SRS AIRBAG CONTROL SYSTEM

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DIAGNOSIS AND REPAIR WORK FLOW

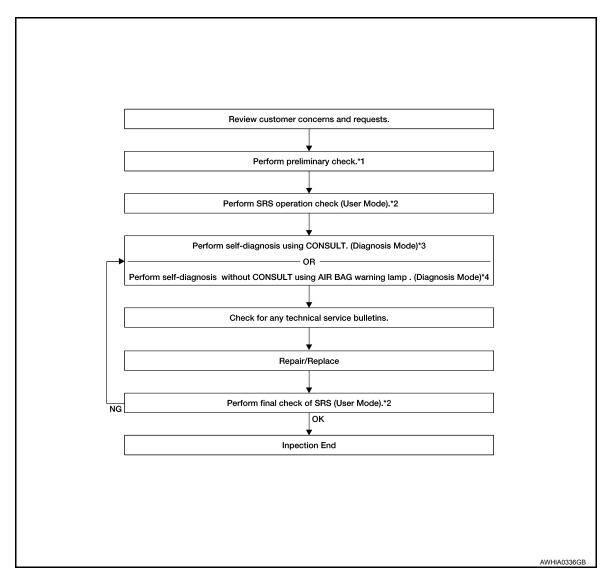
< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



^{*1} SRC-13, "Trouble Diagnosis Introduction"

14

DETAILED WORK FLOW

1.CUSTOMER INFORMATION

Get detailed information from the customer about the symptom.

>> GO TO 2

2. PRELIMINARY CHECK

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

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^{*2} SRC-13, "SRS Operation Check"

^{*3} SRC-15, "CONSULT Function (AIR BAG)"

^{*4} SRC-15, "Self-Diagnosis Function (Without CONSULT)"

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

>> GO TO 3

3.USER MODE

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

>> GO TO 4

4.SELF-DIAGNOSIS

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

>> GO TO 5

5. TECHNICAL SERVICE BULLETINS

Check for technical service bulletins.

>> 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 4

INTERMITTENTS INCIDENT

< BASIC INSPECTION >

INTERMITTENTS INCIDENT

Inspection Procedure

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INTERMITTENT TROUBLE

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

Trouble Diagnosis with CONSULT

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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)".

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

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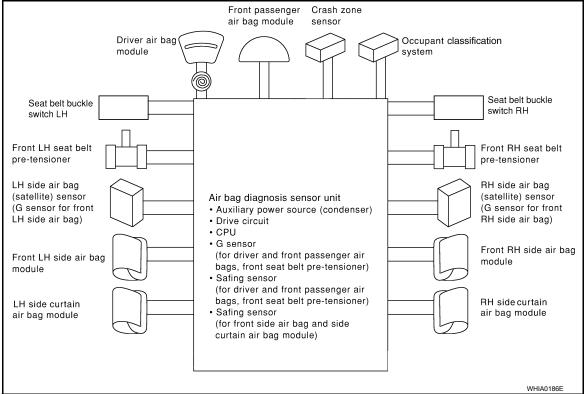
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SYSTEM DESCRIPTION

SRS AIR BAG SYSTEM

SRS Configuration

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

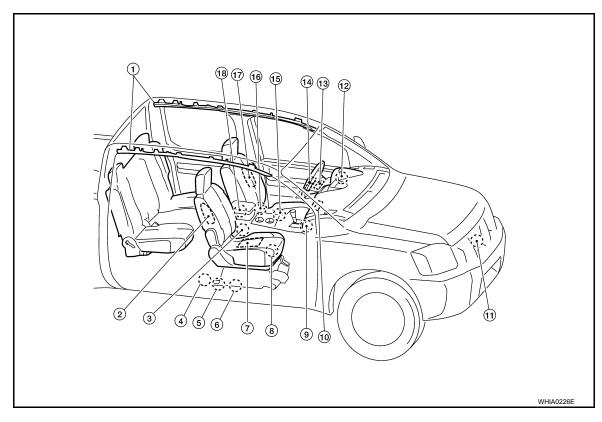
The collision modes for which supplemental restraint systems are activated are different among the SRS systems. For example, the driver air bag module, front passenger air bag module and front seat belt pre-tensioners are activated in a frontal collision but not in a side collision.

SRS configurations for some collision modes are as follows:

SRS configuration	Frontal collision	Left side collision	Right side collision	Rollover
Driver air bag module	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	_	х
RH side curtain air bag module	_	_	х	х

SRS Component Parts Location

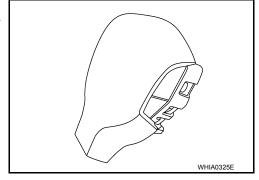
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- 1. Side curtain air bag modules
- 4. Front RH seat belt pre-tensioner
- Occupant classification system sen- 8. sor
- 10. Front passenger air bag module
- 13. Spiral cable
- 16. Front LH seat belt pre-tensioner
- 2. Front RH side air bag module
-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

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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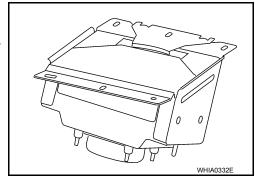
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Front Passenger Air Bag Module

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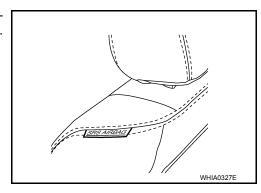
The front passenger air bag module is located behind the instrument panel assembly. It operates with the SRS system in a frontal collision exceeding a specified level. Refer to SRC-10, "Occupant Classification System (OCS)" for more information.



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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.



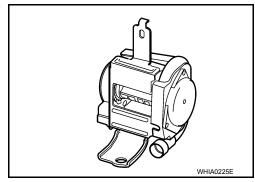
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Front Seat Belt Pre-tensioner with Load Limiter

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

< SYSTEM DESCRIPTION >

Direct-connect SRS Component Connectors

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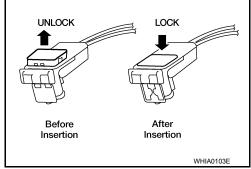
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The following SRS components use direct-connect style harness connectors.

- · 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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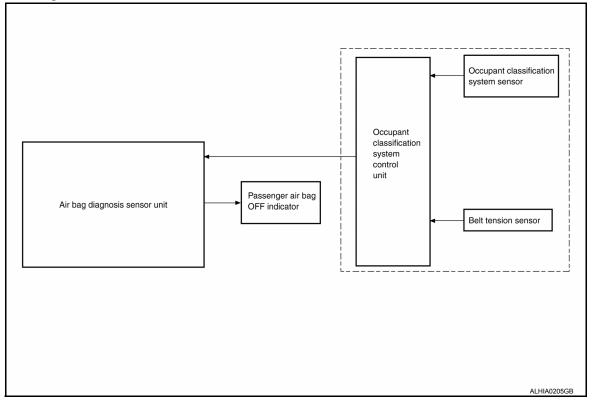
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OCCUPANT CLASSIFICATION SYSTEM

System Diagram

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Occupant Classification System (OCS)

INFOID:0000000007326926

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 can be used to confirm the passenger air bag status (readiness).

Passenger Air Bag Status Conditions

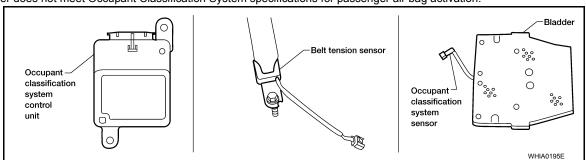
Front Passenger Seat (Condition)	PASS AIR BAG OFF Indicator (Status)	Passenger Air Bag Status (Readiness)	CONSULT Display
Seat occupied	OFF	Active (enabled)	ON
Seat occupied NOTE	ON	Deactivated (disabled)	OFF
Seat empty	OFF	Deactivated (disabled)	OFF

NOTE:

OCCUPANT CLASSIFICATION SYSTEM

< SYSTEM DESCRIPTION >

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



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PASSENGER SEAT BELT WARNING SYSTEM

< SYSTEM DESCRIPTION >

PASSENGER SEAT BELT WARNING SYSTEM

System Diagram

Seat belt buckle switch (driver seat)

Seat belt buckle switch (passenger seat)

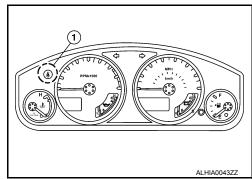
Seat belt buckle switch (passenger seat)

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
	Seat occupied		Buckled	Off
Seat occupied	Seat occupied	Buckled	Unbuckled	On
Seat occupied	Seat unoccupied			Off
	_	Unbuckled	_	On

Component Parts Location

INFOID:0000000007326929

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

< SYSTEM DESCRIPTION >

ON BOARD DIAGNOSTIC (OBD) SYSTEM

Trouble Diagnosis Introduction

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CAUTION:

- Do not use electrical test equipment on any circuit related to the SRS unless instructed to do so in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harness con-
- 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.

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

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

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

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

HOW TO PERFORM TROUBLE DIAGNOSES FOR QUICK AND ACCURATE REPAIR

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

Information From Customer

WHAT - Vehicle model

WHEN - Date, Frequencies

WHERE - Road conditions

HOW - Operating conditions, Symptoms

Preliminary Check

Check that the following parts are in good order.

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

SRS Operation Check

INFOID:0000000007326931

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.
- Compare the SRS air bag warning lamp blinking pattern with the examples.



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SRC-13 Revision: October 2015 2012 Frontier NAM

< SYSTEM DESCRIPTION >

SRS 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) or SRC-15, "Trouble Diagnosis without CONSULT".
	Air bag is deployed. Seat belt pre-tensioner is deployed.	Go to COLLISION DIAGNOSIS SR-4, "For Frontal Collision" or SR-6, "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-87, ""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-87, ""AIR BAG" Warning Lamp Does Not Turn On".

DIAGNOSTIC PROCEDURE 2

- 1. Connect CONSULT.
- 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 CON-SULT)".

< SYSTEM DESCRIPTION >

Trouble Diagnosis without CONSULT

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DIAGNOSTIC PROCEDURE 6

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

NOTE:

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

- 1. Turn ignition switch ON.
- 2. After "AIR BAG" warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.
- 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-62, "Trouble Diagnosis without CONSULT".

CONSULT Function (AIR BAG)

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CONSULT 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 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 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 screen.
ECU DISCRIMINATED NO.	Air bag diagnosis sensor unit ECU discriminated number (identification number) or part number is displayed. Air bag diagnosis sensor unit has individual ECU discriminated number (identification number) or part number based on model and equipment.
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)

INFOID:0000000007326934

- 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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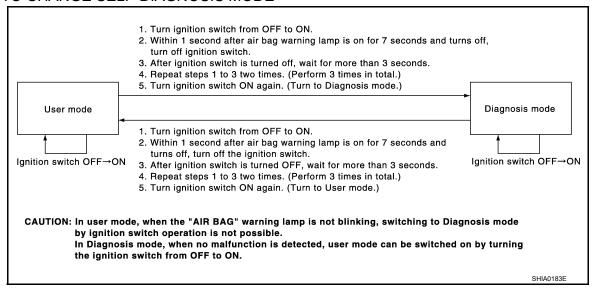
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Revision: October 2015 SRC-15 2012 Frontier NAM

< SYSTEM DESCRIPTION >

HOW TO CHANGE SELF-DIAGNOSIS MODE



DIAGNOSTIC PROCEDURE 3

Final Check of SRS Using CONSULT—Diagnosis Mode

- 1. Connect CONSULT.
- 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. Touch "SELF-DIAG [PAST]".
- Check that no malfunction is detected on "SELF-DIAG [PAST]".
- 6. Touch "BACK" key of CONSULT to return to User mode from Diagnosis mode.
- Turn ignition switch OFF and then turn off and disconnect CONSULT.
- 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)".
- NO >> Perform DIAGNOSTIC PROCEDURE 2. Refer to SRC-13, "SRS Operation Check".

B1049 - B1052, B1054 - B1057 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

B1049 - B1052, B1054 - B1057 DRIVER AIRBAG MODULE

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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

DTC DETECTION LOGIC

With CONSULT

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

Without CONSULT

a through d are repeated. d:Two flashes indicate malfunctioning driver air bag module circuits.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage.
2 flashes ON 7 sec. 3 sec. 2 sec. 2 sec. 2 sec.	3. Inspect the spiral cable circuit. 4. Replace the air bag diagnosis sensor unit. 5. Replace driver air bag module. 6. Replace the related harness.

DTC CONFIRMATION PROCEDURE (With CONSULT)

Revision: October 2015 SRC-17 2012 Frontier NAM

B1049 - B1052, B1054 - B1057 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

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

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

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</u>".

>> **END**

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000007326937

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

< DTC/CIRCUIT DIAGNOSIS >

2. WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

YES >> Replace the harness.

NO >> GO TO 3

3.CHECK SPIRAL CABLE CIRCUIT

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

Driver air	bag module	Spiral cable		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M101	1		30	
WITOT	2	M29	23	Yes
M402	3		28	res
M103	4		23	

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

Driver air	bag module		Continuity
Connector	Terminal		Continuity
M101	1	Ground	
IWITOT	2	Ground	No
M103	3		NO
WITOS	4		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace the spiral cable. Refer to <u>SR-13, "Removal and Installation"</u>.

4. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".

>> GO TO 5

5. DRIVER AIR BAG MODULE

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

>> GO TO 6

6.RELATED HARNESS

Replace the related harness.

>> END

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B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

Description INFOID:000000007326938

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

CONSULT name	DTC	DTC detecting condition		Repair order
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.
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.		
B10/2 '		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

Flash pattern	Repair order
a through d are repeated. d: Eight flashes indicate malfunctioning front passenger air bag module circuit. 8 flashes 7 sec. 3 sec. 2 sec. 0.5 sec. 2 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the air bag diagnosis sensor unit. Replace front passenger air bag module. Replace the related harness.

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Revision: October 2015 SRC-20 2012 Frontier NAM

B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >	
Is the DTC detected?	
YES >> Refer to <u>SRC-21</u> , " <u>Diagnosis Procedure (Component Diagnosis)</u> ".	Α
NO >> Inspection End.	
DTC CONFIRMATION PROCEDURE (Without CONSULT) NOTE:	В
SRS will not enter diagnosis mode if no malfunction is detected in user mode.	
1.ignition switch	0
Turn ignition switch ON.	С
>> 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	0
6. DIAGNOSTIC MODE	
SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-15, "Trouble Diagnosis without CONSULT"</u> .	K
>> END	L
Diagnosis Procedure (Component Diagnosis)	N
Recheck SRS after each replacement.	
1. HARNESS CONNECTOR	N
Is there any visible damage to the connector?	Ν
YES or NO	
YES >> Replace the harness. NO >> GO TO 2	С
2.WIRING HARNESS	
Is there any visible damage to the harness?	Р
YES or NO	
YES >> Replace the harness. NO >> GO TO 3	
3. AIR BAG DIAGNOSIS SENSOR UNIT	
D 1	

Revision: October 2015 SRC-21 2012 Frontier NAM

Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".

B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

>> GO TO 4

4.FRONT PASSENGER AIR BAG MODULE

Replace the front passenger air bag module. 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

< DTC/CIRCUIT DIAGNOSIS >

B1134 - B1137 SIDE AIRBAG MODULE LH

Description INFOID:0000000007326941

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:0000000007326942

DTC DETECTION LOGIC

With CONSULT

CONSULT 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 air bag diagnosis sensor unit. Replace the front LH side air bag module. Replace the related harness.
SIDE MODULE LH [GND-SHORT]	B1136	Front LH side air bag module circuit is shorted to ground.	or replace the results have
SIDE MODULE LH [SHORT]	B1137	Front LH side air bag module circuits are shorted to each other.	

Without CONSULT

	Repair order
a through f are repeated. Through f are repea	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the air bag diagnosis sensor unit. 4. Replace the front LH side air bag module. 5. Replace the related harness.

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

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

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

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

1. IGNITION SWITCH

SRC-23 Revision: October 2015 2012 Frontier NAM SRC

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B1134 - B1137 SIDE AIRBAG MODULE LH

< DTC/CIRCUIT 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</u>".

>> END

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000007326943

Recheck SRS after each replacement.

1. HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

YES >> Replace the harness.

NO >> GO TO 2

2. WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

YES >> Replace the harness.

NO >> GO TO 3

3.air bag diagnosis sensor unit

Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".

>> GO TO 4

4. FRONT LH SIDE AIR BAG MODULE

Replace the front LH side air bag module.

>> GO TO 5

5. RELATED HARNESS

B1134 - B1137 SIDE AIRBAG MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

Replace the related harness.

>> END

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B1129 - B1132 SIDE AIRBAG MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1129 - B1132 SIDE AIRBAG MODULE RH

Description INFOID:000000007326944

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

CONSULT 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 air bag diagnosis sensor unit. Replace the front RH side air bag module. 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

<pre><front air="" bag="" module="" rh="" side=""></front></pre>	
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. 7 0.5 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the air bag diagnosis sensor unit. Replace the front RH side air bag module. Replace the related harness.
0.5 sec.	AWHIA0305GB

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

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

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

NOTE

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

1. IGNITION SWITCH

B1129 - B1132 SIDE AIRBAG MODULE RH

B1129 – B1132 SIDE AIRBAG MODULE RH	
< DTC/CIRCUIT DIAGNOSIS >	
Turn ignition switch ON.	А
>> GO TO 2	Α
2.IGNITION SWITCH	
After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.	В
The all bag warning famp lighte for 7 december, turn ignition ewiter of 1 within 1 decemb.	
>> GO TO 3	С
3.WAIT TIME	
Wait more than 3 seconds.	D
00 T0 4	
>> GO TO 4 4.REPEAT STEPS	Е
Repeat steps 1 to 3 twice.	
>> GO TO 5	F
5.IGNITION SWITCH	
Turn ignition switch ON.	G
•	
>> GO TO 6	SRC
6.DIAGNOSTIC MODE	
SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-15, "Trouble Diagnosis without CONSULT"</u> .	
noole Military Control .	1
>> END	
Diagnosis Procedure (Component Diagnosis)	J
Recheck SRS after each replacement.	
1. HARNESS CONNECTOR	K
Is there any visible damage to the connector?	
YES or NO	L
YES >> Replace the harness. NO >> GO TO 2	
2.wiring harness	M
Is there any visible damage to the harness?	
YES or NO	NI
YES >> Replace the harness.	Ν
NO >> GO TO 3	
3. AIR BAG DIAGNOSIS SENSOR UNIT	0
Replace the air bag diagnosis sensor unit. Refer to <u>SR-23, "Removal and Installation"</u> .	
>> GO TO 4	Р
4.FRONT RH SIDE AIR BAG MODULE	
Replace the front RH side air bag module.	
>> GO TO 5	
5.RELATED HARNESS	

B1129 - B1132 SIDE AIRBAG MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

Replace the related harness.

>> END

B1150 - B1153 SIDE CURTAIN AIR BAG MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

B1150 – B1153 SIDE CURTAIN AIR BAG MODULE LH

Description INFOID:0000000007326947

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:0000000007326948

DTC DETECTION LOGIC

With CONSULT

CONSULT 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 air bag diagnosis sensor unit. Replace the LH side curtain air bag module. 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.	

Without CONSULT

a through f are repeated. f: Six flashes indicate malfunctioning LH side curtain air bag	Visually check the wiring harness connection. Replace the harness if it has visible damage.
module circuit. A b c d e f a b c d 7 sec. 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.	3. Replace the air bag diagnosis sensor unit. 4. Replace LH side curtain air bag module. 5. Replace the related harness.

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

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

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

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

1. IGNITION SWITCH

SRC-29 Revision: October 2015 2012 Frontier NAM SRC

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B1150 - B1153 SIDE CURTAIN AIR BAG MODULE LH

< DTC/CIRCUIT 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</u>".

>> END

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000007326949

Recheck SRS after each replacement.

1. HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

YES >> Replace the harness.

NO >> GO TO 2

2. WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

YES >> Replace the harness.

NO >> GO TO 3

3.air bag diagnosis sensor unit

Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".

>> GO TO 4

4.LH SIDE CURTAIN AIR BAG MODULE

Replace the LH side curtain air bag module. Refer to SR-18, "Removal and Installation".

>> GO TO 5

5. RELATED HARNESS

B1150 - B1153 SIDE CURTAIN AIR BAG MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

Replace the related harness.

>> END

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Revision: October 2015 SRC-31 2012 Frontier NAM

B1145 - B1148 SIDE CURTAIN AIR BAG MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1145 – B1148 SIDE CURTAIN AIR BAG MODULE RH

Description

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

CONSULT 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.	3. Replace the air bag diagnosis sensor unit.4. Replace the RH side curtain air bag module.5. 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

<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. 0.5 sec. 2 sec. 0.5 sec. 2 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the air bag diagnosis sensor unit. Replace RH side curtain air bag module. Replace the related harness.
	AWHIA0308GB

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

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

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

NOTE

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

Ignition switch

Revision: October 2015 SRC-32 2012 Frontier NAM

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 nosis without CONSULT"</u> .	C-15, "Trouble Diag-
>> END	
Diagnosis Procedure (Component Diagnosis)	INFOID:0000000007326952
Recheck SRS after each replacement.	
1. HARNESS CONNECTOR	
Is there any visible damage to the connector?	
YES or NO YES >> Replace the harness.	
NO >> GO TO 2	
2.WIRING HARNESS	
Is there any visible damage to the harness? YES or NO	
YES >> Replace the harness.	
NO >> GO TO 3	
3. AIR BAG DIAGNOSIS SENSOR UNIT	
Replace the air bag diagnosis sensor unit. Refer to <u>SR-23, "Removal and Installation"</u> .	
>> GO TO 4	
4.RH SIDE CURTAIN AIR BAG MODULE	
Replace the RH side curtain air bag module. Refer to <u>SR-18</u> , "Removal and Installation".	
>> GO TO 5 5.RELATED HARNESS	

Revision: October 2015 SRC-33 2012 Frontier NAM

B1145 - B1148 SIDE CURTAIN AIR BAG MODULE RH

< DTC/CIRCUIT DIAGNOS	iiS >	>
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Replace the related harness.

>> END

B1086 - B1089 SEAT BELT PRE-TENSIONER LH

< DTC/CIRCUIT DIAGNOSIS >

B1086 – B1089 SEAT BELT PRE-TENSIONER LH

Description INFOID:0000000007326953

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:0000000007326954

DTC DETECTION LOGIC

With CONSULT

CONSULT 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 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.	
PRE-TEN FRONT LH [SHORT]	B1089	LH seat belt pre-tensioner circuits are shorted to each other.	

Without CONSULT

	Repair order 1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace front LH seat belt pre-tensioner.	
a through d are repeated. d: Three flashes indicate malfunctioning front LH seat belt pre-tensioner circuit.		
ON 7 sec. 3 sec. 3 sec. 2 sec. 2 sec. 2 sec.	4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

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

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

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

1. IGNITION SWITCH

SRC-35 Revision: October 2015 2012 Frontier NAM

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B1086 - B1089 SEAT BELT PRE-TENSIONER LH

< DTC/CIRCUIT 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</u>".

>> END

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000007326955

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-22, "Removal and Installation".

>> GO TO 4

4. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".

>> GO TO 5

RELATED HARNESS

Revision: October 2015 SRC-36 2012 Frontier NAM

B1086 - B1089 SEAT BELT PRE-TENSIONER LH

< DTC/CIRCUIT DIAGNOSIS >

Replace the related harness.

>> END

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B1081 - B1084 SEAT BELT PRE-TENSIONER RH

< DTC/CIRCUIT 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

CONSULT name	DTC	DTC detecting condition		Repair order
PRE-TEN FRONT RH [OPEN]	B1081	RH seat belt pre-tensioner circuit is open.	1. 2.	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.	3. 4. 5.	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

<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. 2 sec. 2 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)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

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

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

NOTE

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

1. IGNITION SWITCH

B1081 - B1084 SEAT BELT PRE-TENSIONER RH

B1081 – B1084 SEAT BELT PRE-TENSIONER RH	
< DTC/CIRCUIT DIAGNOSIS >	
Turn ignition switch ON.	Α
>> GO TO 2	, ,
2.IGNITION SWITCH	
After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.	В
>> GO TO 3	С
3.WAIT TIME	
Wait more than 3 seconds.	D
>> GO TO 4	
4.REPEAT STEPS	Е
Repeat steps 1 to 3 twice.	_
Nepeat steps 1 to 5 twice.	
>> GO TO 5	F
5.IGNITION SWITCH	
Turn ignition switch ON.	G
>> GO TO 6	SRC
6.DIAGNOSTIC MODE	
SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-15, "Trouble Diagnosis without CONSULT"</u> .	ı
>> END	
Diagnosis Procedure (Component Diagnosis)	J
Recheck SRS after each replacement.	
1. HARNESS CONNECTOR	K
Is there any visible damage to the connector?	
YES or NO	L
YES >> Replace the harness. NO >> GO TO 2	
2. WIRING HARNESS	M
Is there any visible damage to the harness?	
YES or NO	Ν
YES >> Replace the harness.	IN
NO >> GO TO 3 3 .FRONT RH SEAT BELT PRE-TENSIONER	
	0
Replace the front RH seat belt pre-tensioner. Refer to <u>SR-22, "Removal and Installation"</u> .	
>> GO TO 4	Р
4. AIR BAG DIAGNOSIS SENSOR UNIT	
Replace the air bag diagnosis sensor unit. Refer to SR-23. "Removal and Installation".	
>> GO TO 5 5.RELATED HARNESS	
J RELATED HARNESS	

B1081 – B1084 SEAT BELT PRE-TENSIONER RH

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Replace the related harness.

>> END

B1033 - B1035 CRASH ZONE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B1033 - B1035 CRASH ZONE SENSOR

Description INFOID:0000000007326959

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".

D DTC Logic INFOID:0000000007326960

DTC DETECTION LOGIC

With CONSULT

CONSULT 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

Flash pattern	Repair order
a through d are repeated. d: Six flashes indicate malfunctioning crash zone sensor circuit. 6 flashes 7 sec. 3 sec. 2 sec. 0.5 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.

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

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

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

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

1. IGNITION SWITCH

Turn ignition switch ON.

>> GO TO 2

SRC-41 Revision: October 2015 2012 Frontier NAM **SRC**

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B1033 – B1035 CRASH ZONE SENSOR

< DTC/CIRCUIT 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 Diagnosis without CONSULT".

>> END

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000007326961

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-20, "Removal and Installation".

>> GO TO 4

4. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".

>> GO TO 5

5. RELATED HARNESS

Replace the related harness.

B1033 - B1035 CRASH ZONE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

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B1118 – B1120 SATELLITE SENSOR LH

< DTC/CIRCUIT 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

CONSULT 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

<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.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the LH side air bag (Satellite) sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
0.5 sec.	WHIA0204E

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

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

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

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

B1118 - B1120 SATELLITE SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >	_
2.IGNITION SWITCH	
After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.	P
>> GO TO 3	В
3.WAIT TIME	
Wait more than 3 seconds.	- C
>> GO TO 4	
4.REPEAT STEPS	
Repeat steps 1 to 3 twice.	-
>> GO TO 5	Е
5.IGNITION SWITCH	
Turn ignition switch ON.	F
>> GO TO 6	
6. DIAGNOSTIC MODE	(
SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15 , "Trouble Diagnosis without CONSULT".	SI
>> END	
Diagnosis Procedure (Component Diagnosis)	4
Recheck SRS after each replacement.	
1. HARNESS CONNECTOR	
Is there any visible damage to the connector?	-
YES or NO YES >> Replace the harness.	ŀ
NO >> GO TO 2	
2. WIRING HARNESS	L
Is there any visible damage to the harness?	•
YES or NO YES >> Replace the harness.	[\
NO >> GO TO 3	
3.LH SIDE AIR BAG SATELLITE SENSOR	1
Replace the LH side air bag satellite sensor. Refer to <u>SR-21, "Removal and Installation"</u> .	-
>> GO TO 4	
4. AIR BAG DIAGNOSIS SENSOR UNIT	
Replace the air bag diagnosis sensor unit. Refer to <u>SR-23</u> , "Removal and Installation".	F
>> GO TO 5	
5.RELATED HARNESS	
Replace the related harness.	-

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B1118 - B1120 SATELLITE SENSOR LH

>> END

B1113 - B1115 SATELLITE SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

B1113 - B1115 SATELLITE SENSOR RH

Description INFOID:0000000007326965

DTC B1113 - B1115 SATELLITE SENSOR RH

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

PART LOCATION

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

DTC Logic INFOID:0000000007326966

DTC DETECTION LOGIC

With CONSULT

CONSULT 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

Flash pattern	Repair order
a through f are repeated. f: 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. 7 sec. 7 sec.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH side air bag (Satellite) sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT

Is the DTC detected?

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

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

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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B1113 – B1115 SATELLITE SENSOR RH

< DTC/CIRCUIT 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 Diagnosis without CONSULT".

>> END

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000007326967

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-21, "Removal and Installation".

>> GO TO 4

4. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".

>> GO TO 5

5. RELATED HARNESS

Replace the related harness.

B1113 – B1115 SATELLITE SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

>> END

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B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

Description INFOID:000000007326968

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 <u>SRC-15</u>, "CONSULT Function (AIR BAG)".

PART LOCATION

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

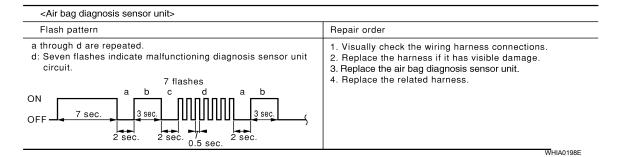
DTC Logic

DTC DETECTION LOGIC

With CONSULT

CONSULT 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.

Without CONSULT



DTC CONFIRMATION PROCEDURE (With CONSULT)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

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

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

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

B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >	
2.IGNITION SWITCH	٨
After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second.	A
>> GO TO 3	В
3.WAIT TIME	D
Wait more than 3 seconds.	С
>> CO TO 4	
>> GO TO 4 4.REPEAT STEPS	D
Repeat steps 1 to 3 twice.	
	Е
>> GO TO 5	_
5.IGNITION SWITCH Turn ignition switch ON.	F
Turn ignition switch Oiv.	
>> GO TO 6	G
6.DIAGNOSTIC MODE	G
SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15 , "Trouble Diagnosis without CONSULT".	SRC
	Orto
>> END	
Diagnosis Procedure (Component Diagnosis)	ı
Recheck SRS after each replacement.	ı
1.HARNESS CONNECTOR	J
Is there any visible damage to the connector? YES or NO	I/
YES >> Replace the harness.	K
NO >> GO TO 2 2.WIRING HARNESS	
Is there any visible damage to the harness?	L
YES or NO	D //
YES >> Replace the harness. NO >> GO TO 3	M
NO >> GO TO 3 3.AIR BAG DIAGNOSIS SENSOR UNIT	
Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".	N
>> GO TO 4	0
4.RELATED HARNESS Penlace the related barness	_
Replace the related harness.	Р
>> END	

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B1023 PASSENGER AIR BAG OFF INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

B1023 PASSENGER AIR BAG OFF INDICATOR

Description INFOID:000000007326971

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

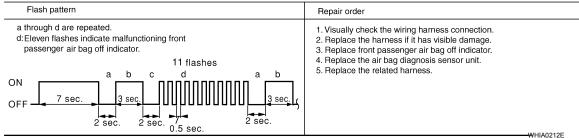
DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition		Repair order
PASS A/B INDCTR CKT	B1023	Front passenger air bag off indicator is malfunctioning.	1. 2. 3. 4. 5.	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

<Front passenger air bag off indicator>



DTC CONFIRMATION PROCEDURE (With CONSULT)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

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

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

NOTE:

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

1. IGNITION SWITCH

Turn ignition switch ON.

B1023 PASSENGER AIR BAG OFF INDICATOR

< DTC/CIRCUIT 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	E
3.WAIT TIME	
Wait more than 3 seconds.	- (
>> GO TO 4	
4.REPEAT STEPS	
Repeat steps 1 to 3 twice.	_
>> CO TO 5	E
>> GO TO 5 5.IGNITION SWITCH	
Turn ignition switch ON.	_ F
>> GO TO 6	
6.DIAGNOSTIC MODE	- 6
SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-15 , "Trouble Diagnosis without CONSULT".	L SF
>> END	
Diagnosis Procedure (Component Diagnosis)	73
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	L
	_
2.WIRING HARNESS	N.
2.WIRING HARNESS Is there any visible damage to the harness?	1\
2.WIRING HARNESS Is there any visible damage to the harness? YES or NO	1\
2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3	
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	
2.WIRING HARNESS Is there any visible damage to the harness? YES or NO YES >> Replace the harness. NO >> GO TO 3	_ N
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	_
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-15, "Removal and Installation".	_
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-15, "Removal and Installation". >> GO TO 4	_
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-15, "Removal and Installation". >> GO TO 4 4.AIR BAG DIAGNOSIS SENSOR UNIT	_
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-15, "Removal and Installation". >> GO TO 4 4.AIR BAG DIAGNOSIS SENSOR UNIT Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".	_
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-15. "Removal and Installation". >> GO TO 4 4.AIR BAG DIAGNOSIS SENSOR UNIT Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation". >> GO TO 5	

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B1023 PASSENGER AIR BAG OFF INDICATOR



>> END

B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

B1017 - B1022 OCCUPANT CLASSIFICATION SYSTEM

Description INFOID:0000000007326974

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:0000000007326975

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
	B1017	The OCS control unit is malfunctioning.	Replace the RH front seat cushion assembly.
	B1021		Do not disassemble the seat cushion assembly.
OCCUPANT SENS C/U [UNIT FAIL]	B1020	The OCS control unit is malfunctioning.	Replace the harness if it has visible damage. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly. Replace the RH front seat belt assembly.
OCCUPANT SENS [UNIT FAIL]	B1018	The OCS sensor is malfunctioning.	Visually check the wiring harness connection to the OCS sensor. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly.
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.

Without CONSULT

<occupant classification="" system=""></occupant>

Flash pattern	Repair order
a through d are repeated. d: Five flashes indicate malfuntioning occupant classification system control unit. 5 flashes ON OFF 7 sec. 2 sec. 2 sec. 0.5 sec.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH front seat cushion occupant classification system control unit assembly. 4. Replace the air bag diagnosis sensor unit.

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B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2.CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

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

NO >> Inspection End.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

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-62, "Trouble Diagnosis without CONSULT"</u>.

>> END

Diagnosis Procedure (Component Diagnosis)

INFOID:0000000007326976

Recheck SRS after each corrective action.

1. CHECK CURRENT DTC

Does CONSULT indicate B1018, B1019, B1020 or B1022?

YES or NO

YES >> GO TO 2 NO >> GO TO 13

B1017 - B1022 OCCUPANT CLASSIFICATION SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

2. HARNESS CONNECTOR	
Is there any visible damage to the OCS sub-harness connector (DTC B1022) or to the belt tension	n sensor con-
nector (DTC B1019)? YES or NO	
YES >> Replace the harness.	
NO >> GO TO 3	
3. WIRING HARNESS	
Is there any visible damage to the body or seat sub harness?	
YES or NO YES >> Replace the harness.	
YES >> Replace the harness. NO >> GO TO 4	
4.CHECK CURRENT DTC	
Does CONSULT indicate B1022?	
YES or NO	
YES >> GO TO 5 NO >> GO TO 6	
5.ocs control unit harness connector	
Is the OCS control unit or body harness connector disconnected?	
YES or NO	
YES >> Connect the harness. Clear the DTC. NO >> GO TO 13	
6.CHECK CURRENT DTC	
Does CONSULT indicate B1018?	
YES or NO	
YES >> GO TO 7 NO >> GO TO 8	
7.ocs sensor harness connector	
Is the OCS sensor harness connector disconnected?	
YES or NO	
YES >> Connect the harness. Clear the DTC.	
NO >> GO TO 8	
8.CHECK CURRENT DTC	
Does CONSULT indicate B1020?	
YES or NO YES >> GO TO 9	
NO >> GO TO 10	
9.BELT TENSION SENSOR	
Inspect the belt tension sensor, belt tension sensor connector and harness.	
Are the inspection results normal?	
YES >> GO TO 10 NO >> GO TO 12	
10.check current dtc	
Does CONSULT indicate B1019?	
YES or NO	
YES >> GO TO 11	
NO >> GO TO 12 11 PELE TENDION DENION DE LA DIVERSO CONNECTOR	
11.BELT TENSION SENSOR HARNESS CONNECTOR	

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B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

Is the belt tension sensor harness connector disconnected?

YES or NO

YES >> Connect the harness. Clear the DTC.

NO >> GO TO 12

12. REPLACE RH FRONT SEAT BELT ASSEMBLY

Replace the RH front seat belt assembly.

>> GO TO 13

13. REPLACE RH FRONT SEAT CUSHION ASSEMBLY

Replace the RH front seat cushion assembly. Refer to SE-32, "Removal and Installation".

>> GO TO 14

14. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".

>> END.

B1209 – B1211 COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

B1209 - B1211 COLLISION DETECTION

Description

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

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
FRONTAL COLLISION DETECTION	B1209	Driver and/or front passenger air bag modules are deployed.	Refer to SR-4, "For Frontal Collision".
SIDE COLLISION DE- TECTION	B1210	Side and/or curtain air bag modules are deployed.	Refer to SR-6, "For Side and Rollover Collision".
ROLLOVER DETEC- TION	B1211	Curtain air bag module and seat belt pretensioner are deployed.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

YES >> Refer to <u>SRC-59</u>, "<u>Diagnosis Procedure (Component Diagnosis)</u>".

NO >> Inspection End.

Diagnosis Procedure (Component Diagnosis)

Refer to SR-4, "For Frontal Collision" or SR-6, "For Side and Rollover Collision".

INFOID:0000000007326979

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

DIAGNOSIS SENSOR UNIT

Trouble Diagnosis with CONSULT

INFOID:0000000007326980

DIAGNOSTIC CODE CHART

NOTE:

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

CONSULT name	DTC	DTC detecting condition		Repair order
DRIVER AIRBAG MODULE	B1049	Driver air bag module circuit (DR1) is open (including the spiral cable).	 Replace the harm Inspect the spiral 	Visually check the wiring harness connection. Replace the harness if it has visible damage. Inspect the spiral cable circuit.
[OPEN]	B1054	Driver air bag module circuit (DR2) is open (including the spiral cable).	4. 5. 6.	Replace the air bag diagnosis sensor unit. Replace the driver air bag module. 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).		
DRIVER AIRBAG MODULE [SHORT]	B1052	Driver air bag module circuits (DR1) are shorted to each other (including the spiral cable).		
	B1057	Driver air bag module circuits (DR2) are shorted to each other (including the spiral cable).		
ASSIST A/B MODULE [OPEN]	B1065	Front passenger air bag module circuit (AS1) is open.	1. 2.	Visually check the wiring harness connection. Replace the harness if it has visible damage.
	B1070	Front passenger air bag module circuit (AS2) is open.		Replace the air bag diagnosis sensor unit. Replace the front passenger air bag module. 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.		

< ECU DIAGNOSIS INFORMATION >

CONSULT 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 air bag diagnosis sensor unit. Replace the front LH side air bag module. Replace the related harness.
SIDE MODULE LH [GND-SHORT]	B1136	Front LH side air bag module circuit is shorted to ground.	
SIDE MODULE LH [SHORT]	B1137	Front LH side air bag module circuits are shorted to each other.	
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 air bag diagnosis sensor unit. Replace the front RH side air bag module. Replace the related harness.
SIDE MODULE RH [GND-SHORT]	B1131	Front RH side air bag module circuit is shorted to ground.	The state of the s
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 air bag diagnosis sensor unit. Replace the LH side curtain air bag module. Replace the related harness.
CURTAIN MODULE LH [GND-SHORT]	B1152	LH side curtain air bag module circuit is shorted to ground.	o. Nopiace the related framess.
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 air bag diagnosis sensor unit. Replace the RH side curtain air bag module. Replace the related harness.
CURTAIN MODULE RH [GND-SHORT]	B1147	RH side curtain air bag module circuit is shorted to ground.	3. Replace the related harness.
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.	5. Replace the related harness.
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.	5. Replace the related harness.
PRE-TEN FRONT RH [SHORT]	B1084	RH seat belt pre-tensioner circuits are shorted to each other.	
CRASH ZONE SEN [UNIT FAIL]	B1033 B1034	Crash zone sensor has malfunctioned.	 Visually check the wiring harness connection. Replace the harness if it has visible damage.
CRASH ZONE SEN	B1034	Crash zone sensor communication er-	3. Replace the crash zone sensor.4. Replace the air bag diagnosis sensor unit.

< ECU DIAGNOSIS INFORMATION >

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CONSULT name	DTC	DTC detecting condition	Repair order
SATELLITE SENS LH [UNIT FAIL] SATELLITE SENS LH [COMM FAIL]	B1118 B1119 B1120	LH side air bag satellite sensor has mal- functioned. LH side air bag satellite sensor commu- nication error.	 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.
SATELLITE SENS RH [UNIT FAIL]	B1113 B1114	RH side air bag satellite sensor has mal- functioned.	 Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the RH side air bag satellite sensor.
SATELLITE SENS RH [COMM FAIL]	B1115	RH side air bag satellite sensor communication error.	4. Replace the air bag diagnosis sensor unit.5. Replace the related harness.
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.
	B1017	The OCS control unit is malfunctioning.	Replace the RH front seat cushion assembly. Page 1 disconsibility the cost surpling assembly. The page 1 disconsibility asset surpling assembly. The page 1 disconsibility asset surpling assembly.
	B1021		Do not disassemble the seat cushion assembly.
OCCUPANT SENS C/U [UNIT FAIL]	B1020	The OCS control unit is malfunctioning.	 Replace the harness if it has visible damage. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly. Replace the RH front seat belt assembly.
OCCUPANT SENS [UNIT FAIL]	B1018	The OCS sensor is malfunctioning.	Visually check the wiring harness connection to the OCS sensor. Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly.
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.
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.
FRONTAL COLLISION DE- TECTION	B1209	Driver and/or front passenger air bag modules are deployed.	Refer to SR-4, "For Frontal Collision".
SIDE COLLISION DETECTION	B1210	Side and/or curtain air bag modules are deployed.	Refer to SR-6, "For Side and Rollover Collision".
ROLLOVER DETECTION	B1211	Curtain air bag module and seat belt pre-tensioner are deployed.	

Trouble Diagnosis without CONSULT

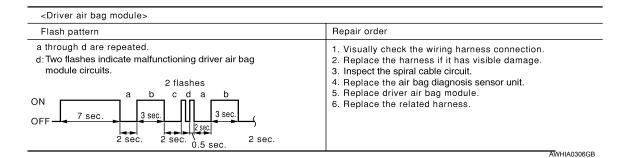
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WARNING LAMP FLASH CODE CHART **NOTE**:

< ECU DIAGNOSIS INFORMATION >

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.

cDiagnosis results (previously stored in the memory) might not be erased after repair or intermittent malfunctions have been detected in the past.>
Flash pattern
a through b are repeated.
IGN ON
ON
7 sec.
2 sec.
2 sec.
2 sec.
SHIA0028E



Flash pattern	Repair order
a through d are repeated. d: Seven flashes indicate malfunctioning diagnosis sensor unit circuit. 7 flashes 7 flashes 0	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.

Flash pattern	Repair order
a through d are repeated. d: Eight flashes indicate malfunctioning front passenger air bag module circuit. 8 flashes 7 sec. 3 sec. 2 sec. 0.5 sec. 2 sec.	Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the air bag diagnosis sensor unit. Replace front passenger air bag module. Replace the related harness.

<crash sensor="" zone=""> Flash pattern</crash>	Repair order
a through d are repeated. d: Six flashes indicate malfunctioning crash zone sensor circuit. ON OFF 7 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 crash zone sensor. Replace the air bag diagnosis sensor unit. Replace the related harness.

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< ECU DIAGNOSIS INFORMATION >

<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. 2 sec. 2 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.

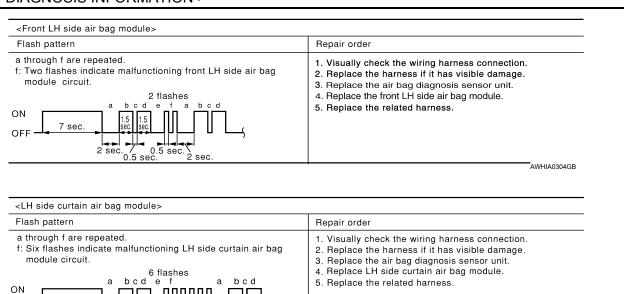
<front belt="" lh="" pre-tensioner="" seat=""></front>	
Flash pattern	Repair order
a through d are repeated. d: Three flashes indicate malfunctioning front LH seat belt pre-tensioner circuit. ON OFF 7 sec. 2 sec. 2 sec. 2 sec. 2 sec. 2 sec. 2 sec.	1. Visually check the wiring harness connections. 2. Replace the harness if it has visible damage. 3. Replace front LH seat belt pre-tensioner. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
0.5 sec.	WHIA0263E

<rh (satellite)="" air="" bag="" sensor="" side=""></rh>				
Flash pattern	Repair order			
a through f are repeated. f: Three flashes indicate malfunctioning RH side air bag (Satellite) sensor circuit. 3 flashes ON OFF 7 sec. 2 sec. 5 0.5 sec. 0.5 sec. 0.5	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the RH side air bag (Satellite) sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.			
0.5 sec. 2 sec.	<u>W</u> HIA0203E			

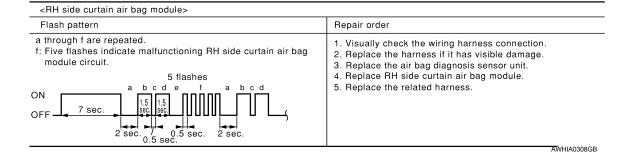
<lh (satellite)="" air="" bag="" sensor="" side=""></lh>	
Flash pattern	Repair order
a through f are repeated. f: Four flashes indicate malfunctioning LH side air bag (Satellite) sensor. 4 flashes ON OFF 7 sec. 2 sec. 7 0.5 sec.	1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace the LH side air bag (Satellite) sensor. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness.
0.5 sec.	WHIA0204E

<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. ON OFF 7 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 air bag diagnosis sensor unit. Replace the front RH side air bag module. Replace the related harness.

< ECU DIAGNOSIS INFORMATION >



AWHIA0309GB



<Occupant classification system>

7 sec

Flash pattern	Repair order
a through d are repeated. d: Five flashes indicate malfuntioning occupant classification system control unit. 5 flashes 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.
	WHIA0211E

<Front passenger air bag off indicator>

Flash pattern	Repair order
a through d are repeated. d: Eleven flashes indicate malfunctioning front passenger air bag off indicator. 11 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 off indicator. Replace the air bag diagnosis sensor unit. Replace the related harness.
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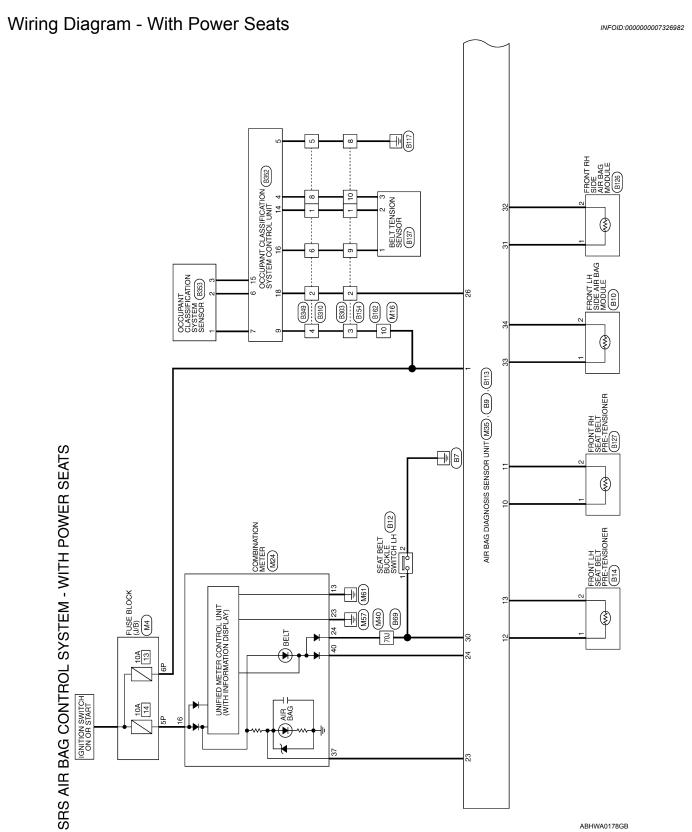
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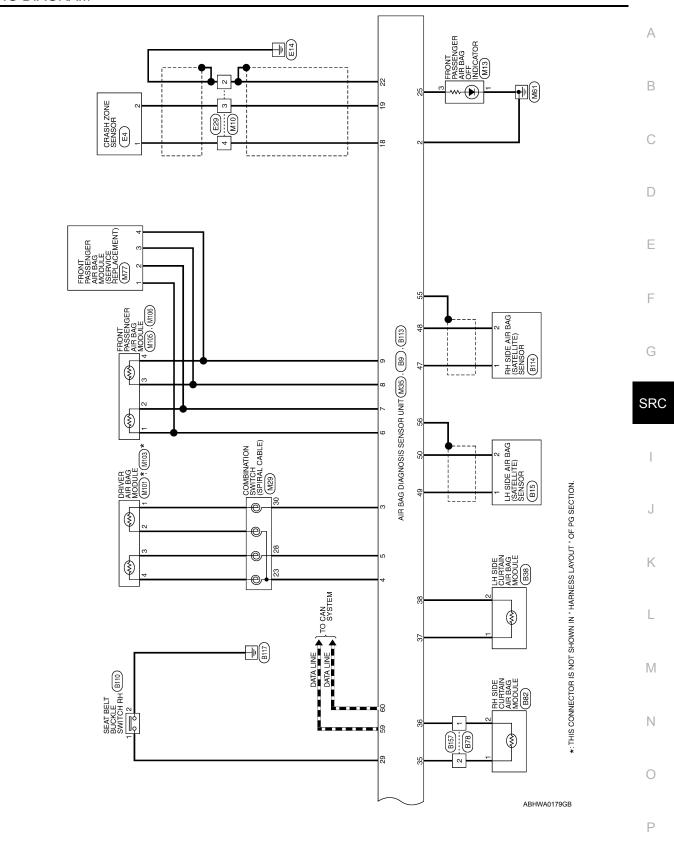
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WIRING DIAGRAM

SRS AIR BAG CONTROL SYSTEM



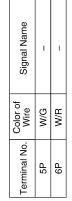


SRS AIR BAG CONTROL SYSTEM CONNECTORS - WITH POWER SEATS

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

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

Name FUSE BLOCK (J/B) Color WHITE The 6pt for 1 ft from 1 ft
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	FRONT PASSENGER AIR BAG OFF INDICATOR	NN	(F)	Signal Name	_	_
. M13		lor BROWN	3 2 2	Color of Wire	В	0
Connector No.	Connector Name	Connector Color	南 H.S.	Terminal No.	1	3

Signal Name	1	I	I	
Color of Wire	SHIELD	В	W	
Terminal No.	2	3	4	

Connector No.	M24	Connecto
 Connector Name	Connector Name COMBINATION METER	Connecto
Connector Color WHITE	WHITE	Connecto

Connector No. M24	Connector Name COMBINATION METER	Connector Color WHITE	赋 H.S.	
M16	Connector Name WIRE TO WIRE	WHITE	6 6 5 1 1 1 2 1 2 1 2 1 1 1 1 2 1 2 1 1 1 1	
Connector No. M16	nnector Name	Connector Color WHITE	H.S.	

Signal Name	_
Color of Wire	W/R
Terminal No.	10

	COMBINATION SWITCH	YELLOW		Signal Name	ı	I	ı
. M29			21 22 28 23 28 23 29	Color of Wire	>	Y/G	Y/R
Connector No.	Connector Name	Connector Color	画 H.S.	Terminal No.	23	28	30

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BUCKLE (SEATBELT) SW

24

POWER GND

RUN START GROUND

W/G GR

В

16 5

Signal Name

Color of Wire

Terminal No.

PASS SEATBELT AIRBAG CONT

SB

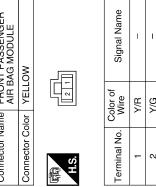
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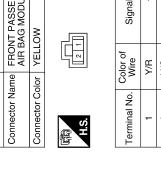
SENSOR LUNT	Connector No.	9	5 R BAG DIAGNO	SIS		Terminal No.	Color of Wire	Signal Name	ne					
S			NSOR UNIT)		9	Y/R	AS1 (+)						
S	Connect	_	TLOW			7	J//G	AS1 (-)						
1			,			8	A//B	AS2 (+)						
18				5		6	>	AS2 (-)						
19	H.S.	9 7	2 5			18	M	ECZS (+						
S S S S S S S S S S		19	24			19	В	ECZS (-						
1		18	29	-		22	SHIELD	GND						
1 W/FR Color of Signat Name 24 LG SEATBELT REMINDER 2 W/FR Color of Signat Name 25 C CAN4+ 3 V/FR DR1 (JPR (+) 4 V DR1 (JPR (+) 5 V/G DR2 (+) 5 V/G DR2 (+) 6 Walter TO WIPE Manual No. Color of WHTE 6 Walter TO WIPE Manual No. Color of WHTE Manual No. Color of Wipe Manual No. Co		-				23	SB	AIRBAG V	//F					
1 W/R	Termina	No. Wire		lame		24		SEATBELT REI	MINDER					
S		W/B				25	0	CUT OFF TEL	LTALE					
3 V/R DR1 (+) DR1 (+) 4 Y DR2 (+) 5 V/G DR2 (+) 5 V/G DR2 (+) 60 P CANL 60 P CANL 60 P CANL 70 V/R 70 V/R DR2 (+) 70 V/R DR2 (+) 70 V/R DR2 (+) 8 4 V DR2 (+) 10 10 10 10 10 10 10	2		JNB			69		CAN-H						
S	8		DR1 (T		09	Ь	CAN-L						
S Y/G DR2 (+)	4		DR1/DR	(-)										
Sample Mark M40 M77	5		DR2 (-										
Connector No. M40 M40 M40 M40 M40 M47 M40 M47 M40 M47 M40 M41 M40 M41														
Sample Wife TO Wife Front Passervice Part Passervice Part Passervice Part Passervice Pa	Connect		0			Toriminal Mo	\vdash		0	Connector				
State White State White State Stat	Connect		RE TO WIRE			i dillilla	_		D =		_	NT PASSENGER	H.	
S 4 3 21 11 11 12 12 12 12	Connect	tor Color WH	IITE			707	>	1		Connector		MODULE (SEKVI .ACEMENT)	<u>.</u>	
S	Ø				Гг					Connector	+	WO		
No. No.			;	[;										
Turning Turn	S. T.		90 80 72	2 3						E				
Signal Name		21, 20, 19,	18/17/16/15/14							H.S.	<u>, </u>			
1		307 297	28J 27J 26J 25J 24											
4 1 1 4 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3			100							Terminal N		Signal Name		
St. St.		50.1 49.1	48.1 47.1 46.1 45.1 44							-	Y/R	AS1+		
St St St St St St St St										2	J//G	AS1-		
SB		61) 60) 59)	58J 57J 56J 55J 54							m	λ/B	AS2+		
F G SR I J K L M N		769 m/	68J 67J 66J 65J 64							0 4) >	AS2-		
C D D E SR J K L M			75J 74J 73J 72J 80J 79J 78J 77J	71.7							- - -			
C D E F G SR L M N					7									
C D E SR I J K L M														
C D E F G SR I L M														
	0	N	M	L	K	J	I	SR	G	E F	D	С	В	Α

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Connector No.	M105
Sonnector Name	Connector Name FRONT PASSENGER AIR BAG MODULE
Connector Color YELLOW	YELLOW



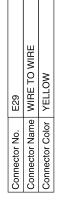


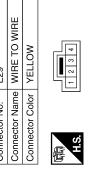


Connector No.		M103
Connector Name		DRIVER AIR BAG MODULE
Connector Color	_	ORANGE
H.S.		[
- I d I d d j d d d d d d d d	Color of	r of Sizza Nizza



	DRIVER AIR BAG MODULE	WO		Signal Name	ı	
M101		YELLOW		Color of Wire	>	-
Connector No.	Connector Name	Connector Color	vi.	Terminal No.	-	
Conn	Conn	Conn	H.S.	Term		





WIRE	YELL	2	Color of Wire	SHIELD	a
Connector Name	Connector Color	H.S.	Terminal No. W	2 SH	٤
NE SENSOR			ignal Name	1	



Connector No.



Signal Nar	1	1	
Color of Wire	W	В	
Terminal No.	-	2	

Signal Name

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Connector No.	M106
Connector Name	Connector Name FRONT PASSENGEF
Connector Color ORANGE	ORANGE





Signal Name	I	-	
Color of Wire	Y/B	У	
Terminal No.	3	4	

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SRS AIR BAG CONTROL SYSTEM

Connector No.		B10
Connector Name	ame	FRONT LH SIDE AIR BAG MODULE
Connector Color		YELLOW
是 H.S.		\[\frac{z}{-1} \]
Terminal No	Color	Color of Signal Name

							_	_
Signal Name	LH BUCKLE SW INPUT	S-LH1 (+)	S-LH1 (-)	C-LH1 (+)	C-LH1 (-)	SATELLITE LH (+)	SATELLITE LH (-)	GND
Color of Wire	0	>	A/B	>	Y/G	BR	\	SHIELD
Terminal No.	30	33	34	37	38	49	20	26

B9	AIR BAG DIAGNOSIS SENSOR UNIT	YELLOW	3 30 50 49 56
_	me		12 13
Connector No.	Connector Name	Connector Color	H.S.

33 34 38 37		50 49 56	Signal Name	P-LH1 (+)	P-LH1 (-)
	}	12 13 30 50	Color of Wire	>	Y/B
5			 Terminal No.	12	13

Signal Name	-	_	
Color of Wire	٨	A/B	
Terminal No.	1	2	

	LH SIDE AIR BAG (SATELLITE) SENSOR	MO		Signal Name	(+)	() dSV
B15		YELLOW		Color of Wire	BR	 >
o.	ame	olor		_		
Connector No.	Connector Name	Connector Color	画 H.S.	Terminal No.	1	c

	FRONT LH SEAT BELT PRE-TENSIONER (CREW CAB)	MO	Æ	Signal Name	I	1
B14	FRON PRE- CRE	YELLOW		Color of Wire	\	Y/B
	ıme	lor		ု၀ိ>		
Connector No.	Connector Name	Connector Color	H.S.	Terminal No.	1	2

	SEAT BELT BUCKLE SWITCH LH	ш	2 1	Signal Name	-	_
B12		or WHIT	4	Color of Wire	0	В
Connector No.	Connector Name	Connector Color WHITE	同 H.S.	Terminal No.	-	7
			<u> </u>			

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Connector No.	o. B38		Connector No. B69	Terimina	Color of	Signal Name	
Connector Name LH SIDE CURTAIN	ame LH SID	E CURTAIN AIR BAG	Connector Name WIRE TO WIRE		Wire	סוקושו ילמווס	
	MODU	LE .	Connector Color WHITE	707	>	ı	
Connector Co	Connector Color YELLOW	W					
F		JE	1.0 2.0 3.0 4.0 5.0				
H.S.		■	6. 7. 8. 9. 10.				
Torminal No	Color of	Omen leaving	11.1 12.1 13.1 14.1 15.1 16.1 17.1 18.1 19.1 20.0 21.0				
i ellilla i NO.		olgilar ivalile	22J 23J 24J 25J 26J 28J 28J 29J 30J				
-	>	ı	31J 32J 33J 34J 36J 37J 38J 39J 40J 41J				
2	J//G	ı	42J 43J 44J 45J 46J 47J 48J 49J 50J				
			51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61,				
			62J 63J 64J 65J 66J 67J 68J 69J 70J				
			L67 L97 L97 L97 L97 L97 L97 L97 L97 L97 L9				
			108 1007 1007 1007				

	SEAT BELT BUCKLE SWITCH RH	3.	2 1	Signal Name	_	1
B110		or WHITE	4	Color of Wire	_	α
Connector No.	Connector Name	Connector Color	刷 H.S.	Terminal No.	1	٥

			1		,	_
	RH SIDE CURTAIN AIR BAG MODULE	MO		Signal Name	ı	ı
. B82		lor YELL		Color of Wire	>	Y/B
Connector No.	Connector Name	Connector Color YELLOW	H.S.	Terminal No.	-	0

Connector No.	. B78	
Connector Name		WIRE TO WIRE
Connector Color	lor YELLOW	WO.
朝 H.S.	-	<u>[5]</u>
Terminal No.	Color of Wire	Signal Name
-	Y/B	ı
2	\	1

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< WIRING DIAGRAM >

onnector No.	B114
onnector Name	RH SIDE AIR BAG (SATELLITE) SENSOR
onnector Color	YELLOW

Signal Name	DGR (+)	DGR (-)
Color of Wire	Μ	В
No.		

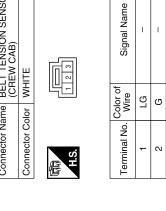


Signal Name	DGR (+)	DGR (-)	
Wire	Μ	В	
minal No.	1	2	



Signal Name	C-RH1 (+)	C-RH1 (-)	SATELLITE RH (+)	SATELLITE RH (-)	GND
Color of Wire	٨	Y/B	Μ	В	SHIELD
Terminal No. Wire	32	36	47	48	55

47 48 29 11 10	Signal Name	P-RH1 (+)	P-RH1 (-)	_	RH BUCKLE SW INPUT	S-RH1 (+)	S-RH1 (-)
35 36 55 55	Color of Wire	٨	Y/G	_	٦	Y/B	У
H.S.	Terminal No. Wire	10	11	56	29	31	32



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Connector No.	. B127	
Connector Name		FRONT RH SEAT BELT PRE-TENSIONER (CREW CAB)
Connector Color	lor YELLOW	OW
明 H.S.		
Terminal No.	Color of Wire	Signal Name
-	>	ı
6	N/G	-

	FRONT RH SIDE AIR BAG MODULE	MO:		Signal Name	-	I
. B126		lor YELLOW		Color of Wire	A/B	>
onnector No.	onnector Name	onnector Color	H.S.	erminal No.	1	2

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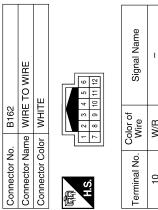
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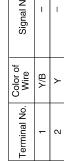
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	W/R
ellia No.	10

6	WIRE TO WIRE	<u>=</u>		6 7 8 8 7	Signal Name	I	ı	ı	1	-	I
. B349		lor WHITE	<u>ר</u>	- 6	Color of Wire	g	Y/B	W/R	В	LG	_
Connector No.	Connector Name	Connector Color		H.S.	Terminal No.	-	2	4	2	9	œ
				_							

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



signai Name	1	1	
Wire	Y/B	٨	
l erminai No.	-	2	

0	WIRE TO WIRE	里	2 S L Z Z S Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Signal Name	ı	ı	ı	ı	ı	ı
. B310		lor WHITE	4 80	Color of Wire	В/У	0	W/N	В	W/A	Y/B
Connector No.	Connector Name	Connector Color	ETA H.S.	Terminal No.	-	2	4	2	9	æ
			· <u></u>							

Connector No.	B154
Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color WHITE	WHITE

Terminal No. Wire Signal Name 1 G							_	
Color of Color of			-	-	-	_	I	_
mal No.		Color of Wire	g	Y/B	W/R	В	LG	٦
Termi	Ġ.	Terminal No.	1	2	3	80	6	10

33	WIRE TO WIRE	WHITE	3	Signal Name	1	I	I	-	_	1
. B303		_	1 2 3 8 9 10	Color of Wire	B∕	0	W//	В	W/A	Y/B
Connector No.	Connector Name	Connector Color	SH	Terminal No.	-	2	3	8	6	10

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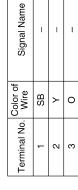
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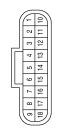
53	OCCUPANT CLASSIFICATION SYSTEM SENSOR	4CK
Connector No. B353	Connector Name CLASSIFICATION SYSTEM SENSOF	Connector Color BLACK







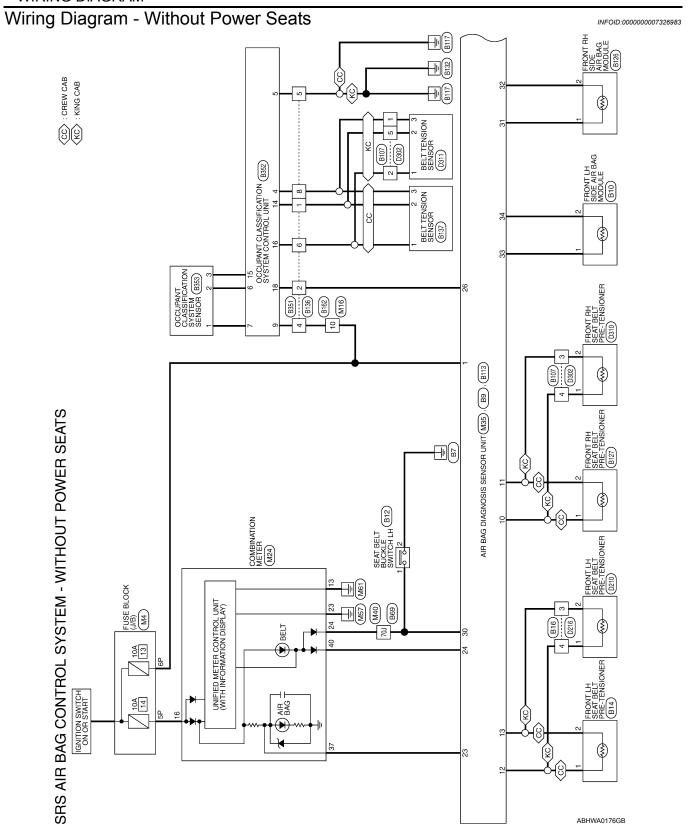
B352	Connector Name CLASSIFICATION SYSTEM CONTROL UNIT	BLACK	
Connector No.	Connector Name	Connector Color BLACK	

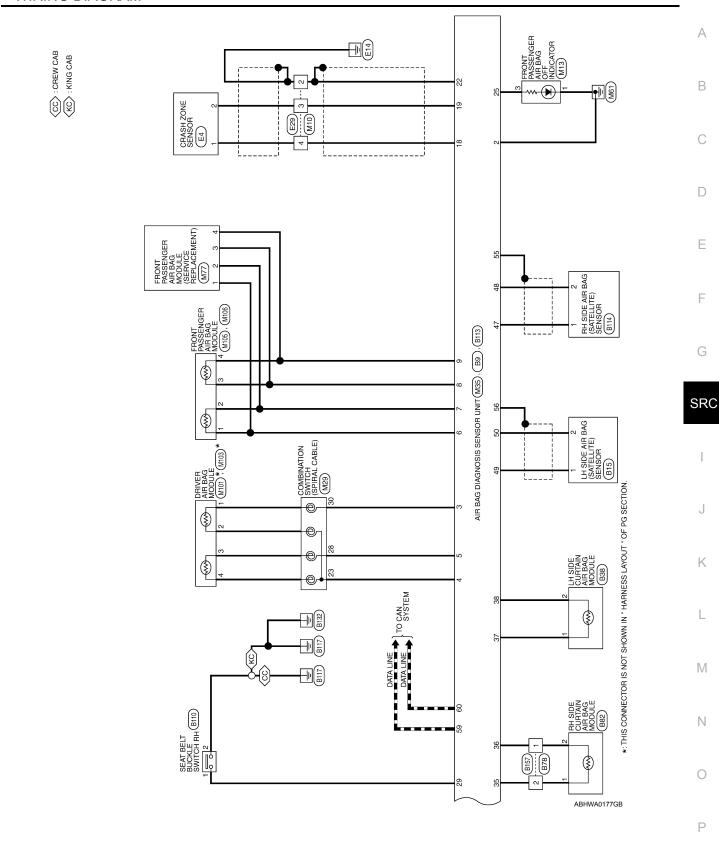




Signal Name	I	I	I	1	ı	I	1	I	1	ı	ı	ı	ı	1	-	_	ı	1	
Color of Wire	-	1	1	_	В	>	SB	-	W/R	1	1	_	1	В	0	L/G	1	Y/B	
Terminal No.	ļ	2	ဗ	4	5	9	2	8	6	10	11	12	13	14	15	16	17	18	

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Connector Name FRONT PASSENGER AIR BAG OFF INDICATOR

M13

Connector No.

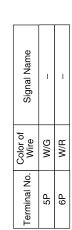
BROWN

Connector Color

SRS AIR BAG CONTROL SYSTEM CONNECTORS - WITHOUT POWER SEATS

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

Connector No. M10	Connector Name WIRE TO WIRE	Connector Color YELLOW	A S
No. M4	Name FUSE BLOCK (J/B)	Color WHITE	7P 6P 5P 4P () 3P 2P 1P 16P 15P 14P 13P 12P 11P



Signal Name	ı	-	
Color of Wire	В	0	
Terminal No.	-	3	

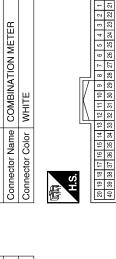
Signal Name	1	1	I	
Color of Wire	SHIELD	В	Μ	
Terminal No.	2	3	4	



Connector Name | WIRE TO WIRE Connector Color WHITE

M16

Connector No.



Signal Name	GROUND	RUN START	POWER GND	BUCKLE (SEATBELT) SW	AIRBAG CONT	PASS SEATBELT
Color of	GR	W/G	В	>	SB	ГС
Color of Wire	13	16	23	24	37	40

Signal Name

Color of Wire

Terminal No.

W/R

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	COMBINATION SWITCH	YELLOW	<u> </u>	Signal Name	ı	_
. M29	me CO		23 23 23 23 23 23 23 23 23 23 23 23 23 2	Color of Wire	\	Y/G
Connector No.	Connector Name	Connector Color	语 H.S.	Terminal No.	23	28

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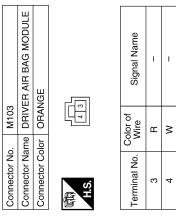
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																Connector No. M77		Connector Name BAG MODULE (SERVICE REPLACEMENT)	Connector Color YELLOW	-		H.S. (4 3 2 1)	المارين	Terminal No. Wire Signal Name	1 Y/R AS1+	2 Y/G AS1-	3 Y/B AS2+	4 Y AS2-		
Signal Name	AS1 (-)	AS2 (+)	AS2 (-)	ECZS (+)	ECZS (-)	GND	AIRBAG W/L	SEATBELT REMINDER	CUT OFF TELLTALE	CAN-L						N C	Olyman Ivaline	ı												
Color of	Y/G	Y/B	>	>	В	SHIELD	SB	LG	0 -	٦ ۵						Color of	Wire	>												
Terminal No.	7	ω	6	18	19	22	23	24	25	66							- מ - מ - מ - מ	707												
M35	Connector Name AH BAG DIAGNOSIS SENSOR UNIT	Connector Color YELLOW			H.S. 8 9 7 6 2 5 4 3	19 23 24 22	18 60 59 25 1		Terminal No. Color of Signal Name		3 Y/R DR1 (+)	4 Y DR1/DR2 (-)	5 Y/G DR2 (+)	6 Y/R AS1 (+)		Connector No. M40	Connector Name WIRE TO WIRE				5.5 4.9 3.0 1.1		300 259 259 270 250 259 259 251 251 251 251 251 251 251 251 251 251		500 499 480 473 460 453 449 433 423	100 100 100 100 100 100 100 100			75J 74J 75J 75J 77J 76J 80J 79J 78J 77J 76J	
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		l .								
1				WIRE TO WIRE	wo	3 4	Signal Name	-	ı	
1/d			E29		r YELLOW	1 2	Color of Wire	SHIELD	В	
	-		ġ.	lam	응			0)		
8			Connector No.	Connector Name	Connector Color	呵勒 H.S.	Terminal No.	2	3	
						_				



	_	_				
	CRASH ZONE SENSOR	MO		Signal Name	ı	_
. E4	l .	lor YELLOW		Color of Wire	8	В
Connector No.	Connector Name	Connector Color	所 H.S.	Terminal No.	-	2

Connector No.	o. M101	1
Connector Name		DRIVER AIR BAG MODULE
Connector Color	olor YELLOW	-ow
原.R.S.	4-	(E)
Terminal No.	Color of Wire	Signal Name
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c	_	ı

Connector No.	M106	
Connector Name		FRONT PASSENGER AIR BAG MODULE
Connector Color	or ORANGE	NGE
呵可 H.S.	4 4 1	-FI
Terminal No.	Color of Wire	Signal Name
က	Y/B	ı
4	>	ı

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< WIRING DIAGRAM >

Connector No.). B10	0
Connector Name		FRONT LH SIDE AIR BAG MODULE
Connector Color		YELLOW
H.S.		
Terminal No.	Color of Wire	Signal Name
-	Υ	ı
2	Y/B	ı

			_	_				
Signal Name	LH BUCKLE SW INPUT	S-LH1 (+)	S-LH1 (-)	C-LH1 (+)	C-LH1 (-)	SATELLITE LH (+)	SATELLITE LH (-)	GNĐ
Color of Wire	0	>	Y/B	>	Y/G	BR	Y	SHIELD
Terminal No.	30	33	34	37	38	49	20	99

ector No. B9	ector Name AIR BAG DIAGNOSIS SENSOR UNIT	ector Color YELLOW	33 34 38 37	nal No. Wire Signal Name	2 Y P-LH1 (+)	3 Y/B P-LH1 (-)
Connector No.	Connector Name	Connector Color	南南 H.S.	Terminal No.	12	13

Connector No.). B15	
Connector Name		LH SIDE AIR BAG (SATELLITE) SENSOR
Connector Color	olor YELLOW	OW
訊 H.S.		
Terminal No.	Color of Wire	Signal Name
-	BR	AGR (+)

	FRONT LH SEAT BELT PRE-TENSIONER (CREW CAB)	MO		Signal Name	ı	1
. B14		lor YELLOW		Color of Wire	>	Y/B
Connector No.	Connector Name	Connector Color	际 H.S.	Terminal No.	٦	2

	SEAT BELT BUCKLE SWITCH LH	Д	2 2 2 2 1	Signal Name	-	-
2 2		WHITE	4	Color of Wire	0	В
	Ĕ	흥		0		
Connector No.	Connector Name	Connector Color	原 H.S.	Terminal No.	-	2

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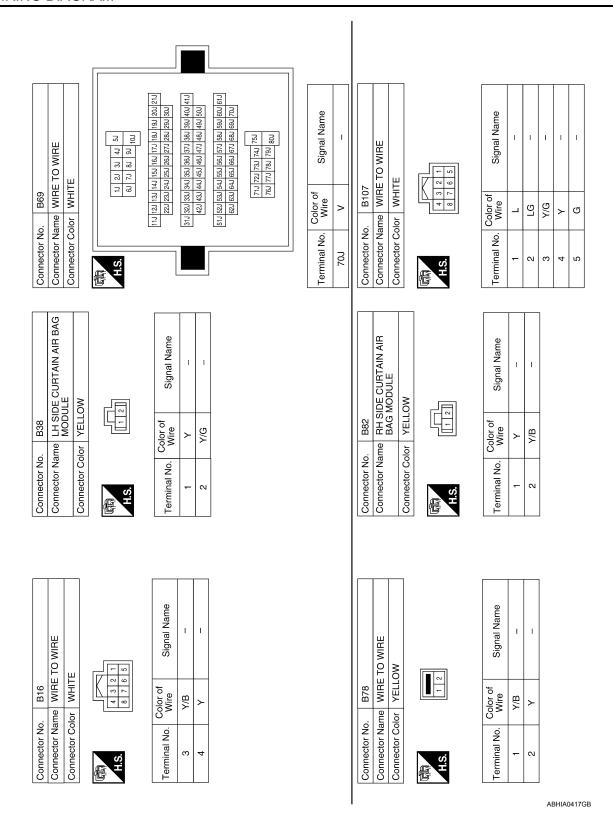
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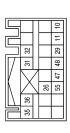


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< WIRING DIAGRAM >

Signal Name	I	RH BUCKLE SW INPUT	S-RH1 (+)	S-RH1 (-)	C-RH1 (+)	C-RH1 (-)	SATELLITE RH (+)	SATELLITE RH (-)	GND
Color of Wire	1	Г	Y/B	>	>	Y/B	Μ	В	SHIELD
Terminal No.	56	29	31	32	35	98	47	48	55

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



Signal Name

Terminal No.

P-RH1 (+) P-RH1 (-)

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Signal Name	1	I	
Color of Wire	٦	В	
Terminal No.	-	2	

Connector No.). B127	
Connector Name		FRONT RH SEAT BELT PRE-TENSIONER (CREW CAB)
Connector Color	olor YELLOW	OW
^原 可 H.S.		
Terminal No.	Color of Wire	Signal Name
-	>	I
	(/>	

B126	Connector Name FRONT RH SIDE AIR BAG MODULE	ır YELLOW	1 2
Connector No.	Connector Nan	Connector Color YELLOW	

YELL	Connector Color
BAG	
FROI	Connector Name
B126	Connector No.

B114 RH SIDE AIR BAG (SATELLITE) SENSOR YELLOW				ı
	B114	RH SIDE AIR BAG (SATELLITE) SENSOR	YELLOW	

Connector No.	B114
Connector Name	RH SIDE A (SATELLIT
Connector Color	YELLOW

<i>)</i>	Signal Nam	DGR (+)	DGR (-)
IJ	Color of Wire	W	В
S.	Terminal No.	-	7

Signal Name

Color of Wire

Terminal No.

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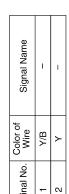
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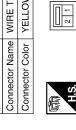
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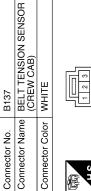
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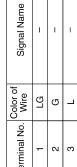
or No. B157	Connector Name WIRE TO WIRE	Sonnector Color YELLOW
Connector No	Connect	Connect











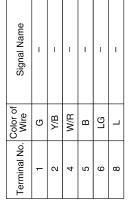


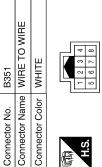
Connector Name | WIRE TO WIRE Connector Color WHITE

B136

Connector No.

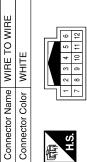
_	Color o Wire
Ä.S.	Terminal No.







Signal Name	I	İ	İ	Î	_	1
Color of Wire	В	Y/B	W/R	В	ГG	Γ
Terminal No.	1	2	4	5	9	8



B162

Connector No.





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< WIRING DIAGRAM >

Connector No.		B353	
Connector Name		OCCUPANT CLASSIFICATION SYSTEM SENSOR	
Connector Color		BLACK	
H.S.		(1)	
Terminal No.	Color of Wire	of Signal Name	
-	SB	ı	
2	λ	-	
8	0	1	

Signal Name	ı	_	_	ı	ı	-	ı	I	_	_
Color of Wire	W/R	ı	1	1	1	В	0	ГG	-	A//B
Terminal No. Wire	6	10	11	12	13	14	15	16	17	18

	OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT	×	5 4 3 2 1	Signal Name	1	1	1	-	1	1	1	ı
. B352		lor BLACK	9 8 7 6 15 16 15	Color of Wire	1	1	ı	Т	В	>	SB	-
Connector No.	Connector Name	Connector Color	斯S.H	Terminal No.	1	2	က	4	5	9	7	8

	WIRE TO WIRE	Ш	4 8	Signal Name	1	İ	ı	ı	ı
D302		v WHIITE	5 6 7	Color of Wire	_	ГG	Y/G	>	ď
Connector No.	Connector Name	Connector Color	6	Terminal No.	-	2	3	4	ιc
Conn	Conn	Conn	所 H.S.	Term					

Connector No.). D216	
Connector Name		WIRE TO WIRE
Connector Color	olor WHITE	<u></u>
原动 H.S.	1 2 9	1 8 L
Terminal No.	Color of Wire	Signal Name
ဇ	A/B	_
4	λ	1

	FRONT LH SEAT BELT PRE-TENSIONER (KING CAB)	/		Signal Name	ı	ı
D210		or YELLOW	2 1	Color of Wire	>	Y/B
Connector No.	Connector Name	Connector Color	南 H.S.	Terminal No.	-	2

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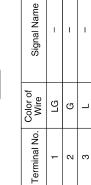
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D311	Connector Name BELT TENSION SENSOR (KING CAB)	BLACK
Connector No.	Connector Name	Connector Color BLACK

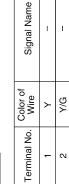






D310	FRONT RH SEAT BELT PRE-TENSIONER (KING CAB)	YELLOW	
Connector No.	Connector Name	Connector Color	





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SYMPTOM DIAGNOSIS SYMPTOM DIAGNOSIS
SRS AIR BAG SYSTEM
"AIR BAG" Warning Lamp Does Not Turn Off
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-4</u> , "For Frontal Collision" or <u>SR-6</u> , "For Side and Rollover Collision".
NO >> GO TO 2
2.CHECK THE AIR BAG FUSE
Check 10A fuse [No. 13, located in the fuse block (J/B)].
Is the fuse blown? YES >> GO TO 3
NO >> GO TO 4
3. CHECK AIR BAG FUSE AGAIN
Replace 10A fuse [No. 13, located in the fuse block (J/B)] and turn ignition switch ON.
Does the fuse blow again?
YES >> Replace harness. NO >> Inspection End.
4. CHECK AIR BAG DIAGNOSIS SENSOR UNIT
Connect CONSULT.
Is "AIR BAG" displayed on CONSULT?
YES >> GO TO 5 NO >> Visually inspect the air bag diagnosis sensor unit harness connections. If the connections are OK, replace the air bag diagnosis sensor unit. Refer to <u>SR-23</u> , "Removal and Installation".
5.CHECK HARNESS CONNECTION
Check for loose connections between the combination meter and the air bag diagnosis sensor unit.
Are there any loose connections?
 YES >> Properly connect the combination meter and air bag diagnosis sensor unit harness connectors. If "AIR BAG" warning lamp still does not turn off, replace the wiring harness. NO >> Replace air bag diagnosis sensor unit.
"AIR BAG" Warning Lamp Does Not Turn On
DIAGNOSTIC PROCEDURE 8
1.check meter fuse
Check the 10A fuse [No. 14, located in the fuse block (J/B)] .
Is the fuse blown?
YES >> GO TO 2 NO >> GO TO 3
2.REPLACE METER FUSE AND CHECK AGAIN
Replace 10A fuse [No. 14, located in the fuse block (J/B)] and turn ignition switch ON.
Does the fuse blow again?
YES >> Replace harness.
NO >> Inspection End. 3 CHECK HARNESS CONNECTIONS BETWEEN AIR BAC DIACNOSIS SENSOR LINET AND COMBINA
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?

YES >> Replace harness.

NO >> GO TO 4

4. CHECK COMBINATION METER

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

Does "AIR BAG" warning lamp turn on?

- YES >> Replace the air bag diagnosis sensor unit. Refer to <u>SR-23, "Removal and Installation"</u>.
- NO >> Replace the combination meter. Refer to MWI-89, "Removal and Installation".

PASSENGER SEAT BELT WARNING SYSTEM

< SYMPTOM DIAGNOSIS >

PASSENGER SEAT BELT WARNING SYSTEM Α Seat Belt Warning System Does Not Function INFOID:0000000007326986 1.SEAT BELT WARNING LIGHT В Turn ignition switch ON. Does the seat belt warning lamp come ON? YES >> GO TO 2 NO >> • Check 10A fuse [No. 14, located in the fuse block (J/B)]. · Check seat belt buckle switch LH. · Check harness between combination meter and seat belt buckle switch LH. D Check combination meter. Refer to MWI-38, "Fail Safe". 2. SEAT BELT BUCKLE LH Fasten the seat belt buckle LH. Does the seat belt warning lamp go OFF? YES >> GO TO 3 F NO >> • Check seat belt buckle switch LH. Check harness between combination meter and seat belt buckle switch LH. 3. OCCUPANT CLASSIFICATION SYSTEM Have a helper sit in the passenger seat. Does the seat belt warning lamp go ON? SRC YES >> GO TO 4 NO >> • Check occupant classification system. Refer to SRC-10, "Occupant Classification System Check harness between occupant classification control unit and air bag diagnosis sensor unit. 4.SEAT BELT BUCKLE RH Fasten the seat belt buckle RH. Does the seat belt warning lamp go OFF? YES >> System OK. NO >> • Check seat belt buckle switch RH. K · Check harness between seat belt buckle switch RH and air bag diagnosis sensor unit. Replace air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation". L N

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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 three minutes before performing any service.

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

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- Do not use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect both battery cables and wait at least 3 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.