SRS AIRBAG CONTROL SYSTEM

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow INFOID:0000000005267917 В

OVERALL SEQUENCE

ACTION ITEM REFERENCE ITEM Check in Listen to customer complaints and requests. Perform preliminary check. Preliminary check *1 Check for any service bulletin. SRS Operation Check *2 Perform self-diagnosis using "AIR BAG" warning lamp. - User mode • DIAGNOSTIC PROCEDURE Inspect malfunctioning part. - Diagnosis mode 4: Using CONSULT-Ⅲ*3 Perform self-diagnosis using CONSULT-Ⅲ. DIAGNOSTIC PROCEDURE 6: Using "AIR BAG" warning lamp *4 Perform self-diagnosis "AIR BAG" warning lamp. Repair/Replace SRS Operation Check *2 Final check - Diagnosis User mode ΟK Check out

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

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DETAILED WORK FLOW

CUSTOMER INFORMATION

Get detailed information from the customer about the symptom.

>> GO TO 2

2.PRELIMINARY CHECK

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

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

>> GO TO 3

3. TECHNICAL SERVICE BULLETINS

Check for technical service bulletins.

>> GO TO 4

4. USER MODE

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

>> GO TO 5

5.SELF-DIAGNOSIS

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

>> GO TO 6

6.REPLACE PART

Replace the malfunctioning part.

>> GO TO 7

7.FINAL CHECK

Check SRS using Diagnosis mode and User mode.

Does Diagnosis mode and User mode indicate SRS normal?

YES >> Inspection end.

NO >> GO TO 5

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INTERMITTENTS INCIDENT

< BASIC INSPECTION >

INTERMITTENTS INCIDENT

Inspection Procedure

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INTERMITTENT TROUBLE

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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] using CONSULT-III.

Trouble Diagnosis with CONSULT-III

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DIAGNOSTIC PROCEDURE 4

Check SRS Repair History

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

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Check repair history of the SRS.

Have any previous repairs been made to the SRS?

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

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

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FUNCTION DIAGNOSIS

SRS AIR BAG SYSTEM

SRS Configuration

INFOID:0000000005267920 Front passenger Crash zone air bag module sensor Driver air bag Occupant classification module Seat belt buckle Seat belt buckle switch RH switch LH Front LH seat belt Front RH seat belt pre-tensioner pre-tensioner LH side air bag RH side air bag (satellite) sensor (satellite) sensor Air bag diagnosis sensor unit (G sensor for front (G sensor for front • Auxiliary power source (condenser) LH side air bag) RH side air bag) Drive circuit · G sensor Front RH side air bag Front LH side air bag (for driver and front passenger air module bags, front seat belt pre-tensioner) module · Safing sensor (for driver and front passenger air bags, front seat belt pre-tensioner) RH side curtain LH side curtain · Safing sensor air bag module air bag module (for front side air bag and side curtain air bag module)

The air bag deploys if the air bag diagnosis sensor unit is activated while the ignition switch is in the ON or START position.

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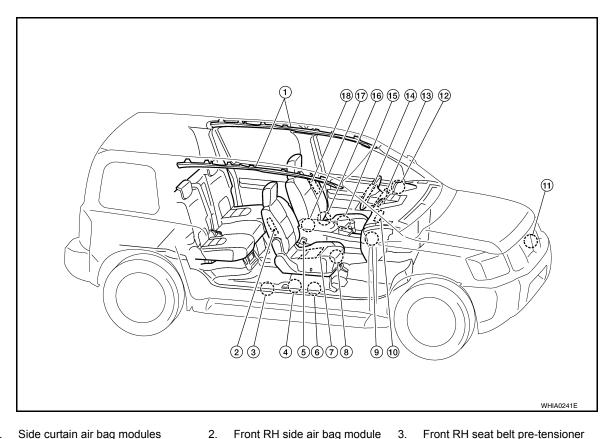
The collision modes for which supplemental restraint systems are activated are different among the SRS systems. For example, the driver air bag module, front passenger air bag module and front seat belt pre-tensioners are activated in a frontal collision but not in a side collision.

SRS configurations for some collision modes are as follows:

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

SRS Component Parts Location

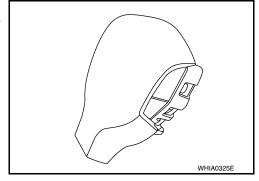
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- Side curtain air bag modules
- 4. Belt tension sensor
- Occupant classification system sen- 8. 7.
- 10. Front passenger air bag module
- 13. Spiral cable
- 16. Front LH seat belt pre-tensioner
- 2. Front RH side air bag module
- 5. Seat belt buckle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

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.



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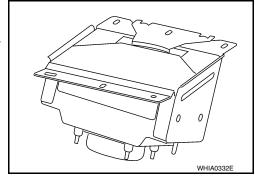
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Front Passenger Air Bag Module

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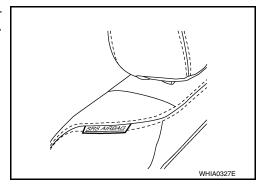
The front passenger air bag module is located behind the instrument panel assembly. It operates with the SRS system in a frontal collision exceeding a specified level. Refer to SRC-10, "Occupant Classification System (OCS)" for more information.



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Front Side Air Bag

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



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Side Curtain Air Bag

Side curtain air bag modules are located above the vehicle headlining. Vehicles with side curtain air bags are equipped with labels as shown.



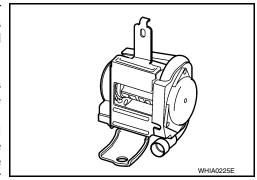
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Front Seat Belt Pre-tensioner with Load Limiter

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 pre-tensioner. Vehicle passengers are securely restrained.

When passengers in a vehicle are thrown forward in a collision and the restraining force of the seat belt exceeds a specified level, the load limiter permits the specified extension of the seat belt by the twisting of the ELR shaft, and a relaxation of the chest-area seat belt web tension while maintaining force.



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SRS AIR BAG SYSTEM

< FUNCTION DIAGNOSIS >

Direct-connect SRS Component Connectors

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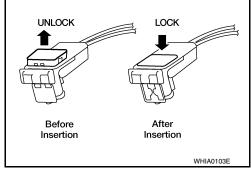
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The following SRS components use direct-connect style harness connectors.

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

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

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



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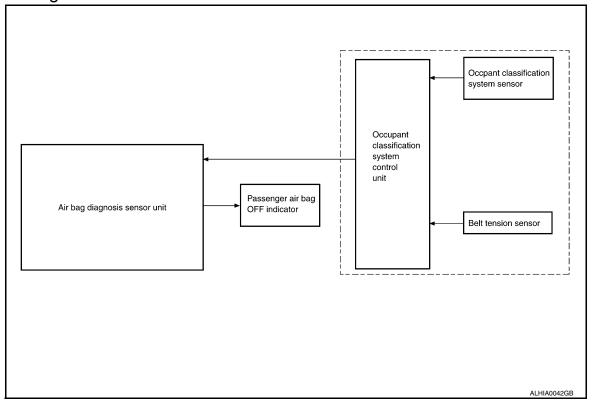
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OCCUPANT CLASSIFICATION SYSTEM

System Diagram

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Occupant Classification System (OCS)

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

NOTE:

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

Passenger Air Bag Status Conditions

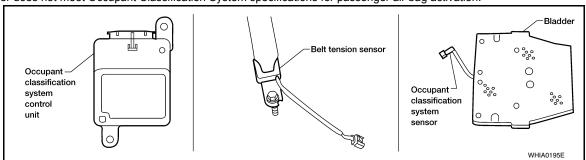
Front Passenger Seat (Condition)	PASS AIR BAG OFF Indicator (Status)	Passenger Air Bag Status (Readiness)	CONSULT-III Display
Seat occupied	OFF	Active (enabled)	ON
Seat occupied NOTE	ON	Deactivated (disabled)	OFF
Seat empty	OFF	Deactivated (disabled)	OFF

NOTE:

OCCUPANT CLASSIFICATION SYSTEM

< FUNCTION DIAGNOSIS >

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



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PASSENGER SEAT BELT WARNING SYSTEM

< FUNCTION DIAGNOSIS >

PASSENGER SEAT BELT WARNING SYSTEM

System Diagram

Seat belt buckle switch LH

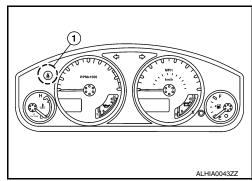
Seat belt buckle switch RH

System Description

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



Passenger Seat Belt Warning System Operation

Driver seat status (Ignition switch ON)	Passenger seat status	Seat belt buckle switch LH status	Seat belt buckle switch RH status	Seat belt warning lamp
	O and a normal ord		Buckled	Off
Seat occupied	Seat occupied	Buckled	Unbuckled	On
	Seat unoccupied			Off
	_	Unbuckled	_	On

Component Parts Location

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

< FUNCTION DIAGNOSIS >

ON BOARD DIAGNOSTIC (OBD) SYSTEM

Trouble Diagnosis Introduction

CAUTION:

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

DIAGNOSIS FUNCTION

The SRS self-diagnosis results can be read by using "AIR BAG" warning lamp and/or CONSULT-III.

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

The Diagnosis mode allows the technician to locate and inspect the malfunctioning part.

The mode applications for the "AIR BAG" warning lamp and CONSULT-III are as follows:

	User mode	Diagnosis mode	Display type
"AIR BAG" warning lamp	X	X	ON-OFF operation
CONSULT-III	_	X	Monitoring

HOW TO PERFORM TROUBLE DIAGNOSES FOR QUICK AND ACCURATE REPAIR

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

Information From Customer

WHAT - Vehicle model

WHEN - Date, Frequencies

WHERE - Road conditions

HOW - Operating conditions, Symptoms

Preliminary Check

Check that the following parts are in good order.

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

SRS Operation Check

DIAGNOSTIC PROCEDURE 1

Checking SRS Operation Using "AIR BAG" Warning Lamp—User Mode

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



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< FUNCTION DIAGNOSIS >

RS Air bag warning lamp examples		
"AIR BAG" warning lamp (User mode)	SRS condition	Reference item
ON OFF 7 Sec.	No malfunction is detected. No further action is necessary.	_
ON OFF 7 sec. 0.5 sec. 0.5 sec. SHIA0012E	The system is malfunctioning and needs to be repaired as indicated.	Go to DIAGNOSTIC PROCEDURE 2 that follows (with CONSULT-III) or SRC-15, "Trouble Diagnosis without CONSULT-III" (without CONSULT-III).
	 Air bag is deployed. Seat belt pre-tensioner is deployed.	Go to COLLISION DIAGNOSIS SR-18, "For Frontal Collision" or SR-19, "For Side and Rollover Collision".
ON OFF—SHIA0013E	 Air bag diagnosis sensor unit is malfunctioning. Air bag power supply circuit is malfunctioning. SRS air bag warning lamp circuit is malfunctioning. 	Go to SRC-75, ""AIR BAG" Warning Lamp Does Not Turn Off".
IGN ON ON OFF	 Air bag diagnosis sensor unit is malfunctioning. Air bag warning lamp circuit is malfunctioning. 	Go to SRC-75, ""AIR BAG" Warning Lamp Does Not Turn On".

DIAGNOSTIC PROCEDURE 2

- 1. Connect CONSULT-III.
- 2. Diagnostic code is displayed on "SELF-DIAG [CURRENT]".

 If no malfunction is detected on "SELF-DIAG [CURRENT]", but malfunction is detected in "SRS Operation Check" using the "AIR BAG" warning lamp, the following cases may exist:
 - "SELF-DIAG [PAST]" memory might not be erased.
 - The SRS system malfunctions intermittently.

Perform DIAGNOSTIC PROCEDURE 4. Refer to <u>SRC-15</u>, "Self-Diagnosis Function (Without CONSULT-III)".

< FUNCTION DIAGNOSIS >

Trouble Diagnosis without CONSULT-III

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DIAGNOSTIC PROCEDURE 6

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

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

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

SRS is now in Diagnosis mode. Refer to SRC-71, "Trouble Diagnosis without CONSULT-III".

CONSULT-III Function (AIR BAG)

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

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

Self-Diagnosis Function (Without CONSULT-III)

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

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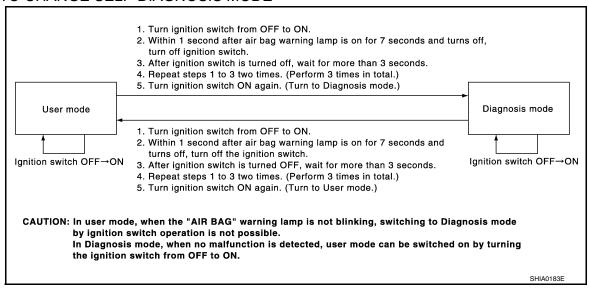
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< FUNCTION DIAGNOSIS >

HOW TO CHANGE SELF-DIAGNOSIS MODE



DIAGNOSTIC PROCEDURE 3

Final Check of SRS Using CONSULT-III—Diagnosis Mode

- 1. Connect CONSULT-III.
- If no DTC is detected on "SELF-DIAG [CURRENT]", repair of SRS is completed. Go to step 3.
 If any DTC is detected on "SELF-DIAG [CURRENT]", the malfunctioning part has not been repaired completely or another malfunctioning part is being detected. Perform DIAGNOSTIC PROCEDURE 2. Refer to SRC-13, "SRS Operation Check".
- 3. Touch "ERASE".

NOTE:

Touch "ERASE" to clear the memory of the malfunction ("SELF-DIAG [PAST]").

If the memory of the malfunction in "SELF-DIAG [PAST]" is not erased, the User mode shows the system malfunction by the operation of the warning lamp even if the malfunction is repaired completely.

- Touch "BACK" key of CONSULT-III. Touch "SELF-DIAG [PAST]".
- Check that no malfunction is detected on "SELF-DIAG [PAST]".
- 6. Touch "BACK" key of CONSULT-III to return to User mode from Diagnosis mode.
- 7. Turn ignition switch OFF and then turn off and disconnect CONSULT-III.
- 8. Go to SRC-13, "SRS Operation Check".

DIAGNOSTIC PROCEDURE 4

Check SRS Repair History

1.consider possibility that self-diagnostic result was not erased after repair

Check repair history of the SRS.

Have any previous repairs been made to the SRS?

- YES >> Self-diagnostic result "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair. Perform DIAGNOSTIC PROCEDURE 3. Refer to SRC-15, "Self-Diagnosis Function (Without CONSULT-III)".
- NO >> Perform DIAGNOSTIC PROCEDURE 2. Refer to SRC-13, "SRS Operation Check".

B1049 - B1052, B1054 - B1057 DRIVER AIRBAG MODULE

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

B1049 - B1052, B1054 - B1057 DRIVER AIRBAG MODULE

Description INFOID:0000000005267938

DTC B1049 - B1052, B1054 - B1057 DRIVER AIRBAG MODULE

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

PART LOCATION

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

DTC Logic Е INFOID:0000000005267939

DTC DETECTION LOGIC

With CONSULT-III

CONSULT-III name	DTC	DTC detecting condition		Repair order	•						
DRIVER AIRBAG MODULE	B1049	Driver air bag module circuit (DR1) is open (including the spiral cable).	2. Replace the harness if it has visible	 Replace the harness if it has visib Replace the driver air bag module Replace the spiral cable. Replace the air bag diagnosis ser 	 Replace the harness if it has vising a Replace the driver air bag modulup. Replace the spiral cable. Replace the air bag diagnosis seems. 	2. Replace the harness if it has visi 3. Replace the driver air bag modul 4. Replace the spiral cable. 5. Replace the air bag diagnosis se	 2. Replace the harness if it has visible 3. Replace the driver air bag module. 4. Replace the spiral cable. 5. Replace the air bag diagnosis sense 	 Replace the harness if it has visib Replace the driver air bag module Replace the spiral cable. Replace the air bag diagnosis sei 	2. Replace the harness if it has voted as Replace the driver air bag mode. 4. Replace the spiral cable. 5. Replace the air bag diagnosis	Visually check the wiring harness connection. Replace the harness if it has visible damage.	
[OPEN]	B1054	Driver air bag module circuit (DR2) is open (including the spiral cable).								Replace the spiral cable.	
DRIVER AIRBAG MODULE	B1050	Driver air bag module circuit (DR1) is shorted to a power supply circuit (including the spiral cable).									
[VB-SHORT]		Driver air bag module circuit (DR2) is shorted to a power supply circuit (including the spiral cable).									
DRIVER AIRBAG MODULE	B1051	Driver air bag module circuit (DR1) is shorted to ground (including the spiral cable).									
[GND-SHORT]	B1056	Driver air bag module circuit (DR2) is shorted to ground (including the spiral cable).									
DRIVER AIRBAG MODULE	B1052	Driver air bag module circuits (DR1) are shorted to each other (including the spiral cable).									
[SHORT]	B1057	Driver air bag module circuits (DR2) are shorted to each other (including the spiral cable).			_						

Without CONSULT-III

Flash pattern	Repair order
a through d are repeated. d: Two flashes indicate malfunctioning driver air bag module circuits. 2 flashes 2 flashes 3 sec. 2 sec. 2 sec. 0.5 sec. 2 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the spiral cable. Replace driver air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness.

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

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B1049 - B1052, B1054 - B1057 DRIVER AIRBAG MODULE

< COMPONENT DIAGNOSIS >

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-18, "Diagnosis Procedure (Component Diagnosis)".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE

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

1. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2. IGNITION SWITCH

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

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4. REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5.

5. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6.

6. DIAGNOSTIC MODE

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

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000005267940

Recheck SRS after each replacement.

1. HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

YES >> Replace the harness.

NO >> GO TO 2

B1049 – B1052, B1054 – B1057 DRIVER AIRBAG MODULE < COMPONENT DIAGNOSIS >	
2. WIRING HARNESS	_
Is there any visible damage to the harness? YES or NO	_ A
YES >> Replace the harness. NO >> GO TO 3	В
3.DRIVER AIR BAG MODULE	- С
Replace the driver air bag module. Refer to <u>SR-4, "Removal and Installation"</u> .	C
>> GO TO 4	D
4.SPIRAL CABLE	
Replace the spiral cable. Refer to <u>SR-6</u> , "Removal and Installation".	E
>> GO TO 5	
5. AIR BAG DIAGNOSIS SENSOR UNIT	F
Replace the air bag diagnosis sensor unit. Refer to <u>SR-15</u> . "Removal and Installation".	_
>> GO TO 6	G
6. RELATED HARNESS	
Replace the related harness.	SRC
>> END	
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Revision: July 2009 SRC-19 2010 Xterra

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B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

< COMPONENT DIAGNOSIS >

B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

Description INFOID:000000005267941

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

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

PART LOCATION

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

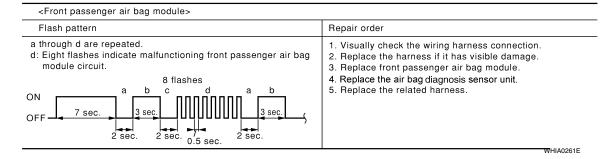
DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

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

Without CONSULT-III



DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Revision: July 2009 SRC-20 2010 Xterra

B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

< COMPONENT DIAGNOSIS >	
Is the DTC detected?	
YES >> Refer to <u>SRC-21, "Diagnosis Procedure (Component Diagnosis)"</u> . NO >> Inspection End.	Α
DTC CONFIRMATION PROCEDURE (Without CONSULT-III)	В
NOTE: SRS will not enter diagnosis mode if no malfunction is detected in user mode.	
1. IGNITION SWITCH	
Turn ignition switch ON.	С
Turring fillion switch ON.	
>> GO TO 2	D
2.IGNITION SWITCH	
After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.	Е
>> GO TO 3	
3.WAIT TIME	F
Wait more than 3 seconds.	
>> GO TO 4	G
4.REPEAT STEPS	
Repeat steps 1 to 3 twice.	SR
>> GO TO 5	
5.IGNITION SWITCH	I
Turn ignition switch ON.	J
>> GO TO 6	U
6. DIAGNOSTIC MODE	1.6
SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15 , "Trouble Diagnosis without CONSULT-III".	K
>> END	L
Diagnosis Procedure (Component Diagnosis)	M
Recheck SRS after each replacement.	IVI
1. HARNESS CONNECTOR	
Is there any visible damage to the connector?	Ν
YES or NO	
YES >> Replace the harness. NO >> GO TO 2	0
2. WIRING HARNESS	
Is there any visible damage to the harness?	Р
YES or NO	
YES >> Replace the harness. NO >> GO TO 3	
3.FRONT PASSENGER AIR BAG MODULE	

Revision: July 2009 SRC-21 2010 Xterra

Replace the front passenger air bag module. Refer to <u>SR-8</u>, "Removal and Installation".

B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

< COMPONENT DIAGNOSIS >

>> GO TO 4

4. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to <u>SR-15</u>, "Removal and Installation".

>> GO TO 5

5. RELATED HARNESS

Replace the related harness.

>> END

B1134 - B1137 SIDE AIRBAG MODULE LH

< COMPONENT DIAGNOSIS >

B1134 - B1137 SIDE AIRBAG MODULE LH

Description INFOID:0000000005267944

DTC B1134 - B1137 FRONT LH SIDE AIR BAG MODULE

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

PART LOCATION

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

DTC Logic INFOID:0000000005267945

DTC DETECTION LOGIC

With CONSULT-III

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

Without CONSULT-III

Flash pattern	Repair order
a through f are repeated. f: Two flashes indicate malfunctioning front LH side air bag module circuit. 2 flashes 7 sec. 2 flashes 2 sec. 0.5 sec. 2 sec. 2 sec.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace front LH seat back assembly. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-24, "Diagnosis Procedure (Component Diagnosis)".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

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

1. IGNITION SWITCH

SRC-23 Revision: July 2009 2010 Xterra

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B1134 - B1137 SIDE AIRBAG MODULE LH

< COMPONENT DIAGNOSIS >

Turn ignition switch ON.

>> GO TO 2

2. IGNITION SWITCH

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

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4. REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

Ignition switch

Turn ignition switch ON.

>> GO TO 6

6. DIAGNOSTIC MODE

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

>> END

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000005267946

Recheck SRS after each replacement.

1. HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

YES >> Replace the harness.

NO >> GO TO 2

2. WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

YES >> Replace the harness.

NO >> GO TO 3

$3.\mathsf{fRONT}$ LH SIDE AIR BAG MODULE

Replace the front LH seat back assembly. Refer to SE-12, "Removal and Installation".

>> GO TO 4

4. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-15, "Removal and Installation".

>> GO TO 5

5. RELATED HARNESS

Revision: July 2009 SRC-24 2010 Xterra

B1134 - B1137 SIDE AIRBAG MODULE LH

< COMPONENT DIAGNOSIS >

Replace the related harness.

>> END

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B1129 - B1132 SIDE AIRBAG MODULE RH

< COMPONENT DIAGNOSIS >

B1129 – B1132 SIDE AIRBAG MODULE RH

Description INFOID:000000005267947

DTC B1129 - B1132 FRONT RH SIDE AIR BAG MODULE

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

PART LOCATION

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

DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

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

Without CONSULT-III

<front air="" bag="" module="" rh="" side=""></front>	
Flash pattern	Repair order
a through f are repeated. f: One flash indicate malfunctioning front RH side air bag module circuit. 1 flash ON OFF 7 sec. 2 sec. 2 sec. 3 0.5 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace front RH seat back assembly. Replace the air bag diagnosis sensor unit. Replace the related harness.
0.5 sec.	WHIA0264E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-27</u>, "<u>Diagnosis Procedure (Component Diagnosis</u>)".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE

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

1. IGNITION SWITCH

Revision: July 2009 SRC-26 2010 Xterra

B1129 - B1132 SIDE AIRBAG MODULE RH

>> GO TO 2	
2.IGNITION SWITCH	
After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.	
>> GO TO 3	
3.WAIT TIME	
Wait more than 3 seconds.	
>> GO TO 4	
4.REPEAT STEPS	
Repeat steps 1 to 3 twice.	
>> GO TO 5	
5. IGNITION SWITCH	
Turn ignition switch ON.	
>> GO TO 6	
6.DIAGNOSTIC MODE	
SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC nosis without CONSULT-III"</u> .	-15, "Trouble Diag-
>> END	
Diagnosis Procedure (Component Diagnosis)	INFOID:0000000005267949
Recheck SRS after each replacement.	
1	
1. HARNESS CONNECTOR	
Is there any visible damage to the connector?	
Is there any visible damage to the connector?	
Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2	
Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS	
Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness?	
Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness.	
Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3	
Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3 3.FRONT RH SIDE AIR BAG MODULE	
Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3 3.FRONT RH SIDE AIR BAG MODULE Replace the front RH seat back assembly. Refer to SE-12. "Removal and Installation".	
Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2 2. WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3 3. FRONT RH SIDE AIR BAG MODULE	

Revision: July 2009 SRC-27 2010 Xterra

B1129 - B1132 SIDE AIRBAG MODULE RH

< COMPONENT DIAGNOSIS >

Replace the related harness.

>> END

B1150 - B1153 SIDE CURTAIN AIR BAG MODULE LH

< COMPONENT DIAGNOSIS >

B1150 – B1153 SIDE CURTAIN AIR BAG MODULE LH

Description INFOID:000000005267950

DTC B1150 - B1153 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-7, "SRS Component Parts Location".

DTC Logic INFOID:0000000005267951

DTC DETECTION LOGIC

With CONSULT-III

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

Without CONSULT-III

Flash pattern	Repair order
a through f are repeated. f: Six flashes indicate malfunctioning LH side curtain air bag module circuit. ON OFF 7 sec. 0.5 sec. 0.5 sec. 2 sec. 0.5 sec. 0.5 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace LH side curtain air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness.
***************************************	WHIA0267E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-30, "Diagnosis Procedure (Component Diagnosis)".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

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

1. IGNITION SWITCH

SRC-29 Revision: July 2009 2010 Xterra

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B1150 - B1153 SIDE CURTAIN AIR BAG MODULE LH

< COMPONENT DIAGNOSIS >

Turn ignition switch ON.

>> GO TO 2

2. IGNITION SWITCH

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

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4. REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

Ignition switch

Turn ignition switch ON.

>> GO TO 6

6. DIAGNOSTIC MODE

SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-71</u>, "Trouble <u>Diagnosis</u> without <u>CONSULT-III"</u>.

>> END

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000005267952

Recheck SRS after each replacement.

1. HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

YES >> Replace the harness.

NO >> GO TO 2

2. WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

YES >> Replace the harness.

NO >> GO TO 3

3.LH SIDE CURTAIN AIR BAG MODULE

Replace the LH side curtain air bag module. Refer to SR-11, "Removal and Installation".

>> GO TO 4

4. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-15, "Removal and Installation".

>> GO TO 5

5. RELATED HARNESS

Revision: July 2009 SRC-30 2010 Xterra

B1150 - B1153 SIDE CURTAIN AIR BAG MODULE LH

< COMPONENT DIAGNOSIS >

Replace the related harness.

>> END

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B1145 - B1148 SIDE CURTAIN AIR BAG MODULE RH

< COMPONENT DIAGNOSIS >

B1145 – B1148 SIDE CURTAIN AIR BAG MODULE RH

Description INFOID:000000005267953

DTC B1145 - B1148 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-7, "SRS Component Parts Location".

DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

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

Without CONSULT-III

<rh air="" bag="" curtain="" module="" side=""></rh>	
Flash pattern	Repair order
a through f are repeated. f: Five flashes indicate malfunctioning RH side curtain air bag module circuit. 5 flashes ON OFF 7 sec. 2 sec. 0.5 sec. 2 sec. 2 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace RH side curtain air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness.
	₩HIA0266E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-33</u>, "<u>Diagnosis Procedure (Component Diagnosis)</u>".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE

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

1. IGNITION SWITCH

Revision: July 2009 SRC-32 2010 Xterra

B1145 - B1148 SIDE CURTAIN AIR BAG MODULE RH

Turn ignition switch ON.	_
>> GO TO 2	
2.IGNITION SWITCH	
After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.	_
>> GO TO 3	
3.WAIT TIME	
Wait more than 3 seconds.	_
>> GO TO 4	
4.REPEAT STEPS	
Repeat steps 1 to 3 twice.	_
>> GO TO 5	
5. IGNITION SWITCH	
Turn ignition switch ON.	_
>> GO TO 6	
6. DIAGNOSTIC MODE	
SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-71, "Trouble Diagnosis without CONSULT-III"</u> .	<u>I</u>
>> END	
Diagnosis Procedure (Component Diagnosis)	155
Recheck SRS after each replacement.	
1. HARNESS CONNECTOR	
Is there any visible damage to the connector?	_
YES or NO YES >> Replace the harness.	
NO >> GO TO 2	
2. WIRING HARNESS	
Is there any visible damage to the harness?	_
YES or NO	
YES >> Replace the harness. NO >> GO TO 3	
3.RH SIDE CURTAIN AIR BAG MODULE	
Replace the RH side curtain air bag module. Refer to SR-11, "Removal and Installation".	_
>> GO TO 4	
4.AIR BAG DIAGNOSIS SENSOR UNIT	
Replace the air bag diagnosis sensor unit. Refer to <u>SR-15</u> , "Removal and Installation".	_
>> GO TO 5	
5.RELATED HARNESS	

Revision: July 2009 SRC-33 2010 Xterra

B1145 - B1148 SIDE CURTAIN AIR BAG MODULE RH

< COMPONENT DIAGNOSIS >

Replace the related harness.

>> END

B1086 - B1089 SEAT BELT PRE-TENSIONER LH

< COMPONENT DIAGNOSIS >

B1086 – B1089 SEAT BELT PRE-TENSIONER LH

Description INFOID:000000005267956

DTC B1086 - B1089 SEAT BELT PRE-TENSIONER LH

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

PART LOCATION

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

DTC Logic INFOID:000000005267957

DTC DETECTION LOGIC

With CONSULT-III

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

Without CONSULT-III

Flash pattern	Repair order
a through d are repeated. d: Three flashes indicate malfunctioning front LH seat belt pre-tensioner circuit.	Visually check the wiring harness connections. Replace the harness if it has visible damage. Replace front LH seat belt pre-tensioner.
3 flashes 0	Replace the air bag diagnosis sensor unit. Replace the related harness.
0.5 sec.	WHIA0263E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-36, "Diagnosis Procedure (Component Diagnosis)".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

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

1. IGNITION SWITCH

SRC-35 Revision: July 2009 2010 Xterra

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B1086 - B1089 SEAT BELT PRE-TENSIONER LH

< COMPONENT DIAGNOSIS >

Turn ignition switch ON.

>> GO TO 2

2. IGNITION SWITCH

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

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4. REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6. DIAGNOSTIC MODE

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

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000005267958

Recheck SRS after each replacement.

1. HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

YES >> Replace the harness.

NO >> GO TO 2

2. WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

YES >> Replace the harness.

NO >> GO TO 3

3.front lh seat belt pre-tensioner

Replace the front LH seat belt pre-tensioner. Refer to SR-14, "Removal and Installation".

>> GO TO 4

4. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-15, "Removal and Installation".

>> GO TO 5

5. RELATED HARNESS

Revision: July 2009 SRC-36 2010 Xterra

B1086 - B1089 SEAT BELT PRE-TENSIONER LH

< COMPONENT DIAGNOSIS >

Replace the related harness.

>> END

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B1081 - B1084 SEAT BELT PRE-TENSIONER RH

< COMPONENT DIAGNOSIS >

B1081 – B1084 SEAT BELT PRE-TENSIONER RH

Description

DTC B1081 - B1084 SEAT BELT PRE-TENSIONER RH

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

PART LOCATION

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

DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

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

Without CONSULT-III

<front belt="" pre-tensioner="" rh="" seat=""></front>	
Flash pattern	Repair order
a through d are repeated. d: One flash indicates malfunctioning front RH seat belt pre-tensioner circuit. ON OFF 7 sec. 2 sec. 0.5 sec. 2 sec.	Visually check the wiring harness connections. Replace the harness if it has visible damage. Replace front RH seat belt pre-tensioner. Replace the air bag diagnosis sensor unit. Replace the related harness.

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-39</u>, "<u>Diagnosis Procedure (Component Diagnosis</u>)".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE

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

1. IGNITION SWITCH

Revision: July 2009 SRC-38 2010 Xterra

B1081 – B1084 SEAT BELT PRE-TENSIONER RH

Turn ignition switch ON.	
>> GO TO 2	
2.IGNITION SWITCH	
After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.	
>> GO TO 3	
3.WAIT TIME	
Wait more than 3 seconds.	
>> GO TO 4	
4.REPEAT STEPS	
Repeat steps 1 to 3 twice.	
>> GO TO 5	
5.IGNITION SWITCH	
Turn ignition switch ON.	
>> GO TO 6	
6.DIAGNOSTIC MODE	
SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SR nosis without CONSULT-III"</u> . >> END	C-15, "Trouble Diag-
Diagnosis Procedure (Component Diagnosis)	
Diagnosis Flocedule (Component Diagnosis)	INFOID:000000005267961
Recheck SRS after each replacement.	
Recheck SRS after each replacement. 1.HARNESS CONNECTOR	
Recheck SRS after each replacement.	
Recheck SRS after each replacement. 1.HARNESS CONNECTOR Is there any visible damage to the connector? YES or NO YES >> Replace the harness.	
Recheck SRS after each replacement. 1. HARNESS CONNECTOR Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2	
Recheck SRS after each replacement. 1.HARNESS CONNECTOR Is there any visible damage to the connector? YES or NO YES >> Replace the harness.	
Recheck SRS after each replacement. 1. HARNESS CONNECTOR Is there any visible damage to the connector? YES or NO YES -> Replace the harness. NO -> GO TO 2 2. WIRING HARNESS Is there any visible damage to the harness? YES or NO	
Recheck SRS after each replacement. 1. HARNESS CONNECTOR Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2 2. WIRING HARNESS Is there any visible damage to the harness?	
Recheck SRS after each replacement. 1. HARNESS CONNECTOR Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2 2. WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3	
Recheck SRS after each replacement. 1. HARNESS CONNECTOR Is there any visible damage to the connector? YES or NO YES -> Replace the harness. NO -> GO TO 2 2. WIRING HARNESS Is there any visible damage to the harness? YES or NO YES -> Replace the harness. NO -> GO TO 3 3. FRONT RH SEAT BELT PRE-TENSIONER	
Recheck SRS after each replacement. 1. HARNESS CONNECTOR Is there any visible damage to the connector? YES or NO YES -> Replace the harness. NO -> GO TO 2 2. WIRING HARNESS Is there any visible damage to the harness? YES or NO YES -> Replace the harness.	
Recheck SRS after each replacement. 1. HARNESS CONNECTOR Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2 2. WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3 3. FRONT RH SEAT BELT PRE-TENSIONER Replace the front RH seat belt pre-tensioner. Refer to SR-14. "Removal and Installation"	
Recheck SRS after each replacement. 1. HARNESS CONNECTOR Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2 2. WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3 3. FRONT RH SEAT BELT PRE-TENSIONER Replace the front RH seat belt pre-tensioner. Refer to SR-14. "Removal and Installation" >> GO TO 4	
Recheck SRS after each replacement. 1. HARNESS CONNECTOR Is there any visible damage to the connector? YES or NO YES >> Replace the harness. NO >> GO TO 2 2. WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3 3. FRONT RH SEAT BELT PRE-TENSIONER Replace the front RH seat belt pre-tensioner. Refer to SR-14, "Removal and Installation" >> GO TO 4 4. AIR BAG DIAGNOSIS SENSOR UNIT	

Revision: July 2009 SRC-39 2010 Xterra

B1081 - B1084 SEAT BELT PRE-TENSIONER RH

< COMPONENT DIAGNOSIS >

Replace the related harness.

>> END

B1033 - B1035 CRASH ZONE SENSOR

< COMPONENT DIAGNOSIS >

B1033 - B1035 CRASH ZONE SENSOR

Description INFOID:000000005267962

DTC B1033 - B1035 CRASH ZONE SENSOR

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

PART LOCATION

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

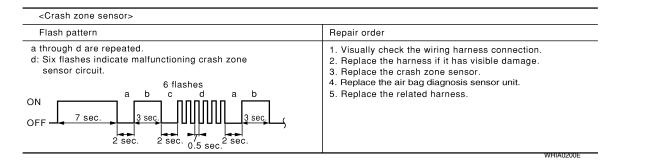
DTC Logic INFOID:000000005267963

DTC DETECTION LOGIC

With CONSULT-III

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

Without CONSULT-III



DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to SRC-42, "Diagnosis Procedure (Component Diagnosis)".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

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

1. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

Revision: July 2009

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SRC-41 2010 Xterra

B1033 - B1035 CRASH ZONE SENSOR

< COMPONENT DIAGNOSIS >

$\overline{2}$. IGNITION SWITCH

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

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4. REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6. DIAGNOSTIC MODE

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

>> END

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000005267964

Recheck SRS after each replacement.

1. HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

YES >> Replace the harness.

NO >> GO TO 2

2. WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

YES >> Replace the harness.

NO >> GO TO 3

3.crash zone sensor

Replace the crash zone sensor. Refer to SR-12, "Removal and Installation".

>> GO TO 4

4. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-15. "Removal and Installation".

>> GO TO 5

5. RELATED HARNESS

Replace the related harness.

Revision: July 2009 SRC-42 2010 Xterra

B1033 - B1035 CRASH ZONE SENSOR

< COMPONENT DIAGNOSIS >

>> END

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Revision: July 2009 SRC-43 2010 Xterra

B1118 - B1120 SATELLITE SENSOR LH

< COMPONENT DIAGNOSIS >

B1118 - B1120 SATELLITE SENSOR LH

Description

DTC B1118 - B1120 SATELLITE SENSOR LH

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

PART LOCATION

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

DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

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

Without CONSULT-III

<lh (satellite)="" air="" bag="" sensor="" side=""></lh>					
Flash pattern	Repair order				
a through f are repeated. f: Four flashes indicate malfunctioning LH side air bag (Satellite) sensor. 4 flashes ON OFF 7 sec. 2 sec. 7 0.5 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the LH side air bag (Satellite) sensor. Replace the air bag diagnosis sensor unit. Replace the related harness.				
0.5 sec.	WHIA0204E				

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-45</u>, "<u>Diagnosis Procedure (Component Diagnosis)</u>".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE

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

1. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

Revision: July 2009 SRC-44 2010 Xterra

B1118 - B1120 SATELLITE SENSOR LH

Revision: July 2009 SRC-45 2010 Xterra

B1118 - B1120 SATELLITE SENSOR LH



>> END

Revision: July 2009 SRC-46 2010 Xterra

B1113 – B1115 SATELLITE SENSOR RH

< COMPONENT DIAGNOSIS >

B1113 - B1115 SATELLITE SENSOR RH

Description INFOID:000000005267968

DTC B1113 - B1115 SATELLITE SENSOR RH

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

PART LOCATION

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

DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

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

Without CONSULT-III

Flash pattern	Repair order
a through f are repeated. Three flashes indicate malfunctioning RH side air bag (Satellite) sensor circuit. 3 flashes a b c d e f a b c d 7 sec. 2 sec. 2 sec. 2 sec. 3 flashes	 Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the RH side air bag (Satellite) sensor. Replace the air bag diagnosis sensor unit. Replace the related harness.

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-48</u>, "<u>Diagnosis Procedure (Component Diagnosis)</u>".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE:

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

1. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

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2010 Xterra

B1113 – B1115 SATELLITE SENSOR RH

< COMPONENT DIAGNOSIS >

$\overline{2}$. IGNITION SWITCH

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

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4. REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6. DIAGNOSTIC MODE

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

>> END

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000005267970

Recheck SRS after each replacement.

1. HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

YES >> Replace the harness.

NO >> GO TO 2

2. WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

YES >> Replace the harness.

NO >> GO TO 3

3.RH SIDE AIR BAG SATELLITE SENSOR

Replace the RH side air bag satellite sensor. Refer to SR-13, "Removal and Installation".

>> GO TO 4

4. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to <u>SR-15</u>, "Removal and Installation".

>> GO TO 5

5. RELATED HARNESS

Replace the related harness.

Revision: July 2009 SRC-48 2010 Xterra

B1113 - B1115 SATELLITE SENSOR RH

< COMPONENT DIAGNOSIS >

>> END

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B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

< COMPONENT DIAGNOSIS >

B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

Description INFOID:000000005267971

DTC B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

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

PART LOCATION

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

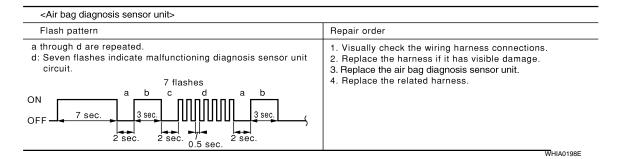
DTC Logic

DTC DETECTION LOGIC

With CONSULT-III

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

Without CONSULT-III



DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-51</u>, "<u>Diagnosis Procedure (Component Diagnosis)</u>".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE

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

1. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

Revision: July 2009 SRC-50 2010 Xterra

B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

< COMPONENT DIAGNOSIS >	
2.IGNITION SWITCH	Δ
After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.	\wedge
>> GO TO 3	В
3.WAIT TIME	D
Wait more than 3 seconds.	0
	C
>> GO TO 4 4.REPEAT STEPS	D
	D
Repeat steps 1 to 3 twice.	
_ >> GO TO 5	Е
5.IGNITION SWITCH	
Turn ignition switch ON.	F
>> GO TO 6	
6. DIAGNOSTIC MODE	G
SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15, "Trouble Diag-	
nosis without CONSULT-III".	SRC
>> END	
Diagnosis Procedure (Component Diagnosis)	I
Recheck SRS after each replacement.	
1. HARNESS CONNECTOR	J
Is there any visible damage to the connector?	
YES or NO	K
YES >> Replace the harness. NO >> GO TO 2	
2. WIRING HARNESS	L
Is there any visible damage to the harness?	
YES or NO YES >> Replace the harness.	\mathbb{N}
YES >> Replace the harness. NO >> GO TO 3	
3. AIR BAG DIAGNOSIS SENSOR UNIT	Ν
Replace the air bag diagnosis sensor unit. Refer to <u>SR-15</u> , "Removal and Installation".	
>> GO TO 4	0
4.RELATED HARNESS	
Replace the related harness.	Р
>> END	

Revision: July 2009 SRC-51 2010 Xterra

B1023 PASSENGER AIR BAG OFF INDICATOR

< COMPONENT DIAGNOSIS >

B1023 PASSENGER AIR BAG OFF INDICATOR

Description INFOID:000000005267974

DTC B1023 FRONT PASSENGER AIR BAG OFF INDICATOR

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

PART LOCATION

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

DTC Logic

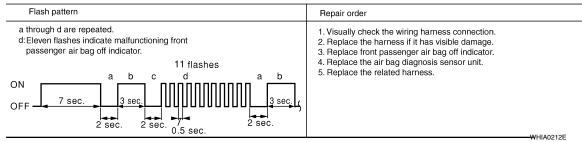
DTC DETECTION LOGIC

With CONSULT-III

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

Without CONSULT-III

<Front passenger air bag off indicator>



DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-53</u>, "<u>Diagnosis Procedure (Component Diagnosis)</u>".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE:

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

1. IGNITION SWITCH

Turn ignition switch ON.

Revision: July 2009 SRC-52 2010 Xterra

B1023 PASSENGER AIR BAG OFF INDICATOR

< COMPONENT DIAGNOSIS >	
>> GO TO 2	/
2.IGNITION SWITCH	
After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.	
>> GO TO 3	[
3.WAIT TIME	
Wait more than 3 seconds.	
Wait more than 5 seconds.	
>> GO TO 4	Γ
4.REPEAT STEPS	ı
Repeat steps 1 to 3 twice.	_
	[
>> GO TO 5	
5.IGNITION SWITCH	
Turn ignition switch ON.	
>> GO TO 6	(
6.DIAGNOSTIC MODE	Ì
	_ [
SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15 , "Trouble Diagnosis without CONSULT-III".	ag- SI
>> END	
Diagnosis Procedure (Component Diagnosis)	67976
Recheck SRS after each replacement.	
1. HARNESS CONNECTOR	,
1:11/1/1/1/200 001/1/20101/	
Is there any visible damage to the connector?	
Is there any visible damage to the connector? YES or NO	
YES or NO YES >> Replace the harness.	_
YES or NO YES >> Replace the harness. NO >> GO TO 2	
YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS	
YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness?	
YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness? YES or NO	_
YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness.	_
YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3	1
YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3 3.FRONT PASSENGER AIR BAG OFF INDICATOR	
YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3	
YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3 3.FRONT PASSENGER AIR BAG OFF INDICATOR	1
YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3 3.FRONT PASSENGER AIR BAG OFF INDICATOR Replace the front passenger air bag off indicator. Refer to IP-11. "Removal and Installation".	1
YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3 3.FRONT PASSENGER AIR BAG OFF INDICATOR Replace the front passenger air bag off indicator. Refer to IP-11, "Removal and Installation". >> GO TO 4	1
YES or NO YES >> Replace the harness. NO >> GO TO 2 2. WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3 3. FRONT PASSENGER AIR BAG OFF INDICATOR Replace the front passenger air bag off indicator. Refer to IP-11, "Removal and Installation". >> GO TO 4 4. AIR BAG DIAGNOSIS SENSOR UNIT Replace the air bag diagnosis sensor unit. Refer to SR-15, "Removal and Installation".	1
YES or NO YES >> Replace the harness. NO >> GO TO 2 2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3 3.FRONT PASSENGER AIR BAG OFF INDICATOR Replace the front passenger air bag off indicator. Refer to IP-11. "Removal and Installation". >> GO TO 4 4.AIR BAG DIAGNOSIS SENSOR UNIT Replace the air bag diagnosis sensor unit. Refer to SR-15, "Removal and Installation". >> GO TO 5	1
YES or NO YES >> Replace the harness. NO >> GO TO 2 2. WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3 3. FRONT PASSENGER AIR BAG OFF INDICATOR Replace the front passenger air bag off indicator. Refer to IP-11. "Removal and Installation". >> GO TO 4 4. AIR BAG DIAGNOSIS SENSOR UNIT Replace the air bag diagnosis sensor unit. Refer to SR-15. "Removal and Installation".	1

Revision: July 2009 SRC-53 2010 Xterra

B1023 PASSENGER AIR BAG OFF INDICATOR



>> END

Revision: July 2009 SRC-54 2010 Xterra

B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM

< COMPONENT DIAGNOSIS >

B1017 - B1022 OCCUPANT CLASSIFICATION SYSTEM

Description INFOID:000000005267977

DTC B1017 - B1022 OCCUPANT CLASSIFICATION SYSTEM (OCS)

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

PART LOCATION

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

DTC Logic INFOID:0000000005267978

DTC DETECTION LOGIC

With CONSULT-III

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

Without CONSULT-III

<Occupant classification system>

Flash pattern	Repair order
a through d are repeated. d: Five flashes indicate malfuntioning occupant classification system control unit. ON OFF 7 sec. 2 sec. 2 sec. 0.5 sec. 0.5 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the RH front seat cushion occupant classification system control unit assembly. Replace the air bag diagnosis sensor unit.
	WHIA0211E

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

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B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM

< COMPONENT DIAGNOSIS >

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT-III.

Is the DTC detected?

YES >> Refer to <u>SRC-56</u>, "<u>Diagnosis Procedure (Component Diagnosis)</u>".

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT-III)

NOTE:

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

1. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

2. IGNITION SWITCH

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

>> GO TO 3

3.WAIT TIME

Wait more than 3 seconds.

>> GO TO 4

4. REPEAT STEPS

Repeat steps 1 to 3 twice.

>> GO TO 5

5. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 6

6. DIAGNOSTIC MODE

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

>> END

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000005267979

Recheck SRS after each replacement.

1.DTC

Does CONSULT-III indicate B1019 or B1022?

YES or NO

YES >> GO TO 2

NO >> GO TO 6

2. HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

YES >> Replace the harness.

NO >> GO TO 3

Revision: July 2009 SRC-56 2010 Xterra

B1017 - B1022 OCCUPANT CLASSIFICATION SYSTEM

3. WIRING HARNESS	А
Is there any visible damage to the harness?	
YES or NO YES >> Replace the harness.	D
YES >> Replace the harness. NO >> GO TO 4	В
4 .dtc	
Does CONSULT-III indicate B1022?	C
YES or NO	
YES >> GO TO 6 NO >> GO TO 5	D
5.REPLACE RH FRONT SEAT BELT ASSEMBLY	
Replace the RH front seat belt assembly.	Е
>> GO TO 6	F
6.REPLACE RH FRONT SEAT CUSHION ASSEMBLY	<u> </u>
Replace the RH front seat cushion assembly. Refer to <u>SE-12</u> , "Removal and Installation".	
>> GO TO 7	G
7. AIR BAG DIAGNOSIS SENSOR UNIT	
Replace the air bag diagnosis sensor unit. Refer to <u>SR-15</u> , "Removal and Installation".	SRC
>> END.	I
>> END.	1
>> END.	J
>> END.	J
>> END.	J K
>> END.	
>> END.	К
>> END.	
>> END.	K
>> END.	К
>> END.	K
>> END.	K
>> END.	K L
>> END.	K L
>> END.	K L M

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B1209 – B1211 COLLISION DETECTION

< COMPONENT DIAGNOSIS >

B1209 - B1211 COLLISION DETECTION

Description INFOID:000000005267980

DTC B1209 - B1211 COLLISION DETECTION

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

PART LOCATION

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

DTC Logic INFOID:0000000005267981

DTC DETECTION LOGIC

With CONSULT-III

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

DTC CONFIRMATION PROCEDURE (With CONSULT-III)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.check self-diag result

Check for the DTC on CONSULT-III.

Is the DTC detected?

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

NO >> Inspection End.

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000005267982

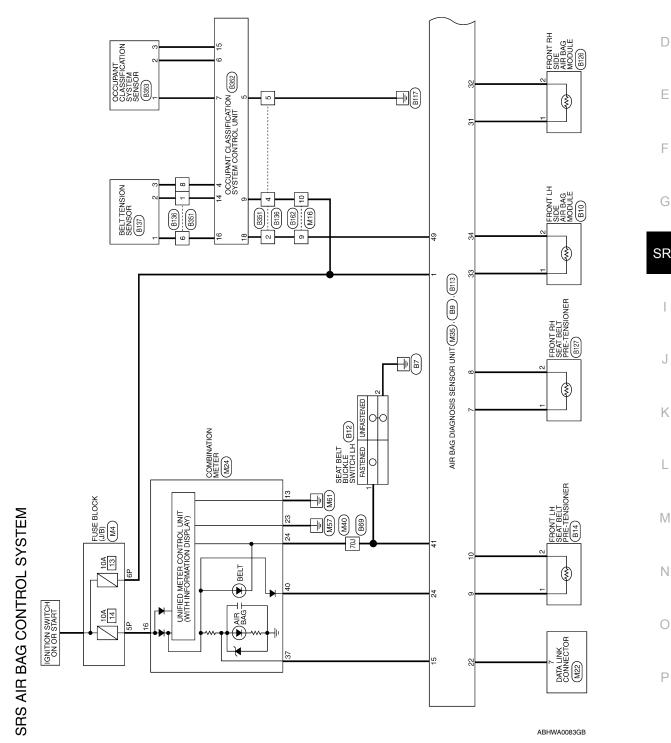
Refer to SR-18, "For Frontal Collision" or SR-19, "For Side and Rollover Collision".

SRC-58 2010 Xterra Revision: July 2009

ECU DIAGNOSIS

DIAGNOSIS SENSOR UNIT

Wiring Diagram INFOID:0000000005267983 В



SRC-59 Revision: July 2009 2010 Xterra C

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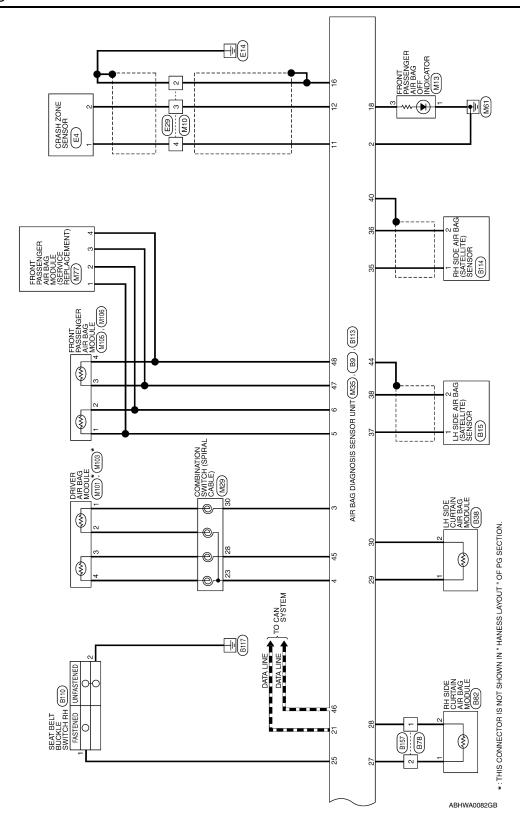
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Connector Name | FRONT PASSENGER AIR | BAG OFF INDICATOR

M13

Connector No.

BROWN

Connector Color

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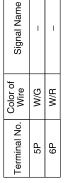
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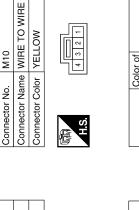
SRS AIR BAG CONTROL SYSTEM CONNECTORS

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









Signal Na	1	_	_
Color of Wire	SHIELD	В	M
Terminal No.	2	3	4

Signal Name

Color of Wire В 0

> Terminal No. -က

Signal Nam	1	1	1	
Color of Wire	SHIELD	В	Μ	
Terminal No.	2	8	4	

	_	I	
	В	Μ	
ı	8	4	

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

Connector Name | COMBINATION METER

Connector No.

Connector Color WHITE



Color of	
Terminal No	

of Signal Name	ı	
Color of Wire	≥	
Terminal No.	7	

Signal Name

Color of Wire

Terminal No.

W/R Y/B

6 6

Signal Name	GROUND	RUN START	POWER GND	BUCKLE (SEATBELT)	AIRBAG CONT	PASS SEATBELT
Color of Wire	GR	M/G	В	^	SB	LG
Terminal No.	13	16	23	24	37	40

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Connector No.	ġ.		₹					
Connector Name FUSE BLOCK (J/B)	lam	Ф	⊡	S	BLC	Š	[€	m
Sonnector Color WHITE	응	_	×	Ļ	ш			
4 14 15	7P	GP	7P 6P 5P 4P	₽		J 3P 2P 1P	2P	₽
	l	١		١	ĺ			



Sig			
Color of Wire	M/G	W/R	
Terminal No.	5P	9	

Connector Name | WIRE TO WIRE Connector Color WHITE M16 Connector No.



ABHIA0084GB

Signal Name	AIRBAG W/L	GND	CUT OFF TELL TALE	CAN-H	K LINE	SEATBELT REMINDER	DR2 (+)	CAN-L	AS2 (+)	AS2 (-)	ODS INPUT
Color of Wire	SB	SHIELD	0	_	SB	LG	Y/G	Ь	Y/B	>	Y/B
Terminal No.	15	16	18	21	22	24	45	46	47	48	49

M77 FRONT PASSENGER AIR BAG MODULE (SERVICE REPLACEMENT) YELLOW	Connector No. M77 Connector Name BAG MOI REPLACE Connector Color YELLOW
YELLOW	Connector Color
FRONT PASSENGER AIR BAG MODULE (SERVICE REPLACEMENT)	Connector Name
M77	Connector No.

	Connector Color YELLOW	21)	Signal Name	AS1+	AS1-	AS2+	AS2-
Color of Wire Y/R Y/B Y/B Y/B			Color of Wire	Y/R	Y/G	Y/B	Y
Connector Color Connector Color H.S. Color Terminal No. W 2 Y 2 Y 4 Y	Connector Co	赋 H.S.	Terminal No.	1	2	က	4

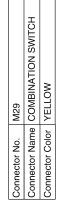
Connector No.	M35
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color YELLOW	YELLOW

18 18 2	Signal Name	IGN	מַנַּיַ
16 12 15	Color of Wire	M/R	
1	ninal No.	-	

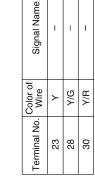
Signal Name	IGN	GND	DR1(+)	DR1/DR2 (-)	AS1(+)	AS1(-)	ECZS (+)	ECZS (-)
Color of Wire	M/R	В	Y/R	>	Y/R	J//G	>	В
Terminal No.	-	2	ဇ	4	5	9	=	12

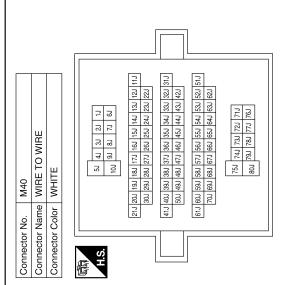
ECZS (-)	Signal Name
n	Color of Wire
72	Terminal No.

707









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					1		
		Connector Name FRONT PASSENGER	AIR BAG MODULE	MO:		Signal Name	ı
	. M105	me FROM	AIRE	lor YELL		Color of Wire	Y/R
	Connector No.	Connector Nai		Connector Color YELLOW	原 H.S.	Terminal No. Wire	-
		Connector Name DRIVER AIR BAG MODULE	IGE		-	Signal Name	1
	M103	ne DRIVE	or ORAN		4 3	Color of Wire	æ
	Connector No. M103	Connector Nar	Connector Color OBANGE		原 H.S.	Terminal No. Wire	3
		Connector Name DRIVER AIR BAG MODULE				Signal Name	ı
	M101	me DRIVE	or YELL		[Color of Wire	Y
	Connector No.	Connector Nar	Connector Color YELLOW		原 H.S.	Terminal No. Wire	-

Y/G

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	ı. E29	WIRE TO WIRE
	Connector No.	Connector Name WIRE TO WIRE
	E4	Connector Name CRASH ZONE SENSOR
	Connector No.	Connector Name
	M106	tor Name FRONT PASSENGER
	tor No.	tor Name

Connector Color YELLOW

	SH ZC	WC					
E4	e CRA	YELL			Color of Wire	×	В
Connector No.	Connector Name CRASH ZC	Connector Color YELLOW		H.S.	Terminal No.	1	2
	Connector Name FRONT PASSENGER	AIR BAG MODULE	1GE	Æ	Signal Name	I	1
. M106	me FROI	AIRE	lor ORA	<u> </u>	Color of Wire	Y/B	>
Connector No.	Connector Na		Connector Color ORANGE	斯斯 H.S.	Terminal No.	3	4
			_				

Signal Name	ı	1	ı	
Color of Wire	SHIELD	В	Μ	
Terminal No.	2	3	4	

Signal Name 1

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SRC-63 Revision: July 2009 2010 Xterra

Connector No.	o. B10	
Connector Name		FRONT LH SIDE AIR BAG MODULE
Connector Color YELLOW	olor YELL	-ow
H.S.	-	
Terminal No.	Color of Wire	Signal Name
-	Y/B	ı
2	>	1

Signal Name	C-LH1 (+)	C-LH1 (-)	S-LH1 (+)	S-LH1 (-)	SATELLITE LH (+)	SATELLITE LH (-)	LH BUCKLE SW INPUT	I	I	GND
Color of Wire	Y/G	\	Y/B	٨	BR	Ж	0	-	-	SHIELD
Terminal No.	59	30	33	34	37	38	41	42	43	44

Connector No.). B9	
Connector Name		AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color YELLOW	olor YELL	WO
頃 H.S.	33 41 29 42 44 37 38 9	37 38 9 49 10
Terminal No.	Color of Wire	Signal Name
6	λ	P-LH1 (+)
10	Y/B	P-LH1 (-)

Connector No.). B15	
Connector Name		LH SIDE AIR BAG (SATELLITE) SENSOR
Connector Color	olor YELLOW	MO-
刷 H.S.		
Terminal No.	Color of Wire	Signal Name

AGR (+)

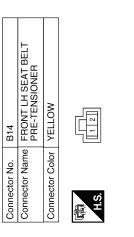
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Signal Name

Color of Wire

Terminal No.

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	SEAT BELT BUCKLE SWITCH LH	Щ		Signal Name	ı	1
B12		or WHITE	Q - 0 0	Color of Wire	0	В
Connector No.	Connector Name	Connector Color	原 H.S.	Terminal No.	-	2 B

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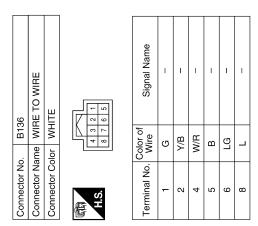
Signal Name		B110 SEAT BELT BUCKLE SWITCH RH WHITE or of Signal Name	
Color of Wire	>		
Terminal No.	707	Connector No. Connector Name Connector Color H.S. 1 1 2	
	O WIRE	11. 12. 31. 41. 52. 52.	9
No. B69	Connector Name WIRE TO WIRE Connector Color WHITE		
Connector No.	Connector Name Connector Color	Connector No. Connector Name Connector Color Terminal No. Co	
	o T		
	JRTAIN AIR BAG	Signal Name Signal Name	
B38	MODULE CL	Wire To v YELLOW Wire Swine Sw	
Connector No.	Connector Name LH SIDE CURTAIN AI MODULE	Connector Color Connector No. Connector Name Connector No. Connector Color Terminal No. H.S. Terminal No. Color Connector Color Connector Color Connector Color Connector Color Color Connector Color	
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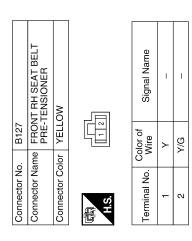
Revision: July 2009 SRC-65 2010 Xterra

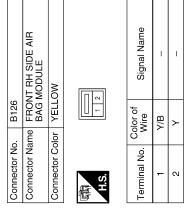
Connector No.). B114	
Connector Name		RH SIDE AIR BAG (SAT- ELLITE) SENSOR
Connector Color	olor YELLOW	OW
H.S.		
Terminal No.	Color of Wire	Signal Name
-	M	DGR (+)
2	В	DGR (-)

Signal Name	RH BUCKLE SW INPUT	ı	C-RH1 (+)	C-RH1 (-)	S-RH1 (+)	S-RH1 (-)	SATELLITE RH (+)	SATELLITE RH (-)	_	GND
Color of Wire	٦	-	>	Y/B	A/B	\	>	В	_	SHIELD
Terminal No.	25	26	27	28	31	32	35	36	39	40

Connector No.	o. B113	
Connector Name		AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color	olor YELLOW	.ow
H.S.	32 28 26 27 25 31 8 39 7 36 35 40	26 27 28 31 7 36 35 40
Terminal No.	Color of Wire	Signal Name
7	\	P-RH1 (+)
8	J//G	P-RH1 (-)







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< ECU DIAGNOSIS >

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	TO WIRE	ш	4 5 10 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Signal Name	ı	ı
B162	e WIRE	v WHIT	7 8 9 11 4	Color of Wire	Y/B	W/R
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	南 H.S.	Terminal No. Wire	6	10
	Connector Name WIRE TO WIRE	Connector Color YELLOW	M -1	Signal Name	ı	ı
Connector No. B157	WIR	YEL	2	Terminal No. Wire	Y/B	Ļ
١.	me	ō		O -		ĺ

Signal Name	I	I	-	-	_	_	_	-	_
Color of Wire	ı	,	I	ı	Э	0	ГG	ı	Y/B
Terminal No. Wire	10	-	12	13	14	15	16	17	18

Connector No.		B352	2
Connector Name	ame	859	OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT
Connector Color	olor	BLACK	CK
H.S.		9 8 1/1	7 6 5 14 3 12 11 10
Terminal No.	Color of Wire	r of	Signal Name
-	-		ı
2	-		1
က	ı		1
4			I
2	В		I
9	λ		-
7	SB	В	ı
8	1		ı
6	H/M	ñ	1

Connector No.). B137	37
Connector Name		BELT TENSION SENSOR
Connector Color		WHITE
H.S.		
Terminal No.	Color of Wire	Signal Name
-	LG	I
2	9	-
3	٦	ı

B351	Connector Name WIRE TO WIRE	WHITE	2 9 C C C C C C C C C C C C C C C C C C
Connector No.	Connector Name	Connector Color WHITE	高 H.S.

Signal Name	I	I	_	I	ĺ	-
Color of Wire	В	Y/B	W/R	В	LG	٦
Terminal No. Wire	1	2	7	9	9	8

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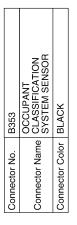
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Signal Name	1	I	1
Color of Wire	SB	Y	0
Terminal No.	1	2	3

Trouble Diagnosis with CONSULT-III

ABHIA0090GB

INFOID:0000000005267984

DIAGNOSTIC CODE CHART

NOTE:

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

SRC-68 Revision: July 2009 2010 Xterra

< ECU DIAGNOSIS >

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

Revision: July 2009 SRC-69 2010 Xterra

< ECU DIAGNOSIS >

CONSULT-III name	DTC	DTC detecting condition	Repair order
SIDE MODULE RH [OPEN]	B1129	Front RH side air bag module circuit is open.	 Visually check the wiring harness connection Replace the harness if it has visible damage
SIDE MODULE RH [VB-SHORT]	B1130	Front RH side air bag module circuit is shorted to a power supply circuit.	 Replace the front RH seat back assembly. Replace the air bag diagnosis sensor unit. Replace the related harness.
SIDE MODULE RH [GND-SHORT]	B1131	Front RH side air bag module circuit is shorted to ground.	·
SIDE MODULE RH [SHORT]	B1132	Front RH side air bag module circuits are shorted to each other.	
CURTAIN MODULE LH [OPEN]	B1150	LH side curtain air bag module circuit is open.	 Visually check the wiring harness connection Replace the harness if it has visible damage
CURTAIN MODULE LH [VB-SHORT]	B1151	LH side curtain air bag module circuit is shorted to a power supply circuit.	 Replace the LH side curtain air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness.
CURTAIN MODULE LH [GND-SHORT]	B1152	LH side curtain air bag module circuit is shorted to ground.	
CURTAIN MODULE LH [SHORT]	B1153	LH side curtain air bag module circuits are shorted to each other.	
CURTAIN MODULE RH [OPEN]	B1145	RH side curtain air bag module circuit is open.	 Visually check the wiring harness connection Replace the harness if it has visible damage
CURTAIN MODULE RH [VB-SHORT]	B1146	RH side curtain air bag module circuit is shorted to a power supply circuit.	 Replace the RH side curtain air bag module Replace the air bag diagnosis sensor unit. Replace the related harness.
CURTAIN MODULE RH [GND-SHORT]	B1147	RH side curtain air bag module circuit is shorted to ground.	o. Replace the related harrises.
CURTAIN MODULE RH [SHORT]	B1148	RH side curtain air bag module circuits are shorted to each other.	
PRE-TEN FRONT LH [OPEN]	B1086	LH seat belt pre-tensioner circuit is open.	 Visually check the wiring harness connection Replace the harness if it has visible damage
PRE-TEN FRONT LH [VB-SHORT]	B1087	LH seat belt pre-tensioner circuit is shorted to a power supply circuit.	 Replace the front LH seat belt pre-tensioner Replace the air bag diagnosis sensor unit. Replace the related harness.
PRE-TEN FRONT LH [GND-SHORT]	B1088	LH seat belt pre-tensioner circuit is shorted to ground.	o. Replace the related harrises.
PRE-TEN FRONT LH [SHORT]	B1089	LH seat belt pre-tensioner circuits are shorted to each other.	
PRE-TEN FRONT RH [OPEN]	B1081	RH seat belt pre-tensioner circuit is open.	 Visually check the wiring harness connection Replace the harness if it has visible damage
PRE-TEN FRONT RH [VB-SHORT]	B1082	RH seat belt pre-tensioner circuit is shorted to a power supply circuit.	 Replace the front RH seat belt pre-tensioner Replace the air bag diagnosis sensor unit. Replace the related harness.
PRE-TEN FRONT RH [GND-SHORT]	B1083	RH seat belt pre-tensioner circuit is shorted to ground.	o. Replace the related harrises.
PRE-TEN FRONT RH [SHORT]	B1084	RH seat belt pre-tensioner circuits are shorted to each other.	
CRASH ZONE SEN	B1033	Crash zone sensor has malfunctioned.	Visually check the wiring harness connection
[UNIT FAIL]	B1034		 Replace the harness if it has visible damage Replace the crash zone sensor.
CRASH ZONE SEN [COMM FAIL]	B1035	Crash zone sensor communication error.	 Replace the air bag diagnosis sensor unit. Replace the related harness.
SATELLITE SENS LH [UNIT FAIL]	B1118 B1119	LH side air bag satellite sensor has mal- functioned.	 Visually check the wiring harness connection Replace the harness if it has visible damage
SATELLITE SENS LH [COMM FAIL]	B1120	LH side air bag satellite sensor communication error.	 Replace the LH side air bag satellite sensor. Replace the air bag diagnosis sensor unit. Replace the related harness.
SATELLITE SENS RH	B1113	RH side air bag satellite sensor has mal-	Visually check the wiring harness connection
[UNIT FAIL]	B1114	functioned.	 Replace the harness if it has visible damage Replace the RH side air bag satellite sensor
SATELLITE SENS RH	B1115	RH side air bag satellite sensor communication error.	 Replace the KH side all bag satellite sensor Replace the air bag diagnosis sensor unit. Replace the related harness.

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< ECU DIAGNOSIS >

CONSULT-III name	DTC	DTC detecting condition	Repair order
CONTROL UNIT	B1XXX	Air bag diagnosis sensor unit is malfunctioning.	 Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the air bag diagnosis sensor unit. Replace the related harness.
PASS A/B INDCTR CKT	B1023	Front passenger air bag OFF indicator is malfunctioning.	 Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the front passenger air bag OFF indicator. Replace the air bag diagnosis sensor unit. Replace the related harness.
OCCUPANT SENS C/U	B1017	The OCS control unit is malfunctioning.	Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assem-
[UNIT FAIL]	B1020		bly.
	B1021		
OCCUPANT SENS [UNIT FAIL]	B1018	The OCS sensor is malfunctioning.	
BELT TENSION SENS [UNIT FAIL]	B1019	The belt tension sensor is malfunctioning.	 Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the RH front seat belt assembly. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly. Replace the related harness.
OCCUPANT SENS C/U [COMM FAIL]	B1022	Communication between the OCS control unit and the air bag diagnosis sensor unit is interrupted.	 Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly. Replace the air bag diagnosis sensor unit. Replace the related harness.
FRONTAL COLLISION DE- TECTION	B1209	Driver and/or front passenger air bag modules are deployed.	Refer to SR-18, "For Frontal Collision".
SIDE COLLISION DETECTION	B1210	Side and/or curtain air bag modules are deployed.	Refer to SR-19, "For Side and Rollover Collision".
ROLLOVER DETECTION	B1211	Curtain air bag module and seat belt pre-tensioner are deployed.	

Trouble Diagnosis without CONSULT-III

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WARNING LAMP FLASH CODE CHART

NOTE:

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

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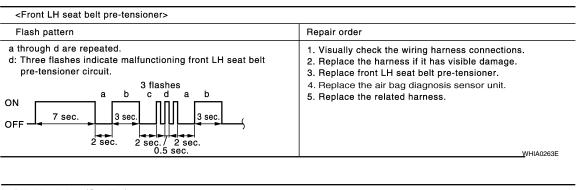
Dubinou alla kana mandrida	
<driver air="" bag="" module=""></driver>	
Flash pattern	Repair order
a through d are repeated. d: Two flashes indicate malfunctioning driver air bag module circuits. 2 flashes ON OFF 7 sec. 2 sec. 2 sec. 2 sec. 2 sec. 2 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the spiral cable. Replace driver air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness.

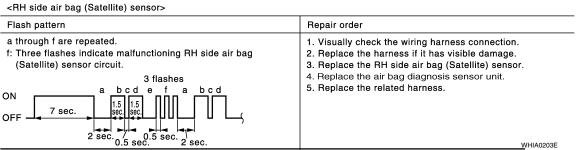
<air bag="" diagnosis="" sensor="" unit=""></air>	
Flash pattern	Repair order
a through d are repeated. d: Seven flashes indicate malfunctioning diagnosis sensor unit circuit. 7 flashes ON 7 sec. 2 sec. 2 sec. 2 sec. 0.5 sec.	Visually check the wiring harness connections. Replace the harness if it has visible damage. Replace the air bag diagnosis sensor unit. Replace the related harness.

<front air="" bag="" module="" passenger=""></front>	
Flash pattern	Repair order
a through d are repeated. d: Eight flashes indicate malfunctioning front passenger air bag module circuit. 8 flashes ON OFF 7 sec. 2 sec. 2 sec. 0.5 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace front passenger air bag module. Replace the air bag diagnosis sensor unit. Replace the related harness.

<crash sensor="" zone=""></crash>	
Flash pattern	Repair order
a through d are repeated. d: Six flashes indicate malfunctioning crash zone sensor circuit. ON OFF 7 sec. 2 sec. 2 sec. 2 sec. 2 sec. 2 sec. 2 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the crash zone sensor. Replace the air bag diagnosis sensor unit. Replace the related harness.
	WHIA0200E

<front belt="" pre-tensioner="" rh="" seat=""></front>	
Flash pattern	Repair order
a through d are repeated. d: One flash indicates malfunctioning front RH seat belt pre-tensioner circuit. ON OFF 7 sec. 3 sec. 2 sec. 0.5 sec. 2 sec.	Visually check the wiring harness connections. Replace the harness if it has visible damage. Replace front RH seat belt pre-tensioner. Replace the air bag diagnosis sensor unit. Replace the related harness.





<lh (satellite)="" air="" bag="" sensor="" side=""></lh>	
Flash pattern	Repair order
a through f are repeated. f: Four flashes indicate malfunctioning LH side air bag (Satellite) sensor.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the LH side air bag (Satellite) sensor.
ON	4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness. WHIA0204E

Flash pattern	Repair order
a through f are repeated. f: One flash indicate malfunctioning front RH side air bag module circuit. 1 flash ON 7 sec. 2 sec. 0.5 sec. 0.5 sec.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace front RH seat back assembly. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

Flash pattern	Repair order
a through f are repeated. f: Two flashes indicate malfunctioning front LH side air bag module circuit. 2 flashes 7 sec. 2 flashes 2 sec. 0.5 sec. 2 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace front LH seat back assembly. Replace the air bag diagnosis sensor unit. Replace the related harness.

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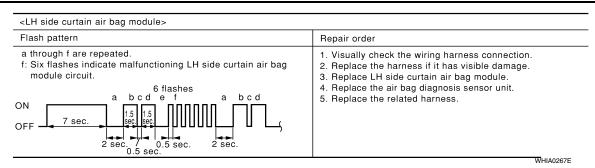
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< ECU DIAGNOSIS >



<rh air="" bag="" curtain="" module="" side=""></rh>	
Flash pattern	Repair order
a through f are repeated. f: Five flashes indicate malfunctioning RH side curtain air bag module circuit. 5 flashes ON OFF 7 sec. 2 sec. 0.5 sec. 2 sec.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace RH side curtain air bag module. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
	WHIA0266E

<Occupant classification system>

Flash pattern	Repair order
a through d are repeated. d: Five flashes indicate malfuntioning occupant classification system control unit. ON OFF 7 sec. 2 sec. 2 sec. 0.5 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the RH front seat cushion occupant classification system control unit assembly.
	WHIA0211E

<Front passenger air bag off indicator>

a through d are repeated. d: Eleven flashes indicate malfunctioning front passenger air bag off indicator. 11 flashes ON OFF 7 sec. 3 sec. 3 sec. 2 sec. 3 sec. 3 sec. 3 sec. 3 sec. 3 sec. 3 sec. 4. Nisually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace front passenger air bag off indicator. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.	Flash pattern	Repair order
	d: Eleven flashes indicate malfunctioning front passenger air bag off indicator. 11 flashes ON OFF 7 sec. 3 sec. 2 sec. 2 sec. 2 sec.	Replace the harness if it has visible damage. Replace front passenger air bag off indicator. Replace the air bag diagnosis sensor unit. Replace the related harness.

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SYMPTOM DIAGNOSIS SYMPTOM DIAGNOSIS	
	A
SRS AIR BAG SYSTEM	
"AIR BAG" Warning Lamp Does Not Turn Off	Е
DIAGNOSTIC PROCEDURE 7	
1. CHECK CONDITION OF AIR BAG MODULE	
Inspect for any deployed air bag modules or seat belt pre-tensioners.	
Are any air bag modules or seat belt pre-tensioners deployed?	
YES >> Refer to <u>SR-18, "For Frontal Collision"</u> or <u>SR-19, "For Side and Rollover Collision"</u> . NO >> GO TO 2	
2.CHECK THE AIR BAG FUSE	Е
Check 10A fuse [No. 13, located in the fuse block (J/B)].	
Is the fuse blown?	
YES >> GO TO 3 NO >> GO TO 4	F
3.CHECK AIR BAG FUSE AGAIN	
Replace 10A fuse [No. 13, located in the fuse block (J/B)] and turn ignition switch ON.	(
Does the fuse blow again?	
YES >> Replace harness.	SF
NO >> Inspection End. 4.CHECK AIR BAG DIAGNOSIS SENSOR UNIT	
Connect CONSULT-III.	ļ
Is "AIR BAG" displayed on CONSULT-III?	
YES >> GO TO 5	
NO >> Visually inspect the air bag diagnosis sensor unit harness connections. If the connections are OK, replace the air bag diagnosis sensor unit. Refer to <u>SR-15</u> , "Removal and Installation".	
5. CHECK HARNESS CONNECTION	I.
Check for loose connections between the combination meter and the air bag diagnosis sensor unit.	k
Are there any loose connections?	
YES >> Properly connect the combination meter and air bag diagnosis sensor unit harness connectors. If "AIR BAG" warning lamp still does not turn off, replace the wiring harness. NO >> Replace air bag diagnosis sensor unit.	L
"AIR BAG" Warning Lamp Does Not Turn On	N
DIAGNOSTIC PROCEDURE 8	N
1.CHECK METER FUSE	
Check the 10A fuse [No. 14, located in the fuse block (J/B)] .	
Is the fuse blown? YES >> GO TO 2	
NO >> GO TO 3	
2.REPLACE METER FUSE AND CHECK AGAIN	F
Replace 10A fuse [No. 14, located in the fuse block (J/B)] and turn ignition switch ON.	
Does the fuse blow again?	
YES >> Replace harness. NO >> Inspection End.	
3.CHECK HARNESS CONNECTIONS BETWEEN AIR BAG DIAGNOSIS SENSOR UNIT AND COMBINA-	

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SRS AIR BAG SYSTEM

< SYMPTOM DIAGNOSIS >

TION METER

Inspect the harness and connectors between the air bag diagnosis sensor unit and the combination meter. Do the harness or connectors have any visible damage?

>> Replace harness. YES

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?

- >> Replace the air bag diagnosis sensor unit. Refer to <u>SR-15, "Removal and Installation"</u>. >> Replace the combination meter. Refer to <u>MWI-91, "Removal and Installation"</u>.
- NO

PASSENGER SEAT BELT WARNING SYSTEM

< SYMPTOM DIAGNOSIS >	
PASSENGER SEAT BELT WARNING SYSTEM	-
Seat Belt Warning System Does Not Function	A 88
1.SEAT BELT WARNING LIGHT	
Turn ignition switch ON.	_ B
Does the seat belt warning lamp come ON?	
YES >> GO TO 2	С
NO >> • Check 10A fuse [No. 14, located in the fuse block (J/B)].	
 Check seat belt buckle switch LH. Check harness between combination meter and seat belt buckle switch LH. Check combination meter. Refer to <u>MWI-55</u>, "Fail Safe". 	D
2.SEAT BELT BUCKLE LH	
Fasten the seat belt buckle LH.	- E
Does the seat belt warning lamp go OFF?	
YES >> GO TO 3 NO >> • Check seat belt buckle switch LH.	F
Check harness between combination meter and seat belt buckle switch LH.	
3. OCCUPANT CLASSIFICATION SYSTEM	G
Have a helper sit in the passenger seat.	_
Does the seat belt warning lamp go ON?	O.F.
YES >> GO TO 4 NO >> • Check occupant classification system. Refer to SRC-10 , "Occupant Classification System.	SR
(<u>OCS)"</u> .	-
• Check harness between occupant classification control unit and air bag diagnosis sensor unit.	
4.SEAT BELT BUCKLE RH	_
Fasten the seat belt buckle RH.	J
Does the seat belt warning lamp go OFF? YES >> System OK.	
NO >> • Check seat belt buckle switch RH.	
Check harness between seat belt buckle switch RH and air bag diagnosis sensor unit. Perland air bag diagnosis sensor unit. Perfect to CR 45. "Removed and lectallation"."	K
 Replace air bag diagnosis sensor unit. Refer to <u>SR-15, "Removal and Installation"</u>. 	
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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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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 3 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 minutes.
 - For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pretensioner to deploy. Therefore, do not work on any SRS connectors or wires until at least 3 minutes have passed.
- The air bag diagnosis sensor unit must always be installed with the arrow mark "

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

Occupant Classification System Precaution

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