# SRS AIRBAG CONTROL SYSTEM

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#### **PRECAUTIONS**

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# **PRECAUTION**

## **PRECAUTIONS**

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

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.

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

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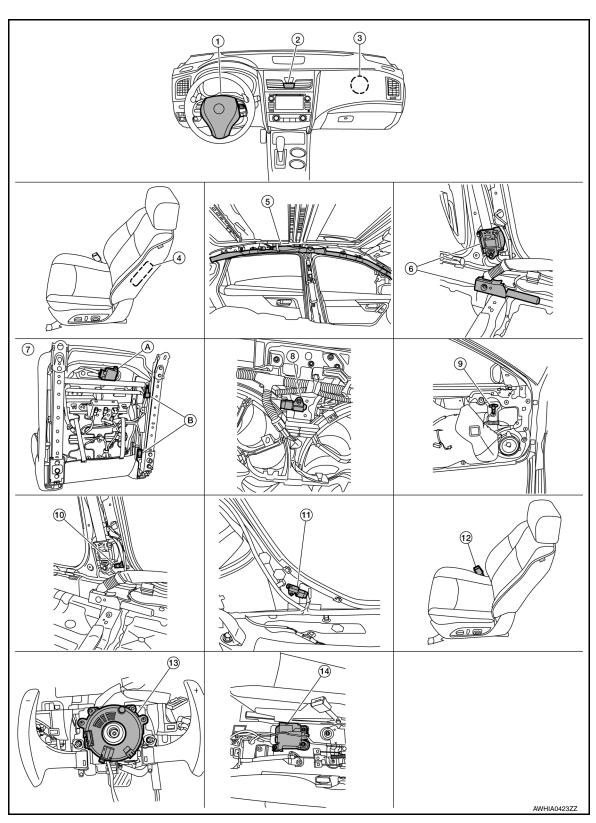
- Do not use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 min-
  - For approximately 3 minutes after the cables are removed, it is still possible for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

  " pointing toward the front of the vehicle for proper operation. Also check air bag diagnosis sensor unit for cracks, deformities or rust before installation and replace as required.
- The spiral cable must be aligned with the neutral position since its rotations are limited. Do not attempt to turn steering wheel or column after removal of steering gear.
- Handle air bag module carefully. Always place driver and front passenger air bag modules with the pad side facing upward and seat mounted front side air bag module standing with the stud bolt side facing down.
- · Conduct self-diagnosis to check entire SRS for proper function after replacing any components.
- After air bag inflates, the front instrument panel assembly should be replaced if damaged.

# SYSTEM DESCRIPTION

## **COMPONENT PARTS**

**Component Parts Location** 



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#### **COMPONENT PARTS**

#### < SYSTEM DESCRIPTION >

1. Driver air bag module 2. Front passenger air bag off indicator 3. Front passenger air bag module LH side curtain air bag module 6. 4. Front LH side air bag module Front LH seatbelt pre-tensioner (RH similar) (view with headliner removed) (view with lower center pillar cover LH (RH similar) removed) (RH similar) Occupant classification system control 8. Crash zone sensor Front door satellite sensor LH (view with front door finisher LH re-(view with air intake removed) Occupant classification system senmoved) sors (B) (RH similar) (view with front passenger seat removed) 10. Front side air bag satellite sensor LH 11. Rear side air bag satellite sensor LH Seat belt buckle switch (driver seat) (view with lower center pillar cover LH (view with dash side lower finisher LH (passenger seat similar) removed) removed) (RH similar) (RH similar) 14. Air bag diagnosis sensor unit 13. Spiral cable

(view with center console assembly

removed)

## Component Description

(view with steering wheel removed)

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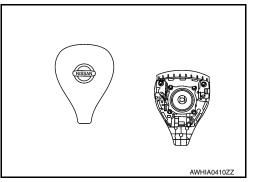
Component	Function	
Air bag diagnosis sensor unit	Refer to SRC-8, "Air Bag Diagnosis Sensor Unit".	
Driver air bag module	Refer to SRC-7, "Driver Air Bag Module".	
Front passenger air bag module	Refer to SRC-7, "Front Passenger Air Bag Module".	
Front side air bag module	Refer to SRC-7, "Front Side Air Bag Module".	
Side curtain air bag module	Refer to SRC-7, "Side Curtain Air Bag Module".	
Front seat belt pre-tensioner	Refer to SRC-8, "Front Seat Belt Pre-tensioner".	
Occupant classification system	Refer to SRC-12, "OCCUPANT CLASSIFICATION SYSTEM: System Description".	
Crash zone sensor	Refer to SRC-8, "Crash Zone Sensor".	
Front side air bag (satellite) sensor	Refer to SRC-8, "Front Side Air Bag Satellite Sensor".	
Rear side air bag (satellite) sensor	Refer to SRC-9, "Rear Side Air Bag Satellite Sensor".	
Front door (satellite) sensor	Refer to SRC-9, "Front Door Satellite Sensor".	
Seat belt buckle switch	The driver seat belt buckle switch and passenger seat belt buckle switch provide the seat belt buckle signals to the air bag diagnosis sensor unit and the combination meter.	
Spiral cable	The spiral cable provides a rotating physical connection to the driver air bag module.	
Combination meter	The combination meter displays the air bag warning lamp and the seat belt warning lamp. The air bag warning lamp is used for diagnosis in User Mode and may be used to display diagnostic trouble codes without the use of the CONSULT.	

#### **COMPONENT PARTS**

#### < SYSTEM DESCRIPTION >

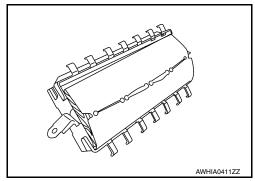
# **Driver Air Bag Module**

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.



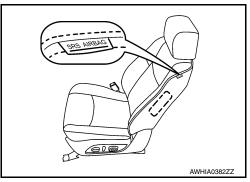
# Front Passenger Air Bag Module

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 <a href="SRC-11">SRC-11</a>, "SRS AIR BAG SYSTEM: System Description" for more information.



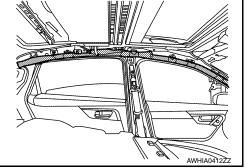
## Front Side Air Bag Module

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

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.



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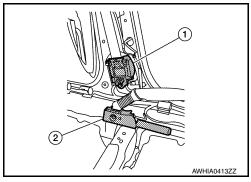
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#### Front Seat Belt Pre-tensioner

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.

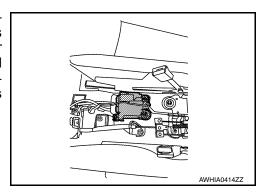
When the frontal collision with an impact exceeding a specified level occurs, seat belt slack resulting from clothing or other factors is immediately taken up by the shoulder belt pre-tensioner (1) as well as the lap belt pre-tensioner (2). Vehicle passengers are securely restrained.

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.



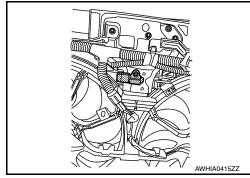
## Air Bag Diagnosis Sensor Unit

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 selfdiagnosis capability through the use of the CONSULT as well as flash codes displayed by the air bag warning lamp.



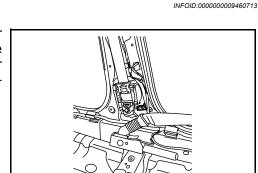
#### Crash Zone Sensor

The crash zone sensor is located behind the radiator and underneath the front air duct. 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.



## Front Side Air Bag Satellite Sensor

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.



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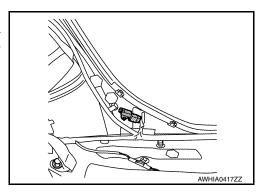
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## Rear Side Air Bag Satellite Sensor

The rear side air bag satellite sensors are located behind the dash 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.



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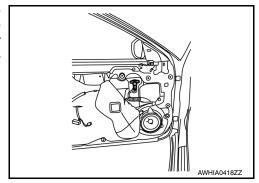
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#### Front Door Satellite Sensor

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



## **SRS Component Connectors**

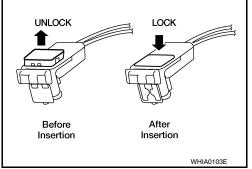
#### DIRECT CONNECT

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

- · Driver front air bag module
- · Passenger front air bag module
- LH side curtain air bag module
- RH side curtain air bag module
- Front LH seat belt pre-tensioner
- Front RH seat belt pre-tensioner

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

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



#### SLIDE DOUBLE LOCKING

Revision: November 2013

- A new style slide double locking type connector is used on certain systems and components, especially those related to airbag control systems.
- The slide double locking type connectors help prevent incomplete locking and accidental looseness or disconnection.
- The slide double locking type connectors are disconnected by pushing or pulling the slider. Refer to the figure below.

#### **CAUTION:**

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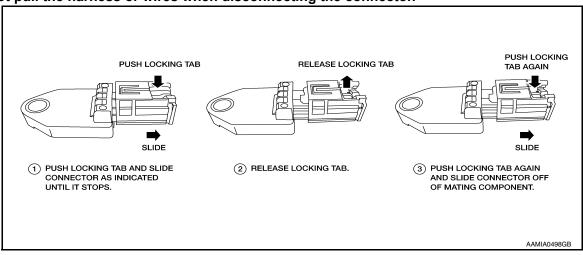
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## **COMPONENT PARTS**

## < SYSTEM DESCRIPTION >

• Do not pull the harness or wires when disconnecting the connector.



# SYSTEM SRS AIR BAG SYSTEM

## SRS AIR BAG SYSTEM : System Diagram

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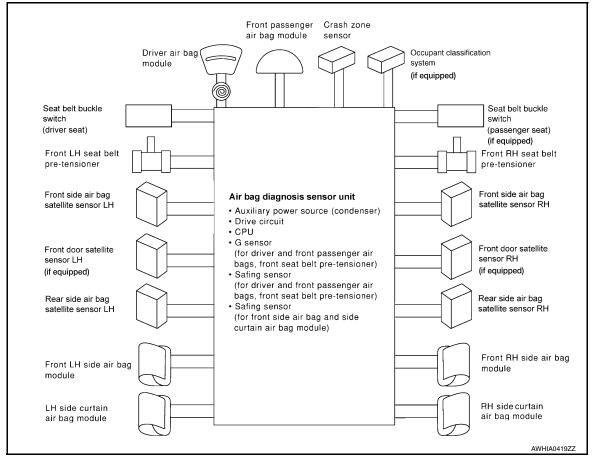
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# SRS AIR BAG SYSTEM : System Description

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

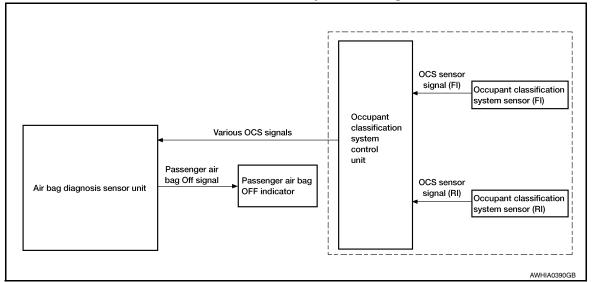
#### **SRS Collision Modes**

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

## OCCUPANT CLASSIFICATION SYSTEM

## OCCUPANT CLASSIFICATION SYSTEM: System Diagram

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## OCCUPANT CLASSIFICATION SYSTEM: System Description

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The occupant classification system (OCS) identifies different size occupants, out of position occupants, and detects if a child seat is present in the front passenger seat. The OCS control unit (2) receives inputs from the occupant classification sensors (1) (located inside the passenger seat cushion 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 (passenger seat) 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:

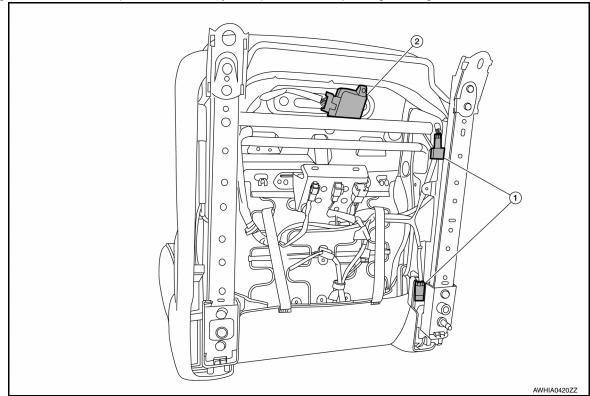
- CONSULT can be used to confirm when "zero point reset" for OCS is complete.
- Always perform zero point reset after the removal and installation of the seat or when disconnecting the OCS control unit harness connector even if zero point reset has been completed in the past.
- If zero point reset is 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

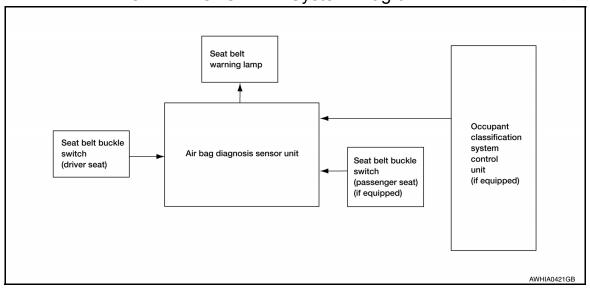
#### NOTE:

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



SEAT BELT WARNING LAMP SYSTEM

SEAT BELT WARNING LAMP SYSTEM: System Diagram



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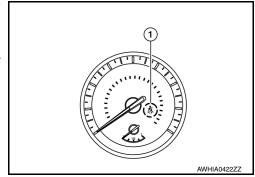
#### **SYSTEM**

#### < SYSTEM DESCRIPTION >

# SEAT BELT WARNING LAMP SYSTEM: System Description

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The seat belt warning lamp (1) will remind the driver if the driver or front passenger (US/CAN models) seat belt should be buckled. The system works in conjunction with the occupant classification system. Refer to <a href="SRC-12">SRC-12</a>, "OCCUPANT CLASSIFICATION SYSTEM: System Description".



Seat Belt Warning System Operation (US/CAN models only)

Driver seat status (Ignition switch ON)	Passenger seat status	Seat belt buckle switch (driver side) status	Seat belt buckle switch (passenger side) status	Seat belt warning lamp
	Seat occupied		Buckled	Off
Soot coounied	Seat occupied	Buckled	Unbuckled	On
Seat occupied	Seat unoccupied			Off
	_	Unbuckled	_	On

#### < SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (AIR BAG)

## **Diagnosis Description**

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#### **CAUTION:**

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

#### HOW TO PERFORM TROUBLE DIAGNOSES FOR QUICK AND ACCURATE REPAIR

- 1. Obtain information about the symptom.
- WHAT vehicle model
- WHEN date, frequencies
- WHERE road conditions
- HOW operating conditions, symptoms, passengers
- 2. Perform Preliminary Check.
- Battery
- Fuses
- Harness connections

# DIAGNOSIS METHODS

SRS self-diagnosis results can be read by using the AIR BAG warning lamp or CONSULT.

The User Mode is for the customer (driver). This mode warns the driver of a system malfunction through the AIR BAG warning lamp.

The Diagnosis Mode is for the technician. This mode helps the technician locate the malfunctioning circuit or part.

	User Mode	Diagnosis Mode	Display type
AIR BAG warning lamp	X	X	ON/OFF
CONSULT	_	X	Monitoring

# SRS Operation Check

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#### USER MODE

- 1. Turn the ignition switch from OFF to ON and check that the air bag warning lamp flashes.
- Compare the flashing pattern with the examples in the table.



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#### < SYSTEM DESCRIPTION >

Air bag warning lamp flashing pattern (User Mode)		
Warning lamp	SRS condition	Reference item
ON OFF 7 sec.	<ul><li>No malfunction is detected.</li><li>No further action is necessary.</li></ul>	_
IGN ON	The system is malfunctioning and needs to be repaired.	Refer to SRC-16, "Trouble Diagnosis with CONSULT" or SRC-17, "Trouble Diagnosis without CONSULT".
ON OFF 7 sec. 0.5 sec. 0.5 sec. SHIA0012E	Zero point reset is incomplete	Refer to SRC-42, "ZERO POINT RESET: Special Repair Requirement".
	Air bag is deployed.     Seat belt pre-tensioner is deployed.	Refer to SR-5, "For Frontal Collision" or SR-7, "For Side and Rollover Collision".
ON OFF SHIA0013E	<ul> <li>Air bag diagnosis sensor unit is malfunctioning.</li> <li>Air bag power supply circuit is malfunctioning.</li> <li>SRS air bag warning lamp circuit is malfunctioning.</li> </ul>	Refer to SRC-109, "AIR BAG Warning Lamp Does Not Turn Off".
ON OFF	<ul> <li>Air bag diagnosis sensor unit is malfunctioning.</li> <li>Air bag warning lamp circuit is malfunctioning.</li> </ul>	Refer to SRC-108, "AIR BAG Warning Lamp Does Not Turn On".

# Trouble Diagnosis with CONSULT

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- 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 <u>SRC-17, "SRS Final Check"</u>.
- SRS system malfunctions intermittently. Refer to SRC-43, "Inspection Procedure".

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#### < SYSTEM DESCRIPTION >

## Trouble Diagnosis without CONSULT

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#### **DIAGNOSIS MODE**

#### NOTE:

Diagnosis Mode can not be entered if a malfunction is not detected in User Mode.

- Turn ignition switch ON.
- After AIR BAG warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.
- 3. Wait more than 3 seconds.
- 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".

## **SRS History Check**

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#### SRS HISTORY CHECK

- Check repair history of the SRS. If no repairs have been made, perform <u>SRC-15</u>, <u>"SRS Operation Check"</u>. If repairs have been made, GO TO step 2.
- Erase "SELF-DIAG [PAST]" after repair. Refer to <u>SRC-17, "SRS Final Check"</u>.

SRS Final Check

#### DIAGNOSIS MODE

Connect CONSULT.

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-15, "SRS Operation Check".

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.
- Perform SRS Operation Check. Refer to <u>SRC-15, "SRS Operation Check"</u>.

## CONSULT Function (AIR BAG)

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#### **CAUTION:**

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF  $\rightarrow$  ON (for at least 5 seconds)  $\rightarrow$  OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

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

Diagnostic Test Mode Diagnostic Item Description A current Self-diagnosis result (also indicated by the number of warning lamp flashes in the Diagnosis mode) is displayed on the Self Diagnostic Result SELF-DIAG RESULT [CURRENT] 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. Air bag diagnosis sensor unit ECU discriminated number (identification number) or part number is displayed. Air bag diagnosis sensor Ecu Identification ECU DISCRIMINATED NO. unit has individual ECU discriminated number (identification number) or part number based on model and equipment. With TROUBLE DIAG RECORD, diagnosis results previously TROUBLE DIAG RECORD [PAST] erased by a reset operation can be displayed on the CONSULT Trouble Diagnostic Record screen.

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#### < SYSTEM DESCRIPTION >

## **CONSULT Function (OCCUPANT DETECTION)**

INFOID:0000000009460730

#### **CAUTION:**

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF  $\rightarrow$  ON (for at least 5 seconds)  $\rightarrow$  OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

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

Diagnostic Test Mode	Diagnostic Item	Description
Work Support	ZERO POINT RESET FUNCTION	Perform zero point reset. Refer to <u>SRC-42</u> , "ZERO POINT RESET: <u>Special Repair Requirement"</u> .

< ECU DIAGNOSIS INFORMATION >

# **ECU DIAGNOSIS INFORMATION**

## **DIAGNOSIS SENSOR UNIT**

DTC Index

Α

#### 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]		Driver air bag module circuit (DR1) is open (including the spiral cable).	Refer to SRC-45, "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]	B0001	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]		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]	B0002	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]		Front passenger air bag module circuit (AS1) is open.	Refer to SRC-49, "Diag- nosis Procedure".		
ASSIST AIRBAG MODULE CIRCUIT [VB-SHORT]	B0010	Front passenger air bag module circuit (AS1) is shorted to a power supply circuit.			
ASSIST AIRBAG MODULE CIRCUIT [GND-SHORT]	B0010	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]		Front passenger air bag module circuit (AS2) is open.			
ASSIST AIRBAG MODULE 2ND CIRCUIT [VB-SHORT]	B0011	Front passenger air bag module circuit (AS2) is shorted to a power supply circuit.	1		
ASSIST AIRBAG MODULE 2ND CIRCUIT [GND-SHORT]	50011	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.			

## < ECU DIAGNOSIS INFORMATION >

CONSULT name	DTC	DTC detecting condition	Repair order
SIDE AIRBAG MODULE LH CIRCUIT [OPEN]		Front LH side air bag module circuit is open.	Refer to SRC-52, "Diagnosis Procedure".
SIDE AIRBAG MODULE LH CIRCUIT [VB-SHORT]	B0020	Front LH side air bag module circuit is shorted to a power supply circuit.	
SIDE AIRBAG MODULE LH CIRCUIT [GND-SHORT]	B0020	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]		Front RH side air bag module circuit is open.	Refer to SRC-55, "Diagnosis Procedure".
SIDE AIRBAG MODULE RH CIRCUIT [VB-SHORT]	B0028	Front RH side air bag module circuit is shorted to a power supply circuit.	
SIDE AIRBAG MODULE RH CIRCUIT [GND-SHORT]	B0020	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]		LH side curtain air bag module circuit is open.	Refer to SRC-58, "Diagnosis Procedure".
CURTAIN AIRBAG MODULE LH CIRCUIT [VB-SHORT]	B0021	LH side curtain air bag module circuit is shorted to a power supply circuit.	
CURTAIN AIRBAG MODULE LH CIRCUIT [GND-SHORT]	B0021	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]		RH side curtain air bag module circuit is open.	Refer to <u>SRC-61</u> , "Diag- nosis Procedure".
CURTAIN AIRBAG MODULE RH CIRCUIT [VB-SHORT]	B0029	RH side curtain air bag module circuit is shorted to a power supply circuit.	
CURTAIN AIRBAG MODULE RH CIRCUIT [GND-SHORT]	B0029	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]		LH seat belt pre-tensioner circuit is open. (shoulder belt)	Refer to <u>SRC-64</u> , "Diag- nosis Procedure".
FRONT PRE-TEN LH CIRCUIT [VB-SHORT]	B1430	LH seat belt pre-tensioner circuit is shorted to a power supply circuit. (shoulder belt)	
FRONT PRE-TEN LH CIRCUIT [GND-SHORT]	B1430	LH seat belt pre-tensioner circuit is shorted to ground. (shoulder belt)	
FRONT PRE-TEN LH CIRCUIT [SHORT]		LH seat belt pre-tensioner circuits are shorted to each other. (shoulder belt)	
FRONT PRE-TEN2 LH CIRCUIT [OPEN]		LH seat belt pre-tensioner circuit is open. (lap belt)	Refer to SRC-64, "Diag- nosis Procedure".
FRONT PRE-TEN2 LH CIRCUIT [VB-SHORT]	B1432	LH seat belt pre-tensioner circuit is shorted to a power supply circuit. (lap belt)	
FRONT PRE-TEN2 LH CIRCUIT [GND-SHORT]	1497 ס	LH seat belt pre-tensioner circuit is shorted to ground. (lap belt)	
FRONT PRE-TEN2 LH CIRCUIT [SHORT]		LH seat belt pre-tensioner circuits are shorted to each other. (lap belt)	

## < ECU DIAGNOSIS INFORMATION >

CONSULT name	DTC	DTC detecting condition	Repair order
FRONT PRE-TEN RH CIRCUIT [OPEN]		RH seat belt pre-tensioner circuit is open. (shoulder belt)	Refer to SRC-67, "Diagnosis Procedure".
FRONT PRE-TEN RH CIRCUIT [VB-SHORT]	B1431	RH seat belt pre-tensioner circuit is shorted to a power supply circuit. (shoulder belt)	
FRONT PRE-TEN RH CIRCUIT [GND-SHORT]	B1431	RH seat belt pre-tensioner circuit is shorted to ground. (shoulder belt)	
FRONT PRE-TEN RH CIRCUIT [SHORT]		RH seat belt pre-tensioner circuits are shorted to each other. (shoulder belt)	
FRONT PRE-TEN2 RH CIRCUIT [OPEN]		RH seat belt pre-tensioner circuit is open. (lap belt)	Refer to SRC-67, "Diagnosis Procedure".
FRONT PRE-TEN2 RH CIRCUIT [VB-SHORT]	B1433	RH seat belt pre-tensioner circuit is shorted to a power supply circuit. (lap belt)	
FRONT PRE-TEN2 RH CIRCUIT [GND-SHORT]	B 1433	RH seat belt pre-tensioner circuit is shorted to ground. (lap belt)	
FRONT PRE-TEN2 RH CIRCUIT [SHORT]		RH seat belt pre-tensioner circuits are shorted to each other. (lap belt)	
SEAT BELT BUCKLE SW LH CIRCUIT [OPEN]		LH seat belt buckle switch circuit is open.	Refer to SRC-97, "Diagnosis Procedure".
SEAT BELT BUCKLE SW LH CIRCUIT [VB-SHORT]	D4420	LH seat belt buckle switch circuit is shorted to a power supply circuit.	
SEAT BELT BUCKLE SW LH CIRCUIT [GND-SHORT]	B1428	LH seat belt buckle switch circuit is shorted to ground.	
SEAT BELT BUCKLE SW LH CIRCUIT [UNDEFINED]		LH seat belt buckle switch circuit malfunction.	
SEAT BELT BUCKLE SW RH CIRCUIT [OPEN]		RH seat belt buckle switch circuit is open.	Refer to SRC-99, "Diag- nosis Procedure".
SEAT BELT BUCKLE SW RH CIRCUIT [VB-SHORT]	D1420	RH seat belt buckle switch circuit is shorted to a power supply circuit.	
SEAT BELT BUCKLE SW RH CIRCUIT [GND-SHORT]	B1429	RH seat belt buckle switch circuit is shorted to ground.	
SEAT BELT BUCKLE SW RH CIRCUIT [UNDEFINED]		RH seat belt buckle switch circuit malfunction.	
CRASH ZONE SENSOR [SENSOR FAIL]		Crash zone sensor has malfunctioned.	Refer to SRC-70, "Diagnosis Procedure".
CRASH ZONE SENSOR [COMM FAIL]		Crash zone sensor communication error.	
CRASH ZONE SENSOR [DISCONNECT]	B0094	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]		Front door satellite sensor LH has malfunctioned.	Refer to SRC-85, "Diagnosis Procedure".
DOOR SATELLITE SENSOR LH [COMM FAIL]		Front door satellite sensor LH communication error.	
DOOR SATELLITE SENSOR LH [DISCONNECT]	B0093	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.	

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## < ECU DIAGNOSIS INFORMATION >

CONSULT name	DTC	DTC detecting condition	Repair order
DOOR SATELLITE SENSOR RH [SENSOR FAIL]		Front door satellite sensor RH has malfunctioned.	Refer to <u>SRC-88</u> , " <u>Diag</u> nosis <u>Procedure</u> ".
DOOR SATELLITE SENSOR RH [COMM FAIL]		Front door satellite sensor RH communication error.	
DOOR SATELLITE SENSOR RH [DISCONNECT]	B0098	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.	
B-PILLAR SATELLITE SENSOR LH [SENSOR FAIL]		Front side air bag satellite sensor LH has malfunctioned.	Refer to SRC-73, "Diagnosis Procedure".
B-PILLAR SATELLITE SENSOR LH [COMM FAIL]		Front side air bag satellite sensor LH communication error.	
B-PILLAR SATELLITE SENSOR LH [DISCONNECT]	B0091	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]		Front side air bag satellite sensor RH has malfunctioned.	Refer to SRC-76, "Diagnosis Procedure".
B-PILLAR SATELLITE SENSOR RH [COMM FAIL]		Front side air bag satellite sensor RH communication error.	
B-PILLAR SATELLITE SENSOR RH [DISCONNECT]	B0096	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]	<del>-</del>	Front side air bag satellite sensor RH circuit is shorted to ground.	
C-PILLAR SATELLITE SENSOR LH [SENSOR FAIL]		Rear side air bag satellite sensor LH has malfunctioned.	Refer to <u>SRC-79</u> , "Diagnosis Procedure".
C-PILLAR SATELLITE SENSOR LH [COMM FAIL]		Rear side air bag satellite sensor LH communication error.	
C-PILLAR SATELLITE SENSOR LH [DISCONNECT]	B0092	Rear side air bag satellite sensor LH is disconnected.	
C-PILLAR SATELLITE SENSOR LH [UNMATCH]	<del>-</del>	Rear side air bag satellite sensor LH is out of specification.	
C-PILLAR SATELLITE SENSOR LH [GND-SHORT]	1	Rear side air bag satellite sensor LH circuit is shorted to ground.	
C-PILLAR SATELLITE SENSOR RH [SENSOR FAIL]		Rear side air bag satellite sensor RH has malfunctioned.	Refer to <u>SRC-82</u> , "Diagnosis Procedure".
C-PILLAR SATELLITE SENSOR RH [COMM FAIL]		Rear side air bag satellite sensor RH communication error.	
C-PILLAR SATELLITE SENSOR RH [DISCONNECT]	B0097	Rear side air bag satellite sensor RH is disconnected.	
C-PILLAR SATELLITE SENSOR RH [UNMATCH]		Rear side air bag satellite sensor RH is out of specification.	
C-PILLAR SATELLITE SENSOR RH [GND-SHORT]	1	Rear side air bag satellite sensor RH circuit is shorted to ground.	

#### < ECU DIAGNOSIS INFORMATION >

CONSULT name	DTC	DTC detecting condition	Repair order	
OCCUPANT DETECTION SENSOR UNIT [UNIT FAIL]		The OCS control unit is malfunctioning.	Refer to SRC-101, "Diagnosis Procedure".	
OCCUPANT DETECTION SENSOR UNIT [NO DATA]				
OCCUPANT DETECTION SENSOR UNIT [UNDEFINED]				
OCCUPANT DETECTION SENSOR UNIT [RESET FAIL]	B00A0			
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-91, "Diagnosis Procedure".	
PASSENGER AIRBAG INDICATOR CIRCUIT [FAIL]		Front passenger air bag OFF indicator is malfunctioning.	Refer to SRC-94, "Diagnosis Procedure".	
PASSENGER AIRBAG INDICATOR CIRCUIT [OPEN]	B00D5	Front passenger air bag OFF indicator circuit is open.		
PASSENGER AIRBAG INDICATOR CIRCUIT [VB-SHORT]	B00D3	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-104, "Diagnosis Procedure".	
IGN VOLTAGE [HIGH]	D142/(	Ignition voltage to the air bag diagnosis sensor unit is high.		
CAN COMMUNICATION FAILURE	U1000	CAN system communication faillure.	Refer to SRC-106, "Diagnosis Procedure".	
CAN COMMUNICATION FAILURE [CONTROL UNIT]	U1010	CAN system (control unit) faiilure.	Refer to SRC-107, "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".	
SIDE COLLISION DETECTION	B1422	Side collision detected. Curtain air bag mod- ule and seat belt pre-tensioner are de- ployed.	Refer to <u>SR-7</u> , "For Side and Rollover Collision".	
REAR COLLISION DETECTION	B1425	Rear collision has been detected.	Replace air bag diagno-	
AIRBAG DISPOSAL COMPLETION	B1426	Collision has been detected. Air bag diagnosis sensor unit has not yet been replaced following repairs.	sis unit. Refer to <u>SR-26.</u> "Removal and Installation".	

Flash Code Index

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#### WARNING LAMP FLASH CODE CHART

#### How to read flash codes

- 1. Put the vehicle in Diagnosis Mode. Refer to SRC-17, "Trouble Diagnosis without CONSULT".
- 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.

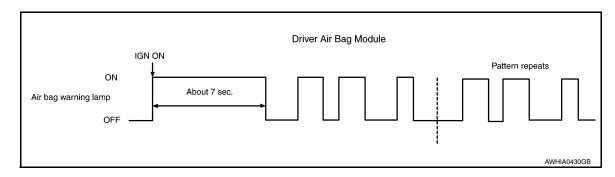
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#### < ECU DIAGNOSIS INFORMATION >

- 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.

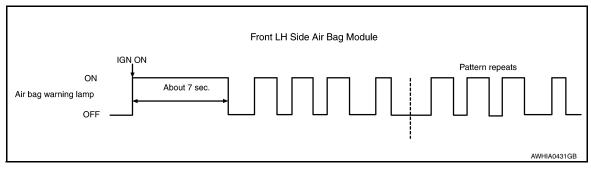
Refer to the illustrations below for an example of each flashing pattern.

#### Front subsystem



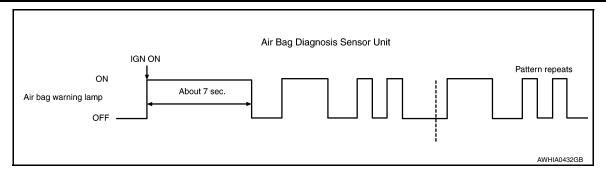
Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference	
		1	Driver air bag module	SRC-45, "Diagnosis Proce- dure"	
		2	Passenger air bag module	SRC-49, "Diagnosis Proce- dure"	
2	1.5	3	Front LH seat belt pre-tensioner (shoulder)	SRC-64, "Diagnosis Procedure"	
2	1.5		4	Front RH seat belt pre-tensioner (shoulder)	SRC-67, "Diagnosis Proce- dure"
		5	Front LH seat belt pre-tensioner (lap)	SRC-64, "Diagnosis Proce- dure"	
		6	Front RH seat belt pre-tensioner (lap)	SRC-67, "Diagnosis Procedure"	

#### Side subsystem



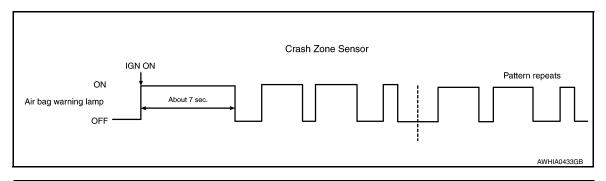
Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
		1	Front LH side air bag module	SRC-52, "Diagnosis Procedure"
3	3 1.5	2	Front RH side air bag module	SRC-55, "Diagnosis Procedure"
J	1.5	3	LH side curtain air bag module	SRC-58, "Diagnosis Procedure"
		4	RH side curtain air bag module	SRC-61, "Diagnosis Proce- dure"

#### < ECU DIAGNOSIS INFORMATION >



Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
		1	Collision detection	SRC-103, "Diagnosis Procedure"
1	3	2	Air bag diagnosis sensor unit	SRC-91, "Diagnosis Procedure"
·	3	3	Passenger air bag OFF indicator	SRC-94, "Diagnosis Procedure"
		4	Occupant classification system	SRC-101, "Diagnosis Proce- dure"

#### Sensor subsystem



Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
		1	Crash zone sensor	SRC-70, "Diagnosis Procedure"
		2	Front side air bag satellite sensor LH	SRC-73, "Diagnosis Procedure"
		3	Front side air bag satellite sensor RH	SRC-76, "Diagnosis Procedure"
		4	Rear side air bag satellite sensor LH	SRC-79, "Diagnosis Procedure"
2	3	5	Rear side air bag satellite sensor RH	SRC-82, "Diagnosis Procedure"
		6	Front door satellite sensor LH	SRC-85, "Diagnosis Procedure"
		7	Front door satellite sensor RH	SRC-88, "Diagnosis Procedure"
		8	Seat belt buckle switch LH	SRC-97, "Diagnosis Procedure"
		9	Seat belt buckle switch RH	SRC-99, "Diagnosis Proce- dure"

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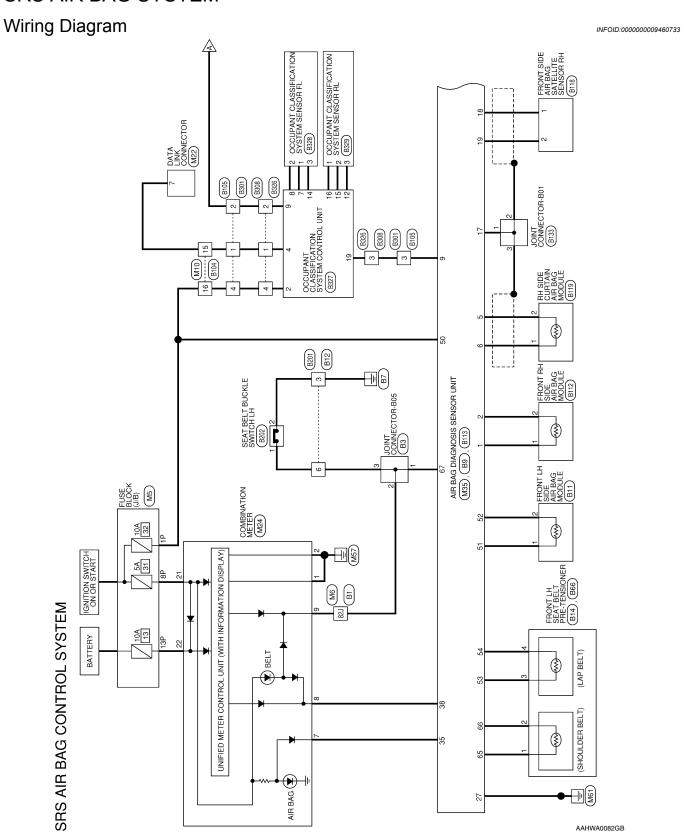
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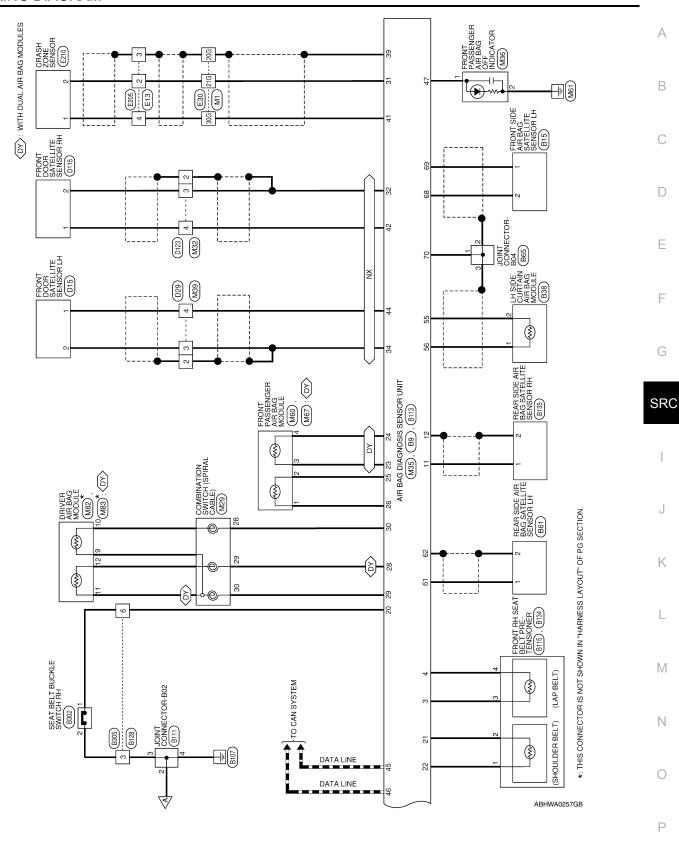
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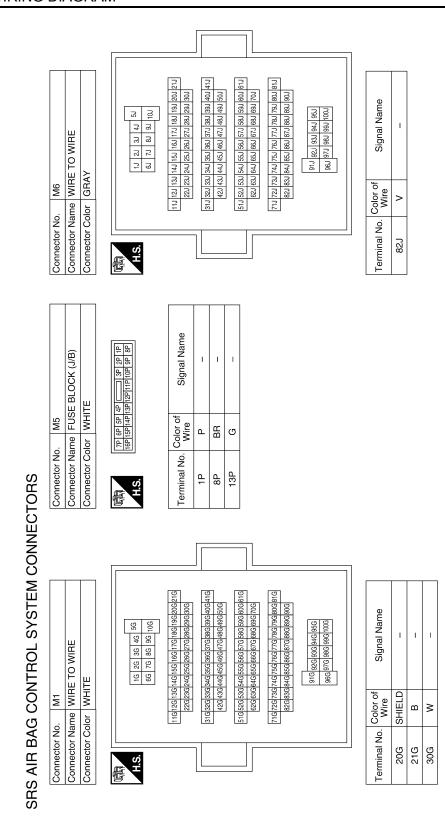
# WIRING DIAGRAM

## SRS AIR BAG SYSTEM





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	د			5 4 3 2 1 25 24 23 22 21	m				1	MO	
	Connector Name COMBINATION METER	ш		11 10 9 8 7 6 31 30 29 28 27 26	Signal Name	GND1	GND2	AIR BAG	AS BELT	DH BUCKLE SW	BAT
. M24	me COM	lor WHITE		17 16 15 14 13 12 37 36 35 34 33 32	Color of Wire	В	В	œ	> >	> 0	<u>ნ</u>
Connector No.	Connector Na	Connector Color	H.S.	20 19 18 17 16 40 39 38 37 36	Terminal No.	-	2	7	ω σ	5 G	22
	Connector Name DATA LINK CONNECTOR		13 14 15 16 5 6 7 8		Signal Name	ı					
M22	DATA I	v WHITE	9 10 11 12 1 4		Color of Wire	æ					
Connector No.	Connector Nan	Connector Color	H.S.	J	Terminal No.	7					
		_						,			
	WIRE		10 9 8 1		Signal Name	1	ı				
M10	Connector Name WIRE TO WIRE	BROWN	5 4 14 13 12 11								
or No.	or Name		7 6 15		No. Color of Wire	æ	Œ				
Connector No.	Connecto	Connector Color	是 H.S.		Terminal No.	15	16				

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Signal Name	SBR	GND	ı	ECZS (+)	RH DOOR-SAT (+)	I	LH DOOR-SAT (+)	CAN-L	CAN-H	TELLTALE LAMP	ı	-	IGN
Color of Wire	8	SHIELD	ı	Α	8	ı	8	Д	٦	æ	ı	_	۵
Terminal No.	38	39	40	41	42	43	44	45	46	47	48	49	50

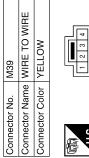
Signal Name	AS1 (WITH SINGLE AIR BAG MODULE)	GND	DR2 (+)	DR1 (-)&DR2 (-)	DR1 (+)	ECZS (-)	RH DOOR-SAT (-)	1	LH DOOR-SAT (-)	AWL	1	ı
Color of Wire	FG	В	BR	>	LG	В	В	_	В	ш	_	ı
Terminal No.	26	27	28	29	30	31	32	33	34	35	98	37

Connector No.	Š.		M35	32							
Connector Name   AIR BAG DIAGNOSIS   SENSOR UNIT	Nan	ne	SE	# SS	ŠÖ	3.0	ĕΞ	Ž	SC	<u>S</u>	
Connector Color YELLOW	Ö	٦	5	וַבוּן	8	_					
恒	E		Ħ	$   \rangle$	IN.	IV	117	Ш		드	
HS	23	24	25	56	V	abla	27	78	29	8	
				П		7	Ш		Ш		
	31	31 32	33	34	35	36	37	38	39	40	
	41	42	43	44	45	46	47	48	49	20	
											1

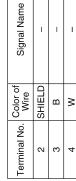
Signal Name	AS2 (+)	AS2 (-)	AS1 (-) (WITH DUAL AIR BAG MODULES)	AS1 (-) (WITH SINGLE AIR BAG MODULE)	AS1 (+) (WITH DUAL AIR BAG MODULES)
Color of Wire	В	8	Ь	<b>\</b>	g
Terminal No.	23	24	25	25	26













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Signal Name	ı	I	
Color of Wire	В	GR	
No.			

Terminal

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Connector Name FRONT PASSENGER AIR BAG OFF INDICATOR BROWN

Connector Color

M36

Connector No.

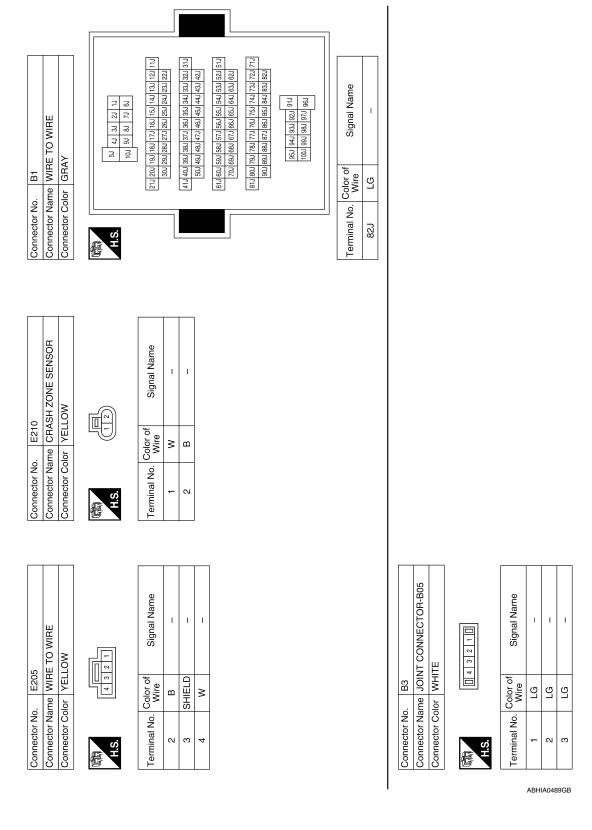




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1	
Connector No. M83  Connector Name DRIVER AIR BAG MODULE  Connector Color ORANGE  Terminal No. Color of Wire G Signal Name  20G SHIELD -  21G B -  30G W -  Connector Name  21G B -  30G W -  Connector Name  -  -  -  -  -  -  -  -  -  -  -  -  -	В
SS SANGE ANGE Sign.	С
Oolor of Wire SHELD SHEL	D
Connector No. M83 Connector Name DRIVER A Connector Color Of Nange  Terminal No. Color of Wire  20G SHIELD 21G B 30G W	Е
	F
M82   Connector Name   DRIVER AIR BAG MODULE	G
### MR2  DRIVER AIR BAG MODU  YELLOW  Inc	SR
Olor   WELLON   Wire	I
Connector No.   M82	J
	K
FRONT PASSENGER AIR BAG MODULE BLACK  or of Signal Name  FE13  WIRE TO WIRE  YELLOW  THE TO WIRE  YELLOW  NOTE TO WIRE  YELLOW  THE TO WIRE  THE TO WIRE  YELLOW  THE TO WIRE  YE	L
	M
	N
Connector No.  A V V V V V V V V V V V V V V V V V V	0
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Revision: November 2013 SRC-31 2014 Altima NAM



Connector No.	). B11	
Connector Na	ame FRC MOI	Connector Name FRONT LH SIDE AIR BAG MODULE
Connector Color YELLOW	olor YEL	TOW
H.S.		
Terminal No. Wire	Color of Wire	Signal Name
-	λ	I
2	BR	ı

Signal Name	1	1	I	1	LH C-SAT (+)	LH C-SAT (-)	ı	I	P-LH1 (+)	P-LH1 (-)	LH BUCKLE SW (+)	LH B-SAT (-)	LH B-SAT (+)	GND	1	ı
Color of Wire	ı	ı	ı	ı	>	В	ı	ı	5	Ъ	ГG	В	8	GR	ı	ı
Terminal No.	22	58	59	09	61	62	63	64	99	99	29	89	69	70	71	72

	AIR BAG DIAGNOSIS SENSOR UNIT	YELLOW	60 61 62 63 64 66 66 69 70 71 72	Signal Name	LH SQUIB #1 (+)	LH SQUIB #1 (-)	LH SQUIB #2 (+)	(-) Z# BINDS H7	(-) £# BINDS H7	LH SQUIB #3 (+)
. B9		Н	25 55 55 56 66 67 67 68 59 67 68 69 67 67 68 69 69 69 69 69 69 69 69 69 69 69 69 69	Color of Wire	>	BB	œ	BG	8	В
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	51	52	53	54	55	26

Connector No.	o. B15	
Connector Na	ame FR(	Connector Name FRONT SIDE AIR BAG SATELLITE SENSOR LH
Connector Color YELLOW	olor YE	LLOW
(国) H.S.		
Terminal No. Wire	Color of Wire	Signal Name
-	Μ	ı
2	В	ı

	Connector Name FRONT LH SEAT BELT PRE-TENSIONER	TOW	A T	Signal Name	ı	-	
. B14	me FRC	lor YEL		Color of Wire	ŋ	Ь	
Connector No.	Connector Na	Connector Color YELLOW	原 H.S.	Terminal No. Wire	-	2	

2 4 3 1	TTE
9	lor WH
H.S.	Connector Name WIRE TO WIRE Connector Color WHITE  M.S.  E 5 4 3

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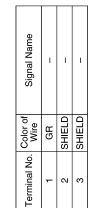
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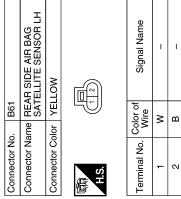
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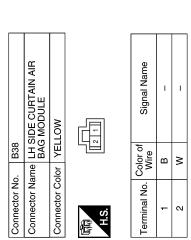
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nector No.	B61	Connector No. B65	B65
nector Name	nnector Name REAR SIDE AIR BAG	Connector Name	Connector Name JOINT CONNECTOR-B04
	SATELLITE SENSOR LH	Connector Color   WHITE	WHITE
	: i		
nnector Color   YELLOW	YELLOW		

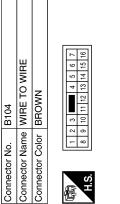






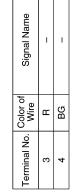


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2	E TO WIRE	TE	3 2 1	Signal Name	ı	ı	_	-
B105	me WIF	or WHITE	4	Color of Wire	BB	В	_	SB
Connector No.	Connector Name WIRE TO WIRE	Connector Color	H.S.	Terminal No.	-	2	င	4



E TO WIRE	3	Signal Name	1	1
me WIR	8 9 10 1	Color of Wire	BR	SB
Connector Name WIRE TO WIRE Connector Color BROWN	H.S.	Terminal No.	15	16

Connector No.	B66
Connector Name	Connector Name   FRONT LH SEAT BELT   PRE-TENSIONER
Connector Color ORANGE	ORANGE
	4 3



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Connector Name FRONT RH SIDE AIR BAG MODULE

Connector Name JOINT CONNECTOR-B02
Connector Color WHITE

Connector No. B111

Connector No. B112

Connector Color YELLOW

Connector No.	). B115	10
onnector Na	tme FRC	Connector Name FRONT RH SEAT BELT PRE-TENSIONER
Connector Color	olor YEL	YELLOW
可 H.S.		個
Terminal No.	Color of Wire	Signal Name
1	5	I
2	Ь	I

Signal Name	I	ı
Color of Wire	<b>&gt;</b>	BR
Terminal No. Wire	-	2

Signal Name

Terminal No. 2 က 4

1 1

В m m

Terminal No. Color of Wire 7	O None	Olymai ivallie	1	1	SGO	I	RH C-SAT (+)	RH C-SAT (-)	ı	ı	ı	1	GND	RH B-SAT (+)	RH B-SAT (-)	RH BUCKLE SW (+)	P-RH1 (-)	P-RH1 (+)
10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Color of	Wire	-	1	٦	-	В	8	1	1	-	1	GR	В	*	٦	Ь	g
<u> </u>	Torimize No	ם ה	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22

		ŀ.	ŀ	ŀ					
Connector No.	o.	-	B113	က					
Connector Name AIR BAG DIAGNOSIS SENSOR UNIT	lam	9	HH.	ASS	AG JR	às	\  T	9	SIS
Connector Color YELLOW	응	<del> </del>	፵	lΥ	≥				
僵	己	$\  \cdot \ $	IN.	$\mathbb{V}$	117	I	٢	匚	
H.S.	-	2	$\nearrow$	$\nabla$	က	4	2	9	
	7	8	Г Б	2	Ξ	11 12 13	5	4	
	7.	16	17	15 16 17 18 19 20 21	ē	2	7	22	

Signal Name	RH SQUIB #1 (+)	RH SQUIB #1 (-)	RH SQUIB #2 (+)	RH SQUIB #2 (-)	RH SQUIB #3 (-)	RH SQUIB #3 (+)	
Color of Wire	<b>&gt;</b>	BR	В	BG	Μ	В	
Terminal No.	-	2	3	4	5	9	

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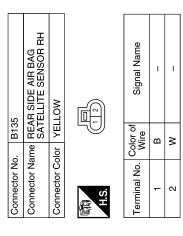
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Connector Name RH SIDE CURTAIN AIR
Signal Name

2 1	Signal Name	1	I
	Color of Wire	В	Μ
师 H.S.	Terminal No. Wire	1	2

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Connector No.	). B118	8
Connector Na	ame FRC SAT	Connector Name FRONT SIDE AIR BAG SATELLITE SENSOR RH
Connector Color YELLOW	olor YEL	.LOW
H.S.		
Terminal No.	Color of Wire	Signal Name
-	В	ı
2	×	ĺ



4	FRONT RH SEAT BELT PRE-TENSIONER	ANGE	£ 4	Signal Name	1	ı
. B134		lor OR,		Color of Wire	ж	BG
Connector No.	Connector Name	Connector Color ORANGE	原 H.S.	Terminal No.	3	4

Connector No.	). B133	3	
Connector Name	Ime JOII	JOINT CONNECTOR-B01	
Connector Color WHITE	lor WHI	TE	
周.S.H.S.	4	3 2 1 0	
Terminal No.	Color of Wire	Signal Name	
1	GR	1	
2	SHIELD	1	
3	SHIELD	ı	

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		А
в	ame ame	В
WHITE WHITE WHITE  Or of Signal Name  B L L C G G  WIRE	Signal Name	С
	Connector No. B308 Connector Name WIRE TO WIRE Connector Color WHITE  Terminal No. Wire  1 BR 2 B 3 L 4 LG	D
Connector No. Connector Color Terminal No. Color 1 B B 1 3 L L L	Connector No. Connector Name Connector Color H.S.  1	Е
		F
BELT BUCKLE CH LH E Signal Name -(WITH MULTIPLE ILLUMINATION CONTROL) -(WITH METER ILLUMINATION CONTROL ONLY) -	Signal Name	G
SEAT SEAT OF	MWIRE TO V WIRE TO V WHITE   1	
Connector Nome Connector Color Terminal No. Color 1 1 1 1	Connector No. Connector Color Terminal No.  3 6 6	J
		K
Signal Name  Signal Name (WITH MULTIPLE ILLUMINATION CONTROL) - (WITH METER ILLUMINATION CONTROL)	B302 SEAT BELT BUCKLE SWITCH RH WHITE  A 3 2 1  a c c c c c c c c c c c c c c c c c c	L
WHITE T Or of G G G G G G G G G G G G G G G G G G		M
nector No nector No nector No ector Co na nector Co na ector Co e e e e e e e e e e e e e e e e e e	inector No inector No inector No inector No inector Co inector Co inector Co inector Co inector Co inector No	N
O O O O O O O O O O O O O O O O O O O		0

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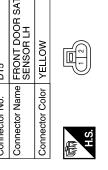
Revision: November 2013 SRC-37 2014 Altima NAM

Terminal No.	Color of Wire	Signal Name
	ГG	LOAD SENSOR FRONT INNER SIGNAL
	В	GND
	ı	1
	ı	ı
	<b>\</b>	LOAD SENSOR REAR INNER VCC
	ı	-
	В	LOAD SENSOR FRONT INNER VCC
	SB	LOAD SENSOR REAR INNER SIGNAL
	M/L	LOAD SENSOR REAR INNER GND
	ı	_
	-	_
	BR/W	ACU COMM
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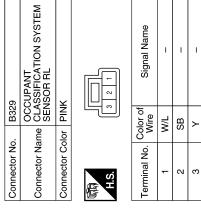
			•									
7	OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT	CK		5 6 7 8 9 10 1 15 16 17 18 19 20	Signal Name	-	NÐI	-	K-LINE	_	1	LOAD SENSOR FRONT INNER GND
. B327		lor BLACK		2 3 4	Color of Wire	1	8	-	GR	-	1	B/B
Connector No.	Connector Name	Connector Color		H.S.	Terminal No.	-	2	3	4	5	9	7

Connector No.		B326	
Connector Name		M	WIRE TO WIRE
Connector Color WHITE	lor V	Ή	TE
ls.			2 3 4
Terminal No.	Color of Wire	of e	Signal Name
-	GR		1
2	В		1
3	BR/W	~	1
_	>		

Connector No.	D15
Connector Name	Connector Name FRONT DOOR SATELLITE SENSOR LH
Connector Color YELLOW	YELLOW



TOW		Signal Name	ı	1
lor YEL		Color of Wire	ГG	>
Connector Color   YELLOW	H.S.	Terminal No. Wire	1	2

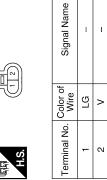


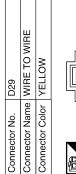
Connector No.	. B328	8
Connector Name		OCCUPANT CLASSIFICATION SYSTEM SENSOR FL
Connector Color PINK	lor PIN	K
南 H.S.	رق	
Terminal No.	Color of Wire	Signal Name
1	B/B	ı
2	LG	ı
3	Œ	-

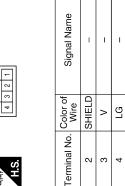
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Connector No.	D123	3
Connector Name WIRE TO WIRE	me WIR	E TO WIRE
Connector Color		YELLOW
原 H.S.	4	3 2 1
Terminal No. Color of Wire	Color of Wire	Signal Name
2	SHIELD	1
3	>	ı
-	-	

Connector No. D115  Connector Name FRONT DOOR SATELLITE SENSOR RH  Connector Color YELLOW
Connector No. D115  Connector Name FRONT DOOR SATELLITE SENSOR RH  Connector Color YELLOW
Connector Name FRONT DOOR SATELLITE SENSOR RH
Connector No. D115 Connector Name FRONT DOOR SATELLITE
Connector No. D115







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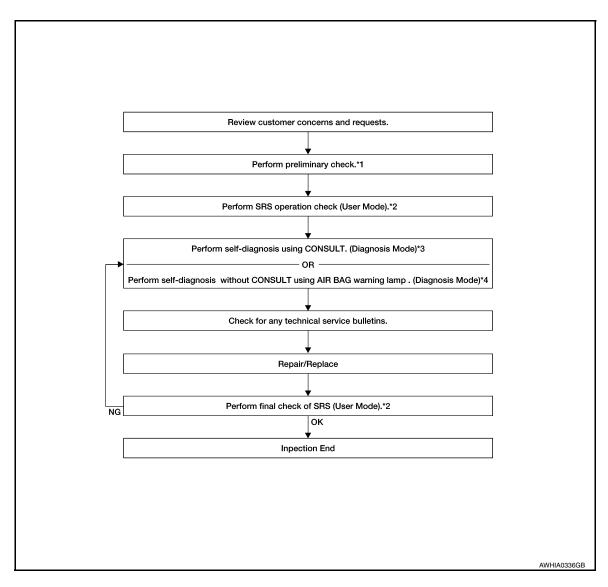
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# **BASIC INSPECTION**

# DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

### **OVERALL SEQUENCE**



- \*1 SRC-15, "Diagnosis Description"
- \*2 SRC-15, "SRS Operation Check"
- \*3 SRC-16, "Trouble Diagnosis with CONSULT"

\*4 SRC-17, "Trouble Diagnosis without CONSULT"

### **DETAILED WORK FLOW**

### 1.CUSTOMER INFORMATION

Get detailed information from the customer about the symptom.

>> GO TO 2

# 2.PRELIMINARY CHECK

Perform preliminary check. Refer to SRC-15, "Diagnosis Description".

DIAGNOSIS AND REPAIR WORK FLOW	
< BASIC INSPECTION >	
>> GO TO 3	
3.SRS OPERATION CHECK (USER MODE)	Α
Perform SRS operation check in User Mode. Refer to <u>SRC-15, "SRS Operation Check"</u> .	
>> GO TO 4	В
4.SELF-DIAGNOSIS (DIAGNOSIS MODE)	
Perform SELF-DIAGNOSIS. Refer to <u>SRC-16</u> , "Trouble <u>Diagnosis</u> with <u>CONSULT"</u> or <u>SRC-17</u> , "Trouble <u>Diagnosis</u> without <u>CONSULT"</u> .	С
>> GO TO 5	D
5. TECHNICAL SERVICE BULLETINS	
Check for technical service bulletins.	Е
>> GO TO 6	_
6.REPLACE PART	F
Replace the malfunctioning part.	0
>> GO TO 7	G
7. FINAL CHECK	SR
Check SRS using Diagnosis Mode and User Mode.	SK
Does Diagnosis Mode and User Mode indicate SRS normal?	
YES >> Inspection End. NO >> GO TO 4	
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	J
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### **INSPECTION AND ADJUSTMENT**

### < BASIC INSPECTION >

### INSPECTION AND ADJUSTMENT

### ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

INFOID:0000000009460735

#### **WARNING:**

Always perform zero point reset using CONSULT when removing and installing the front 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.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

WORK PROCEDURE WHEN REPLACING OCS CONTROL UNIT

1. PERFORM ZERO POINT RESET

Perform zero point reset. Refer to SRC-42, "ZERO POINT RESET: Special Repair Requirement".

>> Inspection End.

ZERO POINT RESET

ZERO POINT RESET: Description

INFOID:0000000009460737

Zero point reset is an initializing procedure for the OCS (weight) sensors that must be performed using CON-SULT when removing and installing passenger seat or servicing the OCS system. If zero point reset is not performed, the initialization is incomplete and OCS may not operate normally.

#### NOTE:

- When reinstalling the passenger seat, the initial value for the OCS sensors may change, and the OCS may not operate normally.
- When zero point reset is performed after removal and installation of passenger seat, CONSULT displays "complete".

# ZERO POINT RESET: Special Repair Requirement

INFOID:0000000009460738

# 1. PERFORM ZERO POINT RESET

1. Perform preliminary checks:

### NOTE:

- · Level the vehicle
- · Minimize vibrations near the vehicle
- · Remove any objects on passenger seat
- Do not touch the vehicle during zero point reset
- Select START on ZERO POINT RESET from, WORK SUPPORT of "OCCUPANT DETECTION".
- 3. "Zero point reset" starts.

>> GO TO 2.

# 2.CONFIRM RESET

1. Check that "Complete" is displayed on "Zero point reset status".

#### **CAUTION:**

- "Complete" may be displayed if the seat has been reinstalled, or "zero point reset" has already been performed.
- "Incomplete" may be displayed if a new seat is installed.
- Air bag warning lamp flashes in user mode if zero point reset is "incomplete".

Is zero point reset status "complete"?

YES >> Print out "ZERO POINT RESET CURRENT STATUS" screen. Inspection end.

NO >> Recheck the preliminary check items and perform zero point reset again.

### INTERMITTENT INCIDENT

### < BASIC INSPECTION >

# INTERMITTENT INCIDENT

# Inspection Procedure

#### INFOID:0000000009460739

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### 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.

# INFOID:0000000009460740

# Trouble Diagnosis with CONSULT

# CHECK SRS REPAIR HISTORY

Refer to SRC-17, "SRS History Check".

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# **B0001, B0002 DRIVER AIRBAG MODULE**

< DTC/CIRCUIT DIAGNOSIS >

# DTC/CIRCUIT DIAGNOSIS

# B0001, B0002 DRIVER AIRBAG MODULE

Description INFOID:000000009460741

### DTC B0001, B0002 DRIVER AIRBAG MODULE

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

### PART LOCATION

Refer to SRC-5, "Component Parts Location".

DTC Logic

### DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
DRIVER AIRBAG MODULE CIRCUIT [OPEN]		Driver air bag module circuit (DR1) is open (including the spiral cable).	Refer to SRC-45, "Diagnosis Procedure".
DRIVER AIRBAG MODULE CIRCUIT [VB-SHORT]	B0001	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]		Driver air bag module circuit (DR2) is open (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [VB-SHORT]	B0002	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).	

### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	1.5	1	Driver air bag module	SRC-45, "Diagnosis Procedure"

# DTC CONFIRMATION PROCEDURE (With CONSULT)

1. CHECK SELF-DIAG RESULT

### B0001, B0002 DRIVER AIRBAG MODULE < DTC/CIRCUIT DIAGNOSIS > Turn ignition switch ON. Check for DTC using CONSULT. Α Is the DTC detected? YES (Current DTC)>>Refer to <a href="SRC-45">SRC-45</a>, "Diagnosis Procedure". YES (Past DTC)>>GO TO 2. В NO >> Inspection End. 2. ERASE SELF-DIAG RESULT Erase the DTC using CONSULT. Can the DTC be erased? YES >> Inspection End. D NO >> Refer to SRC-45, "Diagnosis Procedure". DTC CONFIRMATION PROCEDURE (Without CONSULT) 1. CHECK SELF-DIAG RESULT Е Turn ignition switch ON. Check the air bag warning lamp status. Refer to SRC-17, "Trouble Diagnosis without CONSULT". 2. NOTE: SRS will not enter diagnosis mode if no malfunction is detected in user mode. Is the DTC detected? >> Refer to SRC-45, "Diagnosis Procedure". YES NO >> Inspection End. Diagnosis Procedure INFOID:0000000009781056 **SRC** 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 Visually inspect all applicable harness connectors for the following: Visible damage to connector or terminal K 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? M YES >> GO TO 2 NO >> Perform one of the following repairs: Visible damage: Replace the harness. Loose terminal: Secure the terminal. N Poor connection: Secure the connection. 2.CONFIRM DTC

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

### Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-43, "Intermittent Incident".

# 3. WIRING HARNESS

Check the wiring harness for visible damage NOTE.

### NOTE:

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### **B0001, B0002 DRIVER AIRBAG MODULE**

### < DTC/CIRCUIT DIAGNOSIS >

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.

# f 4.CHECK SPIRAL CABLE CIRCUIT

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

Driver air bag module		Combination switch (spiral cable)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M83	11		30	
	12	M29	29	Yes
M82	9	IVIZ9	30	165
	10		28	

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

Driver air	bag module		Continuity
Connector	Terminal		Continuity
M83	11	Ground	No
IVIOS	12		
M82	9		INO
IVIOZ	10		

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace combination switch (spiral cable). Refer to <u>SR-15</u>, "Removal and Installation".

# 5.CONFIRM DTC

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

### Is DTC still current?

YES >> GO TO 6.

NO >> Refer to GI-43, "Intermittent Incident".

### $oldsymbol{6}.$ AIR BAG DIAGNOSIS SENSOR UNIT

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

#### Is DTC still current?

YES >> GO TO 7.

NO >> Clear DTC. Inspection End.

### I.FRONT DRIVER AIR BAG MODULE

- 1. Replace the driver air bag module. Refer to SR-11, "Removal and Installation".
- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is DTC still current?

YES >> GO TO 8.

NO >> Clear DTC. Inspection End.

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# **B0001, B0002 DRIVER AIRBAG MODULE**

# < DTC/CIRCUIT DIAGNOSIS >

# 8.RELATED HARNESS Replace the related harness.

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### **B0010, B0011 PASSENGER AIRBAG MODULE**

< DTC/CIRCUIT DIAGNOSIS >

# B0010, B0011 PASSENGER AIRBAG MODULE

Description INFOID:0000000009460744

### DTC B0010, B0011 PASSENGER AIR BAG MODULE

The passenger air bag module is dual stage and 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 passenger air bag module.

### PART LOCATION

Refer to SRC-5, "Component Parts Location".

DTC Logic

### DTC DETECTION LOGIC

With CONSULT

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

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	1.5	2	Passenger air bag module	SRC-49, "Diagnosis Procedure"

# DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- 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?

Revision: November 2013 SRC-48 2014 Altima NAM

### B0010, B0011 PASSENGER AIRBAG MODULE

### < DTC/CIRCUIT DIAGNOSIS >

YES >> Inspection End.

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

DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1. CHECK SELF-DIAG RESULT

Turn ignition switch ON.

Check the air bag warning lamp status. Refer to SRC-17, "Trouble Diagnosis without CONSULT". 2.

#### 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

#### 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

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

- Reconnect all harness connectors.
- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is DTC still current?

YES >> GO TO 3.

NO >> Refer to GI-43, "Intermittent Incident".

# 3. WIRING HARNESS

Check the wiring harness for visible damage NOTE.

#### 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

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

### Is DTC still current?

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### **B0010, B0011 PASSENGER AIRBAG MODULE**

### < DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 5.

NO >> Refer to GI-43, "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.
- 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.
- 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**

### < DTC/CIRCUIT DIAGNOSIS >

# **B0020 SIDE AIRBAG MODULE LH**

Description INFOID:000000009460747

### 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-5, "Component Parts Location".

DTC Logic INFOID:0000000009460748

### DTC DETECTION LOGIC

### With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
SIDE AIRBAG MODULE LH CIRCUIT [OPEN]		Front LH side air bag module circuit is open.	Refer to SRC-52, "Diagnosis Procedure".
SIDE AIRBAG MODULE LH CIRCUIT [VB-SHORT]	Booos	Front LH side air bag module circuit is shorted to a power supply circuit.	
SIDE AIRBAG MODULE LH CIRCUIT [GND-SHORT]	B0020	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.	

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
3	1.5	1	Front LH side air bag module	SRC-52, "Diagnosis Procedure"

# DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check for DTC using CONSULT.

#### Is the DTC detected?

YES (Current DTC)>>Refer to SRC-52, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

>> Inspection End.

# ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

### Can the DTC be erased?

YES >> Inspection End.

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

### DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to <a href="SRC-17">SRC-17</a>, "Trouble Diagnosis without CONSULT".

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

### Is the DTC detected?

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### **B0020 SIDE AIRBAG MODULE LH**

### < DTC/CIRCUIT DIAGNOSIS >

YES >> Refer to SRC-52, "Diagnosis Procedure"

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000009781058

### 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

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-43, "Intermittent Incident".

# 3. WIRING HARNESS

Check the wiring harness for visible damage NOTE

### 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.
- Check for DTC using CONSULT.

### Is DTC still current?

YES >> GO TO 5.

NO >> Refer to GI-43, "Intermittent Incident".

# ${f 5}.$ air bag diagnosis sensor unit

- Replace the air bag diagnosis sensor unit. Refer to <u>SR-26, "Removal and Installation"</u>.
- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is DTC still current?

YES >> GO TO 6.

NO >> Clear DTC. Inspection End.

### **B0020 SIDE AIRBAG MODULE LH**

# < DTC/CIRCUIT DIAGNOSIS > 6. SIDE AIR BAG MODULE LH Replace the side air bag module LH. Refer to SR-21, "Removal and Installation". Turn ignition switch ON. Check for DTC using CONSULT. В Is DTC still current? YES >> GO TO 7. NO >> Clear DTC. Inspection End. С 7. RELATED HARNESS Replace the related harness. $\mathsf{D}$ >> END Е F G SRC K L

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### **B0028 SIDE AIRBAG MODULE RH**

### < DTC/CIRCUIT DIAGNOSIS >

### **B0028 SIDE AIRBAG MODULE RH**

Description INFOID:0000000009460750

### 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-5, "Component Parts Location".

DTC Logic

### DTC DETECTION LOGIC

### With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
SIDE AIRBAG MODULE RH CIRCUIT [OPEN]		Front RH side air bag module circuit is open.	Refer to SRC-55, "Diagnosis Procedure".
SIDE AIRBAG MODULE RH CIRCUIT [VB-SHORT]	B0028	Front RH side air bag module circuit is shorted to a power supply circuit.	
SIDE AIRBAG MODULE RH CIRCUIT [GND-SHORT]	B0020	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.	

#### Without CONSULT

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

### DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- 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

- Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to <u>SRC-17, "Trouble Diagnosis without CONSULT"</u>.

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

### Is the DTC detected?

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### **B0028 SIDE AIRBAG MODULE RH**

### < DTC/CIRCUIT DIAGNOSIS >

YES >> Refer to <u>SRC-55</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

# Diagnosis Procedure

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

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.

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

#### Is DTC still current?

YES >> GO TO 3.

NO >> Refer to GI-43, "Intermittent Incident".

### 3.WIRING HARNESS

Check the wiring harness for visible damage NOTE

### 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.
- Check for DTC using CONSULT.

### Is DTC still current?

YES >> GO TO 5.

NO >> Refer to GI-43, "Intermittent Incident".

# ${f 5.}$ AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace the air bag diagnosis sensor unit. Refer to <a href="SR-26">SR-26</a>, "Removal and Installation".
- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is DTC still current?

YES >> GO TO 6.

NO >> Clear DTC. Inspection End.

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### **B0028 SIDE AIRBAG MODULE RH**

### < DTC/CIRCUIT DIAGNOSIS >

# 6. SIDE AIR BAG MODULE RH

- 1. Replace the side air bag module RH. Refer to SR-21, "Removal and Installation".
- 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/CIRCUIT DIAGNOSIS >

### B0021 SIDE CURTAIN AIR BAG MODULE LH

Description INFOID:0000000009460753

### DTC B0021 LH SIDE CURTAIN AIR BAG MODULE

The LH side curtain 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 LH side curtain air bag module.

### PART LOCATION

Refer to SRC-5, "Component Parts Location".

DTC Logic INFOID:0000000009460754

### DTC DETECTION LOGIC

### With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
CURTAIN AIRBAG MODULE LH CIRCUIT [OPEN]		LH side curtain air bag module circuit is open.	Refer to SRC-58, "Diagnosis Procedure".
CURTAIN AIRBAG MODULE LH CIRCUIT [VB-SHORT]	B0021	LH side curtain air bag module circuit is shorted to a power supply circuit.	
CURTAIN AIRBAG MODULE LH CIRCUIT [GND-SHORT]	D0021	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.	

### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
3	1.5	3	LH side curtain air bag module	SRC-58, "Diagnosis Procedure"

# DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is the DTC detected?

YES (Current DTC)>>Refer to <a href="SRC-58">SRC-58</a>, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

>> Inspection End. NO

# 2.ERASE SELF-DIAG RESULT

### Erase the DTC using CONSULT.

### Can the DTC be erased?

YES >> Inspection End.

>> Refer to SRC-58, "Diagnosis Procedure".

### DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <a href="SRC-17">SRC-17</a>, "Trouble Diagnosis without CONSULT".

### NOTE:

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

### Is the DTC detected?

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### **B0021 SIDE CURTAIN AIR BAG MODULE LH**

### < DTC/CIRCUIT DIAGNOSIS >

YES >> Refer to SRC-58, "Diagnosis Procedure".

NO >> Inspection End.

### Diagnosis Procedure

INFOID:0000000009460755

#### 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

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.
- Check for DTC using CONSULT.

#### Is DTC still current?

YES >> GO TO 3.

NO >> Refer to GI-43, "Intermittent Incident".

# 3. WIRING HARNESS

Check the wiring harness for visible damage NOTE

### 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

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

### Is DTC still current?

YES >> GO TO 5.

NO >> Refer to GI-43, "Intermittent Incident".

# ${f 5}.$ air bag diagnosis sensor unit

- Replace the air bag diagnosis sensor unit. Refer to <u>SR-26, "Removal and Installation"</u>.
- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is DTC still current?

YES >> GO TO 6.

NO >> Clear DTC. Inspection End.

### **B0021 SIDE CURTAIN AIR BAG MODULE LH**

### < DTC/CIRCUIT DIAGNOSIS >

# 6. SIDE CURTAIN AIR BAG MODULE LH

- 1. Replace the side curtain air bag module LH. Refer to SR-19, "Removal and Installation".
- Turn ignition switch ON.
- 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

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### **B0029 SIDE CURTAIN AIR BAG MODULE RH**

< DTC/CIRCUIT DIAGNOSIS >

### B0029 SIDE CURTAIN AIR BAG MODULE RH

Description INFOID:000000009460756

### DTC B0029 RH SIDE CURTAIN AIR BAG MODULE

The RH side curtain 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 RH side curtain air bag module.

### PART LOCATION

Refer to SRC-5, "Component Parts Location".

DTC Logic

### DTC DETECTION LOGIC

#### With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
CURTAIN AIRBAG MODULE RH CIRCUIT [OPEN]		RH side curtain air bag module circuit is open.	Refer to SRC-61, "Diagnosis Procedure".
CURTAIN AIRBAG MODULE RH CIRCUIT [VB-SHORT]	B0029	RH side curtain air bag module circuit is shorted to a power supply circuit.	
CURTAIN AIRBAG MODULE RH CIRCUIT [GND-SHORT]	B0029	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.	

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
3	1.5	4	RH side curtain air bag module	SRC-61, "Diagnosis Procedure"

### DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

- 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 <u>SRC-61</u>, "<u>Diagnosis Procedure</u>".

### 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 <u>SRC-17, "Trouble Diagnosis without CONSULT"</u>.

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

### Is the DTC detected?

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### **B0029 SIDE CURTAIN AIR BAG MODULE RH**

### < DTC/CIRCUIT DIAGNOSIS >

YES >> Refer to SRC-61, "Diagnosis Procedure".

NO >> Inspection End.

INFOID:0000000009460758

# Diagnosis Procedure

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

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).

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### 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.

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- Reconnect all harness connectors.
- Turn ignition switch ON.
- Check for DTC using CONSULT.

#### Is DTC still current?

YES >> GO TO 3.

NO >> Refer to GI-43, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage NOTE

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

- Reconnect all harness connectors.
- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is DTC still current?

YES >> GO TO 5.

NO >> Refer to GI-43, "Intermittent Incident".

 ${f 5.}$ AIR BAG DIAGNOSIS SENSOR UNIT

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

- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is DTC still current?

YES >> GO TO 6.

NO >> Clear DTC. Inspection End.

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# **B0029 SIDE CURTAIN AIR BAG MODULE RH**

### < DTC/CIRCUIT DIAGNOSIS >

# $6. \mathrm{SIDE}$ 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, B1432 SEAT BELT PRE-TENSIONER LH

### < DTC/CIRCUIT DIAGNOSIS >

# B1430, B1432 SEAT BELT PRE-TENSIONER LH

Description INFOID:0000000009460759

### DTC B1430, B1432 SEAT BELT PRE-TENSIONER LH

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

### PART LOCATION

Refer to SRC-5, "Component Parts Location".

DTC Logic INFOID:0000000009460760

### DTC DETECTION LOGIC

### With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order	F
FRONT PRE-TEN LH CIRCUIT [OPEN]		LH seat belt pre-tensioner circuit is open. (shoulder belt)	Refer to SRC-64, "Diagnosis Procedure".	_
FRONT PRE-TEN LH CIRCUIT [VB-SHORT]	B1430	LH seat belt pre-tensioner circuit is shorted to a power supply circuit. (shoulder belt)		G
FRONT PRE-TEN LH CIRCUIT [GND-SHORT]	D1430	LH seat belt pre-tensioner circuit is shorted to ground. (shoulder belt)		SRC
FRONT PRE-TEN LH CIRCUIT [SHORT]		LH seat belt pre-tensioner circuits are shorted to each other. (shoulder belt)		
FRONT PRE-TEN2 LH CIRCUIT [OPEN]		LH seat belt pre-tensioner circuit is open. (lap belt)		I
FRONT PRE-TEN2 LH CIRCUIT [VB-SHORT]	B1432	LH seat belt pre-tensioner circuit is shorted to a power supply circuit. (lap belt)		.1
FRONT PRE-TEN2 LH CIRCUIT [GND-SHORT]	D 1432	LH seat belt pre-tensioner circuit is shorted to ground. (lap belt)		0
FRONT PRE-TEN2 LH CIRCUIT [SHORT]		LH seat belt pre-tensioner circuits are shorted to each other. (lap belt)		K

### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2 1.5	3	Front LH seat belt pre-tensioner (shoulder)	SRC-64. "Diagnosis Procedure"	
	5	Front LH seat belt pre-tensioner (lap)	SIXC-04. Diagnosis Flocedure	

# DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

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

### Is the DTC detected?

YES (Current DTC)>>Refer to SRC-64. "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

NO >> Inspection End.

# ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

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### B1430, B1432 SEAT BELT PRE-TENSIONER LH

### < DTC/CIRCUIT DIAGNOSIS >

YES >> Inspection End.

NO >> Refer to <u>SRC-64</u>, "<u>Diagnosis Procedure</u>".

### 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 <a href="SRC-17">SRC-17</a>, "Trouble Diagnosis without CONSULT".

#### NOTE:

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

### Is the DTC detected?

YES >> Refer to <u>SRC-64, "Diagnosis Procedure"</u>.

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000009460761

### 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

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.
- Check for DTC using CONSULT.

### Is DTC still current?

YES >> GO TO 3.

NO >> Refer to GI-43, "Intermittent Incident".

# 3.wiring harness

Check the wiring harness for visible damage NOTE

#### 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

- Reconnect all harness connectors.
- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is DTC still current?

### B1430, B1432 SEAT BELT PRE-TENSIONER LH

#### < DTC/CIRCUIT DIAGNOSIS > YES >> GO TO 5. NO >> Refer to GI-43, "Intermittent Incident". Α 5. AIR BAG DIAGNOSIS SENSOR UNIT Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation". В 2. Turn ignition switch ON. Check for DTC using CONSULT. Is DTC still current? YES >> GO TO 6. NO >> Clear DTC. Inspection End. $6.\mathsf{seat}$ belt pre-tensioner LH D Replace the seat belt pre-tensioner LH. Refer to <u>SR-29</u>, "Removal and Installation". Turn ignition switch ON. Check for DTC using CONSULT. Е Is DTC still current? YES >> GO TO 7. NO >> Clear DTC. Inspection End. F 7. RELATED HARNESS Replace the related harness.

>> END

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### B1431, B1433 SEAT BELT PRE-TENSIONER RH

### < DTC/CIRCUIT DIAGNOSIS >

# B1431, B1433 SEAT BELT PRE-TENSIONER RH

Description INFOID:000000009460762

### DTC B1431, B1433 SEAT BELT PRE-TENSIONER RH

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

### PART LOCATION

Refer to SRC-5, "Component Parts Location".

DTC Logic

### DTC DETECTION LOGIC

### With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
FRONT PRE-TEN RH CIRCUIT [OPEN]	B1431 -	RH seat belt pre-tensioner circuit is open. (shoulder belt)	Refer to SRC-67, "Diagnosis Procedure".
FRONT PRE-TEN RH CIRCUIT [VB-SHORT]		RH seat belt pre-tensioner circuit is shorted to a power supply circuit. (shoulder belt)	
FRONT PRE-TEN RH CIRCUIT [GND-SHORT]		RH seat belt pre-tensioner circuit is shorted to ground. (shoulder belt)	
FRONT PRE-TEN RH CIRCUIT [SHORT]		RH seat belt pre-tensioner circuits are shorted to each other. (shoulder belt)	
FRONT PRE-TEN2 RH CIRCUIT [OPEN]		RH seat belt pre-tensioner circuit is open. (lap belt)	
FRONT PRE-TEN2 RH CIRCUIT [VB-SHORT]	B1433	RH seat belt pre-tensioner circuit is shorted to a power supply circuit. (lap belt)	
FRONT PRE-TEN2 RH CIRCUIT [GND-SHORT]		RH seat belt pre-tensioner circuit is shorted to ground. (lap belt)	
FRONT PRE-TEN2 RH CIRCUIT [SHORT]		RH seat belt pre-tensioner circuits are shorted to each other. (lap belt)	

### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2 1.5	4	Front RH seat belt pre-tensioner (shoulder)	SRC-67, "Diagnosis Procedure"	
2 1.5		6	Front RH seat belt pre-tensioner (lap)	SKC-07, Diagnosis Procedure

# DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is the DTC detected?

YES (Current DTC)>>Refer to SRC-67. "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?

Revision: November 2013 SRC-66 2014 Altima NAM

### **B1431, B1433 SEAT BELT PRE-TENSIONER RH**

### < DTC/CIRCUIT DIAGNOSIS >

YES >> Inspection End.

NO >> Refer to SRC-67, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1. CHECK SELF-DIAG RESULT

Turn ignition switch ON.

Check the air bag warning lamp status. Refer to SRC-17, "Trouble Diagnosis without CONSULT". 2.

#### NOTE:

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

#### Is the DTC detected?

YES >> Refer to <u>SRC-67</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

### Diagnosis Procedure

#### 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

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

- Reconnect all harness connectors.
- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is DTC still current?

YES >> GO TO 3.

NO >> Refer to GI-43, "Intermittent Incident".

# 3. WIRING HARNESS

Check the wiring harness for visible damage NOTE.

#### 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

- Reconnect all harness connectors. 1.
- 2. Turn ignition switch ON.

### Is DTC still current?

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Check for DTC using CONSULT.

**SRC-67** Revision: November 2013

### B1431, B1433 SEAT BELT PRE-TENSIONER RH

### < DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 5.

NO >> Refer to GI-43, "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.
- 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-29, "Removal and Installation".
- 2. Turn ignition switch ON.
- 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/CIRCUIT DIAGNOSIS >

# **B0094 CRASH ZONE SENSOR**

Description INFOID:000000009460765

### DTC B0094 CRASH ZONE SENSOR

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

### PART LOCATION

Refer to SRC-5, "Component Parts Location".

DTC Logic

### DTC DETECTION LOGIC

### With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
CRASH ZONE SENSOR [SENSOR FAIL]		Crash zone sensor has malfunctioned.	Refer to SRC-70, "Diagnosis Procedure".
CRASH ZONE SENSOR [COMM FAIL]		Crash zone sensor communication error.	
CRASH ZONE SENSOR [DISCONNECT]	B0094	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.	

### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	3	1	Crash zone sensor	SRC-70, "Diagnosis Procedure"

### DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is the DTC detected?

YES (Current DTC)>>Refer to <u>SRC-70</u>, "<u>Diagnosis Procedure</u>".

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 <u>SRC-70, "Diagnosis Procedure"</u>.

### 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-17, "Trouble Diagnosis without CONSULT".

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### **B0094 CRASH ZONE SENSOR**

### < DTC/CIRCUIT DIAGNOSIS >

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

### Is the DTC detected?

YES >> Refer to <u>SRC-70</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000009460767

#### 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

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 ${ t DTC}$

- 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-43, "Intermittent Incident".

# 3. WIRING HARNESS

Check the wiring harness for visible damage NOTE.

#### 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.
- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is DTC still current?

YES >> GO TO 5.

NO >> Refer to GI-43, "Intermittent Incident".

# ${f 5}$ . AIR BAG DIAGNOSIS SENSOR UNIT

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

### Is DTC still current?

# **B0094 CRASH ZONE SENSOR** < DTC/CIRCUIT DIAGNOSIS > YES >> GO TO 6. NO >> Clear DTC. Inspection End. Α 6. CRASH ZONE SENSOR 1. Replace the crash zone sensor. Refer to <u>SR-22, "Removal and Installation"</u>. В 2. Turn ignition switch ON. 3. Check for DTC using CONSULT. Is DTC still current? YES >> GO TO 7. >> Clear DTC. Inspection End. NO 7. RELATED HARNESS D Replace the related harness. Е >> END F G SRC K L M

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### **B0091 FRONT SIDE AIR BAG SATELLITE SENSOR LH**

< DTC/CIRCUIT DIAGNOSIS >

# B0091 FRONT SIDE AIR BAG SATELLITE SENSOR LH

Description INFOID:0000000009460768

### 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-5, "Component Parts Location".

DTC Logic

#### 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-73, "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.	

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	3	2	Front side air bag satellite sensor LH	SRC-73, "Diagnosis Procedure"

# DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

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

### Is the DTC detected?

YES (Current DTC)>>Refer to SRC-73, "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 <u>SRC-73, "Diagnosis Procedure"</u>.

### DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-17, "Trouble Diagnosis without CONSULT".</u>

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#### **B0091 FRONT SIDE AIR BAG SATELLITE SENSOR LH**

#### < DTC/CIRCUIT DIAGNOSIS >

#### NOTE:

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

#### Is the DTC detected?

YES >> Refer to <u>SRC-73</u>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000009460770

#### 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.

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# 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

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

#### Is DTC still current?

YES >> GO TO 3.

NO >> Refer to GI-43, "Intermittent Incident".

3.wiring harness

Check the wiring harness for visible damage NOTE

#### 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

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

#### Is DTC still current?

YFS >> GO TO 5.

NO >> Refer to GI-43, "Intermittent Incident".

### ${f 5.}$ AIR BAG DIAGNOSIS SENSOR UNIT

- Turn ignition switch ON.
- Check for DTC using CONSULT.

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### **B0091 FRONT SIDE AIR BAG SATELLITE SENSOR LH**

#### < DTC/CIRCUIT DIAGNOSIS >

#### Is DTC still current?

YES >> GO TO 6.

NO >> Clear DTC. Inspection End.

# $6.\mathsf{FRONT}$ SIDE AIR BAG SATELLITE SENSOR LH

- 1. Replace the front side air bag satellite sensor LH. Refer to SR-23, "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**

#### < DTC/CIRCUIT DIAGNOSIS >

# B0096 FRONT SIDE AIR BAG SATELLITE SENSOR RH

Description INFOID:000000009460771

#### 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-5, "Component Parts Location".

DTC Logic INFOID:0000000009460772

#### 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-76, "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.	

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	3	3	Front side air bag satellite sensor RH	SRC-76, "Diagnosis Procedure"

# DTC CONFIRMATION PROCEDURE (With CONSULT)

# CHECK SELF-DIAG RESULT

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

#### Is the DTC detected?

YES (Current DTC)>>Refer to SRC-76, "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.

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

# DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1. CHECK SELF-DIAG RESULT

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to SRC-17, "Trouble Diagnosis without CONSULT".

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#### B0096 FRONT SIDE AIR BAG SATELLITE SENSOR RH

#### < DTC/CIRCUIT DIAGNOSIS >

#### NOTE:

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

#### Is the DTC detected?

YES >> Refer to <u>SRC-76</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000009460773

#### 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

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.
- Check for DTC using CONSULT.

#### Is DTC still current?

YES >> GO TO 3.

NO >> Refer to GI-43, "Intermittent Incident".

# 3. WIRING HARNESS

Check the wiring harness for visible damage NOTE

#### 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.
- Check for DTC using CONSULT.

#### Is DTC still current?

YES >> GO TO 5.

NO >> Refer to GI-43, "Intermittent Incident".

# ${f 5.}$ AIR BAG DIAGNOSIS SENSOR UNIT

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

B0096 FRONT SIDE AIR BAG SATELLITE SENSOR RH	
< DTC/CIRCUIT DIAGNOSIS >	
Is DTC still current?	_
YES >> GO TO 6.	Α
NO >> Clear DTC. Inspection End.	
6.FRONT SIDE AIR BAG SATELLITE SENSOR RH	<b>–</b> В
<ol> <li>Replace the front side air bag satellite sensor RH. Refer to <u>SR-23, "Removal and Installation"</u>.</li> <li>Turn ignition switch ON.</li> </ol>	
3. Check for DTC using CONSULT.	
Is DTC still current?	С
YES >> GO TO 7.	
NO >> Clear DTC. Inspection End.	D
7.RELATED HARNESS	
Replace the related harness.	_
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### **B0092 REAR SIDE AIR BAG SATELLITE SENSOR LH**

< DTC/CIRCUIT DIAGNOSIS >

# B0092 REAR SIDE AIR BAG SATELLITE SENSOR LH

Description INFOID:000000009460774

### 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-5, "Component Parts Location".

DTC Logic

#### DTC DETECTION LOGIC

#### With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
C-PILLAR SATELLITE SENSOR LH [SENSOR FAIL]	B0092	Rear side air bag satellite sensor LH has malfunctioned.	Refer to SRC-79, "Diagnosis Procedure".
C-PILLAR SATELLITE SENSOR LH [COMM FAIL]		Rear side air bag satellite sensor LH communication error.	
C-PILLAR SATELLITE SENSOR LH [DISCONNECT]		Rear side air bag satellite sensor LH is disconnected.	
C-PILLAR SATELLITE SENSOR LH [UNMATCH]		Rear side air bag satellite sensor LH is out of specification.	
C-PILLAR SATELLITE SENSOR LH [GND-SHORT]		Rear side air bag satellite sensor LH circuit is shorted to ground.	

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	3	4	Rear side air bag satellite sensor LH	SRC-79, "Diagnosis Procedure"

# DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

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

### Is the DTC detected?

YES (Current DTC)>>Refer to SRC-79, "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 <u>SRC-79</u>, "<u>Diagnosis Procedure</u>".

#### DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1. CHECK SELF-DIAG RESULT

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-17, "Trouble Diagnosis without CONSULT"</u>.

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#### **B0092 REAR SIDE AIR BAG SATELLITE SENSOR LH**

#### < DTC/CIRCUIT DIAGNOSIS >

# NOTE:

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

#### Is the DTC detected?

YES >> Refer to <u>SRC-79</u>, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000009460776

#### 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.

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# 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).

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#### 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

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

#### Is DTC still current?

YES >> GO TO 3

>> Refer to GI-43, "Intermittent Incident".

3.wiring harness

Check the wiring harness for visible damage NOTE

#### NOTE:

NO

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.

Р

# 4.CONFIRM DTC

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

#### Is DTC still current?

YFS >> GO TO 5.

NO >> Refer to GI-43, "Intermittent Incident".

### ${f 5.}$ AIR BAG DIAGNOSIS SENSOR UNIT

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

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### **B0092 REAR SIDE AIR BAG SATELLITE SENSOR LH**

#### < DTC/CIRCUIT DIAGNOSIS >

#### Is DTC still current?

YES >> GO TO 6.

NO >> Clear DTC. Inspection End.

# $6.\mathtt{REAR}$ SIDE AIR BAG SATELLITE SENSOR LH

- 1. Replace the rear side air bag satellite sensor LH. Refer to SR-23, "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**

#### < DTC/CIRCUIT DIAGNOSIS >

# B0097 REAR SIDE AIR BAG SATELLITE SENSOR RH

Description INFOID:000000009460777

#### 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-5, "Component Parts Location".

DTC Logic INFOID:0000000009460778

#### DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
C-PILLAR SATELLITE SENSOR RH [SENSOR FAIL]	B0097	Rear side air bag satellite sensor RH has malfunctioned.	Refer to SRC-82, "Diagnosis Procedure".
C-PILLAR SATELLITE SENSOR RH [COMM FAIL]		Rear side air bag satellite sensor RH communication error.	
C-PILLAR SATELLITE SENSOR RH [DISCONNECT]		Rear side air bag satellite sensor RH is disconnected.	
C-PILLAR SATELLITE SENSOR RH [UNMATCH]		Rear side air bag satellite sensor RH is out of specification.	
C-PILLAR SATELLITE SENSOR RH [GND-SHORT]		Rear side air bag satellite sensor RH circuit is shorted to ground.	

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	3	5	Rear side air bag satellite sensor RH	SRC-82, "Diagnosis Procedure"

# DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check for DTC using CONSULT.

#### Is the DTC detected?

YES (Current DTC)>>Refer to <a href="SRC-82">SRC-82</a>, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

NO >> Inspection End.

### $\mathbf{2}.$ ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

#### Can the DTC be erased?

YES >> Inspection End.

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

# DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to SRC-17, "Trouble Diagnosis without CONSULT".

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#### **B0097 REAR SIDE AIR BAG SATELLITE SENSOR RH**

#### < DTC/CIRCUIT DIAGNOSIS >

#### NOTE:

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

#### Is the DTC detected?

YES >> Refer to <u>SRC-82</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

### Diagnosis Procedure

INFOID:0000000009460779

#### 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

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.
- Check for DTC using CONSULT.

#### Is DTC still current?

YES >> GO TO 3.

NO >> Refer to GI-43, "Intermittent Incident".

# 3. WIRING HARNESS

Check the wiring harness for visible damage NOTE

#### 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.
- Check for DTC using CONSULT.

#### Is DTC still current?

YES >> GO TO 5.

NO >> Refer to GI-43, "Intermittent Incident".

# ${f 5.}$ AIR BAG DIAGNOSIS SENSOR UNIT

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

B0097 REAR SIDE AIR BAG SATELLITE SENSOR RH	
< DTC/CIRCUIT DIAGNOSIS >	
Is DTC still current?	^
YES >> GO TO 6. NO >> Clear DTC. Inspection End.	А
6.REAR SIDE AIR BAG SATELLITE SENSOR RH	
1. Replace the rear side air bag satellite sensor RH. Refer to <u>SR-23, "Removal and Installation"</u> .	— В
<ol> <li>Turn ignition switch ON.</li> <li>Check for DTC using CONSULT.</li> </ol>	
Is DTC still current?	С
YES >> GO TO 7.	
NO >> Clear DTC. Inspection End.  7. RELATED HARNESS	D
Replace the related harness.	Е
>> END	
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### **B0093 FRONT DOOR SATELLITE SENSOR LH**

< DTC/CIRCUIT DIAGNOSIS >

### B0093 FRONT DOOR SATELLITE SENSOR LH

Description INFOID:000000009460780

#### DTC B0093 FRONT DOOR SATELLITE SENSOR LH

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

#### PART LOCATION

Refer to SRC-5, "Component Parts Location".

DTC Logic

#### 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-85, "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.	

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	3	6	Front door satellite sensor LH	SRC-85, "Diagnosis Procedure"

# DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check for DTC using CONSULT.

#### Is the DTC detected?

YES (Current DTC)>>Refer to <a href="SRC-85">SRC-85</a>, "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 <u>SRC-85</u>, "<u>Diagnosis Procedure</u>".

# DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1. CHECK SELF-DIAG RESULT

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-17, "Trouble Diagnosis without CONSULT"</u>.
   NOTE:

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#### **B0093 FRONT DOOR SATELLITE SENSOR LH**

#### < DTC/CIRCUIT DIAGNOSIS >

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

#### Is the DTC detected?

YES >> Refer to SRC-85, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000009460782

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.

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# 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).

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#### 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

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

#### Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-43, "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).

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#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace the harness. Ν

# 4.CONFIRM DTC

- Reconnect all harness connectors.
- Turn ignition switch ON.
- Check for DTC using CONSULT.

#### Is DTC still current?

YES >> GO TO 5.

NO >> Refer to GI-43, "Intermittent Incident". Р

# ${f 5}$ . AIR BAG DIAGNOSIS SENSOR UNIT

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

#### Is DTC still current?

# **B0093 FRONT DOOR SATELLITE SENSOR LH**

### < DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 6.

NO >> Clear DTC. Inspection End.

# 6.FRONT DOOR SATELLITE SENSOR LH

Replace the front door satellite sensor LH. Refer to SR-23, "Removal and Installation".

>> GO TO 7

# 7. RELATED HARNESS

Replace the related harness.

>> END

### **B0098 FRONT DOOR SATELLITE SENSOR RH**

#### < DTC/CIRCUIT DIAGNOSIS >

### B0098 FRONT DOOR SATELLITE SENSOR RH

Description INFOID:0000000009460783

### DTC B0098 FRONT DOOR SATELLITE SENSOR RH

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

#### PART LOCATION

Refer to SRC-5, "Component Parts Location".

DTC Logic INFOID:0000000009460784

#### DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order	
DOOR SATELLITE SENSOR RH [SENSOR FAIL]		Front door satellite sensor RH has mal- functioned.	Refer to SRC-88, "Diagnosis Procedure".	
DOOR SATELLITE SENSOR RH [COMM FAIL]		Front door satellite sensor RH communication error.		
DOOR SATELLITE SENSOR RH [DISCONNECT]	B0098	Front door satellite sensor RH is disconnected.		Ş
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.		

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	3	7	Front door satellite sensor RH	SRC-88, "Diagnosis Procedure"

# DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

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

#### Is the DTC detected?

YES (Current DTC)>>Refer to SRC-88, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

>> Inspection End.

# 2.erase self-diag result

#### Erase the DTC using CONSULT.

#### Can the DTC be erased?

YES >> Inspection End.

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

# DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1.CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to SRC-17, "Trouble Diagnosis without CONSULT". 2.

NOTE:

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#### **B0098 FRONT DOOR SATELLITE SENSOR RH**

#### < DTC/CIRCUIT DIAGNOSIS >

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

#### Is the DTC detected?

YES >> Refer to <u>SRC-88</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000009460785

#### 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

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

- 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-43, "Intermittent Incident".

# 3. WIRING HARNESS

Check the wiring harness for visible damage NOTE.

#### 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.
- Turn ignition switch ON.
- Check for DTC using CONSULT.

#### Is DTC still current?

YES >> GO TO 5.

NO >> Refer to GI-43, "Intermittent Incident".

# ${f 5}$ . AIR BAG DIAGNOSIS SENSOR UNIT

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

#### Is DTC still current?

< DTC/CIRCUIT DIAGNOSIS >  YES >> GO TO 6.	
NO >> Clear DTC. Inspection End.	F
6.FRONT DOOR SATELLITE SENSOR RH  Replace the front door satellite sensor RH. Refer to SR-23, "Removal and Installation".	
Replace the front door satellite sensor Ref. Refer to of 123. Removal and installation.	
>> GO TO 7	
7.RELATED HARNESS	
Replace the related harness.	
>> END	[
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#### **B14XX AIR BAG DIAGNOSIS SENSOR UNIT**

#### < DTC/CIRCUIT DIAGNOSIS >

# B14XX AIR BAG DIAGNOSIS SENSOR UNIT

Description INFOID.000000009460786

#### DTC B14XX 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 B14XX format, but will not match any other SRS diagnostic trouble codes. Refer to <u>SRC-17</u>, "CONSULT Function (AIR BAG)".

#### PART LOCATION

Refer to SRC-5, "Component Parts Location".

DTC Logic

#### DTC DETECTION LOGIC

#### With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
CONTROL UNIT [UNIT FAIL]	B14XX	Air bag diagnosis sensor unit is malfunc-	Refer to SRC-91, "Diagnosis Procedure".
AIRBAG DISPOSAL COMPLETION	514//	tioning.	

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
1	3	2	Air bag diagnosis sensor unit	SRC-91, "Diagnosis Procedure"

### DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

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

#### Is the DTC detected?

YES (Current DTC)>>Refer to <a href="SRC-91">SRC-91</a>, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

NO >> Inspection End.

# ERASE SELF-DIAG RESULT

#### Erase the DTC using CONSULT.

#### Can the DTC be erased?

YES >> Inspection End.

NO >> Refer to <u>SRC-91, "Diagnosis Procedure"</u>.

#### DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1.CHECK SELF-DIAG RESULT

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-17, "Trouble Diagnosis without CONSULT"</u>.
   NOTE:

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

#### Is the DTC detected?

YES >> Refer to <u>SRC-91, "Diagnosis Procedure"</u>.

NO >> Inspection End.

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#### **B14XX AIR BAG DIAGNOSIS SENSOR UNIT**

#### < DTC/CIRCUIT DIAGNOSIS >

Replace the related harness.

#### Diagnosis Procedure INFOID:0000000009460788 Α 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 Visually inspect all applicable harness connectors for the following: Visible damage to connector or terminal Loose terminal D · 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 Reconnect all harness connectors. SRC Turn ignition switch ON. Check for DTC using CONSULT. Is DTC still current? YES >> GO TO 3. NO >> Refer to GI-43, "Intermittent Incident". 3.WIRING HARNESS Check the wiring harness for visible damage NOTE. 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? L YES >> GO TO 4. >> Replace the harness. NO 4.CONFIRM DTC Reconnect all harness connectors. Turn ignition switch ON. Check for DTC using CONSULT. N Is DTC still current? YES >> GO TO 5. NO >> Refer to GI-43, "Intermittent Incident". ${f 5}.$ AIR BAG DIAGNOSIS SENSOR UNIT 1. Replace the air bag diagnosis sensor unit. Refer to SR-26, "Removal and Installation". Turn ignition switch ON. Р Check for DTC using CONSULT. Is DTC still current? YES >> GO TO 6. NO >> Clear DTC. Inspection End. O.RELATED HARNESS

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# **B14XX AIR BAG DIAGNOSIS SENSOR UNIT**

>> END

#### **B00D5 PASSENGER AIR BAG OFF INDICATOR**

#### < DTC/CIRCUIT DIAGNOSIS >

# B00D5 PASSENGER AIR BAG OFF INDICATOR

Description INFOID:000000009460789

#### DTC B00D5 FRONT PASSENGER AIR BAG OFF INDICATOR

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

#### PART LOCATION

Refer to SRC-5, "Component Parts Location".

DTC Logic INFOID:0000000009460790

#### DTC DETECTION LOGIC

#### With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
PASSENGER AIRBAG INDICATOR CIRCUIT [FAIL]		Front passenger air bag OFF indicator is malfunctioning.	Refer to SRC-94, "Diagnosis Procedure".
PASSENGER AIRBAG INDICATOR CIRCUIT [OPEN]		Front passenger air bag OFF indicator circuit is open.	
PASSENGER AIRBAG INDICATOR CIRCUIT [VB-SHORT]	B00D5	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.	

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
1	3	3	Passenger air bag OFF indicator	SRC-94, "Diagnosis Procedure"

### DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check for DTC using CONSULT.

#### Is the DTC detected?

YES (Current DTC)>>Refer to SRC-94, "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 <u>SRC-94</u>, "<u>Diagnosis Procedure</u>".

### DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to SRC-17, "Trouble Diagnosis without CONSULT". NOTE:

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

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#### **B00D5 PASSENGER AIR BAG OFF INDICATOR**

#### < DTC/CIRCUIT DIAGNOSIS >

#### Is the DTC detected?

YES >> Refer to <u>SRC-94</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

# Diagnosis Procedure

INFOID:0000000009460791

#### 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

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 >> Perforn

- >> Perform one of the following repairs:
  - Visible damage: Replace the harness.
  - · Loose terminal: Secure the terminal.
  - Poor connection: Secure the connection.

# 2.CONFIRM DTC

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

#### Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-43, "Intermittent Incident".

# 3. WIRING HARNESS

Check the wiring harness for visible damage NOTE.

#### 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

- Reconnect all harness connectors.
- Turn ignition switch ON.
- Check for DTC using CONSULT.

#### Is DTC still current?

YES >> GO TO 5.

NO >> Refer to GI-43, "Intermittent Incident".

# 5. AIR BAG DIAGNOSIS SENSOR UNIT

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

#### Is DTC still current?

YES >> GO TO 6.

# **B00D5 PASSENGER AIR BAG OFF INDICATOR** < DTC/CIRCUIT DIAGNOSIS > >> Clear DTC. Inspection End. NO $6.\mathsf{FRONT}$ PASSENGER AIR BAG OFF INDICATOR Α Replace the front passenger air bag off indicator. Refer to IP-20, "Cluster Lid C". В >> GO TO 7 7. RELATED HARNESS Replace the related harness. >> END $\mathsf{D}$ Е F G SRC K L M Ν

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# **B1428 SEAT BELT BUCKLE SWITCH LH**

#### < DTC/CIRCUIT DIAGNOSIS >

# B1428 SEAT BELT BUCKLE SWITCH LH

Description INFOID.000000009460792

#### 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-5, "Component Parts Location".

DTC Logic

#### DTC DETECTION LOGIC

#### With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
SEAT BELT BUCKLE SW LH CIRCUIT [OPEN]		Seat belt buckle switch LH circuit is open.	Refer to SRC-97, "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 mal- functioning.	

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	3	8	Seat belt buckle switch LH	SRC-97, "Diagnosis Procedure"

# 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-97, "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 <u>SRC-97, "Diagnosis Procedure"</u>.

# DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-17, "Trouble Diagnosis without CONSULT"</u>.

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

#### Is the DTC detected?

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### **B1428 SEAT BELT BUCKLE SWITCH LH**

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> Refer to <u>SRC-97</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

INFOID:0000000009460794

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# Diagnosis Procedure

# 1. SEAT BELT WARNING LIGHT

Turn ignition switch ON.

Does the seat belt warning lamp stay on after lamp check?

YES >> GO TO 2

NO >> • Check 1

- >> Check 10A fuse [No. 13, located in the fuse block (J/B)].
  - Check seat belt buckle switch LH.
  - Check harness between combination meter and seat belt buckle switch LH.
  - · Check harness between seat belt buckle switch LH and ground.
  - · Check harness between combination meter and air bag diagnosis sensor unit.
  - Check combination meter. Refer to MWI-27, "Fail-Safe".

# $2.\mathsf{SEAT}$ BELT BUCKLE LH

Fasten the seat belt buckle LH.

Does the seat belt warning lamp go OFF?

YES >> Check harness between combination meter and air bag diagnosis sensor unit.

NO >> • Check seat belt buckle switch LH.

- · Check harness between combination meter and seat belt buckle switch LH.
- Check harness between combination meter and air bag diagnosis sensor unit.

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### **B1429 SEAT BELT BUCKLE SWITCH RH**

#### < DTC/CIRCUIT DIAGNOSIS >

# B1429 SEAT BELT BUCKLE SWITCH RH

Description INFOID.000000009460795

#### 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-9, "SRS Component Connectors".

DTC Logic

#### 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-99, "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 mal- functioning.	

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	3	9	Seat belt buckle switch RH	SRC-99, "Diagnosis Procedure"

### DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check for DTC using CONSULT.

#### Is the DTC detected?

YES (Current DTC)>>Refer to SRC-99, "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-99, "Diagnosis Procedure".

# DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to <u>SRC-17, "Trouble Diagnosis without CONSULT"</u>.

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

#### Is the DTC detected?

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B1429 SEAT BELT BUCKLE SWITCH RH	
< DTC/CIRCUIT DIAGNOSIS >	_
YES >> Refer to <u>SRC-99, "Diagnosis Procedure"</u> .  NO >> Inspection End.	А
Diagnosis Procedure	)7
1. SEAT BELT WARNING LIGHT	В
Turn ignition switch ON.	_
Does the seat belt warning lamp come ON?	С
YES >> GO TO 2 NO >> Refer to <u>SRC-110</u> , " <u>Seat Belt Warning System Does Not Function"</u> .	
2.SEAT BELT BUCKLE LH	D
Fasten the seat belt buckle LH.	_
Does the seat belt warning lamp go OFF?	Е
YES >> GO TO 3 NO >> Refer to <u>SRC-110</u> , "Seat Belt Warning System Does Not Function".	
3. OCCUPANT CLASSIFICATION SYSTEM	_
Have a helper sit in the passenger seat.	_ F
Does the passenger air bag off indicator lamp go ON?	
YES >> GO TO 4	G
<ul> <li>NO &gt;&gt; • Check seat belt buckle switch RH.</li> <li>• Check occupant classification system. Refer to <u>SRC-12</u>, "OCCUPANT CLASSIFICATION SYS</li> </ul>	
TEM: System Description".	SR
Check harness between occupant classification control unit and air bag diagnosis sensor unit.	O.
4.SEAT BELT BUCKLE RH	
Fasten the seat belt buckle RH.	- 1
Does the seat belt warning lamp go OFF?	
YES >> Inspection End. NO >> • Check seat belt buckle switch RH.	J
<ul> <li>Check harness between seat belt buckle switch RH and air bag diagnosis sensor unit.</li> </ul>	
<ul> <li>Check harness between seat belt buckle switch RH and ground.</li> <li>Replace air bag diagnosis sensor unit. Refer to <u>SR-26, "Removal and Installation"</u>.</li> </ul>	
Replace all bay diagnosis sensol unit. Relei to SR-20, Removal and installation.	K
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# **B00A0 OCS SYSTEM**

Description INFOID:000000009460798

## DTC B00A0 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-5, "Component Parts Location".

DTC Logic

#### DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order		
OCCUPANT DETECTION SENSOR UNIT [UNIT FAIL]		The OCS control unit is malfunctioning.	Refer to SRC-101, "Diagnosis Procedure".		
OCCUPANT DETECTION SENSOR UNIT [NO DATA]					
OCCUPANT DETECTION SENSOR UNIT [UNDEFINED]	B00A0	_			
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.			

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
1	3	4	Occupant classification system	SRC-101, "Diagnosis Procedure"

# 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-101, "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 <u>SRC-101, "Diagnosis Procedure"</u>.

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#### **B00A0 OCS SYSTEM**

#### < DTC/CIRCUIT DIAGNOSIS >

#### DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1.CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to SRC-17, "Trouble Diagnosis without CONSULT".

#### NOTE:

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

#### Is the DTC detected?

YES >> Refer to <u>SRC-101</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

# Diagnosis Procedure

#### 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.

# 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

- Reconnect all harness connectors.
- Turn ignition switch ON.
- Check for DTC using CONSULT.

### Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-43, "Intermittent Incident".

# 3.wiring harness

Check the wiring harness for visible damage.

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

- Reconnect all harness connectors.
- Turn ignition switch ON.
- Check for DTC using CONSULT.

#### Is DTC still current?

YES >> GO TO 5.

NO >> Refer to GI-43, "Intermittent Incident". **SRC** 

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#### **B00A0 OCS SYSTEM**

#### < DTC/CIRCUIT DIAGNOSIS >

# 5. REPLACE OCS CONTROL UNIT AND SENSORS

- 1. Replace the OCS control unit and OCS sensors. Refer to SR-28, "Removal and Installation".
- 2. Turn ignition switch ON.
- 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

### **B142X COLLISION DETECTION**

#### < DTC/CIRCUIT DIAGNOSIS >

# **B142X COLLISION DETECTION**

Description INFOID:000000009460801

#### DTC B142X 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-5, "Component Parts Location".

DTC Logic

#### 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".	
SIDE COLLISION DETECTION	B1422	Side collision detected. Curtain air bag module and seat belt pre-tensioner are deployed.	Refer to <u>SR-7</u> , "For Side and Rollover <u>Collision"</u> .	
REAR COLLISION DETECTION	B1425	Rear collision has been detected.	Replace air bag diagnosis unit. Refer to	
AIRBAG DISPOSAL COMPLETION	B1426	Collision has been detected. Air bag diagnosis sensor unit has not yet been replaced following repairs.	SR-26, "Removal and Installation".	

#### Without CONSULT

Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
1	3	1	Collision detection / Control unit	SRC-103, "Diagnosis Procedure"

# 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 <u>SRC-103</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

#### Diagnosis Procedure

Refer to SR-5, "For Frontal Collision" or SR-7, "For Side and Rollover Collision".

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INFOID:0000000009460803

#### **B142A IGNITION VOLTAGE**

#### < DTC/CIRCUIT DIAGNOSIS >

#### **B142A IGNITION VOLTAGE**

Description INFOID:000000009460804

#### 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-5, "Component Parts Location".

DTC Logic

#### 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-104, "Diagnosis Procedure".
IGN VOLTAGE [HIGH]	- B142A	Ignition voltage high at air bag diagnosis sensor unit.	

#### DTC CONFIRMATION PROCEDURE (With CONSULT)

# 1. CHECK SELF-DIAG RESULT

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

#### Is the DTC detected?

YES (Current DTC)>>Refer to SRC-104, "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 <u>SRC-104</u>, "<u>Diagnosis Procedure</u>".

# DTC CONFIRMATION PROCEDURE (Without CONSULT)

# 1. CHECK SELF-DIAG RESULT

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-17, "Trouble Diagnosis without CONSULT"</u>.

#### NOTE:

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

#### Is the DTC detected?

YES >> Refer to <u>SRC-104</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

### Diagnosis Procedure

#### 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.

INFOID:0000000009460806

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# **B142A IGNITION VOLTAGE**

# < DTC/CIRCUIT DIAGNOSIS >

< DTC/CIRCUIT DIAGNOSIS >	
1. HARNESS CONNECTOR	А
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 has diagnosis unit to the and component (including	В
All harness connectors should be inspected from the air bag diagnosis unit to the end component (including any in-line connectors).	С
Is the inspection result normal?  YES >> GO TO 2.  NO >> Perform one of the following repairs:  • Visible damage: Replace the harness.	D
<ul><li>Loose terminal: Secure the terminal.</li><li>Poor connection: Secure the connection.</li></ul>	Е
2.CONFIRM DTC	
<ol> <li>Reconnect all harness connectors.</li> <li>Turn ignition switch ON.</li> <li>Check for DTC using CONSULT.</li> <li>DTC still current?</li> </ol>	F
YES >> GO TO 3	G
NO >> Refer to GI-43, "Intermittent Incident".	
3.WIRING HARNESS	SRC
Check the wiring harness for visible damage NOTE.  NOTE:  The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors).	l
Is the inspection result normal?  YES >> GO TO 4.	
NO >> Replace the harness.	J
4.CONFIRM DTC	1/
<ol> <li>Reconnect all harness connectors.</li> <li>Turn ignition switch ON.</li> </ol>	K
3. Check for DTC using CONSULT.	
Is DTC still current? YES >> GO TO 5.	L
NO >> Refer to GI-43. "Intermittent Incident".	
5. AIR BAG DIAGNOSIS SENSOR UNIT	M
<ol> <li>Replace the air bag diagnosis sensor unit. Refer to <u>SR-26, "Removal and Installation"</u>.</li> <li>Turn ignition switch ON.</li> </ol>	
3. Check for DTC using CONSULT.	Ν
Is DTC still current?	
YES >> GO TO 6. NO >> Clear DTC. Inspection End.	0
6.RELATED HARNESS	
Replace the related harness.	Р
END	
>> END	

Revision: November 2013

### **U1000 CAN COMM CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

### U1000 CAN COMM CIRCUIT

Description INFOID:000000009460807

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

#### 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-106, "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 <u>SRC-106</u>, "<u>Diagnosis Procedure</u>". NO >> Refer to <u>GI-43</u>, "<u>Intermittent Incident</u>".

# Diagnosis Procedure

INFOID:0000000009460809

# 1. CHECK CAN COMMUNICATION SYSTEM

Check CAN communication system. Refer to LAN-18, "Trouble Diagnosis Flow Chart".

>> Inspection End.

# **U1010 CONTROL UNIT (CAN)**

#### < DTC/CIRCUIT DIAGNOSIS >

# U1010 CONTROL UNIT (CAN)

Description INFOID:0000000009460810

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:0000000009460811

#### 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 <u>SRC-107</u> , " <u>Diagnosis</u> <u>Procedure"</u> .

#### DTC CONFIRMATION PROCEDURE

# 1.PERFORM SELF-DIAGNOSIS

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

#### Is DTC detected?

YES >> Refer to SRC-107, "Diagnosis Procedure".

NO >> Inspection End.

# Diagnosis Procedure

1. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

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

>> Inspection End.

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#### SRS AIR BAG WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS

# SRS AIR BAG WARNING LAMP DOES NOT TURN ON

# AIR BAG Warning Lamp Does Not Turn On

INFOID:0000000009460813

# 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.

# $3. \mathsf{check}$ 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 <u>SR-26, "Removal and Installation"</u>.

NO >> Replace the combination meter. Refer to MWI-82, "Removal and Installation".

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# SRS AIR BAG WARNING LAMP DOES NOT TURN OFF

	IPTOM DIAGNOSIS >	i.
SRS	AIR BAG WARNING LAMP DOES NOT TURN OFF	А
AIR E	BAG Warning Lamp Does Not Turn Off	
<b>1.</b> CH	ECK CONDITION OF AIR BAG MODULE	В
Inspec	t for any deployed air bag modules or seat belt pre-tensioners.	
Are an	y air bag modules or seat belt pre-tensioners deployed?	0
YES NO	>> Refer to <u>SR-5, "For Frontal Collision"</u> or <u>SR-7, "For Side and Rollover Collision"</u> . >> GO TO 2	С
	ECK THE AIR BAG FUSE	
		D
	10A fuse [No. 32, located in the fuse block (J/B)].	
YES	iuse blown? >> GO TO 3	Е
NO	>> GO TO 3	_
<b>3.</b> CHI	ECK AIR BAG FUSE AGAIN	
	ce 10A fuse [No. 32, located in the fuse block (J/B)] and turn ignition switch ON.	F
•	he fuse blow again?	
YES	>> Replace fuse and harness.	G
NO 1	>> Inspection End.	
<b>4.</b> CHI	ECK AIR BAG DIAGNOSIS SENSOR UNIT	
	ct CONSULT.	SRO
	BAG" displayed on CONSULT?	
YES NO	>> GO TO 5 >> Visually inspect the air bag diagnosis sensor unit harness connections. If the connections are OK,	
110	replace the air bag diagnosis sensor unit. Refer to <u>SR-26. "Removal and Installation"</u> .	
<b>5.</b> сні	ECK HARNESS CONNECTION	
Check	for loose connections between the combination meter and the air bag diagnosis sensor unit.	J
Are the	ere 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.	K
NO	>> Replace air bag diagnosis sensor unit. Refer to <u>SR-26, "Removal and Installation"</u> .	
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**SRC-109** Revision: November 2013 2014 Altima NAM

#### **SEAT BELT WARNING SYSTEM**

#### < SYMPTOM DIAGNOSIS >

### SEAT BELT WARNING SYSTEM

# Seat Belt Warning System Does Not Function

INFOID:0000000009460815

(For US/CAN models only)

### 1.SEAT BELT WARNING LIGHT

Turn ignition switch ON.

#### Does the seat belt warning lamp come ON?

YES >> GO TO 2

NO >> • Check

- >> 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-27, "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 (

>> • Check occupant classification system. Refer to <a href="SRC-12">SRC-12</a>, "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".