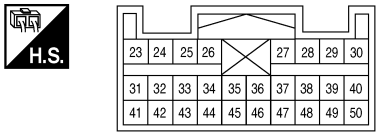
SRS AIR BAG CONTROL SYSTEM CONNECTORS

Connector No.	M6
Connector Name	JOINT CONNECTOR-M01
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	GR	–
2	R	–
3	P	–
4	L	–
9	GR	–
10	R	–
11	P	–
12	L	–

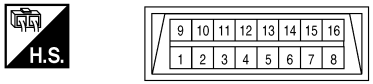
Connector No.	M10
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color	YELLOW



Terminal No.	Color of Wire	Signal Name
23	L	AS2+
24	BG	AS2-
25	LG	AS1-
26	SB	AS1+
27	B	GND
28	V	DR2+
29	V	DR1- & DR2-
30	G	DR1+

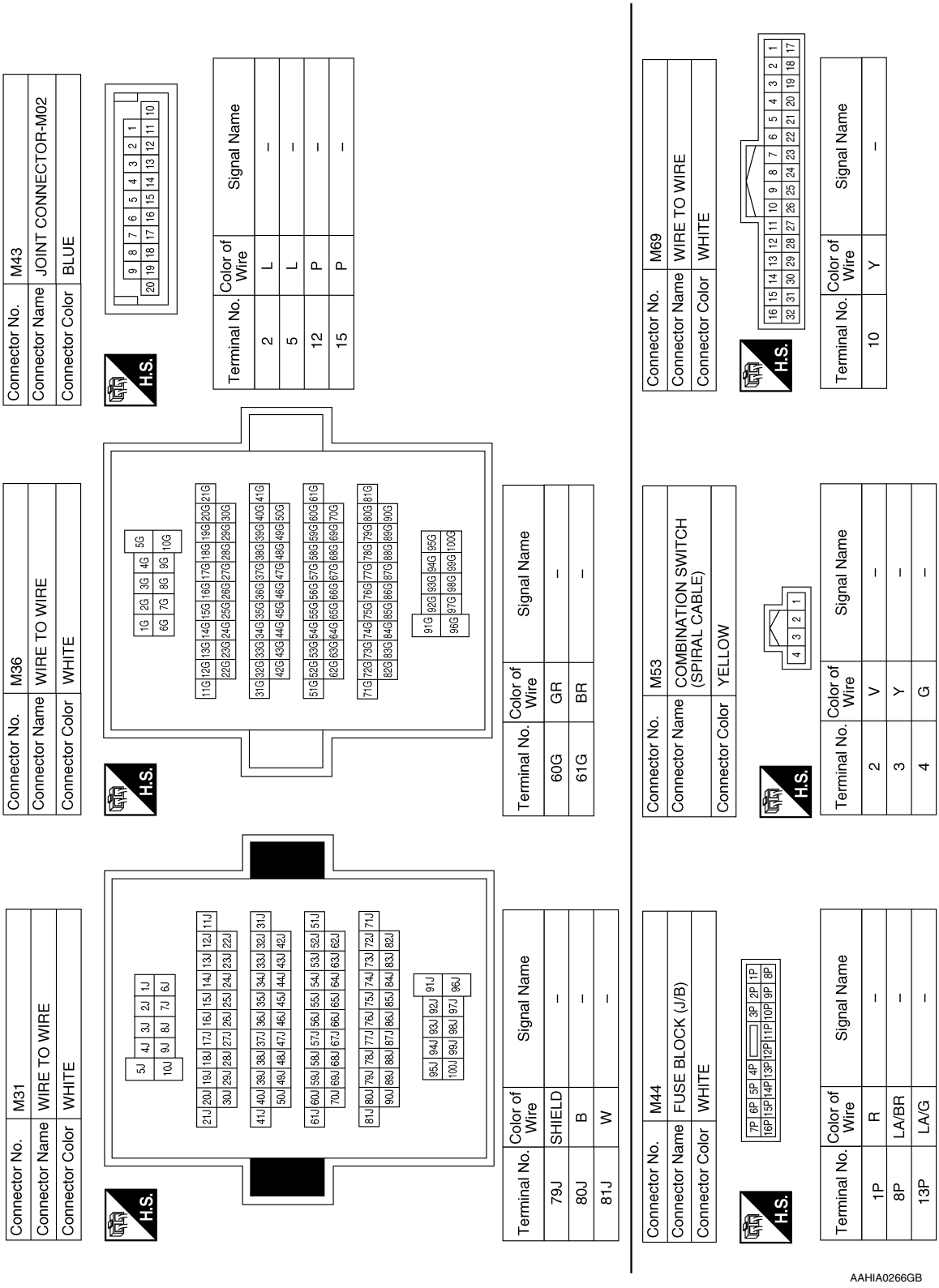
Terminal No.	Color of Wire	Signal Name
31	B	ECZS-
32	BR	RH DOOR-SAT-
33	–	–
34	G	LH DOOR-SAT-
35	–	–
36	–	–
37	–	–
38	–	–
39	B	GND
40	–	–
41	W	ECZS+
42	Y	RH DOOR-SAT+
43	–	–
44	R	LH DOOR-SAT+
45	P	CAN–L
46	L	CAN–H
47	GR	TELLTALE LAMP OFF
48	–	–
49	–	–
50	R	IGN

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



Terminal No.	Color of Wire	Signal Name
7	GR	–

AAHIA0265GB


Connector No. M43
Connector Name JOINT CONNECTOR-M02
Connector Color BLUE
H.S.
9 8 7 6 5 4 3 2 1
20 19 18 17 16 15 14 13 12 11 10
Terminal No. Color of Wire Signal Name
2 L –
5 L –
12 P –
15 P –
Connector No. M36
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
1G 2G 3G 4G 5G
6G 7G 8G 9G 10G
11G 12G 13G 14G 15G 16G 17G 18G 19G 20G 21G
22G 23G 24G 25G 26G 27G 28G 29G 30G
31G 32G 33G 34G 35G 36G 37G 38G 39G 40G 41G
42G 43G 44G 45G 46G 47G 48G 49G 50G
51G 52G 53G 54G 55G 56G 57G 58G 59G 60G 61G
62G 63G 64G 65G 66G 67G 68G 69G 70G
71G 72G 73G 74G 75G 76G 77G 78G 79G 80G 81G
82G 83G 84G 85G 86G 87G 88G 89G 90G
91G 92G 93G 94G 95G
96G 97G 98G 99G 100G
Terminal No. Color of Wire Signal Name
60G GR –
61G BR –
Connector No. M69
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17
Terminal No. Color of Wire Signal Name
10 Y –
Connector No. M31
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
81J 80J 79J 78J 77J 76J 75J 74J 73J 72J 71J
90J 89J 88J 87J 86J 85J 84J 83J 82J
95J 94J 93J 92J 91J
100J 99J 98J 97J 96J
Terminal No. Color of Wire Signal Name
79J SHIELD –
80J B –
81J W –
Connector No. M53
Connector Name COMBINATION SWITCH (SPIRAL CABLE)
Connector Color YELLOW
H.S.
4 3 2 1
Terminal No. Color of Wire Signal Name
2 V –
3 Y –
4 G –
Connector No. M44
Connector Name FUSE BLOCK (J/B)
Connector Color WHITE
H.S.
7P 6P 5P 4P 3P 2P 1P
16P 15P 14P 13P 12P 11P 10P 9P 8P
Terminal No. Color of Wire Signal Name
1P R –
8P LA/BR –
13P LA/G –
AAHIA0266GB

Connector No.	M76
Connector Name	COMBINATION METER
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
1	B	GND1
28	Y	DR BELT SW

Connector No.	M77
Connector Name	COMBINATION METER
Connector Color	WHITE

H.S.

41	42	43	44	45	46
47	48	49	50	51	52

Terminal No.	Color of Wire	Signal Name
41	L	CAN–H
42	P	CAN–L
45	LA/G	BAT
46	LA/BR	IGN
52	B	G1

Connector No.	M81
Connector Name	FRONT PASSENGER AIR BAG MODULE
Connector Color	ORANGE

H.S.

1	2

Terminal No.	Color of Wire	Signal Name
1	SB	–
2	LG	–

Connector No.	M82
Connector Name	FRONT PASSENGER AIR BAG MODULE
Connector Color	BLACK

H.S.

3	4

Terminal No.	Color of Wire	Signal Name
3	L	–
4	BG	–

Connector No.	M92
Connector Name	DRIVER AIR BAG MODULE
Connector Color	YELLOW

H.S.

30	29

Terminal No.	Color of Wire	Signal Name
29	G	–
30	Y	–

Connector No.	M93
Connector Name	DRIVER AIR BAG MODULE
Connector Color	ORANGE

H.S.

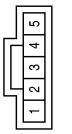
32	31

Terminal No.	Color of Wire	Signal Name
31	L	–
32	R	–

AAHIA0267GB

Connector No.	M157
Connector Name	FRONT PASSENGER AIR BAG OFF INDICATOR
Connector Color	BLACK

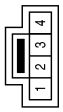
H.S.



Terminal No.	Color of Wire	Signal Name
2	B	–
4	GR	–

Connector No.	M159
Connector Name	WIRE TO WIRE
Connector Color	YELLOW

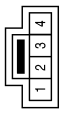
H.S.



Terminal No.	Color of Wire	Signal Name
2	SHIELD	–
3	BR	–
4	Y	–

Connector No.	M169
Connector Name	WIRE TO WIRE
Connector Color	YELLOW

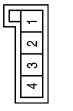
H.S.



Terminal No.	Color of Wire	Signal Name
2	SHIELD	–
3	G	–
4	R	–

Connector No.	M171
Connector Name	JOINT CONNECTOR-M25
Connector Color	WHITE

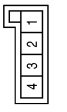
H.S.



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

Connector No.	M172
Connector Name	JOINT CONNECTOR-M31
Connector Color	WHITE

H.S.



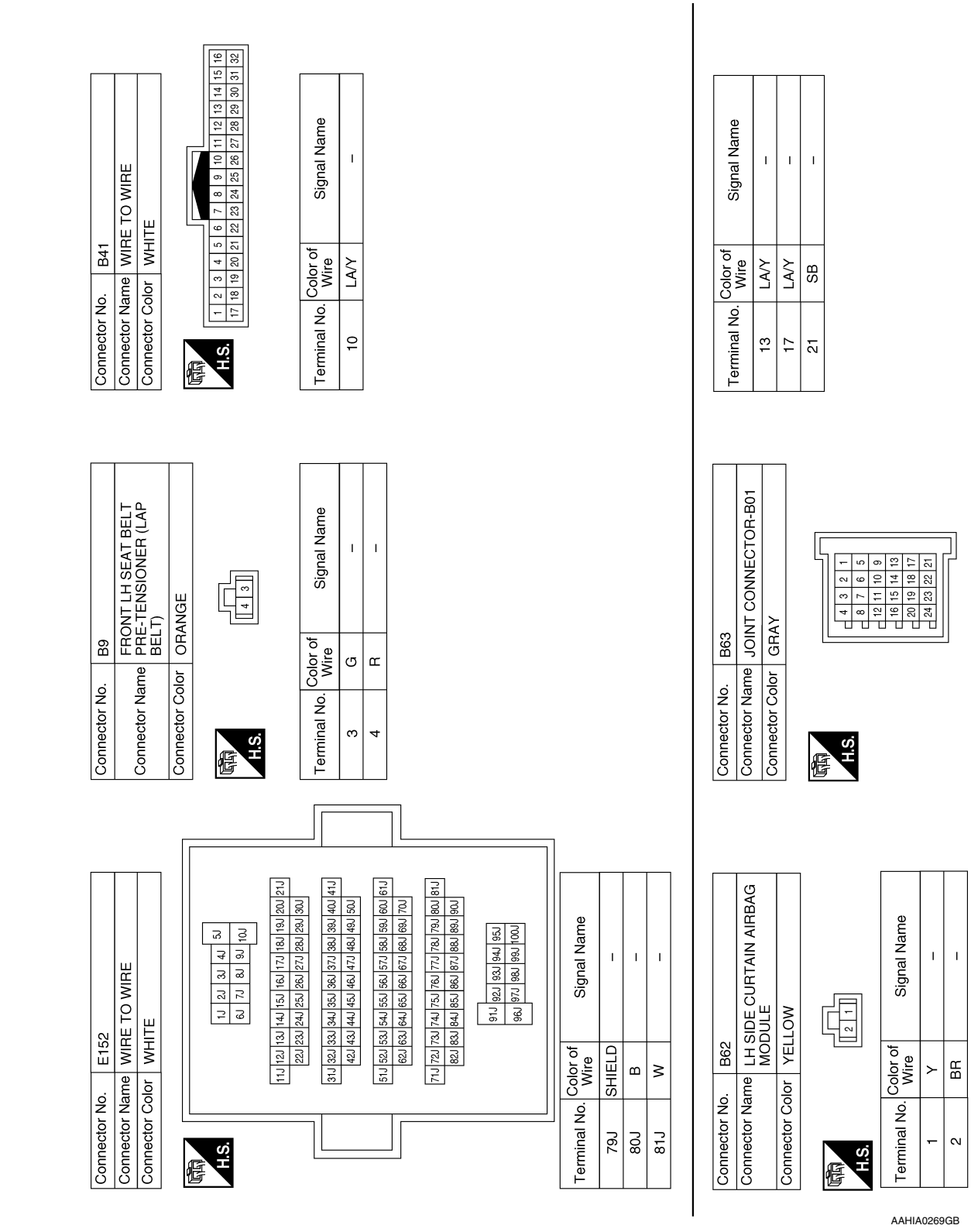
Terminal No.	Color of Wire	Signal Name
1	B	–
2	SHIELD	–
3	SHIELD	–
4	SHIELD	–

Connector No.	E70
Connector Name	CRASH ZONE SENSOR
Connector Color	YELLOW

H.S.

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

AAHIA0268GB


Connector No. E152
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
Terminal No. Color of Wire Signal Name
79J SHIELD –
80J B –
81J W –
Connector No. B9
Connector Name FRONT LH SEAT BELT PRE-TENSIONER (LAP BELT)
Connector Color ORANGE
H.S.
Terminal No. Color of Wire Signal Name
3 G –
4 R –
Connector No. B41
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
Terminal No. Color of Wire Signal Name
10 LA/Y –
Connector No. B62
Connector Name LH SIDE CURTAIN AIRBAG MODULE
Connector Color YELLOW
H.S.
Terminal No. Color of Wire Signal Name
1 Y –
2 BR –
Connector No. B63
Connector Name JOINT CONNECTOR-B01
Connector Color GRAY
H.S.
Terminal No. Color of Wire Signal Name
13 LA/Y –
17 LA/Y –
21 SB –
AAHIA0269GB

Connector No.	B78
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
51	G	LH SQUIB #1+
52	R	LH SQUIB #1-
53	V	LH SQUIB #2+
54	LG	LH SQUIB #2-
55	BR	LH SQUIB #3-
56	Y	LH SQUIB #3+
57	–	–
58	–	–
59	–	–
60	–	–

Connector No.	B80
Connector Name	REAR SIDE SATELLITE SENSOR LH
Connector Color	YELLOW

H.S.

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

Terminal No.	Color of Wire	Signal Name
61	L	LH C-SAT+
62	P	LH C-SAT-
63	–	–
64	–	–
65	P	P-LH+
66	GR	P-LH-
67	SB	LH BUCKLE SW
68	G	LH B-SAT-
69	R	LH B-SAT+
70	SHIELD	GND
71	–	–
72	–	–

Connector No.	B81
Connector Name	FRONT AIR BAG SATELLITE SENSOR LH
Connector Color	YELLOW

H.S.

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

Connector No.	B79
Connector Name	JOINT CONNECTOR-B26
Connector Color	WHITE

H.S.

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

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

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	–
2	LG	–

AAHIA0270GB

Connector No.	B85
Connector Name	FRONT LH SEAT BELT PRE-TENSIONER (SHOULDER BELT)
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	–
2	GR	–

Connector No.	B87
Connector Name	SEAT BELT BUCKLE SWITCH LH
Connector Color	WHITE

H.S.

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

Connector No.	B107
Connector Name	FRONT RH SEAT BELT PRE-TENSIONER (LAP BELT)
Connector Color	ORANGE

H.S.

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

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

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	RH SQUIB #1+
2	L	RH SQUIB #1-
3	V	RH SQUIB #2+
4	P	RH SQUIB #2-
5	B	RH SQUIB #3-
6	W	RH SQUIB #3+
7	–	–
8	–	–
9	BG	ODS
10	–	–
11	BR	RH C-SAT+
12	Y	RH C-SAT-
13	–	–
14	–	–
15	–	–
16	–	–
17	SHIELD	GND
18	R	RH B-SAT+
19	G	RH B-SAT-
20	SB	RH BUCKLE SW +
21	V	P-RH1-
22	LG	P-RH1+

Connector No.	B119
Connector Name	RH SIDE CURTAIN AIRBAG MODULE
Connector Color	YELLOW

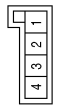
H.S.

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

AAHIA0271GB

Connector No.	B124
Connector Name	JOINT CONNECTOR-B29
Connector Color	WHITE

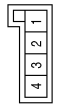
H.S.



Terminal No.	Color of Wire	Signal Name
1	SB	–
2	SB	–

Connector No.	B125
Connector Name	JOINT CONNECTOR-B30
Connector Color	WHITE

H.S.



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

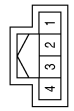
Connector No.	B126
Connector Name	REAR SIDE SATELLITE SENSOR RH
Connector Color	YELLOW

H.S.

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

Connector No.	B127
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	GR	–
2	B	–
3	BG	–
4	V	–

Connector No.	B128
Connector Name	FRONT SIDE AIR BAG SATELLITE SENSOR RH
Connector Color	YELLOW

H.S.

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

Connector No.	B129
Connector Name	FRONT RH SIDE AIR BAG MODULE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	–
2	P	–

AAHIA0272GB

Connector No.	B133
Connector Name	FRONT RH SEATBELT PRE-TENSIONER (SHOULDER BELT)
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	–
2	V	–

Connector No.	B134
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
3	SB	–
5	B	–

Connector No.	B136
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
60G	GR	–
61G	V	–

Connector No.	B300
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
3	BR	–
5	P	–

Connector No.	B305
Connector Name	SEAT BELT BUCKLE SWITCH RH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	BR	–
2	P	–

Connector No.	B350
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	GR	–
2	B	–
3	BR/W	–
4	W	–

AAHIA0273GB

Connector No.	B351
Connector Name	OCCUPANT CLASSIFICATION SENSOR FL
Connector Color	BLACK

H.S.

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

Connector No.	B352
Connector Name	OCCUPANT CLASSIFICATION SYSTEM SENSOR RL
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	W/L	–
2	SB	–
3	Y	–

Connector No.	B353
Connector Name	OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	B	GND
3	LG	LOAD SENSOR FRONT INNER SIGNAL
4	R/B	LOAD SENSOR FRONT INNER GND
5	–	–
6	–	–
7	GR	K-LINE

Terminal No.	Color of Wire	Signal Name
9	W	IGN
12	BR/W	ACU COMM
13	–	–
14	–	–
15	W/L	LOAD SENSOR REAR INNER GND
16	SB	LOAD SENSOR REAR INNER SIGNAL
17	R	LOAD SENSOR FRONT INNER VCC
19	Y	LOAD SENSOR REAR INNER VCC
20	–	–

Connector No.	D12
Connector Name	FRONT DOOR SATELLITE SENSOR LH
Connector Color	YELLOW

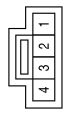
H.S.

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

AAHIA0274GB

Connector No.	D13
Connector Name	WIRE TO WIRE
Connector Color	YELLOW

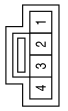
H.S.



Terminal No.	Color of Wire	Signal Name
3	R	–
4	G	–

Connector No.	D103
Connector Name	WIRE TO WIRE
Connector Color	YELLOW

H.S.



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

Connector No.	D125
Connector Name	FRONT DOOR SATELLITE SENSOR RH
Connector Color	YELLOW

H.S.

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

AAHIA0275GB

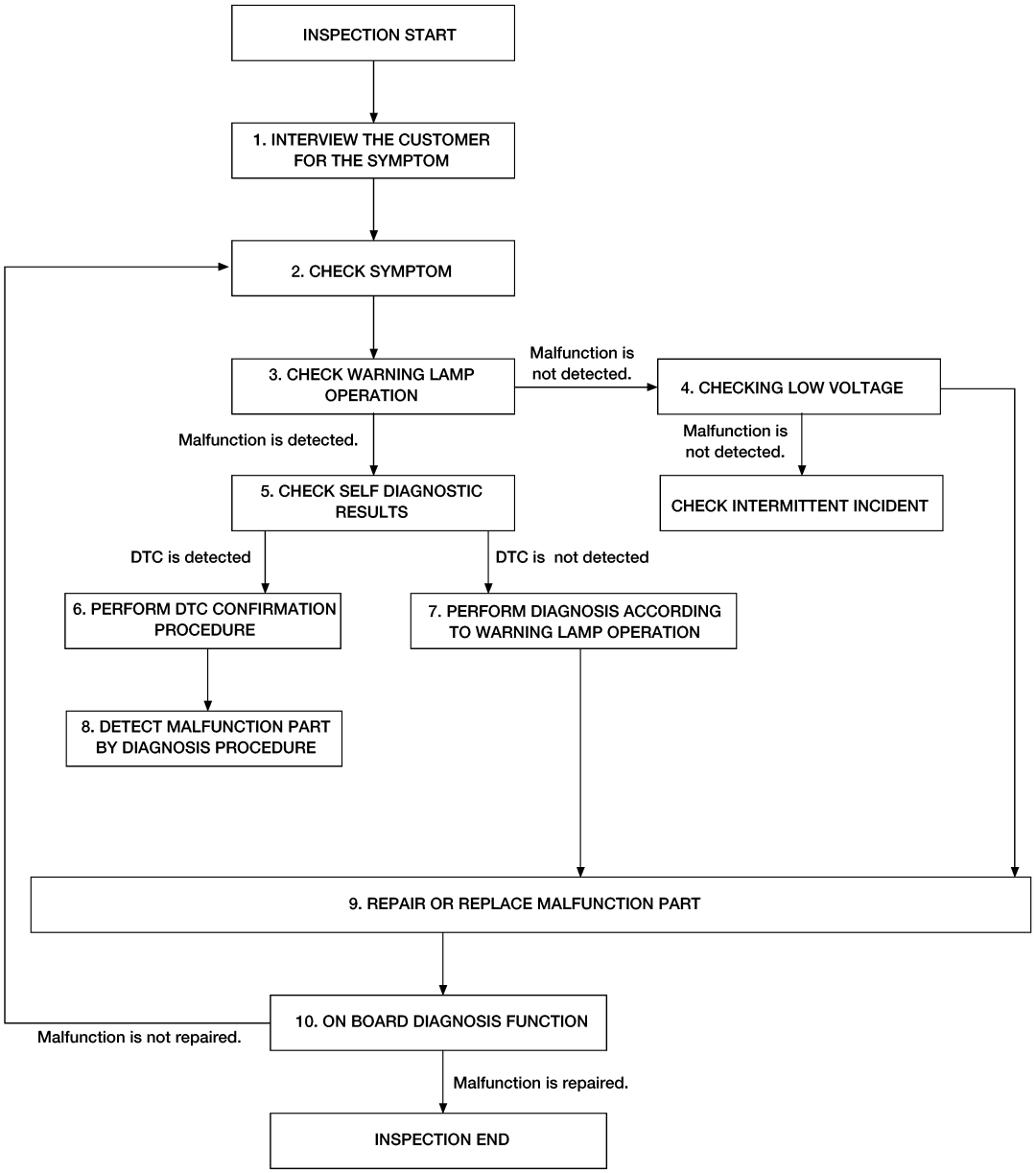
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000010246013

OVERALL SEQUENCE



AWHIA0555GB

DETAILED FLOW

1.INTERVIEW THE CUSTOMER FOR THE SYMPTOM

Interview the customer for the symptom (the condition and the environment when the incident/malfunction occurs).

>> GO TO 2.

2.CHECK SYMPTOM

Check the symptom from the customer information.

>> GO TO 3.

3.CHECK WARNING LAMP OPERATION

Check air bag warning lamp operation in the user mode.

Are any malfunction detected?

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

4.CHECK LOW VOLTAGE

Check low voltage with CONSULT.

Are any malfunction detected?

YES >> GO TO 9.
NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

5.CHECK SELF DIAGNOSTIC RESULTS

Check self diagnostic result with CONSULT or diagnosis mode.
If it is impossible to switch to diagnosis mode, follow the same procedure that DTC is not detected.

NOTE:
Perform the following procedure if DTC is detected.

- Record DTC (Print them out with CONSULT.)
- Erase self diagnostic result.
- Study the relationship between the malfunction that DTC or air bag warning lamp indicates and the symptom that the customer describes.
- Check related service bulletins for information.

Is DTC detected?

YES >> GO TO 6.
NO >> GO TO 7.

6.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the DTC.

>> GO TO 8.

7.PERFORM DIAGNOSIS ACCORDING TO WARNING LAMP OPERATION

1. Check air bag warning lamp operation in the user mode.
2. Perform Diagnosis Procedure for the air bag warning lamp operation.

>> GO TO 9.

8.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the DTC.

>> GO TO 9.

9.REPAIR OR REPLACE THE MALFUNCTION PART

Repair or replace the malfunctioning part.

>> GO TO 10.

10. ON BOARD DIAGNOSIS FUNCTION

Check self diagnostic result and air bag warning lamp operation in the user mode.

Is the malfunction repaired?

YES >> Inspection End.
NO >> GO TO 2.

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000010246014

- When replacing the occupant classification system control unit, perform zero point reset procedure. Refer to SRC-42, "ZERO POINT RESET : Special Repair Requirement".
- When replacing the air bag diagnosis sensor unit configuration of the air bag diagnosis sensor unit is required. Refer to SRC-43, "CONFIGURATION : Work Procedure".

ZERO POINT RESET

ZERO POINT RESET : Description

INFOID:0000000010246016

Always perform zero point reset using CONSULT when removing and installing the passenger seat or servicing the occupant classification system. If zero point reset is not performed the OCS may not operate normally, which may increase the risk of serious injury in a collision. Zero point reset is an initializing procedure for occupant detection sensor that must be performed when replacing or removing and installing passenger seat.
If zero point reset is not performed, the initialization is incomplete and Occupant Detection System does not operate normally.

NOTE:

- When zero point reset is performed once after removal and installation of passenger seat, CONSULT displays “complete”.
- When reinstalling passenger seat after removal, the initial value for occupant detection sensor changes, and Occupant Detection System does not operate normally.
- Always perform zero point reset after performing the work as per the following.

- Reinstallation of passenger seat
- Installation of passenger seat that is zero point reset complete
- Installation of passenger seat that is zero point reset in complete

ZERO POINT RESET : Special Repair Requirement

INFOID:0000000010325960

1. PERFORM ZERO POINT RESET

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

>> GO TO 2.

2. CONFIRMATION OF SETTING

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

CAUTION:

- **“Complete” is displayed on “zero point reset current status” if the seat is reinstalled by seat removal and installation, or “zero point reset” is already performed.**
- **“Zero point reset current status” displays “Incomplete” if a new seat is installed. When turning key switch ON without performing zero point reset, front passenger air bag OFF indicator turns ON. When zero point reset is performed, front passenger air bag OFF indicator turns OFF.**
- **Air bag warning lamp blinks in user mode only.**

- **Air bag sensor unit does not record whether or not zero point reset is performed.**

Is condition “ALREADY PERFORMED”?

YES >> Print out “ZERO POINT RESET CURRENT STATUS” screen, and inspection end.
NO >> Check condition as per the following, and perform zero point reset again.
- Passenger seat is occupied by an object.
- Excessive vibration is applied while performing zero point reset.
- Occupant detection system is malfunctioning.

NOTE:
If “Incomplete” is displayed on “zero point reset current status”, zero point reset is not completed normally. Check the condition as per the following and perform zero point reset again.
- Passenger seat is occupied by an object.
- Excessive vibration is applied while performing zero point reset.
- Occupant detection system is malfunctioning.

CONFIGURATION

CONFIGURATION : Description

INFOID:0000000010321314

When replacing air bag diagnosis sensor unit, save or print current vehicle specification with CONSULT configuration before replacement.

NOTE:
If “Before Replace ECU” cannot be used, use the “After Replace ECU” or “Manual Configuration” after replacing air bag diagnosis sensor unit.

CONFIGURATION : Work Procedure

INFOID:0000000010321315

CAUTION:
- **When replacing ECU, you must perform “Write Configuration” with CONSULT.**
- **Complete the procedure of “Write Configuration” in order.**
- **If you set incorrect “Write Configuration”, incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**
- **Never perform “Write Configuration” except for new air bag diagnosis sensor unit.**
- **When replacing BCM, perform the system initialization (NATS).**

CONFIGURATION

Vehicle specification needs to be written with CONSULT because it is not written after replacing air bag diagnosis sensor unit.

Configuration has three functions as follows:

Function	Description
"Before Replace ECU"	• Reads the vehicle configuration of current air bag diagnosis sensor unit. • Saves the read vehicle configuration.
"After Replace ECU"	Writes the vehicle configuration with manual selection.
"Select Saved Data List"	Writes the vehicle configuration with saved data.

CAUTION:
- **When replacing air bag diagnosis sensor unit, you must perform “Select Saved Data List” or "After Replace ECU" with CONSULT.**
- **Complete the procedure of “Select Saved Data List” or "After Replace ECU" in order.**
- **If you set incorrect “Select Saved Data List” or "After Replace ECU", incidents might occur.**
- **Configuration is different for each vehicle model. Confirm configuration of each vehicle model.**
- **Never perform “Select Saved Data List” or "After Replace ECU" except for new air bag diagnosis sensor unit.**

1.SAVING VEHICLE SPECIFICATION

CONSULT

Enter "Re/Programming, Configuration" and perform “Before Replace ECU” to save or print current vehicle specification.

NOTE:
If “Before Replace ECU” cannot be used, use the "After Replace ECU" or "Manual Configuration" after replacing BCM.

>> GO TO 2.

2. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

CONSULT

1. Enter "Re/Programming, Configuration".
2. If “Before Replace ECU” operation was performed, automatically an "Operation Log Selection" screen will be displayed. Select the applicable file from the "Saved Data List" and press “Confirm” to write vehicle specification.
3. If “Before Replace ECU” operation was not performed, select "After Replace ECU" or "Manual Configuration" to write vehicle specification.

- Select “After Replace ECU” or “Manual Configuration”.
- Identify the correct model and configuration list.
- Confirm and/or change setting value for each item.

CAUTION:

Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.

- Select “Next”.

CAUTION:

Make sure to select “Next”, confirm each setting value and press “OK” even if the indicated configuration of brand new air bag diagnosis sensor unit is same as the desirable configuration. If not, configuration which is set automatically by selecting vehicle model cannot be memorized.

- When "Completed", select "End".

>> GO TO 4.

4. OPERATION CHECK

Confirm that each function controlled by air bag diagnosis sensor unit.

>> Work End.

INTERMITTENT INCIDENT

Inspection Procedure

INFOID:0000000010246018

INTERMITTENT TROUBLE

An intermittent incident may have occurred 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] if the DTC has not been erased. Refer to SRC-18, "Trouble Diagnosis with CONSULT".

DTC/CIRCUIT DIAGNOSIS

B0001, B0002 DRIVER AIRBAG MODULE

DTC Logic

INFOID:0000000010245949

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
DRIVER AIRBAG MODULE CIRCUIT [OPEN]	B0001	Driver air bag module circuit (DR1) is open (including the spiral cable).	Refer to SRC-47, "Diagnosis Procedure".
DRIVER AIRBAG MODULE CIRCUIT [VB-SHORT]		Driver air bag module circuit (DR1) is shorted to a power supply circuit (including the spiral cable).	
DRIVER AIRBAG MODULE CIRCUIT [GND-SHORT]		Driver air bag module circuit (DR1) is shorted to ground (including the spiral cable).	
DRIVER AIRBAG MODULE CIRCUIT [SHORT]		Driver air bag module circuits (DR1) are shorted to each other (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [OPEN]	B0002	Driver air bag module circuit (DR2) is open (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [VB-SHORT]		Driver air bag module circuit (DR2) is shorted to a power supply circuit (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [GND-SHORT]		Driver air bag module circuit (DR2) is shorted to ground (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [SHORT]		Driver air bag module circuits (DR2) are shorted to each other (including the spiral cable).	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-47, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-47, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-47, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245950

WARNING:

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

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:

All harness connectors should be inspected from the air bag diagnosis unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:

The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CHECK SPIRAL CABLE CIRCUIT

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

Driver air bag module		Combination switch (spiral cable)		Continuity
Connector	Terminal	Connector	Terminal	
B92	29	M53	4	Yes
	30		3	
B93	32		2	
	31		3	

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

Driver side air bag module		Ground	Continuity
Connector	Terminal		
B92	29		No
	30		
B93	32		
	31		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace combination switch (spiral cable). Refer to SR-15, "Removal and Installation".

5.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Refer to GI-41, "Intermittent Incident".

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.DRIVER AIR BAG MODULE

1. Replace the driver air bag module. Refer to SR-12, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 8.
NO >> Clear DTC. Inspection End.

8.RELATED HARNESS

Replace the related harness.

>> **END**

B0010, B0011 PASSENGER AIRBAG MODULE

DTC Logic

INFOID:0000000010245951

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
ASSIST AIRBAG MODULE CIRCUIT [OPEN]	B0010	Front passenger air bag module circuit (AS1) is open.	Refer to SRC-49, "Diagnosis Procedure".
ASSIST AIRBAG MODULE CIRCUIT [VB-SHORT]		Front passenger air bag module circuit (AS1) is shorted to a power supply circuit.	
ASSIST AIRBAG MODULE CIRCUIT [GND-SHORT]		Front passenger air bag module circuit (AS1) is shorted to ground.	
ASSIST AIRBAG MODULE CIRCUIT [SHORT]		Front passenger air bag module circuits (AS1) are shorted to each other.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [OPEN]	B0011	Front passenger air bag module circuit (AS2) is open.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [VB-SHORT]		Front passenger air bag module circuit (AS2) is shorted to a power supply circuit.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [GND-SHORT]		Front passenger air bag module circuit (AS2) is shorted to ground.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [SHORT]		Front passenger air bag module circuits (AS2) are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-49, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-49, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-49, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245952

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2. CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4. CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5. AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6. FRONT PASSENGER AIR BAG MODULE

1. Replace the front passenger air bag module. Refer to SR-17, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7. RELATED HARNESS

Replace the related harness.

>> **END**

B0020 SIDE AIRBAG MODULE LH

Description

INFOID:0000000010245953

DTC B0020 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-6, "Component Parts Location".

DTC Logic

INFOID:0000000010245954

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
SIDE AIRBAG MODULE LH CIRCUIT [OPEN]	B0020	Front LH side air bag module circuit is open.	Refer to SRC-51, "Diagnosis Procedure".
SIDE AIRBAG MODULE LH CIRCUIT [VB-SHORT]		Front LH side air bag module circuit is shorted to a power supply circuit.	
SIDE AIRBAG MODULE LH CIRCUIT [GND-SHORT]		Front LH side air bag module circuit is shorted to ground.	
SIDE AIRBAG MODULE LH CIRCUIT [SHORT]		Front LH side air bag module circuits are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-51, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

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

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

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

Diagnosis Procedure

INFOID:0000000010245955

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.SIDE AIRBAG MODULE LH

1. Replace the side airbag module LH. Refer to SR-21, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0028 SIDE AIRBAG MODULE RH

Description

INFOID:0000000010245956

DTC B0028 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-6, "Component Parts Location".

DTC Logic

INFOID:0000000010245957

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
SIDE AIRBAG MODULE RH CIRCUIT [OPEN]	B0028	Front RH side air bag module circuit is open.	Refer to SRC-53, "Diagnosis Procedure".
SIDE AIRBAG MODULE RH CIRCUIT [VB-SHORT]		Front RH side air bag module circuit is shorted to a power supply circuit.	
SIDE AIRBAG MODULE RH CIRCUIT [GND-SHORT]		Front RH side air bag module circuit is shorted to ground.	
SIDE AIRBAG MODULE RH CIRCUIT [SHORT]		Front RH side air bag module circuits are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-53, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-53, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-53, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245958

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.SIDE AIRBAG MODULE RH

1. Replace the side airbag module RH. Refer to SR-21, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0021 SIDE CURTAIN AIR BAG MODULE LH

DTC Logic

INFOID:0000000010245959

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
CURTAIN AIRBAG MODULE LH CIRCUIT [OPEN]	B0021	LH side curtain air bag module circuit is open.	Refer to SRC-55, "Diagnosis Procedure".
CURTAIN AIRBAG MODULE LH CIRCUIT [VB-SHORT]		LH side curtain air bag module circuit is shorted to a power supply circuit.	
CURTAIN AIRBAG MODULE LH CIRCUIT [GND-SHORT]		LH side curtain air bag module circuit is shorted to ground.	
CURTAIN AIRBAG MODULE LH CIRCUIT [SHORT]		LH side curtain air bag module circuits are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-55, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-55, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-55, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245960

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis unit to the end component (including in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.

- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.SIDE CURTAIN AIR BAG MODULE LH

1. Replace the side curtain air bag module LH. Refer to SR-21, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0029 SIDE CURTAIN AIR BAG MODULE RH

DTC Logic

INFOID:0000000010245961

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
CURTAIN AIRBAG MODULE RH CIRCUIT [OPEN]	B0029	RH side curtain air bag module circuit is open.	Refer to SRC-57, "Diagnosis Procedure".
CURTAIN AIRBAG MODULE RH CIRCUIT [VB-SHORT]		RH side curtain air bag module circuit is shorted to a power supply circuit.	
CURTAIN AIRBAG MODULE RH CIRCUIT [GND-SHORT]		RH side curtain air bag module circuit is shorted to ground.	
CURTAIN AIRBAG MODULE RH CIRCUIT [SHORT]		RH side curtain air bag module circuits are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-57, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

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

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

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

Diagnosis Procedure

INFOID:0000000010245962

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis unit to the end component (including in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.

- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.SIDE CURTAIN AIR BAG MODULE RH

1. Replace the side curtain air bag module RH. Refer to SR-19, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B1430 SEAT BELT PRE-TENSIONER

DTC Logic

INFOID:0000000010245963

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
FRONT PRE-TEN LH CIRCUIT [OPEN]	B1430	Front LH seat belt pre-tensioner circuit is open.	Refer to SRC-59, "Diagnosis Procedure".
FRONT PRE-TEN LH CIRCUIT [VB-SHORT]		Front LH seat belt pre-tensioner circuit is shorted to a power supply circuit.	
FRONT PRE-TEN LH CIRCUIT [GND-SHORT]		Front LH seat belt pre-tensioner circuit is shorted to ground.	
FRONT PRE-TEN LH CIRCUIT [SHORT]		Front LH seat belt pre-tensioner circuits are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-59, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

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

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

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

Diagnosis Procedure

INFOID:0000000010245964

1.HARNESS CONNECTOR

Check the harness connector for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4. CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5. AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6. FRONT LH SEAT BELT PRE-TENSIONER

1. Replace the front LH seat belt pre-tensioner. Refer to SR-28, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7. RELATED HARNESS

Replace the related harness.

>> **END**

B1431 SEAT BELT PRE-TENSIONER

DTC Logic

INFOID:0000000010245965

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
FRONT PRE-TEN RH CIRCUIT [OPEN]	B1431	RH seat belt pre-tensioner circuit is open.	Refer to SRC-61, "Diagnosis Procedure".
FRONT PRE-TEN RH CIRCUIT [VB-SHORT]		RH seat belt pre-tensioner circuit is shorted to a power supply circuit.	
FRONT PRE-TEN RH CIRCUIT [GND-SHORT]		RH seat belt pre-tensioner circuit is shorted to ground.	
FRONT PRE-TEN RH CIRCUIT [SHORT]		RH seat belt pre-tensioner circuits are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-61, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-61, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-61, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245966

1.HARNESS CONNECTOR

Check the harness connector for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.
NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.SEAT BELT PRE-TENSIONER RH

1. Replace the seat belt pre-tensioner RH. Refer to SR-28, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B1428 SEAT BELT BUCKLE SWITCH LH

Description

INFOID:0000000010245967

DTC B1428 SEAT BELT BUCKLE SWITCH LH

The air bag diagnosis sensor unit monitors the seat belt buckle switch LH status. If the control unit detects an open or short condition in the circuit, it will set the DTC.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010245968

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
SEAT BELT BUCKLE SW LH CIRCUIT [OPEN]	B1428	Seat belt buckle switch LH circuit is open.	Refer to SRC-63, "Diagnosis Procedure".
SEAT BELT BUCKLE SW LH CIRCUIT [VB-SHORT]		Seat belt buckle switch LH circuit is shorted to a power supply circuit.	
SEAT BELT BUCKLE SW LH CIRCUIT [GND-SHORT]		Seat belt buckle switch LH circuit is shorted to ground.	
SEAT BELT BUCKLE SW LH CIRCUIT [UNDEFINED]		Seat belt buckle switch LH circuit is malfunctioning.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-63, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-63, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-63, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245969

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.SEAT BELT BUCKLE SWITCH LH

1. Replace the seat buckle switch LH. Refer to SR-29, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B1429 SEAT BELT BUCKLE SWITCH RH

Description

INFOID:0000000010245970

DTC B1429 SEAT BELT BUCKLE SWITCH RH

The air bag diagnosis sensor unit monitors the seat belt buckle switch RH status. If the control unit detects an open or short condition in the circuit, it will set the DTC.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010245971

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
SEAT BELT BUCKLE SW RH CIRCUIT [OPEN]	B1429	Seat belt buckle switch RH circuit is open.	Refer to SRC-66, "Diagnosis Procedure".
SEAT BELT BUCKLE SW RH CIRCUIT [VB-SHORT]		Seat belt buckle switch RH circuit is shorted to a power supply circuit.	
SEAT BELT BUCKLE SW RH CIRCUIT [GND-SHORT]		Seat belt buckle switch RH circuit is shorted to ground.	
SEAT BELT BUCKLE SW RH CIRCUIT [UNDEFINED]		Seat belt buckle switch RH circuit is malfunctioning.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-57, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

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

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

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

Diagnosis Procedure

INFOID:0000000010245972

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.SEAT BELT BUCKLE RH

1. Replace the seat buckle RH. Refer to SR-29, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0094 CRASH ZONE SENSOR

DTC Logic

INFOID:0000000010245973

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
CRASH ZONE SENSOR [SENSOR FAIL]	B0094	Crash zone sensor has malfunctioned.	Refer to SRC-68, "Diagnosis Procedure".
CRASH ZONE SENSOR [COMM FAIL]		Crash zone sensor communication error.	
CRASH ZONE SENSOR [DISCONNECT]		Crash zone sensor is disconnected.	
CRASH ZONE SENSOR [UNMATCH]		Crash zone sensor is out of specification.	
CRASH ZONE SENSOR [GND-SHORT]		Crash zone sensor circuit is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-68, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-68, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-68, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245974

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2. CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4. CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5. CRASH ZONE SENSOR

1. Replace the crash zone sensor. Refer to SR-22, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6. AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7. RELATED HARNESS

Replace the related harness.

>> **END**

B0093 FRONT DOOR SATELLITE SENSOR LH

DTC Logic

INFOID:0000000010245975

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
DOOR SATELLITE SENSOR LH [SENSOR FAIL]	B0093	Front door satellite sensor LH has malfunctioned.	Refer to SRC-70, "Diagnosis Procedure".
DOOR SATELLITE SENSOR LH [COMM FAIL]		Front door satellite sensor LH communication error.	
DOOR SATELLITE SENSOR LH [DISCONNECT]		Front door satellite sensor LH is disconnected.	
DOOR SATELLITE SENSOR LH [UNMATCH]		Front door satellite sensor LH is out of specification.	
DOOR SATELLITE SENSOR LH [GND-SHORT]		Front door satellite sensor LH circuit is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-70, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-70, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-70, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245976

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:

The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.FRONT DOOR SATELLITE SENSOR LH

1. Replace the front door satellite sensor LH. Refer to SR-24, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0098 FRONT DOOR SATELLITE SENSOR RH

DTC Logic

INFOID:0000000010245977

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
DOOR SATELLITE SENSOR RH [SENSOR FAIL]	B0098	Front door satellite sensor RH has malfunctioned.	Refer to SRC-72, "Diagnosis Procedure".
DOOR SATELLITE SENSOR RH [COMM FAIL]		Front door satellite sensor RH communication error.	
DOOR SATELLITE SENSOR RH [DISCONNECT]		Front door satellite sensor RH is disconnected.	
DOOR SATELLITE SENSOR RH [UNMATCH]		Front door satellite sensor RH is out of specification.	
DOOR SATELLITE SENSOR RH [GND-SHORT]		Front door satellite sensor RH circuit is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-72, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-72, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-72, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245978

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:

The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.FRONT DOOR SATELLITE SENSOR LH

1. Replace the front door satellite sensor LH. Refer to SR-24, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0091 FRONT SIDE AIR BAG SATELLITE SENSOR LH

Description

INFOID:0000000010245979

DTC B0091 FRONT SATELLITE SENSOR LH

The front side air bag satellite sensor LH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor the front side air bag satellite sensor LH for internal failures and its circuits for communication errors.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010245980

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
B-PILLAR SATELLITE SENSOR LH [SENSOR FAIL]	B0091	Front side air bag satellite sensor LH has malfunctioned.	Refer to SRC-75, "Diagnosis Procedure".
B-PILLAR SATELLITE SENSOR LH [COMM FAIL]		Front side air bag satellite sensor LH communication error.	
B-PILLAR SATELLITE SENSOR LH [DISCONNECT]		Front side air bag satellite sensor LH is disconnected.	
B-PILLAR SATELLITE SENSOR LH [UNMATCH]		Front side air bag satellite sensor LH is out of specification.	
B-PILLAR SATELLITE SENSOR LH [GND-SHORT]		Front side air bag satellite sensor LH circuit is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-75, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-75, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-75, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245981

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.FRONT SIDE AIR BAG SATELLITE SENSOR LH

1. Replace the front side air bag satellite sensor LH. Refer to SR-24, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0096 FRONT SIDE AIR BAG SATELLITE SENSOR RH

Description

INFOID:0000000010245982

DTC B0096 FRONT SATELLITE SENSOR RH

The front side air bag satellite sensor RH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor the front side air bag satellite sensor RH for internal failures and its circuits for communication errors.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010245983

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
B-PILLAR SATELLITE SENSOR RH [SENSOR FAIL]	B0096	Front side air bag satellite sensor RH has malfunctioned.	Refer to SRC-78, "Diagnosis Procedure".
B-PILLAR SATELLITE SENSOR RH [COMM FAIL]		Front side air bag satellite sensor RH communication error.	
B-PILLAR SATELLITE SENSOR RH [DISCONNECT]		Front side air bag satellite sensor RH is disconnected.	
B-PILLAR SATELLITE SENSOR RH [UNMATCH]		Front side air bag satellite sensor RH is out of specification.	
B-PILLAR SATELLITE SENSOR RH [GND-SHORT]		Front side air bag satellite sensor RH circuit is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-78, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-78, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-78, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245984

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.FRONT SIDE AIR BAG SATELLITE SENSOR RH

1. Replace the front side air bag satellite sensor RH. Refer to SR-24, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.

NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0092 REAR SIDE AIR BAG SATELLITE SENSOR LH

Description

INFOID:0000000010245985

DTC B0092 REAR SATELLITE SENSOR LH

The rear side air bag satellite sensor LH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor the rear side air bag satellite sensor LH for internal failures and its circuits for communication errors.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010245986

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
C-PILLAR SATELLITE SENSOR LH [SENSOR FAIL]	B0092	Rear side satellite sensor LH has malfunctioned.	Refer to SRC-81, "Diagnosis Procedure".
C-PILLAR SATELLITE SENSOR LH [COMM FAIL]		Rear side satellite sensor LH communication error.	
C-PILLAR SATELLITE SENSOR LH [DISCONNECT]		Rear side satellite sensor LH is disconnected.	
C-PILLAR SATELLITE SENSOR LH [UNMATCH]		Rear side satellite sensor LH is out of specification.	
C-PILLAR SATELLITE SENSOR LH [GND-SHORT]		Rear side satellite sensor LH circuit is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-81, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-81, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-81, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245987

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.REAR SIDE SATELLITE SENSOR LH

1. Replace the rear side satellite sensor LH. Refer to SR-24, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0097 REAR SIDE AIR BAG SATELLITE SENSOR RH

Description

INFOID:0000000010245988

DTC B0097 REAR SATELLITE SENSOR RH

The rear side air bag satellite sensor RH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor the rear side air bag satellite sensor RH for internal failures and its circuits for communication errors.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010245989

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
C-PILLAR SATELLITE SENSOR RH [SENSOR FAIL]	B0097	Rear side satellite sensor RH has malfunctioned.	Refer to SRC-84, "Diagnosis Procedure".
C-PILLAR SATELLITE SENSOR RH [COMM FAIL]		Rear side satellite sensor RH communication error.	
C-PILLAR SATELLITE SENSOR RH [DISCONNECT]		Rear side satellite sensor RH is disconnected.	
C-PILLAR SATELLITE SENSOR RH [UNMATCH]		Rear side satellite sensor RH is out of specification.	
C-PILLAR SATELLITE SENSOR RH [GND-SHORT]		Rear side satellite sensor RH circuit is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-84, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-84, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-84, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245990

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.REAR SIDE SATELLITE SENSOR RH

1. Replace the rear side satellite sensor RH. Refer to SR-24, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B00A0 OCS SYSTEM

Description

INFOID:0000000010245991

DTC B1017, B1018, B1020, B1021, B1022, B1025, B1032, B1048 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 interruptions in communication between the OCS control unit and the air bag diagnosis sensor unit.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010245992

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
OCCUPANT DETECTION SENSOR UNIT [UNIT FAIL]	B00A0	The OCS control unit is malfunctioning.	Refer to SRC-87, "Diagnosis Procedure".
OCCUPANT DETECTION SENSOR UNIT [NO DATA]			
OCCUPANT DETECTION SENSOR UNIT [UNDEFINED]			
OCCUPANT DETECTION SENSOR UNIT [RESET FAIL]			
OCCUPANT DETECTION SENSOR [UNIT FAIL]		The OCS sensor is malfunctioning.	
OCCUPANT DETECTION SENSOR [POWER FAIL]		The OCS sensor circuit is malfunctioning.	
OCCUPANT DETECTION SENSOR UNIT [COMM FAIL]		Communication between the OCS control unit and the air bag diagnosis sensor unit is interrupted.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-87, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-87, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-87, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245993

Recheck SRS after each corrective action.

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.REPLACE OCCUPANT DETECTION SYSTEM CONTROL UNIT

1. Replace the occupant detection system control unit. Refer to SR-30, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7. RELATED HARNESS

Replace the related harness.

>> **END**

B14XX AIR BAG DIAGNOSIS SENSOR UNIT

Description

INFOID:0000000010245994

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-18, "CONSULT Function (AIR BAG)".

DTC Logic

INFOID:0000000010245995

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
CONTROL UNIT [UNIT FAIL]	B14XX	Air bag diagnosis sensor unit is malfunctioning.	Refer to SRC-89, "Diagnosis Procedure".
AIRBAG DISPOSAL COMPLETION			

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-89, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-89, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-89, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245996

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2. CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4. CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5. AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6. RELATED HARNESS

Replace the related harness.

>> **END**

B00D5 FRONT PASSENGER AIR BAG OFF INDICATOR

DTC Logic

INFOID:0000000010245997

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
PASSENGER AIRBAG INDICATOR CIRCUIT [FAIL]	B00D5	Front passenger air bag OFF indicator is malfunctioning.	Refer to SRC-91, "Diagnosis Procedure".
PASSENGER AIRBAG INDICATOR CIRCUIT [OPEN]		Front passenger air bag OFF indicator circuit is open.	
PASSENGER AIRBAG INDICATOR CIRCUIT [VB-SHORT]		Front passenger air bag OFF indicator is shorted to a power supply circuit.	
PASSENGER AIRBAG INDICATOR CIRCUIT [GND-SHORT]		Front passenger air bag OFF indicator is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check for DTC using CONSULT.

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-91, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-91, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-16, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-91, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010245998

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

NOTE:
All harness connectors should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-41, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:
The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).

Is the inspection result normal?

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

4.CONFIRM DTC

1. Reconnect all harness connectors.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-41, "Intermittent Incident".

5.FRONT PASSENGER AIR BAG OFF INDICATOR

1. Replace the front passenger air bag off indicator.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B142A IGNITION VOLTAGE

Description

INFOID:0000000010245999

DTC B142A IGNITION VOLTAGE

Ignition voltage is supplied to the air bag diagnosis sensor unit when the ignition is in the ON position. The air bag diagnosis sensor unit will monitor for low or high ignition voltage.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010246000

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
IGN VOLTAGE [LOW]	B142A	Ignition voltage low at air bag diagnosis sensor unit.	Refer to SRC-93, "Diagnosis Procedure".
IGN VOLTAGE [HIGH]		Ignition voltage high at air bag diagnosis sensor unit.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

YES >> Refer to SRC-93, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010246001

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.

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-26, "Removal and Installation".

>> GO TO 4

4. RELATED HARNESS

Replace the related harness.

>> **END**

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000010246002

CAN (Controller Area Network) is a serial communication system for real time application. It is an on-vehicle multiplex communication system with high data communication speed and excellent error detection ability. Many electronic control units are equipped into vehicles, and each control unit shares information and links with other control units during operation. With CAN communication, control units are connected with two communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits and receives data but selectively reads required data only. Refer to LAN-32, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart".

DTC Logic

INFOID:0000000010246003

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
CAN COMMUNICATION FAILURE	U1000	When air bag diagnosis sensor unit is not transmitting or receiving CAN communication signals for 2 or more seconds.	Refer to SRC-95, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE

1.PERFORM SELF-DIAGNOSIS

1. Turn ignition switch ON and wait for 7 seconds or more.
2. Using CONSULT, perform SELF-DIAGNOSIS RESULTS of AIR BAG.
3. Check if any DTC is displayed in the self-diagnosis results.

Is DTC detected?

YES >> Refer to SRC-95, "Diagnosis Procedure".
NO >> Refer to GI-41, "Intermittent Incident".

Diagnosis Procedure

INFOID:0000000010246004

1.CHECK CAN COMMUNICATION SYSTEM

Check CAN communication system. Refer to LAN-17, "Trouble Diagnosis Flow Chart".

>> Inspection End.

U1010 CONTROL UNIT (CAN)

Description

INFOID:0000000010246005

Air bag diagnosis sensor performs self-tests on key ON. If CAN communication failure within control unit is detected, DTC is set.

DTC Logic

INFOID:0000000010246006

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
CAN CONTROL UNIT FAILURE	U1010	CAN communication error is detected in control unit.	Refer to SRC-96, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE

1.PERFORM SELF-DIAGNOSIS

1. Turn ignition switch ON.
2. Using CONSULT, perform SELF DIAGNOSIS RESULTS of AIR BAG.
3. Check if DTC is displayed in the self-diagnosis results.

Is DTC detected?

YES >> Refer to SRC-96, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010246007

1.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".

>> Inspection End.

B142X COLLISION DETECTION

Description

INFOID:0000000010246008

DTC B1209 - B1211 COLLISION DETECTION

The air bag diagnosis sensor unit will set this DTC if it has detected a collision 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-6, "Component Parts Location".

DTC Logic

INFOID:0000000010246009

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
FRONTAL COLLISION DETECTION	B1421	Frontal collision detected. Driver and/or front passenger air bag modules are deployed.	Refer to SR-5, "FOR FRONTAL COLLISION : When SRS is activated in a collision" or SR-6, "FOR FRONTAL COLLISION : When SRS is not activated in a collision".
SIDE COLLISION DETECTION	B1422	Side collision detected. Curtain air bag module and seat belt pre-tensioner are deployed.	Refer to SR-7, "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision" or SR-8, "FOR SIDE AND ROLLOVER COLLISION : When SRS is not activated in a collision"

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

YES >> Refer to SRC-97, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010246010

Refer to Frontal collision: SR-5, "FOR FRONTAL COLLISION : When SRS is activated in a collision", SR-6, "FOR FRONTAL COLLISION : When SRS is not activated in a collision" or SR-7, "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision" or Side and rollover collision: SR-8, "FOR SIDE AND ROLLOVER COLLISION : When SRS is not activated in a collision"

SYMPTOM DIAGNOSIS

SRS AIR BAG WARNING LAMP DOES NOT TURN ON

AIR BAG Warning Lamp Does Not Turn On

INFOID:0000000010245941

1.CHECK METER FUSE

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

Does the fuse blow again?

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

3.CHECK HARNESS CONNECTIONS BETWEEN AIR BAG DIAGNOSIS SENSOR UNIT AND COMBINATION 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-26, "Removal and Installation".
NO >> Replace the combination meter. Refer to MWI-82, "Removal and Installation".

SRS AIR BAG WARNING LAMP DOES NOT TURN OFF

AIR BAG Warning Lamp Does Not Turn Off

INFOID:0000000010245942

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 Frontal collision: SR-5, "FOR FRONTAL COLLISION : When SRS is activated in a collision", SR-6, "FOR FRONTAL COLLISION : When SRS is not activated in a collision" or Side and rollover collision: SR-7, "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision", SR-8, "FOR SIDE AND ROLLOVER COLLISION : When SRS is not activated in a collision".

NO >> GO TO 2.

2.CHECK THE AIR BAG FUSE

Check 10A fuse [No. 32, 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. 32, located in the fuse block (J/B)] and turn ignition switch ON.

Does the fuse blow again?

YES >> Replace fuse and harness.

NO >> Inspection End.

4.CHECK AIR BAG DIAGNOSIS SENSOR UNIT

Connect CONSULT.

Is “AIR BAG” displayed on CONSULT?

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-26, "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. Refer to SR-26, "Removal and Installation".

SEAT BELT WARNING SYSTEM

Seat Belt Warning System Does Not Function

INFOID:0000000010245943

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. 13, located in the fuse block (J/B)].
- Check seat belt buckle switch (driver seat).
- Check harness between combination meter and seat belt buckle switch (driver seat).
- Check combination meter. Refer to MWI-29, "Fail-safe".

2.SEAT BELT BUCKLE (DRIVER SEAT)

Fasten the seat belt buckle (driver seat).

Does the seat belt warning lamp go OFF?

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

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-13, "OCCUPANT CLASSIFICATION SYSTEM : System Description".
- Check harness between occupant classification control unit and air bag diagnosis sensor unit.

4.SEAT BELT BUCKLE (PASSENGER SEAT)

Fasten the seat belt buckle (passenger seat).

Does the seat belt warning lamp go OFF?

YES >> System OK.
NO >>
- Check seat belt buckle switch (passenger seat).
- Check harness between seat belt buckle switch (passenger seat) and air bag diagnosis sensor unit.
- Replace air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation".