Revision: December 2012

SRS AIRBAG CONTROL SYSTEM

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DIAGNOSIS AND REPAIR WORK FLOW

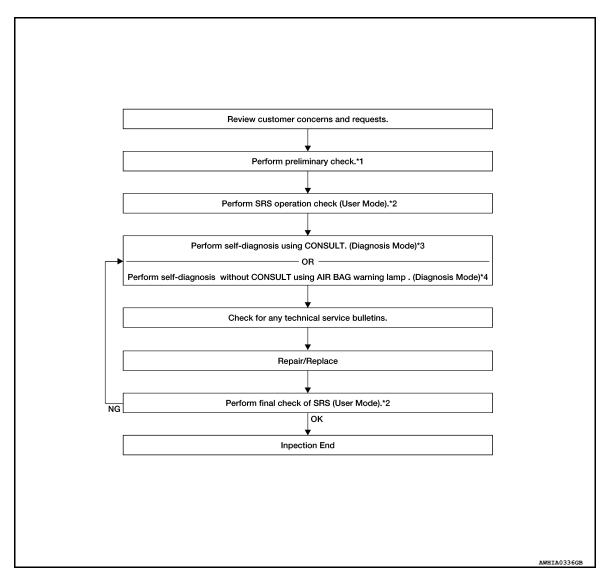
< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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

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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 Check"</u>.

>> GO TO 4

4.SELF-DIAGNOSIS

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

>> 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

INTERMITTENT INCIDENT

< BASIC INSPECTION >

INTERMITTENT INCIDENT

Inspection Procedure

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INTERMITTENT TROUBLE

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

Check repair history of the SRS.

Have any previous repairs been made to the SRS?

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

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

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SYSTEM DESCRIPTION

SRS AIR BAG SYSTEM

SRS Configuration

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

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

curtain air bag module)

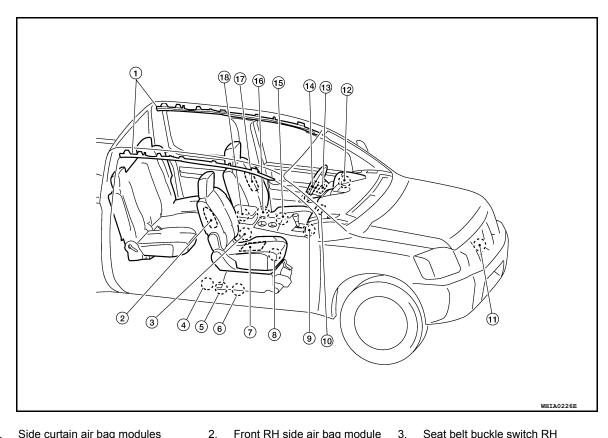
The collision modes for which supplemental restraint systems are activated are different among the SRS systems. For example, the driver air bag module, front passenger air bag module and front seat belt pre-tensioners are activated in a frontal collision but not in a side collision.

SRS configurations for some collision modes are as follows:

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

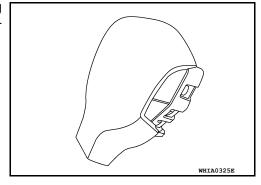
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- Side curtain air bag modules
- 4. Front RH seat belt pre-tensioner
- Occupant classification system sen- 8. 7.
- 10. Front passenger air bag module
- 13. Spiral cable
- 16. Front LH seat belt pre-tensioner
- 2. Front RH side air bag module
- 5. Belt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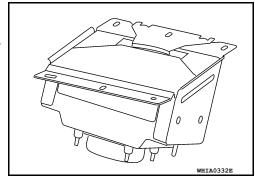
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Front Passenger Air Bag Module

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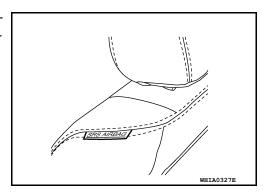
The front passenger air bag module is located behind the instrument panel assembly. It operates with the SRS system in a frontal collision exceeding a specified level. Refer to SRC-10, "Occupant Classification System (OCS)" for more information.



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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.



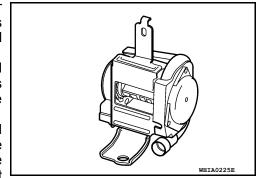
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Front Seat Belt Pre-tensioner with Load Limiter

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.



SRS AIR BAG SYSTEM

< SYSTEM DESCRIPTION >

Direct-connect SRS Component Connectors

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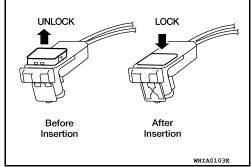
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The following SRS components use direct-connect style harness connectors.

- · 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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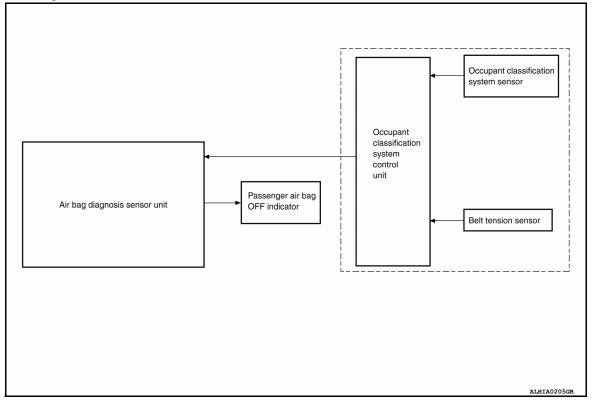
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OCCUPANT CLASSIFICATION SYSTEM

System Diagram

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Occupant Classification System (OCS)

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

NOTE:

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

Passenger Air Bag Status Conditions

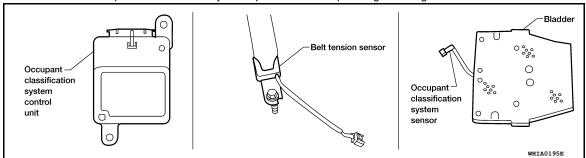
| Front Passenger Seat (Condition) | PASS AIR BAG OFF Indicator (Status) | Passenger Air Bag Status (Readiness) | CONSULT Display |
|----------------------------------|-------------------------------------|---|-----------------|
| Seat occupied | OFF | Active (enabled) | ON |
| Seat occupied NOTE | ON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

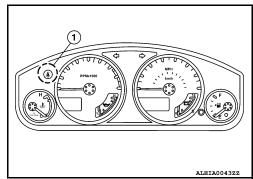
Seat belt buckle switch (passenger seat)

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 unoccupied | | | Off |
| | _ | Unbuckled | _ | On |

Component Parts Location

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

< SYSTEM DESCRIPTION >

ON BOARD DIAGNOSTIC (OBD) SYSTEM

Trouble Diagnosis Introduction

CAUTION:

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

DIAGNOSIS FUNCTION

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

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

DIAGNOSTIC PROCEDURE 1

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

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



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< 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-3, "For Frontal Collision" or SR-5, "For Side and Rollover Collision". |
| ON OFF | 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-82, ""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-82, ""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:**

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

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

SRS is now in Diagnosis mode. Refer to SRC-57, "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)

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

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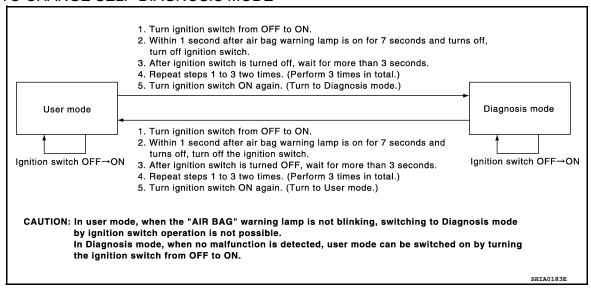
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< SYSTEM DESCRIPTION >

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.

- 4. 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.
- 8. Go to SRC-13, "SRS Operation Check".

DIAGNOSTIC PROCEDURE 4

Check SRS Repair History

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

Check repair history of the SRS.

Have any previous repairs been made to the SRS?

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

Description INFOID:00000000008790493

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 <u>SRC-7</u>, "SRS Component Parts Location".

DTC Logic

DTC DETECTION LOGIC

With CONSULT

| CONSULT name | DTC | DTC detecting condition | | Repair order | | |
|----------------------|-------|--|--|---|---|----|
| DRIVER AIRBAG MODULE | B1049 | Driver air bag module circuit (DR1) is open (including the spiral cable). | 1. 2. | Visually check the wiring harness connection Replace the harness if it has visible damage | | |
| [OPEN] | B1054 | Driver air bag module circuit (DR2) is open (including the spiral cable). | 4. Replace the air bag diagnosis senso | | Inspect the spiral cable circuit. Replace the air bag diagnosis sensor unit. Replace the driver air bag module. | 9, |
| DRIVER AIRBAG MODULE | B1050 | Driver air bag module circuit (DR1) is shorted to a power supply circuit (including the spiral cable). | 6. | Replace the related harness. | | |
| [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 | B1052 | Driver air bag module circuits (DR1) are shorted to each other (including the spiral cable). | | | | |
| [SHORT] | B1057 | Driver air bag module circuits (DR2) are shorted to each other (including the spiral cable). | | | | |

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-21, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

NO >> Inspection End.

2. ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

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B1049 - B1052, B1054 - B1057 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

YES >> Inspection End.

NO >> Refer to <u>SRC-21, "Diagnosis Procedure"</u>.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to SRC-15, "Self-Diagnosis Function (Without CONSULT)".

 NOTE:

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

Is the DTC detected?

YES >> Refer to <u>SRC-21</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000008790495

Recheck SRS after each replacement.

1. HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

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

NOTE:

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

Is the inspection result normal?

YES >> GO TO 2

NO

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

2.confirm ${ t DTC}$

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

Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-49, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage NOTE.

NOTE:

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

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace the harness.

4. CHECK SPIRAL CABLE CIRCUIT

- 1. Turn ignition switch OFF.
- 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.

B1049 - B1052, B1054 - B1057 DRIVER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

| Driver air | bag module | Spiral cable | | Continuity | |
|------------|------------|--------------|----------|------------|--|
| Connector | Terminal | Connector | Terminal | Continuity | |
| M404 | 1 | | 30 | | |
| WITOT | M101 2 | MOO | 23 | Vac | |
| M402 | 3 | M29 | 28 | Yes | |
| 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 | | |
| | 2 | Glound | No | |
| M103 | 3 | | INO | |
| | 4 | | | |

Is the inspection result normal?

YES >> GO TO 5.

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

CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 6.

NO >> Refer to GI-49, "Intermittent Incident".

6. AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".
- 2. Turn ignition switch ON.
- Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.

NO >> Clear DTC. Inspection End.

$7.\mathsf{FRONT}$ DRIVER AIR BAG MODULE

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

Is DTC still current?

YES >> GO TO 8.

NO >> Clear DTC. Inspection End.

8. RELATED HARNESS

Replace the related harness.

>> END

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B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

Description INFOID:0000000008790496

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 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. | | T |
| [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. | | |

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-21, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

NO >> Inspection End.

2.erase self-diag result

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.

NO >> Refer to <u>SRC-21, "Diagnosis Procedure"</u>.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-15</u>, "Self-Diagnosis Function (Without CONSULT)".
 NOTE:

Revision: December 2012 SRC-20 2013 Frontier

B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE < DTC/CIRCUIT DIAGNOSIS > SRS will not enter diagnosis mode if no malfunction is detected in user mode. Α Is the DTC detected? >> Refer to SRC-21, "Diagnosis Procedure". YES NO >> Inspection End. Diagnosis Procedure INFOID:0000000009241343 1. HARNESS CONNECTOR Visually inspect all applicable harness connectors for the following: Visible damage to connector or terminal Loose terminal D · Poor connection NOTE: All harness connectors should be inspected from the air bag diagnosis unit to the end component (including Е any in-line connectors). Is the inspection result normal? >> GO TO 2 YES NO >> Perform one of the following repairs: Visible damage: Replace the harness. Loose terminal: Secure the terminal. Poor connection: Secure the connection. 2.CONFIRM DTC Reconnect all harness connectors. SRC Turn ignition switch ON. Check for DTC using CONSULT. Is DTC still current? YES >> GO TO 3 NO >> Refer to GI-49, "Intermittent Incident". $oldsymbol{3}$. WIRING HARNESS Check the wiring harness for visible damage NOTE. NOTE: The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors). Is the inspection result normal? >> GO TO 4 YES NO >> Replace the harness. 4.CONFIRM DTC Reconnect all harness connectors. Turn ignition switch ON. Check for DTC using CONSULT. Is DTC still current? N YES >> GO TO 5 NO >> Refer to GI-49, "Intermittent Incident". ${f 5}.$ AIR BAG DIAGNOSIS SENSOR UNIT Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation". Turn ignition switch ON. 2. Р Check for DTC using CONSULT. Is DTC still current? YES >> GO TO 6 NO >> Clear DTC. Inspection End.

- **6.**FRONT PASSENGER AIR BAG MODULE
- 2. Turn ignition switch ON.

Revision: December 2012 SRC-21 2013 Frontier

Replace the front passenger air bag module. Refer to SR-15, "Removal and Installation".

B1065 - B1068, B1070 - B1073 PASSENGER AIRBAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7

NO >> Clear DTC. Inspection End.

7. RELATED HARNESS

Replace the related harness.

>> END

B1134 - B1137 SIDE AIRBAG MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

B1134 – B1137 SIDE AIRBAG MODULE LH

Description INFOID:0000000008790499

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:0000000008790500

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. | |
| SIDE MODULE LH [SHORT] | B1137 | Front LH side air bag module circuits are shorted to each other. | |

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-23, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

>> Inspection End. NO

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

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.

NO >> Refer to SRC-23, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to SRC-15, "Self-Diagnosis Function (Without CONSULT)". 2. NOTE:

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

Is the DTC detected?

YES >> Refer to SRC-23, "Diagnosis Procedure".

NO >> Inspection End.

1. HARNESS CONNECTOR

Diagnosis Procedure

Visually inspect all applicable harness connectors for the following:

SRC-23 Revision: December 2012 2013 Frontier D

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INFOID:0000000009241344

B1134 - B1137 SIDE AIRBAG MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

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

NOTE:

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

Is the inspection result normal?

YES >> GO TO 2

NO >> Perform one of the following repairs:

- · Visible damage: Replace the harness.
- · Loose terminal: Secure the terminal.
- · Poor connection: Secure the connection.

2.confirm ${ t DTC}$

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

Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-49, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage NOTE

NOTE:

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

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5

NO >> Refer to GI-49, "Intermittent Incident".

5. AIR BAG DIAGNOSIS SENSOR UNIT

- Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".
- Turn ignition switch ON.
- Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6

NO >> Clear DTC. Inspection End.

6.SIDE AIR BAG MODULE LH

- 1. Replace the side air bag module LH.
- 2. Turn ignition switch ON.
- Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7

NO >> Clear DTC. Inspection End.

/ .RELATED HARNESS

Replace the related harness.

B1134 - B1137 SIDE AIRBAG MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

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B1129 - B1132 SIDE AIRBAG MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1129 - B1132 SIDE AIRBAG MODULE RH

Description INFOID:000000008790502

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. | 1. 2. | 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. | 3. 4. 5. | 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. | | |

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-26, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

NO >> Inspection End.

2.erase self-diag result

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.

NO >> Refer to <u>SRC-26, "Diagnosis Procedure"</u>.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1. CHECK SELF-DIAG RESULT

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-15</u>, "Self-Diagnosis Function (Without CONSULT)".
 NOTE:

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

Is the DTC detected?

YES >> Refer to <u>SRC-26</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000009241345

1. HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

Revision: December 2012 SRC-26 2013 Frontier

B1129 – B1132 SIDE AIRBAG MODULE RH

< DTC/CIRCUIT DIAGNOSIS > Visible damage to connector or terminal

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 Loose terminal · Poor connection

NOTE:

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

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Is the inspection result normal?

YES >> GO TO 2

NO >> Perform one of the following repairs:

- Visible damage: Replace the harness.
- · Loose terminal: Secure the terminal.
- · Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-49, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage NOTE

NOTE:

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

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5

NO >> Refer to GI-49, "Intermittent Incident".

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

- Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".
- Turn ignition switch ON.
- 3. Check for DTC using CONSULT.

Is DTC still current?

>> GO TO 6 YES

NO >> Clear DTC. Inspection End.

6.SIDE AIR BAG MODULE RH

- Replace the side air bag module RH.
- 2. Turn ignition switch ON.
- Check for DTC using CONSULT.

Is DTC still current?

YFS >> GO TO 7

NO >> Clear DTC. Inspection End.

/ .RELATED HARNESS

Replace the related harness.

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B1129 - B1132 SIDE AIRBAG MODULE RH

>> END

B1150 - B1153 SIDE CURTAIN AIR BAG MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

B1150 – B1153 SIDE CURTAIN AIR BAG MODULE LH

Description INFOID:0000000008790505

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:0000000008790506

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. | or replace the relative numbers |
| CURTAIN MODULE LH [SHORT] | B1153 | LH side curtain air bag module circuits are shorted to each other. | |

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-29, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

>> Inspection End. NO

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

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.

>> Refer to SRC-29, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to SRC-15, "Self-Diagnosis Function (Without CONSULT)". 2. NOTE:

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

Is the DTC detected?

YES >> Refer to SRC-29, "Diagnosis Procedure".

NO >> Inspection End.

1. HARNESS CONNECTOR

Diagnosis Procedure

Visually inspect all applicable harness connectors for the following:

SRC-29 Revision: December 2012 2013 Frontier

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INFOID:0000000009241346

B1150 - B1153 SIDE CURTAIN AIR BAG MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

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

NOTE:

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

Is the inspection result normal?

YES >> GO TO 2

NO >> Perform one of the following repairs:

- Visible damage: Replace the harness.
- · Loose terminal: Secure the terminal.
- · Poor connection: Secure the connection.

2.confirm ${ t DTC}$

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

Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-49, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage NOTE

NOTE:

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

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5

NO >> Refer to GI-49, "Intermittent Incident".

5. AIR BAG DIAGNOSIS SENSOR UNIT

- Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".
- 2. Turn ignition switch ON.
- Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6

NO >> Clear DTC. Inspection End.

$oldsymbol{6}.$ SIDE CURTAIN AIR BAG MODULE LH

- Replace the side curtain air bag module LH. Refer to <u>SR-18, "Removal and Installation"</u>.
- 2. Turn ignition switch ON.
- Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7

NO >> Clear DTC. Inspection End.

/ .RELATED HARNESS

Replace the related harness.

B1150 - B1153 SIDE CURTAIN AIR BAG MODULE LH

< DTC/CIRCUIT DIAGNOSIS >

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B1145 - B1148 SIDE CURTAIN AIR BAG MODULE RH

< DTC/CIRCUIT DIAGNOSIS >

B1145 – B1148 SIDE CURTAIN AIR BAG MODULE RH

Description INFOID:000000008790508

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. | 1. 2. | 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. 4. 5. | Replace the air bag diagnosis sensor unit. Replace the RH side curtain air bag modu 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. | | |

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-32, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

NO >> Inspection End.

2.erase self-diag result

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.

NO >> Refer to SRC-32, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1. CHECK SELF-DIAG RESULT

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-15</u>, "<u>Self-Diagnosis Function</u> (<u>Without CONSULT</u>)".
 NOTE:

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

Is the DTC detected?

YES >> Refer to <u>SRC-32</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000009241347

1. HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

Revision: December 2012 SRC-32 2013 Frontier

B1145 – B1148 SIDE CURTAIN AIR BAG MODULE RH < DTC/CIRCUIT DIAGNOSIS > Visible damage to connector or terminal Loose terminal Α · Poor connection NOTE: All harness connectors should be inspected from the air bag diagnosis unit to the end component (including В any in-line connectors). Is the inspection result normal? YES >> GO TO 2 NO >> Perform one of the following repairs: Visible damage: Replace the harness. · Loose terminal: Secure the terminal. · Poor connection: Secure the connection. D 2.CONFIRM DTC Reconnect all harness connectors. Е 2. Turn ignition switch ON. Check for DTC using CONSULT. Is DTC still current? YES >> GO TO 3 NO >> Refer to GI-49, "Intermittent Incident". 3.WIRING HARNESS Check the wiring harness for visible damage NOTE NOTE: The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors). Is the inspection result normal?

YES >> GO TO 4

NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5

NO >> Refer to GI-49, "Intermittent Incident".

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

- Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".
- Turn ignition switch ON.
- 3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6

NO >> Clear DTC. Inspection End.

O.SIDE CURTAIN AIR BAG MODULE RH

- Replace the side curtain air bag module RH. Refer to SR-18, "Removal and Installation".
- 2. Turn ignition switch ON.
- Check for DTC using CONSULT.

Is DTC still current?

YFS >> GO TO 7

NO >> Clear DTC. Inspection End.

/ .RELATED HARNESS

Replace the related harness.

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SRC-33 Revision: December 2012 2013 Frontier

B1145 – B1148 SIDE CURTAIN AIR BAG MODULE RH



>> END

B1086 - B1089 SEAT BELT PRE-TENSIONER LH

< DTC/CIRCUIT DIAGNOSIS >

B1086 – B1089 SEAT BELT PRE-TENSIONER LH

Description INFOID:0000000008790511

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:0000000008790512

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. | , topiuse and totales named |
| PRE-TEN FRONT LH [SHORT] | B1089 | LH seat belt pre-tensioner circuits are shorted to each other. | |

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-35, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

>> Inspection End. NO

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

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.

>> Refer to SRC-35, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to SRC-15, "Self-Diagnosis Function (Without CONSULT)". 2. NOTE:

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

Is the DTC detected?

YES >> Refer to SRC-35, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

1. HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

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INFOID:0000000009241348

B1086 - B1089 SEAT BELT PRE-TENSIONER LH

< DTC/CIRCUIT DIAGNOSIS >

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

NOTE:

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

Is the inspection result normal?

YES >> GO TO 2

NO >> Perform one of the following repairs:

- Visible damage: Replace the harness.
- · Loose terminal: Secure the terminal.
- · Poor connection: Secure the connection.

2.confirm ${ t DTC}$

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

Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-49, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage NOTE

NOTE:

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

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5

NO >> Refer to GI-49, "Intermittent Incident".

5. AIR BAG DIAGNOSIS SENSOR UNIT

- Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".
- Turn ignition switch ON.
- Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6

NO >> Clear DTC. Inspection End.

6. SEAT BELT PRE-TENSIONER LH

- Replace the seat belt pre-tensioner LH. Refer to <u>SR-22, "Removal and Installation"</u>.
- 2. Turn ignition switch ON.
- Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7

NO >> Clear DTC. Inspection End.

/ .RELATED HARNESS

Replace the related harness.

B1086 - B1089 SEAT BELT PRE-TENSIONER LH

< DTC/CIRCUIT DIAGNOSIS >

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B1081 - B1084 SEAT BELT PRE-TENSIONER RH

< DTC/CIRCUIT DIAGNOSIS >

B1081 – B1084 SEAT BELT PRE-TENSIONER RH

Description INFOID:0000000008790514

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. | 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. | 1, 111111111111111111111111111111111111 |
| PRE-TEN FRONT RH [SHORT] | B1084 | RH seat belt pre-tensioner circuits are shorted to each other. | |

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-38, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

NO >> Inspection End.

f 2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.

NO >> Refer to SRC-38, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-15</u>, "Self-Diagnosis Function (Without CONSULT)".
 NOTE:

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

Is the DTC detected?

YES >> Refer to <u>SRC-38</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000009241349

1. HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

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B1081 – B1084 SEAT BELT PRE-TENSIONER RH < DTC/CIRCUIT DIAGNOSIS > Visible damage to connector or terminal Loose terminal Α · Poor connection NOTE: All harness connectors should be inspected from the air bag diagnosis unit to the end component (including В any in-line connectors). Is the inspection result normal? YES >> GO TO 2 NO >> Perform one of the following repairs: Visible damage: Replace the harness. · Loose terminal: Secure the terminal. · Poor connection: Secure the connection. D 2.CONFIRM DTC Reconnect all harness connectors. Е 2. Turn ignition switch ON. Check for DTC using CONSULT. Is DTC still current? YES >> GO TO 3 NO >> Refer to GI-49, "Intermittent Incident". 3.WIRING HARNESS Check the wiring harness for visible damage NOTE NOTE: **SRC** The entire wiring harness should be inspected from the air bag diagnosis sensor unit to the end component (including any in-line connectors). Is the inspection result normal? YES >> GO TO 4 NO >> Replace the harness. 4.CONFIRM DTC Reconnect all harness connectors. Turn ignition switch ON. Check for DTC using CONSULT. K Is DTC still current? YES >> GO TO 5 NO >> Refer to GI-49, "Intermittent Incident". L ${f 5.}$ AIR BAG DIAGNOSIS SENSOR UNIT Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation". Turn ignition switch ON.

3. Check for DTC using CONSULT.

Is DTC still current?

>> GO TO 6 YES

NO >> Clear DTC. Inspection End.

6.SEAT BELT PRE-TENSIONER RH

- Replace the seat belt pre-tensioner RH. Refer to SR-22, "Removal and Installation".
- Turn ignition switch ON. 2.
- Check for DTC using CONSULT.

Is DTC still current?

YFS >> GO TO 7

NO >> Clear DTC. Inspection End.

/ .RELATED HARNESS

Replace the related harness.

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B1081 - B1084 SEAT BELT PRE-TENSIONER RH



>> END

B1033 - B1035 CRASH ZONE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B1033 - B1035 CRASH ZONE SENSOR

Description INFOID:0000000008790517

DTC B1033 - B1035 CRASH ZONE SENSOR

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

PART LOCATION

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

DTC Logic

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 |

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-41, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

NO >> Inspection End.

2. ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.

NO >> Refer to <u>SRC-41, "Diagnosis Procedure"</u>.

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to SRC-15, "Self-Diagnosis Function (Without CONSULT)".

 NOTE:

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

Is the DTC detected?

YES >> Refer to <u>SRC-41</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

1. HARNESS CONNECTOR

Diagnosis Procedure

Visually inspect all applicable harness connectors for the following:

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

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Revision: December 2012 SRC-41 2013 Frontier

B1033 – B1035 CRASH ZONE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 2

NO

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

2.confirm dtc

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

Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-49, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage NOTE.

NOTE:

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

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5

NO >> Refer to GI-49, "Intermittent Incident".

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

- Replace the air bag diagnosis sensor unit. Refer to <u>SR-23, "Removal and Installation"</u>.
- 2. Turn ignition switch ON.
- 3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6

NO >> Clear DTC. Inspection End.

6.CRASH ZONE SENSOR

- 1. Replace the crash zone sensor. Refer to SR-20, "Removal and Installation".
- Turn ignition switch ON.
- Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7

NO >> Clear DTC. Inspection End.

/.RELATED HARNESS

Replace the related harness.

>> END

B1118 - B1120 SATELLITE SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

B1118 - B1120 SATELLITE SENSOR LH

Description INFOID:0000000008790520

DTC B1118 - B1120 SATELLITE SENSOR LH

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

PART LOCATION

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

DTC Logic INFOID:0000000008790521

DTC DETECTION LOGIC

With CONSULT

| CONSULT name | DTC | DTC detecting condition | | Repair order | F |
|----------------------------------|-------|---|----------|--|---|
| SATELLITE SENS LH | B1118 | LH side air bag satellite sensor has mal- | 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. | G |

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-43, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

>> Inspection End.

ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.

>> Refer to SRC-43, "Diagnosis Procedure". NO

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to SRC-15, "Self-Diagnosis Function (Without CONSULT)".

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

Is the DTC detected?

YES >> Refer to <u>SRC-43, "Diagnosis Procedure"</u>.

>> Inspection End. NO

Diagnosis Procedure

1. HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

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

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B1118 – B1120 SATELLITE SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

NOTE:

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

Is the inspection result normal?

YES >> GO TO 2

NO

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

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-49, "Intermittent Incident".

WIRING HARNESS

Check the wiring harness for visible damage NOTE

NOTE:

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

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace the harness.

4. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5

NO >> Refer to GI-49, "Intermittent Incident".

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

- Replace the air bag diagnosis sensor unit. Refer to <u>SR-23, "Removal and Installation"</u>.
- 2. Turn ignition switch ON.
- Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6

NO >> Clear DTC. Inspection End.

6.SATELLITE SENSOR LH

- Replace the satellite sensor LH. Refer to <u>SR-21, "Removal and Installation"</u>.
- 2. Turn ignition switch ON.
- 3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7

NO >> Clear DTC. Inspection End.

7. RELATED HARNESS

Replace the related harness.

>> END

B1113 – B1115 SATELLITE SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

B1113 - B1115 SATELLITE SENSOR RH

Description INFOID:0000000008790523

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:0000000008790524

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. | |

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-45, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

>> Inspection End.

ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.

>> Refer to SRC-45, "Diagnosis Procedure". NO

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1. CHECK SELF-DIAG RESULT

- 1 Turn ignition switch ON.
- 2. Check the air bag warning lamp status. Refer to SRC-15, "Self-Diagnosis Function (Without CONSULT)".

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

Is the DTC detected?

YES >> Refer to SRC-45, "Diagnosis Procedure".

>> Inspection End. NO

Diagnosis Procedure

Recheck SRS after each replacement.

1. HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

- Visible damage to connector or terminal
- Loose terminal

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B1113 – B1115 SATELLITE SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

Poor connection

NOTE:

NO

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

Is the inspection result normal?

YES >> GO TO 2

>> Perform one of the following repairs:

- Visible damage: Replace the harness.
- · Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-49, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage NOTE

NOTE:

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

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace the harness.

4. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5

NO >> Refer to GI-49, "Intermittent Incident".

5. AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".
- 2. Turn ignition switch ON.
- Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6

NO >> Clear DTC. Inspection End.

6. SATELLITE SENSOR RH

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

Is DTC still current?

YES >> GO TO 7

NO >> Clear DTC. Inspection End.

7. RELATED HARNESS

Replace the related harness.

>> **END**

B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

Description INFOID:0000000008790526

DTC B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

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

PART LOCATION

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

DTC Logic INFOID:0000000008790527

DTC DETECTION LOGIC

With CONSULT

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

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-47, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

>> Inspection End.

2.erase self-diag result

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.

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

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1. CHECK SELF-DIAG RESULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to SRC-15, "Self-Diagnosis Function (Without CONSULT)". 2.

NOTE:

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

Is the DTC detected?

YES >> Refer to <u>SRC-47</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

1. HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

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

NOTE:

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B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 2

NO

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

2.confirm dtc

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

Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-49, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage $^{\mbox{NOTE}}.$

NOTE:

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

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5

NO >> Refer to GI-49, "Intermittent Incident".

5. AIR BAG DIAGNOSIS SENSOR UNIT

- 1. Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".
- 2. Turn ignition switch ON.
- 3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.

NO >> Clear DTC. Inspection End.

6. RELATED HARNESS

Replace the related harness.

>> END

B1023 PASSENGER AIR BAG OFF INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

B1023 PASSENGER AIR BAG OFF INDICATOR

Description INFOID:0000000008790529

DTC B1023 FRONT PASSENGER AIR BAG OFF INDICATOR

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

PART LOCATION

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

DTC Logic INFOID:0000000008790530

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. | 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. |

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-49, "Diagnosis Procedure".

YES (Past DTC)>>GO TO 2.

>> Inspection End.

2.erase self-diag result

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.

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

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to SRC-15, "Self-Diagnosis Function (Without CONSULT)". 2. NOTE:

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

Is the DTC detected?

YES >> Refer to SRC-49, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

1. HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

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

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B1023 PASSENGER AIR BAG OFF INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

NOTE:

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

Is the inspection result normal?

YES >> GO TO 2

NO

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

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3

NO >> Refer to GI-49, "Intermittent Incident".

WIRING HARNESS

Check the wiring harness for visible damage NOTE

NOTE:

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

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace the harness.

4. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5

NO >> Refer to GI-49, "Intermittent Incident".

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

- 1. Replace the air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".
- Turn ignition switch ON.
- Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6

NO >> Clear DTC. Inspection End.

O.PASSENGER AIR BAG OFF INDICATOR

- Replace the passenger air bag off indicator. Refer to <u>IP-15, "Removal and Installation"</u>.
- Turn ignition switch ON.
- 3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7

NO >> Clear DTC. Inspection End.

7. RELATED HARNESS

Replace the related harness.

>> END

B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

B1017 - B1022 OCCUPANT CLASSIFICATION SYSTEM

Description INFOID:0000000008790532

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:0000000008790533

DTC DETECTION LOGIC

With CONSULT

| CONSULT name | DTC | DTC detecting condition | Repair order |
|----------------------------------|----------------|--|--|
| | B1017 B1021 | The OCS control unit is malfunctioning. | Replace the RH front seat cushion assembly. Do not disassemble the seat cushion assembly. bly. |
| 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. By. 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. |

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. CHECK SELF-DIAG RESULT

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

Is the DTC detected?

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

YES (Past DTC)>>GO TO 2.

NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

SRC-51 Revision: December 2012 2013 Frontier SRC

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B1017 – B1022 OCCUPANT CLASSIFICATION SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

Can the DTC be erased?

YES >> Inspection End.

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

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

- 1. Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to <u>SRC-15</u>, "Self-Diagnosis Function (Without CONSULT)".
 NOTE:

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

Is the DTC detected?

YES >> Refer to <u>SRC-52</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000009297137

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

2. HARNESS CONNECTOR

Is there any visible damage to the OCS sub-harness connector (DTC B1022) or to the belt tension sensor connector (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.

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

$7.\mathsf{ocs}$ sensor harness connector

Is the OCS sensor harness connector disconnected?

B1017 - B1022 OCCUPANT CLASSIFICATION SYSTEM

| B1017 - B1022 OCCUPANT CLASSIFICATION SYSTEM | |
|---|---|
| < DTC/CIRCUIT DIAGNOSIS > | |
| YES or NO | |
| YES >> Connect the harness. Clear the DTC. NO >> GO TO 8 | 1 |
| | |
| 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.BELT TENSION SENSOR HARNESS CONNECTOR | |
| s the belt tension sensor harness connector disconnected? | S |
| 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 <u>SE-43, "Seat Cushion Trim and Pad"</u> . | |
| >> GO TO 14 | |
| 14. AIR BAG DIAGNOSIS SENSOR UNIT | |
| Replace the air bag diagnosis sensor unit. Refer to <u>SR-23, "Removal and Installation"</u> . | |
| replace the all pay diagnosis sensor unit. Refer to <u>SR-23. Removal and installation</u> . | |
| >> END. | |
| | |
| | |
| | |
| | |
| | |
| | |

B1209 - B1211 COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

B1209 - B1211 COLLISION DETECTION

Description INFOID:000000008790535

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-3, "For Frontal Collision". |
| SIDE COLLISION DE- TECTION | B1210 | Side and/or curtain air bag modules are deployed. | Refer to SR-5, "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 SRC-54, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000008790537

Refer to SR-3, "For Frontal Collision" or SR-5, "For Side and Rollover Collision".

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INFOID:0000000008790538

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

DIAGNOSIS SENSOR UNIT

Trouble Diagnosis with CONSULT

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.

D DTC CONSULT name DTC detecting condition Repair order Driver air bag module circuit (DR1) is Visually check the wiring harness connection. B1049 Replace the harness if it has visible damage. 2. open 3. Inspect the spiral cable circuit. (including the spiral cable). **DRIVER AIRBAG MODULE** 4. Replace the air bag diagnosis sensor unit. [OPEN] Driver air bag module circuit (DR2) is Replace the driver air bag module. B1054 Replace the related harness. (including the spiral cable). Driver air bag module circuit (DR1) is shorted to a power supply circuit B1050 (including the spiral cable). DRIVER AIRBAG MODULE [VB-SHORT] Driver air bag module circuit (DR2) is B1055 shorted to a power supply circuit SRC (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 around (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). Front passenger air bag module circuit Visually check the wiring harness connection. B1065 (AS1) is open. 2. Replace the harness if it has visible damage. ASSIST A/B MODULE Replace the air bag diagnosis sensor unit. [OPEN] Front passenger air bag module circuit B1070 Replace the front passenger air bag module. (AS2) is open. Replace the related harness. Front passenger air bag module circuit B1066 (AS1) is shorted to a power supply circuit. ASSIST A/B MODULE N [VB-SHORT] Front passenger air bag module circuit B1071 (AS2) is shorted to a power supply cir-Front passenger air bag module circuit B1067 (AS1) is shorted to ground. ASSIST A/B MODULE [GND-SHORT] Front passenger air bag module circuit B1072 (AS2) is shorted to ground. Front passenger air bag module circuits B1068 (AS1) are shorted to each other. ASSIST A/B MODULE [SHORT] Front passenger air bag module circuits B1073 (AS2) are shorted to each other.

SRC-55 Revision: December 2012 2013 Frontier

< 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. | 2. | Visually check the wiring harness connection Replace the harness if it has visible damage | |
| SIDE MODULE LH [VB-SHORT] | B1135 | Front LH side air bag module circuit is shorted to a power supply circuit. | 4. | . Replace the front LH side air bag module. | |
| 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. | 2. | 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. | . J. | replace the related namess. | |
| 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. | 2. | 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. | J. | Replace the related flamess. | |
| 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. | 2. | Replace the harness if it has visible damage Replace the air bag diagnosis sensor unit. Replace the RH side curtain air bag module. | |
| CURTAIN MODULE RH [VB-SHORT] | B1146 | RH side curtain air bag module circuit is shorted to a power supply circuit. | 4. | | |
| CURTAIN MODULE RH [GND-SHORT] | B1147 | RH side curtain air bag module circuit is shorted to ground. | J. | | |
| 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. | 2. | 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. | 4. | 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. | J. | replace the related flamess. | |
| 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. | 4. | Replace the front RH seat belt pre-tensione Replace the air bag diagnosis sensor unit. | |
| PRE-TEN FRONT RH [GND-SHORT] | B1083 | RH seat belt pre-tensioner circuit is shorted to ground. | 5. | 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 | B1033 | Crash zone sensor has malfunctioned. | | Visually check the wiring harness connection | |
| [UNIT FAIL] | B1034 | | | Replace the harness if it has visible damage Replace the crash zone sensor. | |
| CRASH ZONE SEN [COMM FAIL] | B1035 | Crash zone sensor communication error. | | Replace the drash zone sensor. Replace the air bag diagnosis sensor unit. Replace the related harness. | |

< ECU DIAGNOSIS INFORMATION >

| CONSULT name | DTC | DTC detecting condition | Repair order |
|----------------------------------|----------------|--|--|
| SATELLITE SENS LH [UNIT FAIL] | B1118 B1119 | LH side air bag satellite sensor has mal- functioned. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the LH side air bag satellite sensor. |
| SATELLITE SENS LH [COMM FAIL] | B1120 | LH side air bag satellite sensor communication error. | 4. Replace the air bag diagnosis sensor unit. 5. 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. | Replace the air bag diagnosis sensor unit. 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. |
| | 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 <u>SR-3</u> , "For Frontal Collision". |
| SIDE COLLISION DETEC- TION | B1210 | Side and/or curtain air bag modules are deployed. | Refer to SR-5, "For Side and Rollover Collision". |
| ROLLOVER DETECTION | B1211 | Curtain air bag module and seat belt pre-tensioner are deployed. | |

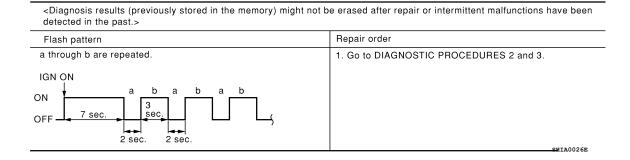
Trouble Diagnosis without CONSULT

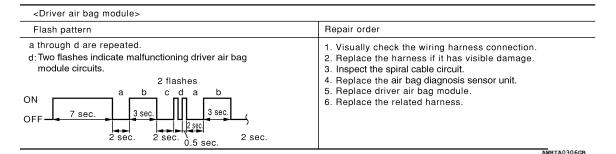
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WARNING LAMP FLASH CODE CHART **NOTE**:

< 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.



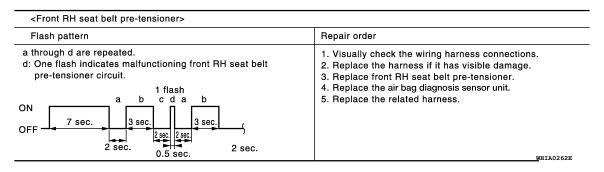


| <air bag="" diagnosis="" sensor="" unit=""></air> | |
|---|--|
| Flash pattern | Repair order |
| a through d are repeated. d: Seven flashes indicate malfunctioning diagnosis sensor unit circuit. 7 flashes ON OFF 7 sec. 2 sec. 2 sec. 2 sec. 2 sec. | Visually check the wiring harness connections. Replace the harness if it has visible damage. Replace the air bag diagnosis sensor unit. Replace the related harness. |
| 0.5 sec. | WHIA01 |

| a through d are repeated. d: Eight flashes indicate malfunctioning front passenger air bag module circuit. 8 flashes ON OFF 7 sec. 2 sec. 2 sec. 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 front passenger air bag module. 5. Replace the related harness. | <front air="" bag="" module="" passenger=""></front> | |
|--|--|--|
| d: Eight flashes indicate malfunctioning front passenger air bag module circuit. 2. Replace the harness if it has visible damage. 3. Replace the air bag diagnosis sensor unit. 4. Replace front passenger air bag module. 5. Replace the related harness. | Flash pattern | Repair order |
| 0.0 000. | d: Eight flashes indicate malfunctioning front passenger air bag module circuit. 8 flashes ON 7 sec. 3 sec. 3 sec. 3 sec. | Replace the harness if it has visible damage. Replace the air bag diagnosis sensor unit. Replace front passenger air bag module. |

| <crash sensor="" zone=""></crash> | |
|--|--|
| Flash pattern | Repair order |
| a through d are repeated. d: Six flashes indicate malfunctioning crash zone sensor circuit. ON OFF 7 sec. 2 sec. 2 sec. 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. |

< ECU DIAGNOSIS INFORMATION >



| <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. | Visually check the wiring harness connections. Replace the harness if it has visible damage. Replace front LH seat belt pre-tensioner. |
| ON 7 sec. 3 sec. 3 sec. 3 sec. 7 sec. 2 sec. 2 sec. 2 sec. | Replace the air bag diagnosis sensor unit. 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 7 sec. 7 sec. 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace the RH side air bag (Satellite) sensor. Replace the air bag diagnosis sensor unit. Replace the related harness. | | | |
| 2 sec. 7 0.5 sec. 2 sec. | WHIA0203E | | | |

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

| Flash pattern | Repair order |
|---|---|
| a through f are repeated. f: One flash indicate malfunctioning front RH side air bag module circuit. I flash ON 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. |

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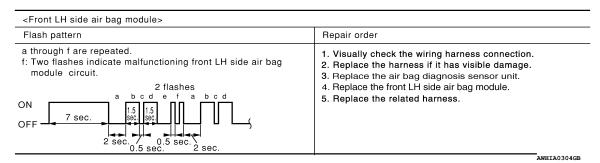
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< ECU DIAGNOSIS INFORMATION >



| <lh air="" bag="" curtain="" module="" side=""></lh> | |
|---|---|
| Flash pattern | Repair order |
| a through f are repeated. f: Six flashes indicate malfunctioning LH side curtain air bag module circuit. ON OFF 7 sec. 0.5 sec. 0.5 sec. 0.5 sec. 2 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 LH side curtain air bag module. Replace the related harness. |
| | AWHIA0309GB |

| <rh air="" bag="" curtain="" module="" side=""></rh> | |
|---|--|
| Flash pattern | Repair order |
| a through f are repeated. f: Five flashes indicate malfunctioning RH side curtain air bag module circuit. 5 flashes ON OFF 7 sec. 2 sec. 0.5 sec. 2 sec. 2 sec. | 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 RH side curtain air bag module. 5. Replace the related harness. |

<Occupant classification system>

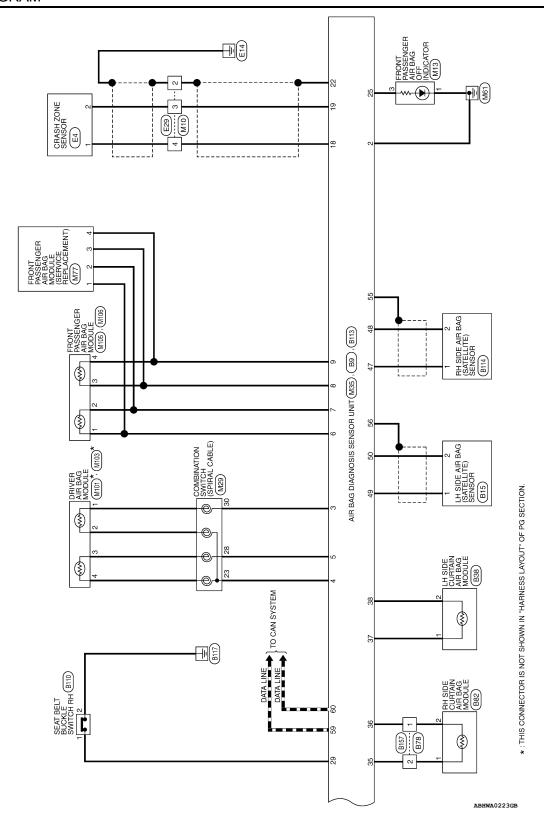
| Flash pattern | Repair order |
|---|---|
| a through d are repeated. d: Five flashes indicate malfuntioning occupant classification system control unit. 5 flashes ON OFF 7 sec. 2 sec. 2 sec. 0.5 sec. | Visually check the wiring harness connection. Replace the harness if it has visible damage. Replace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

<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. | 1. Visually check the wiring harness connection. 2. Replace the harness if it has visible damage. 3. Replace front passenger air bag off indicator. 4. Replace the air bag diagnosis sensor unit. 5. Replace the related harness. |

WIRING DIAGRAM Α SRS AIR BAG CONTROL SYSTEM Wiring Diagram - With Power Seats INFOID:0000000008790540 В C D OCCUPANT CLASSIFICATION (B352) SYSTEM CONTROL UNIT Е BELT TENSION SENSOR (B137) (3) F OCCUPANT CLASSIFICATION SYSTEM SENSOR (B353) G B154 B162 M16 8303 (3) SRC , B113 AIR BAG DIAGNOSIS SENSOR UNIT (M35), (B9) SRS AIR BAG CONTROL SYSTEM - WITH POWER SEATS J (3) K SEAT BELT BUCKLE SWITCH LH (B12) COMBINATION METER (M24) L M61 3 FUSE BLOCK (J/B) (M4) UNIFIED METER CONTROL UNIT (WITH INFORMATION DISPLAY) M40 (M40) M (3) Ν IGNITION SWITCH ON OR START 10A AIR 0 Р

ABHWA0231GB



Connector Name FRONT PASSENGER AIR BAG OFF INDICATOR

M13

Connector No.

Connector Color BROWN

SRS AIR BAG CONTROL SYSTEM CONNECTORS - WITH POWER SEATS

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

Connector Name WIRE TO WIRE

M10

Connector No.

| AND MAILLE TOOL BLOOK (4/D) | WHITE | 7P 6P 5P 4P 3P 2P 1P | 12P 11P | |
|-----------------------------|------------------|----------------------|---------|--|
| יוטו ואמווופ | stor Color WHITE | 7P 6P | 16P 15P | |



| | MO1. | 3 2 1 | 0) | | |
|---|------------------------|--|-------------------|--------|-----|
| | or YEL | 4 | Color of Wire | SHIELD | В |
| | Connector Color YELLOW | 所 H.S. | Terminal No. Wire | 2 | 3 |
| | | | | | |
| | = | 7P 68 5P 4P 2P 1P 3P 2P 1P 6P 1SP 1SP 1SP 1SP 1SP 1SP 1SP 1SP 1SP 1S | Signal Name | 1 | Ι |
| _ | or WHITE | 77 6P 5P 4P [6P 15P 14P 13P 1 | Color of Wire | W/G | W/R |
| | nector Color WHITE | 1.S. | minal No. Wire | 5P | еР |

| I | - | |
|---|---|--|
| ı | 0 | |
| N | 3 | |

Signal Name

Color of Wire В

Terminal No.

Signal Name

Color of Wire SHIELD В ≥

1

0 0 4

| Connector No. | M29 |
|------------------------|--------------------------------|
| Connector Name | Connector Name COMBINATION SWI |
| Connector Color YELLOW | YELLOW |
| | |

| COMBINATION SWITCH (SPIRAL CABLE) | YELLOW | 28 88 88 88 | Signal Name | ı | I | ı |
|-----------------------------------|-----------------|--|------------------|----------|-----|-----|
| | | 22 23 28 28 28 28 28 28 28 28 28 28 28 28 28 | Color of Wire | \ | Y/G | Y/R |
| Connector Name | Connector Color | H.S. | Terminal No. | 23 | 58 | 30 |
| | | | | | | |

| _ | _ | | Г | | | | | | | | _ |
|---------------|-------------------|-----------------|------|---|------------------|--------|-----------|-----------|-------------------------|-------------|---------------|
| 4 | COMBINATION METER | WHITE | | 11 10 9 8 7 6 5 4 3 2 1 31 30 29 28 27 26 25 24 23 22 21 | Signal Name | GROUND | RUN START | POWER GND | BUCKLE (SEATBELT) SW | AIRBAG CONT | PASS SEATBELT |
| . M24 | | | | 34 33 32 31 | Color of Wire | GR | M/G | В | > | SB | LG |
| Connector No. | Connector Name | Connector Color | H.S. | 20 19 18 17 16 15 40 39 38 37 36 35 | Terminal No. | 13 | 16 | 23 | 24 | 37 | 40 |

| NIRE | | |
|-----------------------------|-----------------------|-------------------|
| TO. | | 8 B |
| R | 투 | 6 5 4 4 3 11 10 9 |
| M | ∣≶ | \ \v = |
| Connector Name WIRE TO WIRE | Connector Color WHITE | H.S. |



| - W/R | 10 |
|-------------------------|--------------|
| | 10 |
| Color of Signal Na Wire | Terminal No. |

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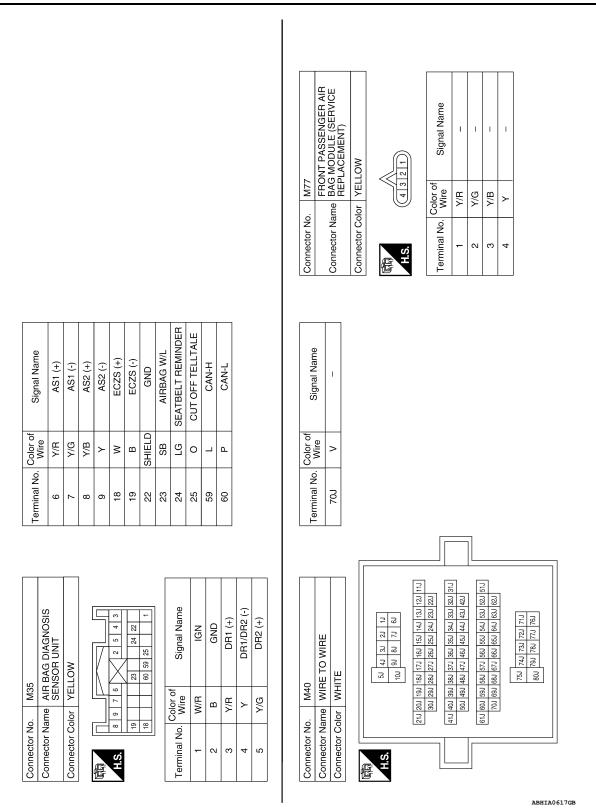
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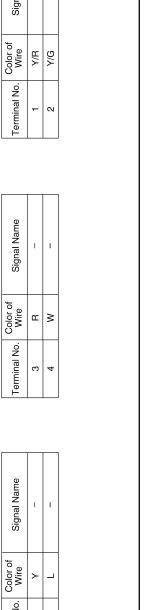
M16

Connector No.



| 25 | FRONT PASSENGER AIR BAG MODULE | TOW |
|--------------------|---|------------------------|
| Connector No. M105 | Connector Name FRONT PASSENGER AIR BAG MODULE | Connector Color YELLOW |
| | BAG MODULE | |

| FRONT PASSENGER AIR BAG MODULE | | Signal Name | Î | 1 |
|--------------------------------|------|------------------|-----|-----|
| | | Color of Wire | Y/R | Y/G |
| Connector Name | H.S. | Terminal No. | ٦ | 2 |



Connector No.

Connector No. M106

| Signal Name | _ | _ |
|------------------|---|---|
| Color of Wire | У | Γ |
| Terminal No. | 1 | 2 |

Signal Name

Terminal No.

| | WIRE TO WIRE | MO | 3 4 | Signal Name |
|---------------|----------------|-----------------|-------------|------------------|
| E29 | | YELLOW | 1 2 5 | Color of Wire |
| Connector No. | Connector Name | Connector Color | मून H.S. | Terminal No. |

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0 8

| Connector Name CRASH ZONE SENSOR | MO | -(3) | Signal Name | _ | - |
|------------------------------------|-----------------|------|------------------|---|----|
| ne CRAS | r YELLOW | | Color of Wire | > | α. |
| Connector Nan | Connector Color | H.S. | Terminal No. | - | ٥ |

| Connector Name | | FRONT PASSENGER AIR BAG MODULE |
|-----------------|------------------|-----------------------------------|
| Connector Color | lor ORANGE | NGE |
| 语.S. | 4 4 3 | |
| Terminal No. | Color of Wire | Signal Name |
| က | Y/B | I |
| 4 | > | 1 |

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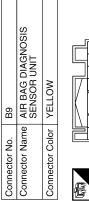
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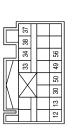
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| Connector No. | B10 |
|--------------------------|---|
| Connector Name | Connector Name FRONT LH SIDE AIR BAG MODULE |
| Connector Color YELLOW | YELLOW |
| | |

| Signal Name | I | - | |
|------------------|---|-----|--|
| Color of Wire | У | A/B | |
| rminal No. | 1 | 2 | |

| Signal Name | LH BUCKLE SW INPUT | S-LH1 (+) | S-LH1 (-) | C-LH1 (+) | C-LH1 (-) | SATELLITE LH (+) | SATELLITE LH (-) | GND |
|------------------|--------------------|-----------|-----------|-----------|-----------|------------------|------------------|--------|
| Color of Wire | 0 | ٨ | A/B | \ | A/G | BR | > | SHIELD |
| Ferminal No. | 30 | 33 | 34 | 37 | 38 | 49 | 50 | 99 |



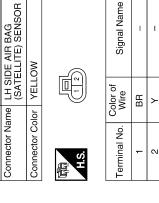


| Signal Name | P-LH1 (+) | P-LH1 (-) |
|------------------|-----------|-----------|
| Color of Wire | > | A/B |
| Terminal No. | 12 | 13 |

| Signal Name | I | 1 | |
|------------------|----------|------|--|
| Color of Wire | \ | A//B | |
| erminal No. | 1 | 2 | |

| Signal Name | ı | ı | | |
|------------------|---|-----|--|---------------|
| Color of Wire | > | Y/B | | . B15 |
| Terminal No. | - | 2 | | Connector No. |

| <u>o</u> | Connector No. | B15 |
|----------|-----------------|-------------------------------------|
| 0 | Connector Name | LH SIDE AIR BAG (SATELLITE) SENS |
| O | Connector Color | YELLOW |
| | | |



| | FRONT LH SEAT BELT PRE-TENSIONER (CREW CAB) | MO | Į. | 1 | Signal Name | 1 | Ī |
|---------------|---|-----------------|----|------|------------------|----------|-----|
| B14 | | YELLOW | | | Color of Wire | \ | N/R |
| Connector No. | Connector Name | Connector Color | | H.S. | Terminal No. | 1 | 6 |

| | SEAT BELT BUCKLE SWITCH LH | щ | 2 8 | Signal Name | ı | 1 |
|---------------|-------------------------------|-----------------|-----------|------------------|---|---|
| . B12 | | lor WHITE | 4 | Color of Wire | 0 | ۵ |
| Connector No. | Connector Name | Connector Color | 所 H.S. | Terminal No. | - | c |

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| | | Terminal No. Wire | Signal Name |
|--|--|-------------------|-------------------------------|
| Connector Name LH SIDE CURITAIN AIR BAG MODULE | Connector Name WIRE TO WIRE Connector Color WHITE | V L07 | |
| Connector Color YELLOW | | | |
| H.S. | H.S. 12 23 34 54 54 54 54 54 54 54 54 54 54 54 54 54 | | |
| Terminal No. Wire Signal Name | 151 161 | | |
| 1 Y – – – – – – – – – – – – – – – – – – | (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (43) (44) (52) (46) (47) (48) (49) (50) | | |
| | 750 770 780 780 800 | | |
| Connector No. B78 | Connector No. B82 | Connector No. | B110 |
| | Connector Name RH SIDE CURTAIN AIR BAG MODULE | Connector Name | SEAT BELT BUCKLE SWITCH RH |
| Connector Color YELLOW | Connector Color YELLOW | Connector Color V | WHITE |
| | | E | |

| SWITCH RH | Щ | | Signal Name | - | - | |
|-----------|-----------------|------|------------------|---|---|--|
| SWI | | | Color of Wire | ٦ | В | |
| | Sonnector Color | 用.S. | erminal No. | - | 2 | |

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| RH SIDE CURTAIN AIR BAG MODULE | MO | | Signal Name | I | 1 |
|-----------------------------------|--------------|----|------------------|---|-----|
| | YELLOW | | Color of Wire | > | Y/B |
| ıme | 힏 | | 0 | | ľ |
| nector Name | nector Color | ø. | ninal No. | - | 2 |

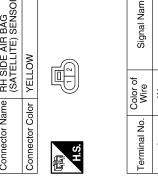
| WIRE TO WIRE | MO | | Signal Name | - | ı | |
|----------------|-----------------|------|------------------|-----|----------|--|
| me WIRE | or YELLOW | | Color of Wire | Y/B | \ | |
| Connector Name | Connector Color | H.S. | Terminal No. | 1 | 2 | |

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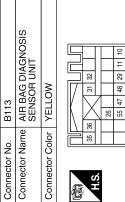
2013 Frontier

| Connector No. | B114 |
|-----------------|---------------------------------------|
| Connector Name | RH SIDE AIR BAG (SATELLITE) SENSOR |
| Connector Color | YELLOW |
| | |

| Signal Name | - | _ | |
|------------------|---|---|--|
| Color of Wire | Μ | В | |
| ninal No. | 1 | 2 | |



| Signal Name | C-RH1 (+) | C-RH1 (-) | SATELLITE RH (+) | SATELLITE RH (-) | GND |
|-------------------|-----------|-----------|------------------|------------------|--------|
| Color of Wire | \ | Y/B | 8 | В | SHIELD |
| Terminal No. Wire | 32 | 36 | 47 | 48 | 55 |

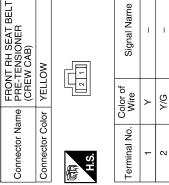


| 31 32 32 44 49 53 11 10 | Signal Name | P-RH1 (+) | P-RH1 (-) | TUANI SOO | RH BUCKLE SW INPUT | S-RH1 (+) | S-RH1 (-) |
|--|------------------|-----------|-----------|-----------|--------------------|-----------|-----------|
| 35 36 38 38 38 38 38 38 38 38 38 38 38 38 38 | Color of Wire | \ | A/G | A/B | ٦ | Y/B | ٨ |
| H.S. | Ferminal No. | 10 | 11 | 56 | 29 | 31 | 32 |

| ı | _ | | | BELT TENSION SENSOR (CREW CAB) | Ē |
|---|---|---|---------------|-----------------------------------|-----------------|
| > | В | | B137 | BELT (CRE | MHITE |
| | | | <u>o</u> | lame | olor |
| - | 5 | | Connector No. | Connector Name | Connector Color |
| | | I | | | |



Connector No.



Signal Name

Color of Wire ا ا മ

Terminal No.

N က

| | FRONT RH SIDE AIR BAG MODULE | MO. | | Signal Name | ı | ı |
|---------------|---------------------------------|-----------------|-----|------------------|-----|---|
| . B126 | | lor YELLOW | | Color of Wire | Y/B | > |
| Connector No. | Connector Name | Connector Color | S.H | Terminal No. | - | ٥ |

| Connector Name | | FRONT RH SII BAG MODULE |
|-----------------|------------------|----------------------------|
| Connector Color | olor YELLOW | MO. |
| H.S. | | |
| Terminal No. | Color of Wire | Sign |
| ٢ | Y/B | |
| 2 | ٨ | |

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SRS AIR BAG CONTROL SYSTEM

< WIRING DIAGRAM >

| B157 Connector No. B162 | WIRE TO WIRE Connector Name WIRE TO WIRE | ELLOW Connector Color WHITE | 2 1 1 2 3 4 5 6 H.S. 7 8 9 10 11 12 | of Color of Signal Name Wire Signal Name | - 10 W/R | | | | | |
|---------------------------|--|-----------------------------|-------------------------------------|--|----------|-----|-----|---|---|---|
| Connector No. B | Connector Name W | Connector Color YELLOW | H.S. | Terminal No. Wire | 1 Y/B | 2 Y | | | | |
| 54 | WIRE TO WIRE | WHITE | 13 12 11 10 9 8 | Signal Name | ı | ı | ı | ı | ı | ı |
| o. B154 | ame WI | | 7 6 5 14 16 15 14 | Color of Wire | g | Y/B | W/R | В | P | _ |
| Connector No. | Connector Name | Connector Color | H.S. | Terminal No. | - | 5 | က | ∞ | 6 | 9 |

| 6. | WIRE TO WIRE | ITE | 8 4 | Signal Name | ı | ı | ı | | _ | - |
|---------------|----------------|-----------------|------|------------------|---|-----|-----|---|----|---|
| . B349 | | lor WHITE | | Color of Wire | σ | Y/B | W/R | В | ГG | ٦ |
| Connector No. | Connector Name | Connector Color | H.S. | Terminal No. | - | 2 | 4 | 5 | 9 | 8 |
| | | | · | | | | | | | |

| 0 | WIRE TO WIRE | 里 | - G - G - G - C - C - C - C - C - C - C - C - C - C | Signal Name | ı | 1 | ı | ı | 1 | 1 |
|---------------|----------------|-----------------|---|------------------|-----|---|-----|---|-----|-----|
| . B310 | | lor WHITE | 4 8 | Color of Wire | В/У | 0 | W/N | В | Y/W | Y/B |
| Connector No. | Connector Name | Connector Color | H.S. | Terminal No. | - | 2 | 4 | 2 | 9 | 8 |

| 33 | WIRE TO WIRE | ITE | 3 | Signal Name | I | _ |
|---------------|----------------|-----------------------|--------|------------------|----|---|
| . B303 | | lor WF | 8 9 10 | Color of Wire | В/ | 0 |
| Connector No. | Connector Name | Connector Color WHITE | H.S. | Terminal No. | - | 2 |

| TE | 3 4 5 6 7 10 11 12 13 14 15 16 | Signal Name | I | 1 | ı | - | _ | I |
|-----------------------|--|------------------|-----|---|-----|---|-----|-----|
| olor WH | 8 9 10 1 | Color of Wire | В/Υ | 0 | W/N | В | W/A | Y/B |
| Connector Color WHITE | 斯 H.S. | Terminal No. | - | 2 | ဇ | 8 | 6 | 10 |

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SRC-69 2013 Frontier Revision: December 2012

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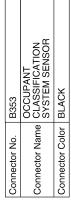
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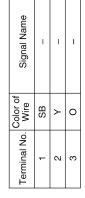
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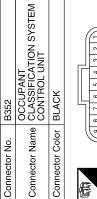
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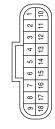








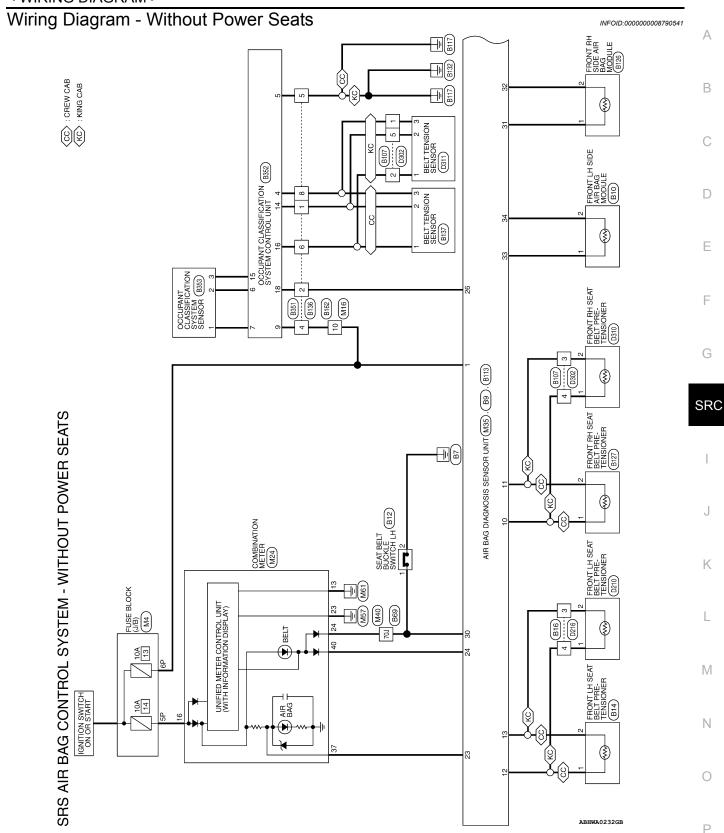


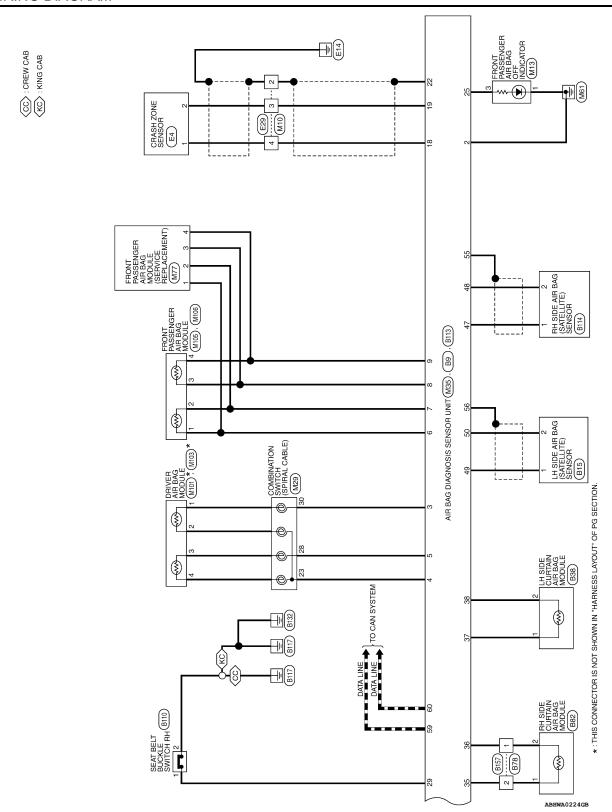




| Signal Name | - | I | ı | BTS SIGNAL | GND | PS SIGNAL | PS 5V | ı | NÐI | ı | ı | - | I | BTS GND | PS GND | BTS 5V | ı | COMMUNICATION |
|------------------|---|---|---|------------|-----|-----------|-------|---|-----|----|----|----|----|---------|--------|--------|----|---------------|
| Color of Wire | _ | 1 | 1 | ٦ | В | > | SB | ı | W/R | 1 | - | _ | _ | В | 0 | ГВ | 1 | Y/B |
| Terminal No. | 1 | 2 | 3 | 4 | 5 | 9 | 7 | 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

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

| M10 | Connector Name WIRE TO WIRE | YELLOW | 4 3 2 1 |
|-------------------|-----------------------------|------------------------|---------------------|
| Connector No. M10 | Connector Name | Connector Color YELLOW | 崎 H.S. |
| | BLOCK (J/B) | | 2P[11P[10P] 9P 8P |

| Signal Name | _ | _ | |
|------------------|-----|-----|--|
| Color of Wire | W/G | W/R | |
| Terminal No. | d9 | д9 | |

| Signal Name | I | 1 | ı | |
|------------------|---|---|---|--|
| Color of Wire | В | - | 0 | |
| Terminal No. | - | 2 | 3 | |

| Signal Name | 1 | 1 | I | |
|------------------|--------|---|---|--|
| Color of Wire | SHIELD | В | Μ | |
| erminal No. | 2 | 3 | 4 | |

| Signal Name | - | _ | |
|------------------|-----|-----|--|
| Color of Wire | M/G | W/R | |
| inal No. | 5P | 6Р | |

| MAZY OF YELLOW (SPIRAL C SPIRAL C SPIRAL C SPIRAL C Wire Y Y/R | | SWITCH | | | Name | | | |
|---|---------------|------------------------------|--------------|----------|------------------|----|------|-----|
| | 6 | OMBINATION S PIRAL CABLE) | TLOW | | f Signal Name | 1 | _ | 1 |
| Connector No Connector Na Connector Na Connector Col Connector Col Connector Col Connector Col Connector No. 23 23 28 28 30 | | | | 21 28 28 | Color c Wire | > | J//G | Y/R |
| | Connector No. | Connector Na | Connector Co | 明.S. | | 23 | 28 | 30 |

| | /ETER | | | 5 4 3 2 1 25 24 23 22 21 | Name | JND | TART | 3 GND | EATBELT) V | TNOO |
|---------------|-------------------|-----------------|------|--|------------------|--------|-----------|-----------|-------------------------|-------------|
| 4 | COMBINATION METER | WHITE | | 11 10 9 8 7 6 31 30 29 28 27 26 | Signal Name | GROUND | RUN START | POWER GND | BUCKLE (SEATBELT) SW | AIRBAG CONT |
| . M24 | | | | 34 13 7 12 7 22 7 22 | Color of Wire | GR | W/G | В | ^ | SB |
| Connector No. | Connector Name | Connector Color | H.S. | 20 19 18 17 16 15 40 39 38 37 36 35 | Terminal No. | 13 | 16 | 23 | 24 | 37 |

| Connector No. | M16 |
|-----------------------------|------------------|
| Connector Name WIRE TO WIRE | WIRE TO WIRE |
| Connector Color WHITE | WHITE |
| H.S. | 12 11 10 9 8 7 7 |

| <u> </u> | 3 2 1 | 7 8 6 |] | Signal Name | ı |
|----------|-------|------------|---|------------------|-----|
| _ | 6 5 4 | 12 11 10 9 | | Color of Wire | O/W |
| FE. | SH | | | erminal No. | Ç |

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

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| | | | | | | | | | | | | | | | | | Connector No. M77 | | Connector Name BAG MODULE (SERVICE REPLACEMENT) | Connector Color YELLOW | -1 | 《 | (4 3 2 1) | | Color of | Terminal No. Wire Signal Name | 1 Y/R – | 2 Y/G – | 3 Y/B | - X | |
|------------------|--------------|---------------|-----------------|----------|----------|---|------------|-------------------|------------------|-------------|-------|-----|---------|-------------|---------|---------|-------------------|-----------------|---|------------------------|----|------|---------------|---|-------------------------------------|---|-------------------------------------|---------|---------------------------------------|-----|--|
| Signal Name | AS1 (-) | AS2 (+) | AS2 (-) | ECZS (+) | ECZS (-) | GND | AIRBAG W/L | SEATBELT REMINDER | CUT OFF TELLTALE | CAN-H | CAN-L | | | | | | N longing | Olginal Ivallie | ı | | | | | | | | | | | | |
| Color of Wire | Y/G | Y/B | > | 8 | В | SHIELD | SB | re | 0 | ٦ | ۵ | | | | | | Color of | Wire | > | | | | | | | | | | | | |
| Terminal No. | 7 | 8 | 6 | 18 | 19 | 22 | 23 | 24 | 25 | 69 | 09 | | | | | | Toring No | | 707 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | Γ | | | | | | | | | | | |
| SISONOVIG OVE | SENSOR UNIT | YELLOW | | | 2 5 4 3 | 23 24 22 | 60 59 25 1 | | | signal Name | IGN | GND | DR1 (+) | DR1/DR2 (-) | DR2 (+) | AS1 (+) | | WIRE TO WIRE | ITE | | | 2 : | 101 87 1/3 87 | 213 200 193 183 173 163 153 143 133 123 113 | 30J 29J 28J 27J 26J 25J 24J 23J 22J | 141 401 201 301 301 371 361 341 321 321 321 331 | 50J 49J 48J 47J 46J 45J 44J 43J 42J | | 10 10 10 10 10 10 10 10 | | 75J 74J 73J 72J 71J 801 79J 78J 77J 76J |
| | | _ |] [| | 8 9 7 6 | 19 | 18 | | Color of | Wire | M/R | В | Y/R | > | Y/G | Y/R | o. M40 | | olor WHITE | | | | | 21J 20J 19J | 307 297 | 141 401 301 | 500 490 | 100 | 100 LTa | | |
| nnector No. | nnector Name | nnector Color | [[| | H.S. | <u> - </u> | <u> </u> | J | 4 | rminai No. | - | 2 | က | 4 | 5 | 9 | nnector No. | nnector Name | nnector Color | | | H.S. | | | | | | | | | |

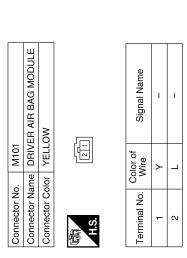
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SRS AIR BAG CONTROL SYSTEM

| | | | | | 4 0 | | |
|--------------------|--------------------------------------|------------------------|------------------------|------------|------------------------------|-----|-------------|
| 5 | Connector Name FRONT PASSENGER | AIR BAG MODULE | LOW | | Signal Name | - | 1 |
| . M105 | me FRC | AIR | lor YEL | | Color of Wire | Y/R | \ \ \ |
| Connector No. | Connector Na | | Connector Color YELLOW | 原列 H.S. | Terminal No. Color of Wire | 1 | ٥ |
| | | | | | | | |
| | Connector Name DRIVER AIR BAG MODULE | 3E | | | Signal Name | ı | I |
| | ш | ∣⋍ | | C 1 11 | | | |
| Connector No. M103 | ne DRIVEF | Connector Color ORANGE | | 4 4 | Terminal No. Wire | æ | * |

| Signal Name | | |
|-------------------|-----|-----|
| Signal | • | ' |
| Color of Wire | H/Y | 5// |
| Terminal No. Wire | 1 | 2 |





| Connector No. |). E29 | |
|-----------------|------------------|--------------|
| Connector Name | | WIRE TO WIRE |
| Connector Color | olor YELLOW | WO |
| 所 H.S. | 2 - | 4 |
| Terminal No. | Color of Wire | Signal Name |
| 2 | SHIELD | ı |
| 3 | В | ı |
| 4 | > | 1 |

| Connector No. |). E4 | |
|-----------------|------------------|-------------------|
| Connector Name | | CRASH ZONE SENSOR |
| Connector Color | olor YELLOW | MO |
| | | |
| | | |
| H.S. | | D) |
| | | |
| Terminal No. | Color of Wire | Signal Name |
| 1 | M | I |
| 2 | В | ı |

| Connector Name |
|------------------|
| Connector Color |
| |
| Color of Wire |
| |
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| Connector No. |). B10 | |
|-----------------|------------------|---------------------------------|
| Connector Name | | FRONT LH SIDE AIR BAG MODULE |
| Connector Color | olor YELLOW | OW |
| 语. H.S. | - | |
| Terminal No. | Color of Wire | Signal Name |
| 1 | ٨ | 1 |
| 2 | Y/B | ı |

| Signal Name | LH BUCKLE SW INPUT | S-LH1 (+) | S-LH1 (-) | C-LH1 (+) | C-LH1 (-) | SATELLITE LH (+) | SATELLITE LH (-) | GND |
|------------------|--------------------|-----------|-----------|-----------|-----------|------------------|------------------|--------|
| Color of Wire | 0 | > | Y/B | > | Y/G | BR | ٨ | SHIELD |
| Terminal No. | 30 | 33 | 34 | 37 | 38 | 49 | 20 | 56 |

| | . No. B9 | Name AIR BAG DIAGNOSIS SENSOR UNIT | Color YELLOW | 33 34 38 37 | Color of Signal Name Signal Name | Y P-LH1 (+) | Y/B P-LH1 (-) |
|---|---------------|---------------------------------------|-----------------|-------------|----------------------------------|-------------|---------------|
| ŀ | o. | ame | olor | | | Ĺ | > |
| | Connector No. | Connector Name | Connector Color | 原 H.S. | Terminal No. | 12 | 13 |

| _ | _ | | $\overline{}$ | |
|---|-----|--|---------------|---|
| | A/B | | B15 | Connector Name LH SIDE AIR BAG (SATELLITE) SENSOR |
| | _ | | · No. | · Name |
| | 2 | | Connector No. | Connector |

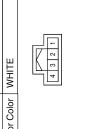
| _ | Connector Name LH SIDE AIR BAG | Connector No. B15 | B15 IN SIDE AIR BAG (SATELLITE) SENSC | Connector No. Connector Narr Connector Colo |
|---|---|--|---------------------------------------|---|
| | (SATELLITE) SENSOR Connector Color YELLOW | Connector Name LH SIDE AIR BAG (SATELLITE) SENSOR Connector Color YELLOW | | |

| | > | c |
|-------------------------------------|------------------|-----------------|
| ı | BR | - |
| Signal Na | Color of Wire | Terminal No. |
| -0 | | 所 H.S. |
| MO: | or YELLOW | Connector Color |
| LH SIDE AIR BAG (SATELLITE) SENS | | Connector Name |

| Connector Name PRE-TENSIONER (CREW CAB) Connector Color YELLOW | |
|--|--|
|--|--|

| Æ | Signal Na | 1 | 1 |
|------|------------------|---|-----|
| | Color of Wire | Υ | Y/B |
| H.S. | Terminal No. | 1 | 2 |

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



| Signal Nam | Ι | _ |
|------------------|---|---|
| Color of Wire | 0 | В |
| Terminal No. | 1 | 2 |

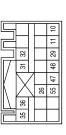
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| ſſ | | | | | | | | | | | | | | | |
|---|-----------------------------------|--|--|---------------|---------------|-----------------------------------|-----------------|---|------------------|-----|-------------|------|-------|------|---|
| O WIRE | 11 21 31 44 51 64 71 81 91 100 | 11.0 12.0 13.0 14.4 15.4 16.4 17.1 18.1 19.1 20.0 21.1 22.0 23.1 24.1 25.1 25.1 27.1 28.2 29.8 30.0 31.1 22.2 23.2 34.1 25.1 | 71.1 72.1 73.1 74.1 75.1 76.1 77.1 78.1 79.1 80.1 | Signal Name | | O WIRE | | | Signal Name | ı | 1 | ı | I | I | |
| B69 wire To WHITE | 1.1 2.1 6.1 7.1 | (1.0 12.0 13.0 14.0 22.0 22.0 22.0 23 | 71 72 76 77 76 76 77 | Color of Wire | B107 | ne WIRE 1 | or WHITE | 4 8 8 7 7 8 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | Color of Wire | | PT | J//G | > 0 | 25 | |
| Connector No. B69 Connector Name WIRE TO WIRE Connector Color WHITE | H.S. | | | Terminal No. | Connector No. | Connector Name WIRE TO WIRE | Connector Color | 哥 H.S. | Terminal No. | - | 2 | ო | 4 1 | S | |
| B38 LH SIDE CURTAIN AIR BAG MODULE YELLOW | | Signal Name | | | | RH SIDE CURTAIN AIR BAG MODULE | M | | Signal Name | ı | ı | | | | I |
| - | 2 | Color of Wire Y/G | | | B82 | l | _ | | Color of Wire | > | Y/B | | | | |
| Connector No. Connector Name Connector Color | 明.S. | Terminal No. | | | Connector No. | Connector Name | Connector Color | 南 H.S. | Terminal No. | - | 2 | - | | | |
| | | | | | | | | | | | • | , | | | |
| B16 WIRE TO WIRE WHITE | | Signal Name | | | | WIRE TO WIRE | 8 | | Signal Name | 1 | ı | | | | |
| | 4 8 6 7 7 9 | Color of Wire Y/B | | | B78 | | or YELLOW | <u>-</u> | Color of Wire | Y/B | > | | | | |
| Connector No. Connector Name Connector Color | H.S. | Terminal No. | | | Connector No. | Connector Name | Connector Color | 明.S. | Terminal No. | - | 2 | | | | |
| | | | | | | | | | | , | | ABI | HIA04 | 17GB | |

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| Terminal No. Wire | Color of Wire | Signal Name |
|-------------------|------------------|--------------------|
| 56 | A/B | ODS INPUT |
| 29 | ٦ | RH BUCKLE SW INPUT |
| 31 | Y/B | S-RH1 (+) |
| 32 | ٨ | S-RH1 (-) |
| 35 | Υ | C-RH1 (+) |
| 36 | Y/B | C-RH1 (-) |
| 47 | Μ | SATELLITE RH (+) |
| 48 | В | SATELLITE RH (-) |
| 55 | SHIELD | GND |
| | | |





Signal Name

Color of Wire

Terminal No.

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

= 10









| Signal Name | l | I | |
|------------------|---|---|--|
| Color of Wire | 7 | В | |
| Terminal No. | - | 2 | |

| 9 2 | Connector No. B127 |
|-----|--------------------|
|-----|--------------------|



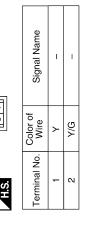
| DIZO | |
|---------------------------------|--|
| FRONT RH SIDE AIR BAG MODULE | |
| YELLOW | |
| 2- | |





| B114 | SATELLITE) SENSOR | YELLOW | |
|------------|-------------------|--------------|--|
| nector No. | nnector Name | nector Color | |





| Signal Nan | 1 | _ | |
|------------------|-----|----------|--|
| Color of Wire | Y/B | \ | |
| Terminal No. | - | 2 | |

| Signal Name | 1 | 1 | |
|------------------|---|---|--|
| Color of Wire | Μ | В | |
| Terminal No. | 1 | 7 | |

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| B157 WIRE TO WIRE YELLOW | | Signal Name | ı | _ | | | | |
|--|------------|-------------------|-----|-----|-----|---|----|---|
| B157 ne WIRE | 2 1 | Color of Wire | Y/B | Α | | | | |
| Connector No. B157 Connector Name WIRE TO Connector Color YELLOW | 原面 H.S. | Terminal No. | - | 2 | | | | |
| | | | | | • | 1 | | |
| B137 BELT TENSION SENSOR (CREW CAB) WHITE | | Signal Name | 1 | ı | ı | | | |
| . B137 me BELT (CRE lor WHIT | | Color of Wire | P | ŋ | _ | | | |
| Connector No. B137 Connector Name BELT T (CREW Connector Color WHITE | H.S. | Terminal No. Wire | - | 2 | ဇ | | | |
| | | | | | | | | |
| TO WIRE | | Signal Name | ı | I | I | ı | ı | ı |
| me WIRE | 8 7 6 7 | Color of Wire | ŋ | Y/B | W/R | В | LG | _ |
| Connector Name WIRE TO WIRE Connector Color WHITE | 原列 H.S. | Terminal No. Wire | - | 2 | 4 | 2 | 9 | 8 |

| | | | i | | | | | | | | | |
|---------------|----------------|-----------------|---|----------|-------|------------------|---|-----|-----|---|----|---|
| 51 | WIRE TO WIRE | WHITE | | м | 6 7 8 | Signal Name | I | _ | 1 | ı | _ | 1 |
| B351 | | | | | 2 | Color of Wire | G | Y/B | W/R | m | ГG | _ |
| Connector No. | Connector Name | Connector Color | | E SH | | Terminal No. | - | 2 | 4 | 2 | 9 | 8 |

| | TO WIRE | ш | 0 | Signal Name | - |
|---------------|-----------------------------|-----------------|---|------------------|-----|
| B162 | WIRE | WHITE | 2 3 4 9 9 1 | Color of Wire | W/R |
| | me | 흐 | | O | |
| Connector No. | Connector Name WIRE TO WIRE | Connector Color | H.S. | Terminal No. | 10 |

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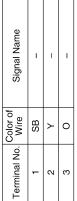
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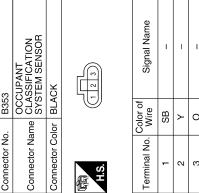
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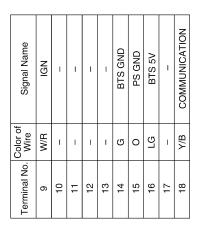
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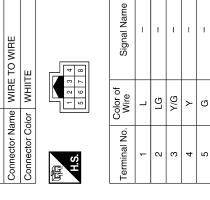
| Signal Name | ı | 1 | I | BTS SIGNAL | GND |
|------------------|---|---|---|------------|-----|
| Color of Wire | ı | - | 1 | L | В |
| Terminal No. | - | 2 | 3 | 4 | 5 |

PS SIGNAL PS 5V

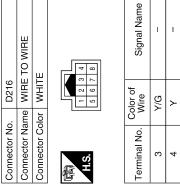
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| | D302 | WIRE TO WIRE | WHIITE | 2 3 7 7 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 |
|--|---------------|-----------------------------|-----------------|---|
| | Connector No. | Connector Name WIRE TO WIRE | Connector Color | H.S. |



| o. D216 | Connector Name WIRE TO WIRE | Connector Color WHITE | 8 7 3 9 4 8 4 |
|---------------|-----------------------------|-----------------------|---------------|
| Connector No. | Connector N | Connector C | H.S. |



| Connector No. |). D210 | |
|-----------------|------------------|---|
| Connector Name | | FRONT LH SEAT BELT PRE-TENSIONER (KING CAB) |
| Connector Color | olor YELLOW | .ow |
| 所 H.S. | | A |
| Terminal No. | Color of Wire | Signal Name |
| 1 | ٨ | 1 |
| 2 | 9/A | 1 |

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





| Color of Wire | ГG | В | 7 |
|------------------|----|---|---|
| Terminal No. | 1 | 2 | 3 |

Signal Name

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



| ā | Signal Name | I | 1 |
|------|------------------|---|------|
| | Color of Wire | Υ | J-J/ |
| H.S. | Terminal No. | 1 | 2 |

SRC-81 Revision: December 2012 2013 Frontier

SYMPTOM DIAGNOSIS

SRS AIR BAG SYSTEM

"AIR BAG" Warning Lamp Does Not Turn Off

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DIAGNOSTIC PROCEDURE 7

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-3</u>, "For Frontal Collision" or <u>SR-5</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 SR-23, "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

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DIAGNOSTIC PROCEDURE 8

1. CHECK METER FUSE

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

Is the fuse blown?

YES >> GO TO 2

NO >> GO TO 3

2.REPLACE METER FUSE AND CHECK AGAIN

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

Does the fuse blow again?

YES >> Replace harness.

NO >> Inspection End.

3.check harness connections between air bag diagnosis sensor unit and combina-

SRS AIR BAG SYSTEM

< SYMPTOM DIAGNOSIS >

TION METER

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

<u>Do the harness or connectors have any visible damage?</u>

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</u>, "Removal and Installation".

NO >> Replace the combination meter. Refer to MWI-88, "Removal and Installation".

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PASSENGER SEAT BELT WARNING SYSTEM

< SYMPTOM DIAGNOSIS >

PASSENGER SEAT BELT WARNING SYSTEM

Seat Belt Warning System Does Not Function

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1.SEAT BELT WARNING LIGHT

Turn ignition switch ON.

Does the seat belt warning lamp come ON?

YES >> GO TO 2

NO

- >> Check 10A fuse [No. 14, located in the fuse block (J/B)].
 - · Check seat belt buckle switch LH.
 - · Check harness between combination meter and seat belt buckle switch LH.
 - Check combination meter. Refer to MWI-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

NO

- >> Check seat belt buckle switch LH.
 - · Check harness between combination meter and seat belt buckle switch LH.

3. OCCUPANT CLASSIFICATION SYSTEM

Have a helper sit in the passenger seat.

Does the seat belt warning lamp go ON?

YES >> GO TO 4

NO

- >> Check occupant classification system. Refer to SRC-10, "Occupant Classification System (OCS)".
 - Check harness between occupant classification control unit and air bag diagnosis sensor unit.

4. SEAT BELT BUCKLE RH

Fasten the seat belt buckle RH.

Does the seat belt warning lamp go OFF?

YES >> System OK.

NO

- >> Check seat belt buckle switch RH.
 - Check harness between seat belt buckle switch RH and air bag diagnosis sensor unit.
 - Replace air bag diagnosis sensor unit. Refer to SR-23, "Removal and Installation".

PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least 3 minutes before performing any service.

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

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

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

Occupant Classification System Precaution

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

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