

SECTION **SRC**

SRS AIRBAG CONTROL SYSTEM

A
B
C
D
E
F
G
SRC
I
J
K
L
M
N
O
P

CONTENTS

BASIC INSPECTION	B0001 DRIVER AIR BAG MODULE	3	22
DIAGNOSIS AND REPAIR WORK FLOW	DTC Logic	3	22
Work Flow	Diagnosis Procedure	3	22
SYSTEM DESCRIPTION	B0002 DRIVER AIR BAG MODULE	6	25
SRS AIR BAG SYSTEM	DTC Logic	6	25
System Diagram	Diagnosis Procedure	6	25
System Description	B0010 PASSENGER AIR BAG MODULE	6	28
Component Parts Location	DTC Logic	8	28
Component Description	Diagnosis Procedure	8	28
OCCUPANT CLASSIFICATION SYSTEM	B0011 PASSENGER AIR BAG MODULE	10	30
System Diagram	DTC Logic	10	30
System Description	Diagnosis Procedure	10	31
Component Parts Location	B0020 SIDE AIR BAG MODULE	10	32
Component Description	DTC Logic	11	32
PASSENGER SEAT BELT WARNING SYSTEM	Diagnosis Procedure	12	32
System Diagram	B0021 CURTAIN AIR BAG MODULE	12	34
System Description	DTC Logic	12	34
Component Parts Location	Diagnosis Procedure	12	34
Component Description	B0028 SIDE AIR BAG MODULE	13	36
DIAGNOSIS SYSTEM (AIRBAG)	DTC Logic	14	36
Description	Diagnosis Procedure	14	36
On Board Diagnosis Function	B0029 CURTAIN AIR BAG MODULE	14	38
CONSULT Function	DTC Logic	19	38
DTC/CIRCUIT DIAGNOSIS	Diagnosis Procedure	20	38
U1000 CAN COMM CIRCUIT	B0091 SATELLITE SENSOR	20	40
Description	DTC Logic	20	40
DTC Logic	Diagnosis Procedure	20	41
Diagnosis Procedure	B0094 CRASH ZONE SENSOR	20	42
U1010 CONTROL UNIT (CAN)	DTC Logic	21	42
DTC Logic	Diagnosis Procedure	21	43
Diagnosis Procedure	B0096 SATELLITE SENSOR	21	44
	DTC Logic	21	44
	Diagnosis Procedure	21	45

B0099 SATELLITE SENSOR	46	DTC Logic	58
DTC Logic	46	Diagnosis Procedure	58
Diagnosis Procedure	47	B142A IGN VOLTAGE	59
B00A0 OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT	48	DTC Logic	59
DTC Logic	48	Diagnosis Procedure	59
Diagnosis Procedure	49	B1430 SEAT BELT PRE-TENSIONER	61
B00D5 FRONT PASSENGER AIR BAG OFF INDICATOR	50	DTC Logic	61
DTC Logic	50	Diagnosis Procedure	61
Diagnosis Procedure	51	B1431 SEAT BELT PRE-TENSIONER	63
B1400, B1401, B1402, B1403, B1404, B1405 AIR BAG DIAGNOSIS SENSOR UNIT	52	DTC Logic	63
DTC Logic	52	Diagnosis Procedure	63
Diagnosis Procedure	52	ECU DIAGNOSIS INFORMATION	65
B1406, B1407, B1408, B1409, B1410 AIR BAG DIAGNOSIS SENSOR UNIT	53	DIAGNOSIS SENSOR UNIT	65
DTC Logic	53	DTC Index	65
Diagnosis Procedure	53	Wiring Diagram - SRS AIR BAG CONTROL SYSTEM -	68
B1411, B1412, B1413, B1414, B1415 AIR BAG DIAGNOSIS SENSOR UNIT	54	SYMPTOM DIAGNOSIS	76
DTC Logic	54	SRS AIR BAG WARNING LAMP DOES NOT TURN OFF	76
Diagnosis Procedure	54	Diagnosis Procedure	76
B1416, B1417, B1418, B1419, B1420 AIR BAG DIAGNOSIS SENSOR UNIT	55	SRS AIR BAG WARNING LAMP DOES NOT TURN ON	77
DTC Logic	55	Diagnosis Procedure	77
Diagnosis Procedure	55	PASSENGER SEAT BELT WARNING SYSTEM	78
B1421 FRONTAL COLLISION DETECTION ...	56	Diagnosis Procedure	78
DTC Logic	56	PRECAUTION	79
Diagnosis Procedure	56	PRECAUTIONS	79
B1422 SIDE COLLISION DETECTION	57	Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	79
DTC Logic	57	Service	79
Diagnosis Procedure	57		
B1425 REAR COLLISION DETECTION	58		

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

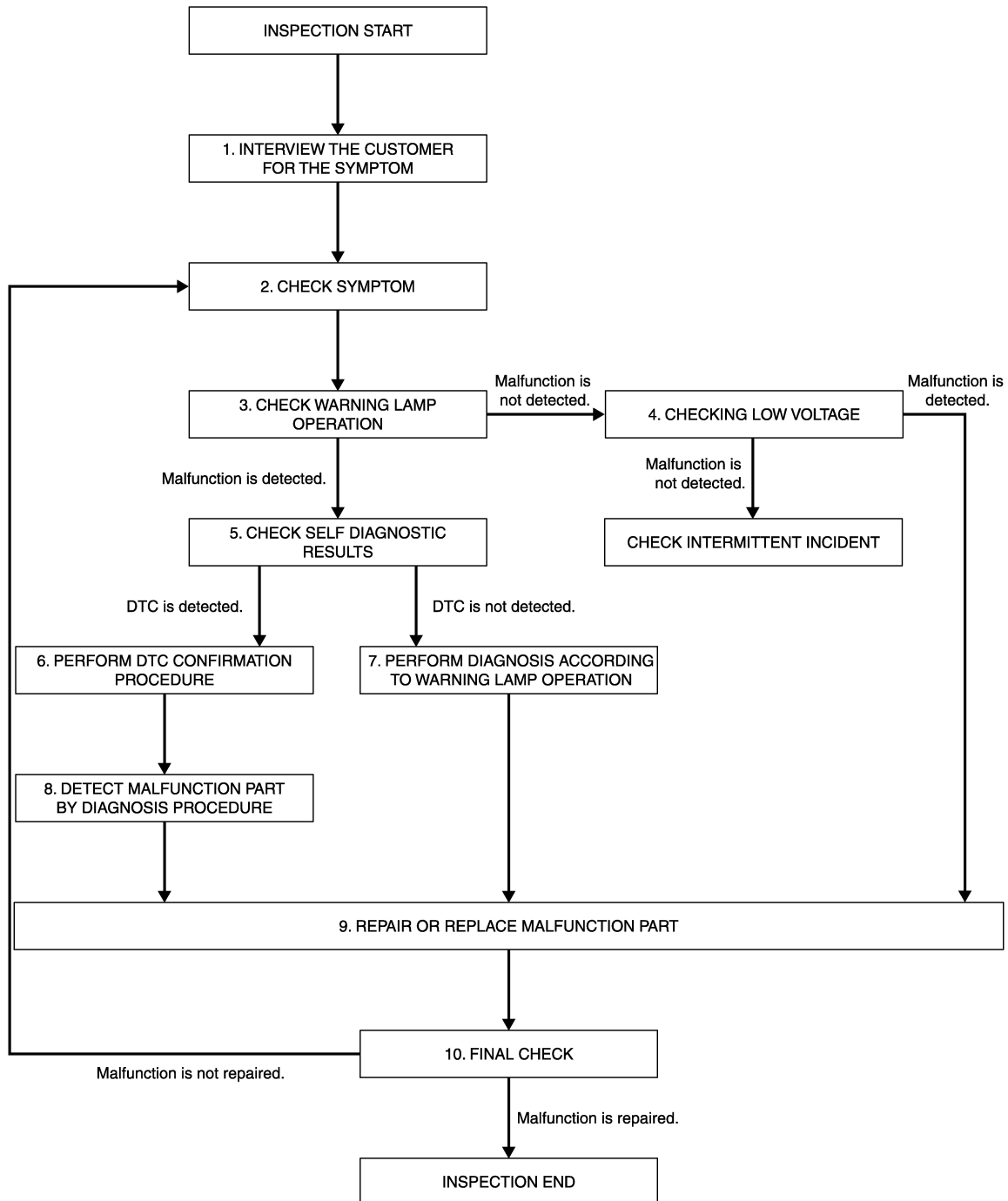
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000008285262

OVERALL SEQUENCE



A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

SRC

DETAILED FLOW

JMHIA1324GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1. INTERVIEW THE CUSTOMER FOR THE SYMPTOM

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

>> GO TO 2.

2. CHECK SYMPTOM

Check the symptom from the customer information.

>> GO TO 3.

3. CHECK WARNING LAMP OPERATION

Check air bag warning lamp operation in the user mode. Refer to [SRC-14, "On Board Diagnosis Function"](#).

Are any malfunction detected?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK LOW VOLTAGE

Check low voltage. Refer to [PG-3, "How to Handle Battery"](#).

Are any malfunction detected?

YES >> GO TO 9.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

5. CHECK SELF DIAGNOSTIC RESULTS

Check self diagnostic result with CONSULT or diagnosis mode.

If it is impossible to switch to diagnosis mode, follow the same procedure that DTC is not detected.

NOTE:

Perform the following procedure if DTC is detected.

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

Is DTC detected?

YES >> GO TO 6.

NO >> GO TO 7.

6. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the DTC.

>> GO TO 8.

7. PERFORM DIAGNOSIS ACCORDING TO WARNING LAMP OPERATION

1. Check air bag warning lamp operation in the user mode. Refer to [SRC-14, "On Board Diagnosis Function"](#).
2. Perform Diagnosis Procedure for the air bag warning lamp operation. Refer to [SRC-14, "On Board Diagnosis Function"](#) (USER MODE).

>> GO TO 9.

8. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the DTC.

>> GO TO 9.

9. REPAIR OR REPLACE THE MALFUNCTION PART

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

Repair or replace the malfunctioning part.

>> GO TO 10.

10.FINAL CHECK

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

Is the malfunction repaired?

YES >> INSPECTION END

NO >> GO TO 2.

A

B

C

D

E

F

G

SRC

I

J

K

L

M

N

O

P

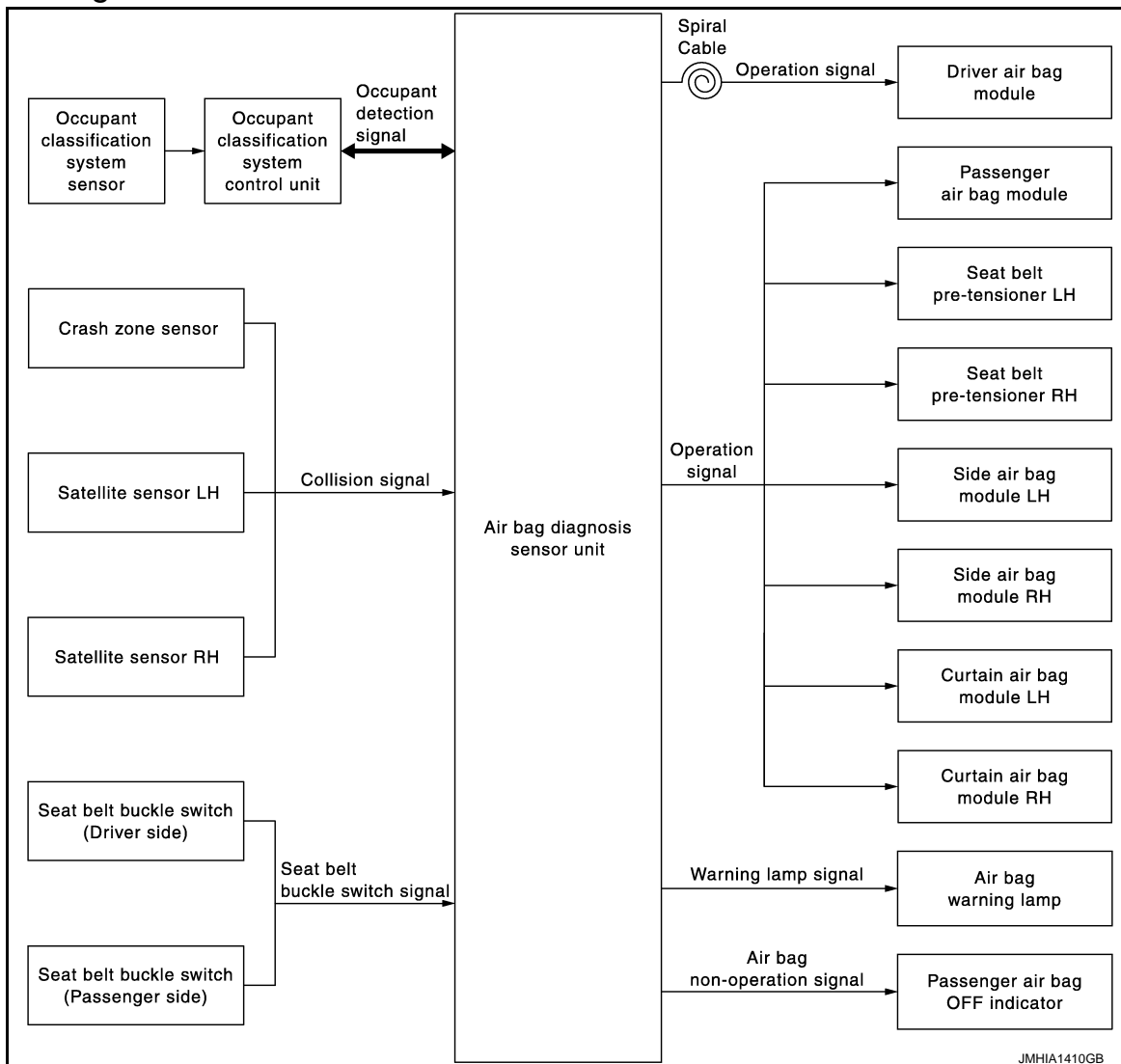
SRS AIR BAG SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

SRS AIR BAG SYSTEM

System Diagram



System Description

INFOID:000000008285264

Supplemental Restraint System (SRS) activates air bag module and seat belt pre-tensioner when it detects a frontal collision or a side collision that is more than the specified limit. Together with other safety devices, it reduces the impact that occupant receives when vehicle collision occurs.

Air bag sensor unit supplies power supply to air bag module and pre-tensioner seat belt when deceleration that is more than the specified limit is detected by G sensor in air bag diagnosis sensor unit, crash zone sensor, or satellite sensor. Air bag module is composed of electric igniter (squib), filter, pyrotechnic material, and gas generating material. When air bag module receives a signal from air bag sensor unit, air bag module ignites pyrotechnic material using electric igniter (squib) so that gas generating material generates high temperature nitrogen gas. The gas through filter activates air bag and seat belt pre-tensioner.

This SRS Air Bag System has the following functions.

- Detects a collision and supplies the energy for deploying air bag and seat belt pre-tensioner.
- Detects electrical malfunction in SRS Air Bag System and Seat Belt Pre-tensioner System, records malfunction code, and blinking air bag warning lamp.
- Detects and records the deployment of air bag and seat belt pre-tensioner, and turns ON air bag warning lamp.
- Indicates malfunctioning portion with blinking times of air bag warning lamp in diagnosis mode.

SRS AIR BAG SYSTEM

< SYSTEM DESCRIPTION >

- Indicates the malfunction record by CONSULT.
- Suppress the deployment of front passenger air bag when front passenger seat is empty or is occupied by a child or a child-seat.
- When passenger seat is occupied by a child or a child seat, turns ON front passenger air bag OFF indicator.
- When judges that passenger seat is occupied by an adult or a child and passenger seat belt is not fastened, turns ON seat belt warning lamp.

COLLISION MODE

- The operation of supplemental restraint system is different depending on the collision modes applications. For example, the driver air bag module, front passenger air bag module and front seat belt pre-tensioner are activated in a frontal collision but not in a side collision.
- SRS configurations that are activated for some collision modes are as per the following.

SRS configuration	Frontal collision	Rear collision	Left side collision	Right side collision	Roll over
Driver air bag module	×	—	—	—	—
Front passenger air bag module	×	—	—	—	—
Front LH seat belt pre-tensioner	×	—	—	—	×
Front RH seat belt pre-tensioner	×	—	—	—	×
Front LH side air bag module	—	—	×	—	—
Front RH side air bag module	—	—	—	×	—
LH side curtain air bag module	—	—	×	—	×
RH side curtain air bag module	—	—	—	×	×
Collision detection output function	×	×	×	×	×

×: Apply

—: Not apply

A
B
C
D
E
F
G
I
J
K
L
M
N
O
P

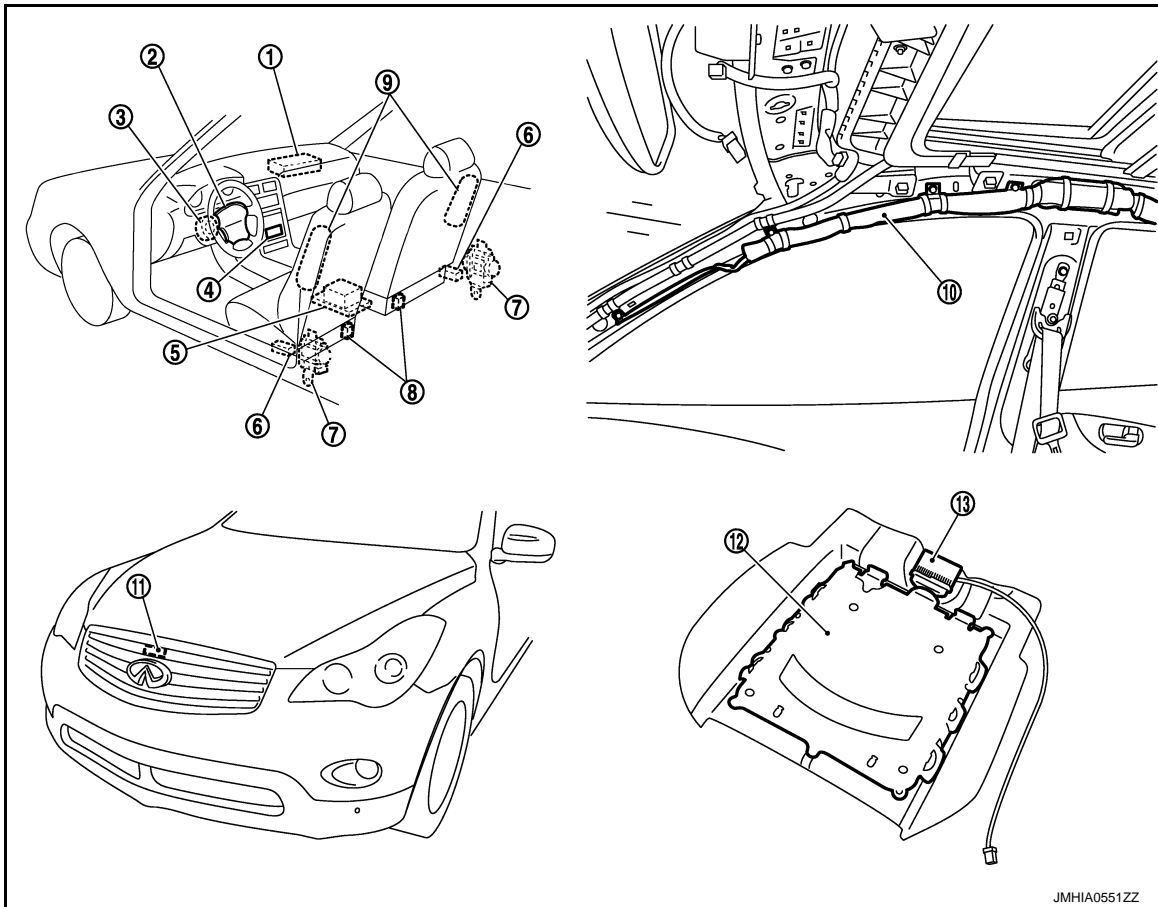
SRC

SRS AIR BAG SYSTEM

< SYSTEM DESCRIPTION >

Component Parts Location

INFOID:000000008285265



JMHIA0551ZZ

- | | | |
|---|---|--|
| 1. Front passenger air bag module | 2. Driver air bag module | 3. Combination switch (Spiral cable) |
| 4. Front passenger air bag OFF indicator | 5. Air bag diagnosis sensor unit | 6. Satellite sensor (LH/RH) |
| 7. Front seat belt pre-tensioner (LH/RH) | 8. Seat belt buckle switch (Driver side/Passenger side) | 9. Front side air bag module (LH/RH) |
| 10. Side curtain air bag module | 11. Crash zone sensor | 12. Occupant classification system seat sensor mat |
| 13. Occupant classification system control unit | | |

Component Description

INFOID:000000008285266

Component	Function
Air bag diagnosis sensor unit	Detects a collision and supplies power supply for deployment to air bag module and pre-tensioner seat belt.
Air bag module <ul style="list-style-type: none"> • Driver • Passenger • Front side • Side curtain 	Receives signal from air bag diagnosis sensor unit and deploys air bag.
Front seat belt pre-tensioner	Receives signal from air bag diagnosis sensor unit and deploys pre-tensioner seat belt.
Seat belt buckle switch	Controls deployment timing depending on the seat belt condition that is fastened or unfastened.
Crash zone sensor	Transmits signal to air bag diagnosis sensor unit when a frontal collision occurs.

SRS AIR BAG SYSTEM

< SYSTEM DESCRIPTION >

Component	Function
Satellite sensor (LH/RH)	Transmits signal to air bag diagnosis sensor unit when a side collision occurs.
Occupant classification system	Detects front passenger seat occupant and judges whether or not deploys front passenger seat air bag.
Combination meter (air bag warning lamp)	Indicates air bag malfunctioning and deployment by blinking and illuminating air bag warning lamp.
Front passenger air bag OFF indicator	Indicates whether or not front passenger air bag is in activation mode subject to the judgement by occupant classification system.
Combination switch (spiral cable)	Supplies power supply to driver air bag module on steering wheel.

A

B

C

D

E

F

G

SRC

I

J

K

L

M

N

O

P

OCCUPANT CLASSIFICATION SYSTEM

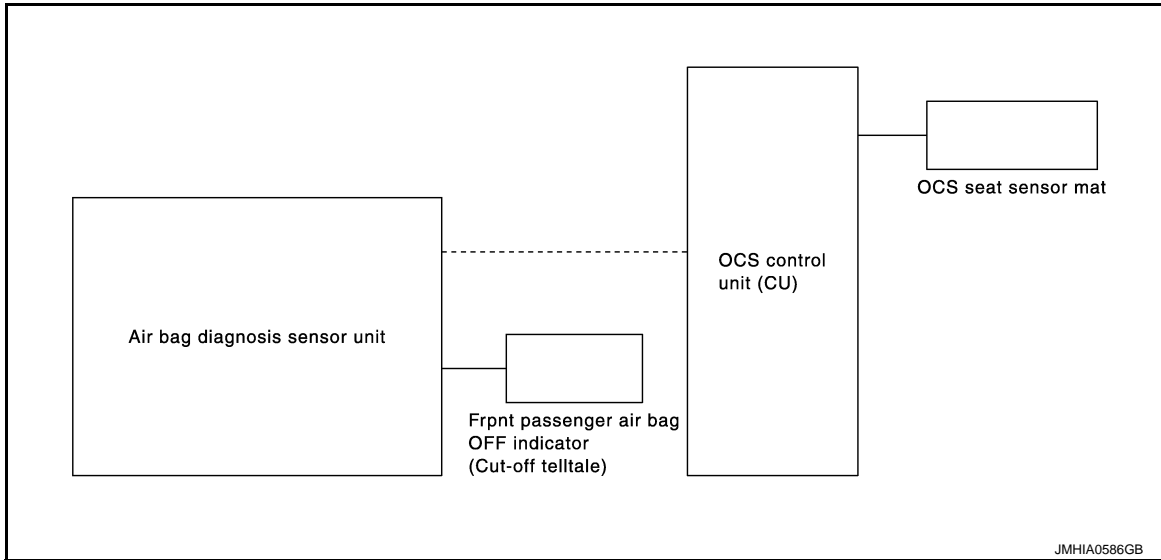
< SYSTEM DESCRIPTION >

OCCUPANT CLASSIFICATION SYSTEM

System Diagram

INFOID:000000008285267

OCCUPANT CLASSIFICATION SYSTEM



System Description

INFOID:000000008285268

THIS OCCUPANT CLASSIFICATION SYSTEM HAS THE FOLLOWING FUNCTIONS

1. Suppress the deployment of front passenger air bag when front passenger seat is empty, or when occupied by child and child-seat. Turns ON front passenger air bag OFF indicator when front passenger seat is occupied by child-seat and child.
2. Indicates malfunction portion with blinking times of air bag warning lamp in diagnosis mode.
3. Indicates the malfunctioning record by CONSULT.

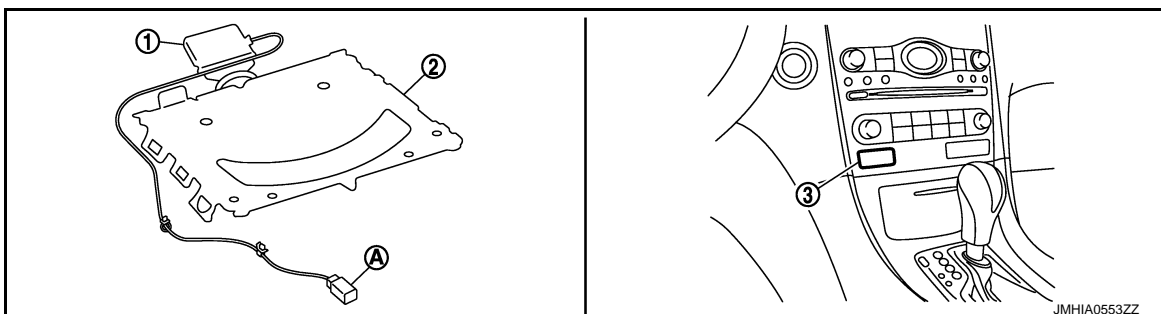
NOTE:

Operation of air bag diagnosis sensor unit when air bag diagnosis sensor unit receives information from occupant classification system.

Status (front passenger seat)	Passenger air bag	Front passenger air bag OFF indicator	Air bag warning lamp	Seat belt warning lamp (when front passenger seat is unbuckled)
Empty	Suppress	OFF	OFF	OFF
Child/ child-seat	Suppress	ON	OFF	ON
Adult	Enable to deploy	OFF	OFF	ON
Malfunction	Suppress	ON	Blinking	OFF

Component Parts Location

INFOID:000000008285269



JMHIA0553ZZ

OCCUPANT CLASSIFICATION SYSTEM

< SYSTEM DESCRIPTION >

- 1. Occupant classification system control unit
- 2. Occupant classification system seat sensor mat
- 3. Front passenger air bag OFF indicator
- A. Occupant classification system control unit harness connector

A

B

Component Description

INFOID:000000008285270

C

Component parts	Outline of function
Seat sensor mat	Detects if the passenger seat is empty or occupied
Occupant classification system control unit	Transmits the passenger seat status (occupied or empty) to air bag diagnosis sensor unit
Front passenger air bag OFF indicator	Turns the front passenger air bag OFF indicator lamp ON when the front passenger seat is occupied by a child or a child-seat
Air bag diagnosis sensor unit	Performs the deploy judgement of passenger air bag based on the information from occupant classification system control unit

D

E

F

G

SRC

I

J

K

L

M

N

O

P

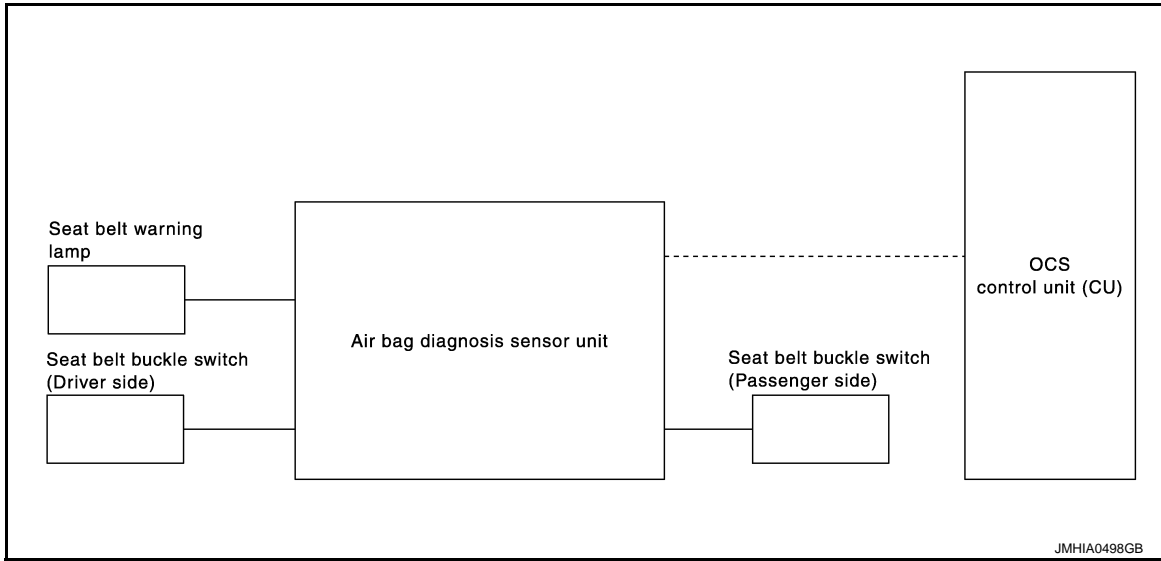
PASSENGER SEAT BELT WARNING SYSTEM

< SYSTEM DESCRIPTION >

PASSENGER SEAT BELT WARNING SYSTEM

System Diagram

INFOID:000000008285271



System Description

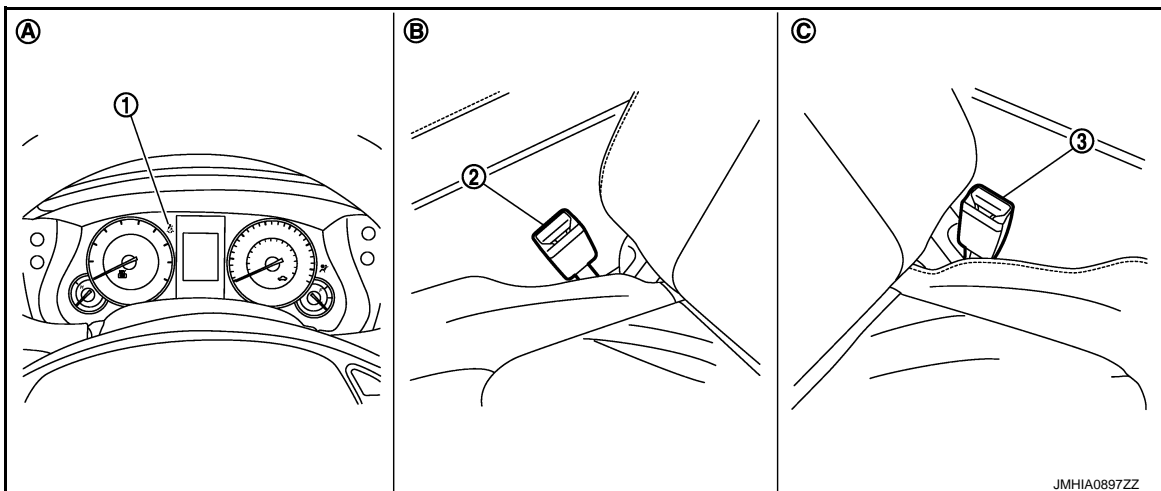
INFOID:000000008285272

- Turns ON seat belt warning lamp, when the occupant classification system judges adult or child in the front passenger seat and the passenger seat belt buckle switch is OFF.
- Operation of air bag diagnosis sensor unit when air bag diagnosis sensor unit receives information from occupant classification system.
- In addition, seat belt warning lamp illuminates, when the driver side seat belt is not fasten. This does not relate to the air bag diagnosis sensor unit.

Status (front passenger seat)	Seat belt warning lamp (When front passenger seat is unbuckled)
Empty	OFF
Child/ child-seat	ON
Adult	ON
Malfunction	OFF

Component Parts Location

INFOID:000000008285273



PASSENGER SEAT BELT WARNING SYSTEM

< SYSTEM DESCRIPTION >

- | | | | |
|---|--|---|---|
| 1. Combination meter (Seat belt warning lamp) | 2. Seat belt buckle switch (Driver side) | 3. Seat belt buckle switch (Passenger side) | A |
| A. Combination meter | B. Driver side | C. Passenger side | |

Component Description

INFOID:000000008285274

Component parts	Outline of function
Seat belt buckle switch (Driver side)	Detects if the seat belt buckle switch (driver side) is fastened or unfastened
Seat belt buckle switch (Passenger side)	Detects if the seat belt buckle switch (passenger side) is fastened or unfastened
Seat belt warning lamp	Turns the seat belt warning lamp ON when the seat belt is unfastened
Occupant classification system control unit	Judges the passenger seat condition based on the information from occupant classification system control unit
Seat sensor mat	Detects if the passenger seat is empty or occupied
Air bag diagnosis sensor unit	Turns ON seat belt warning lamp based on the information from occupant classification system control unit
Front passenger air bag OFF indicator	Turns the front passenger air bag OFF indicator lamp ON when the front passenger seat is occupied by a child or a child seat

SRC

DIAGNOSIS SYSTEM (AIRBAG)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (AIRBAG)

Description

INFOID:000000008748334

CAUTION:

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

DIAGNOSIS FUNCTION

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

×: Application, —: Not application

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

On Board Diagnosis Function

INFOID:000000008748335

ON-BOARD DIAGNOSIS

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

- USER MODE
- DIAGNOSIS MODE

METHOD OF STARTING

- User mode is a mode for ordinary use. When a malfunction of SRS air bag is detected, SRS air bag warning lamp blinks to warn the user.
- Diagnosis mode enables malfunctioning system to be checked according to the number of blinks.
- User mode or Diagnosis mode changes from diagnosis mode when changing operation is performed.
- In user mode, when SRS air bag warning lamp is not blinking, changing to diagnosis mode by ignition switch operation is not possible.
- In diagnosis mode, SRS air bag warning lamp may turn ON after ignition switch operation more than 7 seconds, but it is possible to change the status from diagnosis mode to user mode by ignition switch operation after 7 seconds.
- When multiple systems malfunction is detected, all of the malfunctions are displayed in Diagnosis mode.

Procedure to Change Diagnosis Mode

1. Turn ignition switch from OFF to ON.
2. SRS air bag lamp turns ON for 7 seconds, then turn ignition switch OFF within 2 seconds after the lamp turns OFF.
3. After turning ignition switch OFF, wait for 3 seconds or more.
4. Repeat operation 1 to 3 for 2 times so that operation 1 to 3 is repeated for 3 times in total.
5. Turn ignition switch from OFF to ON. Diagnosis mode changes.

CAUTION:

- **In Diagnosis mode, if the system is normal and “PAST“ of “Self Diagnostic Result“ is indicated, always perform “ERASE“ of “Self Diagnostic Result“ using CONSULT.**
- **When “ERASE“ of “Self Diagnostic Result“ is performed using CONSULT, the mode changes automatically from Diagnosis mode to User mode.**

USER MODE

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

How to Read Air Bag Warning Lamp

1. Turn the ignition switch from OFF to ON, and check that the air bag warning lamp blinks.

DIAGNOSIS SYSTEM (AIRBAG)

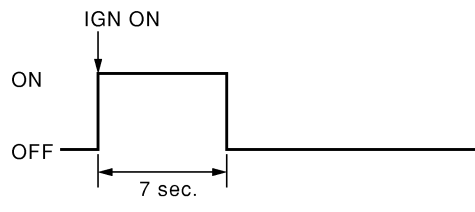
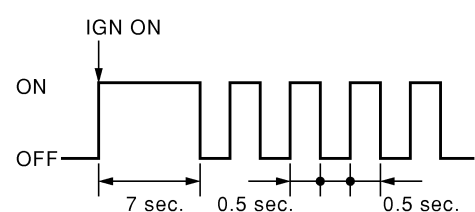
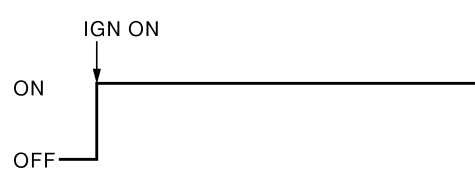
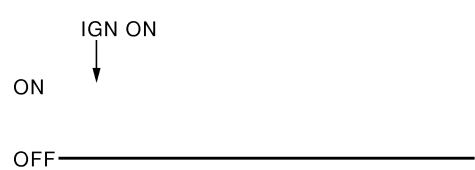
< SYSTEM DESCRIPTION >

2. Compare the air bag warning lamp blinking pattern with the examples.

Air Bag Warning Lamp Examples

A
B
C
D
E
F
G
I
J
K
L
M
N
O
P

SRC

Air bag warning lamp operation (user mode)	SRS condition	Reference item
 <p style="text-align: right;">SHIA0011E</p>	<ul style="list-style-type: none"> No malfunction is detected No further action is necessary 	<p>Change to Diagnosis mode is not possible when the system is normal.</p>
 <p style="text-align: right;">SHIA0012E</p>	<p>The system is malfunctioning</p>	<p>Refer to SRC-19, "CONSULT Function" or "DIAGNOSIS MODE"</p>
 <p style="text-align: right;">SHIA0013E</p>	<ul style="list-style-type: none"> Air bag is deployed Seat belt pre-tensioner is deployed 	<p>Refer to SRC-56, "Diagnosis Procedure", SRC-57, "Diagnosis Procedure"</p>
 <p style="text-align: right;">SHIA0014E</p>	<ul style="list-style-type: none"> Air bag diagnosis sensor unit is malfunctioning Air bag power supply circuit is malfunctioning Air bag warning lamp circuit is malfunctioning 	<p>Refer to SRC-76, "Diagnosis Procedure"</p> <p>Battery voltage is low (less than 9 V, or 16 V or more)</p> <p>Refer to "BATTERY LOW VOLTAGE DETECTION" or "BATTERY HIGH VOLTAGE DETECTION"</p>

Occurrence of Intermittent Malfunction

Air bag warning lamp blinks in user mode when an intermittent malfunction occurs. Air bag warning lamp turns OFF when system returns to normal status.

Battery Low Voltage Detection

Air bag diagnosis sensor unit warns the driver by turning air bag warning lamp ON when air bag diagnosis sensor unit detects battery low voltage. Air bag warning lamp turns ON when a voltage value at which air bag diagnosis sensor unit cannot operate normally (9 V or less) is detected for 10 seconds or more. After starting

DIAGNOSIS SYSTEM (AIRBAG)

< SYSTEM DESCRIPTION >

to turn ON, air bag warning lamp turns OFF when air bag diagnosis sensor unit detects the normal value of battery voltage for 10 seconds or more.

The mode cannot be switched to diagnosis mode by ignition switch while air bag warning lamp turns ON due to this cause.

Battery High Voltage Detection

Air bag diagnosis sensor unit warns the driver by turning air bag warning lamp ON when air bag diagnosis sensor unit detects battery low voltage. Air bag warning lamp turns ON when a voltage value at which air bag diagnosis sensor unit cannot operate normally (16 V or more) is detected for 3 seconds or more. After starting to turn ON, air bag warning lamp turns OFF when air bag diagnosis sensor unit detects the normal value of battery voltage for 3 seconds or more.

The mode cannot be switched to diagnosis mode by ignition switch while air bag warning lamp turns ON due to this cause.

DIAGNOSIS MODE

The diagnosis mode can only be switched when a malfunction is detected in the user mode. Malfunctioning system is indicated according to blinking pattern of air bag warning lamp.

How to Read Air Bag Warning Lamp

1. Follow the procedures of "PROCEDURE TO CHANGE DIAGNOSIS MODE", and switch to the diagnosis mode.
2. Turn ignition switch ON. Check the blinking pattern of air bag warning lamp.
There are 4 blinking patterns for the air bag warning lamp as per the following items.
 - Front air bag system: Two 1.5 second blinks followed by a 0.5 second blink repeated.
 - Side air bag system: Three 1.5 second blinks followed by a 0.5 second blink repeated.
 - Air bag control unit system: 3 second blink followed by a 0.5 second blink repeated.
 - Sensor system: Two 3 second blinks followed by a 0.5 second blink repeated.

Front air bag system

Number of 0.5 second blinks	Malfunctioning items
1	Driver air bag module
2	Passenger air bag module
3	Seat belt pre-tensioner LH
4	Seat belt pre-tensioner RH

Side air bag system

Number of 0.5-second blinks	Malfunctioning items
1	Side air bag module LH
2	Side air bag module RH
3	Curtain air bag module LH
4	Curtain air bag module RH

Air bag control unit system

Number of 0.5 second blinks	Malfunctioning items
1	Collision detection
2	Air bag diagnosis sensor unit
3	Front passenger air bag indicator
4	Occupant classification system control unit

Sensor system

Number of 0.5 second blinks	Malfunctioning items
1	Crash zone sensor
2	Satellite sensor LH
3	Satellite sensor RH
12	Satellite sensor

How to Erase Self-diagnostic Result

After completing the indicated repair, check the system condition in Diagnosis mode and perform "ERASE" of "Self Diagnostic Result" using CONSULT.

DIAGNOSIS SYSTEM (AIRBAG)

< SYSTEM DESCRIPTION >

EXAMPLE OF AIR BAG WARNING LAMP OPERATION IN THE DIAGNOSIS MODE

System Normal

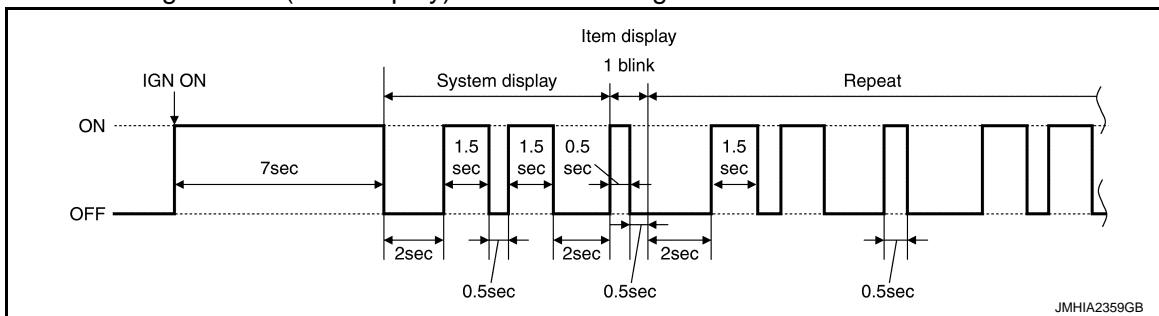
When the system is normal and "PAST" displayed in "Self Diagnostic Result".



Single System Malfunction

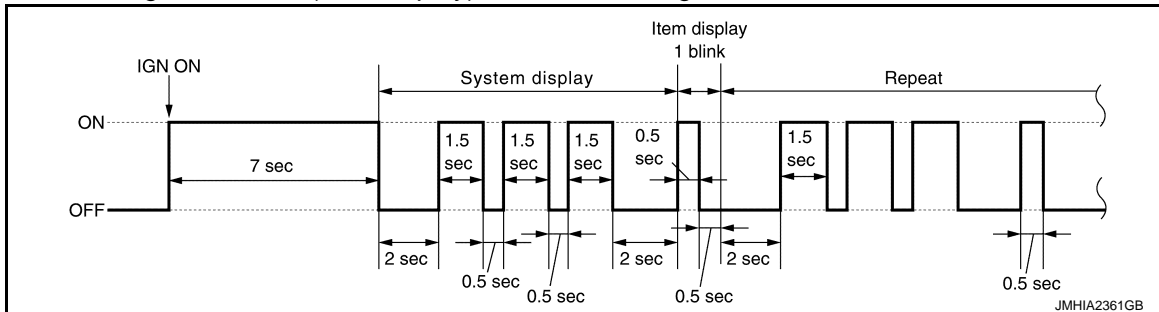
- Front air bag system

When driver air bag module (Item display) is malfunctioning.



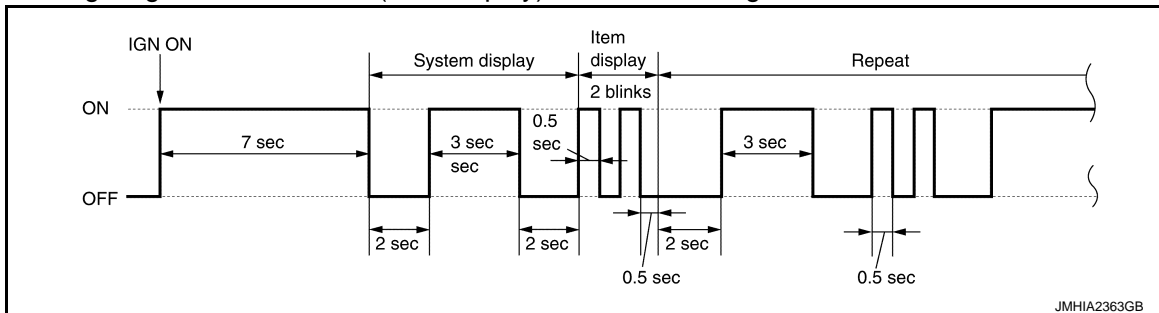
- Side air bag system

When side air bag module LH (Item display) is malfunctioning.



- Air bag control unit system

When air bag diagnosis sensor unit (Item display) is malfunctioning.



- Sensor system

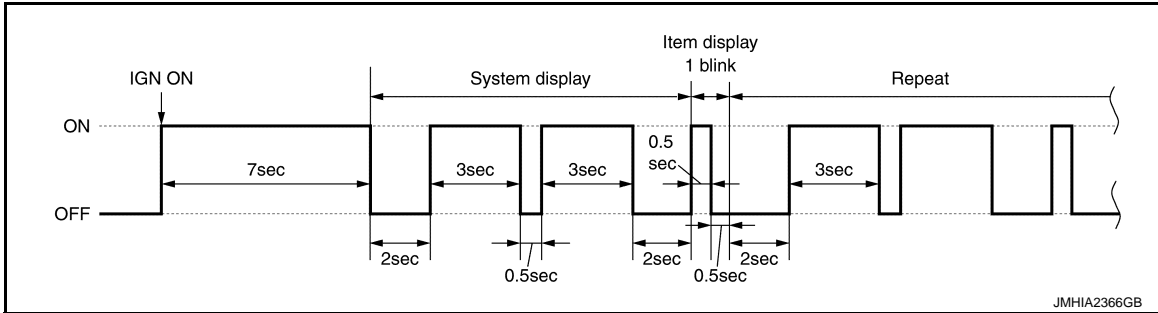
A
B
C
D
E
F
G
I
J
K
L
M
N
O
P

SRC

DIAGNOSIS SYSTEM (AIRBAG)

< SYSTEM DESCRIPTION >

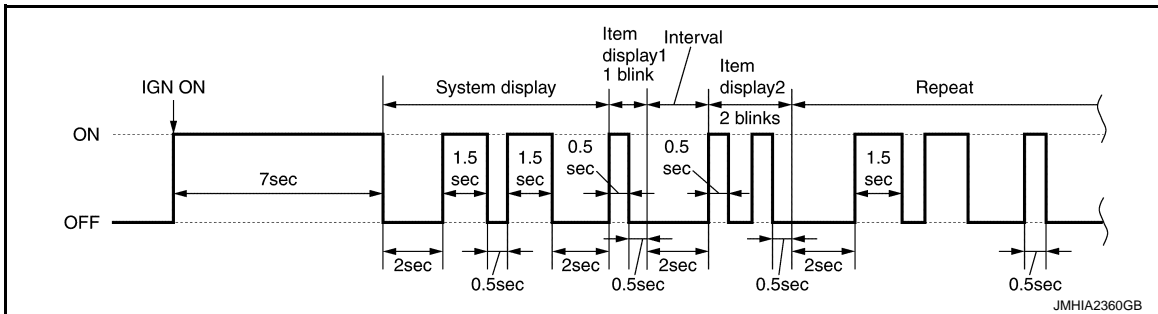
When crash zone sensor (Item display) is malfunctioning.



Multiple Systems Malfunction

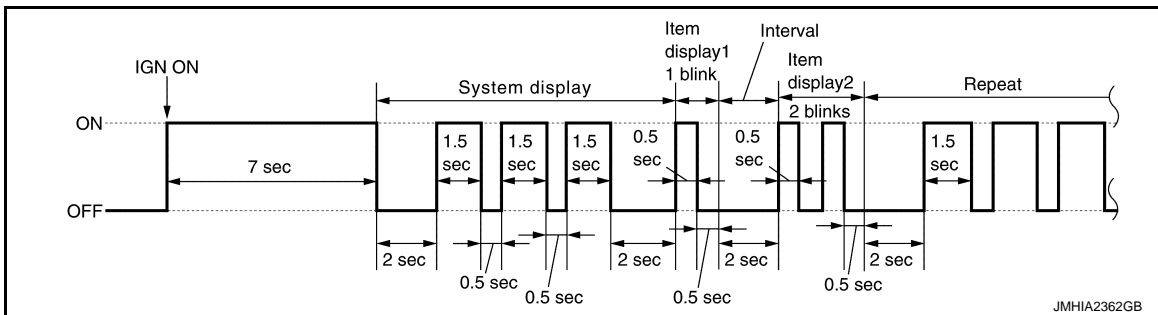
- Front air bag system

When driver air bag module (Item display 1) and passenger air bag module (Item display 2) are malfunctioning.



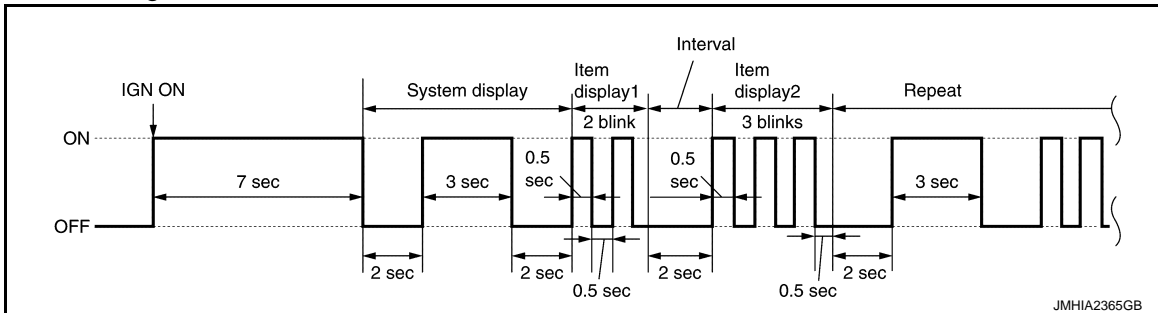
- Side air bag system

When side air bag module LH (Item display 1) and side air bag module LH (Item display 2) are malfunctioning.



- Air bag control unit system

When air bag diagnosis sensor unit (Item display 1) and front passenger air bag indicator (Item display 2) are malfunctioning.

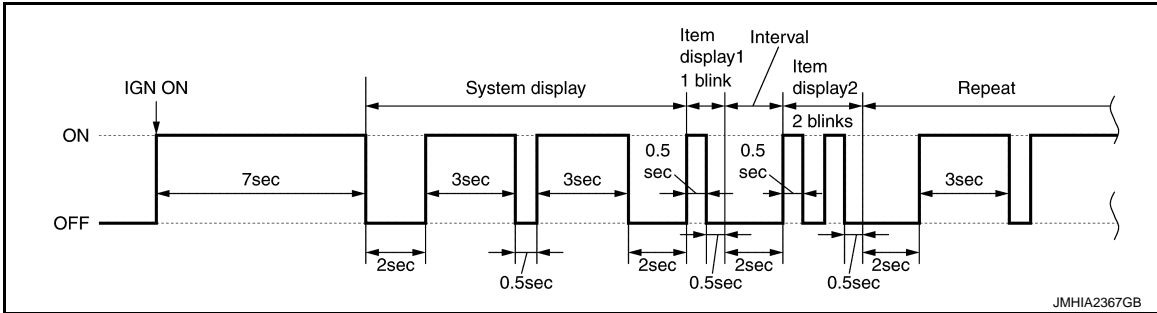


- Sensor system

DIAGNOSIS SYSTEM (AIRBAG)

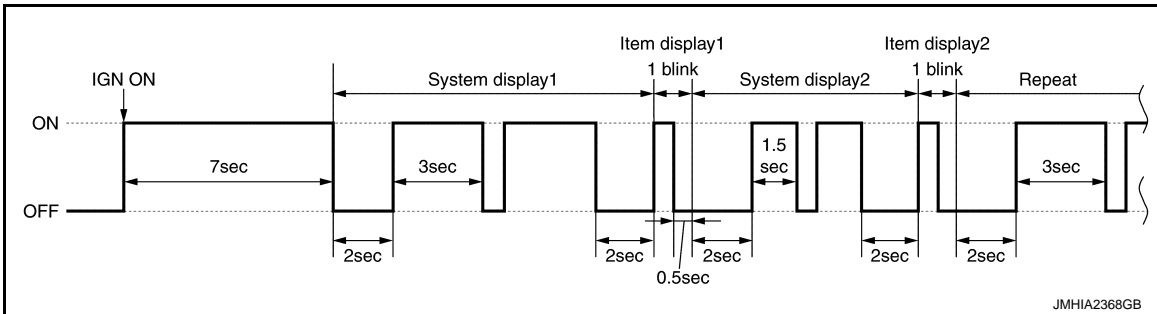
< SYSTEM DESCRIPTION >

When crash zone sensor (Item display 1) and B-pillar satellite sensor LH (Item display 2) are malfunctioning.



- Sensor system and front air bag system

When crash zone sensor system (Item display 1) and driver air bag module (Item display 2) are malfunctioning.



CONSULT Function

INFOID:000000008748336

SRC

APPLICATION ITEM

CONSULT performs the following functions.

Diagnosis mode	Description
Self Diagnostic Result	<ul style="list-style-type: none"> • Self-diagnosis result is displayed. • "No DTC" is displayed when repair is completed by part replacement or other operations. • "SELF-DIAG RESULT [MEMORY]" is displayed until "Erase" performed.
Data Monitor	This item is displayed, but cannot be supported.
ECU Identification	Air bag diagnosis sensor unit ECU discriminated number (identification number) or part number is displayed. Air bag diagnosis sensor unit has individual ECU discriminated number (identification number) or part number based on model and equipment.
TROUBLE DIAG RECORD	With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed on CONSULT screen.

SELF-DIAG RESULT

Refer to [SRC-65. "DTC Index"](#).

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000008748337

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to [LAN-25, "CAN System Specification Chart"](#).

DTC Logic

INFOID:000000008748338

DTC DETECTION LOGIC

DTC	CONSULT screen items	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When air bag diagnosis sensor unit cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

Diagnosis Procedure

INFOID:000000008748339

1. PERFORM SELF DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check "SELF-DIAG RESULT [CAN]".

Is DTC "U1000" displayed?

- YES >> Refer to [LAN-16, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to [GI-42, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:000000008748340

DTC DETECTION LOGIC

DTC	CONSULT screen items	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	Air bag diagnosis sensor unit detected internal CAN communication circuit malfunction.	Air bag diagnosis sensor unit

Diagnosis Procedure

INFOID:000000008748341

1. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

When DTC "U1010" is detected, replace Air bag diagnosis sensor unit.

>> Replace Air bag diagnosis sensor unit. Refer to [SR-25. "Removal and Installation"](#).

A
B
C
D
E
F
G
I
J
K
L
M
N
O
P

SRC

B0001 DRIVER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0001 DRIVER AIR BAG MODULE

DTC Logic

INFOID:000000008748342

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause	
B0001	DRIVER AIRBAG MODULE [Driver Frontal Stage 1 Deployment Control (Subfault)]	[OPEN]	Driver air bag module circuit is open (including the spiral cable)	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of driver air bag module • Internal malfunction of air bag diagnosis sensor unit
		[VB-SHORT]	Driver air bag module circuit is shorted to power supply circuit (including the spiral cable)	<ul style="list-style-type: none"> • Connection malfunction or short circuit to power supply of harness and connector • Internal malfunction of driver air bag module • Internal malfunction of air bag diagnosis sensor unit
		[GND-SHORT]	Driver air bag module circuit is shorted to ground (including the spiral cable)	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of driver air bag module • Internal malfunction of air bag diagnosis sensor unit
		[SHORT]	Driver air bag module circuits are shorted to each other (including the spiral cable)	<ul style="list-style-type: none"> • Connection malfunction or short circuit of harness and connector • Internal malfunction of driver air bag module • Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-22, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748343

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

B0001 DRIVER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 2.
 NO >> Replace harness connector.

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 3.
 NO >> Replace wiring harness.

3.CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

- [OPEN] >>GO TO 4.
 [VB-SHORT] >>GO TO 8.
 [GND-SHORT]>>GO TO 5.
 [SHORT] >>GO TO 6.

4.CHECK SPIRAL CABLE CIRCUIT 1

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

Driver air bag module		Combination switch (spiral cable)		Continuity
Connector	Terminal	Connector	Terminal	
M302	10	M35	28	Existed
	11		30	
M301	9		29	
	12			

Is the inspection result normal?

- YES >> GO TO 9.
 NO >> Replace combination switch (spiral cable). Refer to [SR-14, "Removal and Installation"](#).

5.CHECK SPIRAL CABLE CIRCUIT 2

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

Driver side air bag module		Ground	Continuity
Connector	Terminal		
M302	10	Ground	Not existed
	11		
M301	9		
	12		

Is the inspection result normal?

- YES >> GO TO 9.
 NO >> Replace combination switch (spiral cable). Refer to [SR-14, "Removal and Installation"](#).

6.CHECK SPIRAL CABLE CIRCUIT 3

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

B0001 DRIVER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

Combination switch (spiral cable)			Continuity
Connector	Terminal		
M302	10	11	Not existed
M301	9	12	

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace combination switch (spiral cable). Refer to [SR-14, "Removal and Installation"](#).

7. CHECK SPIRAL CABLE CIRCUIT 4

Check continuity between combination switch (spiral cable) terminals.

Combination switch (spiral cable)			Continuity
Connector	Terminal		
M35	28	30	Not existed
	29		

Is the inspection result normal?

YES >> GO TO 9.

NO >> Replace combination switch (spiral cable). Refer to [SR-14, "Removal and Installation"](#).

8. REPLACE COMBINATION SWITCH (SPIRAL CABLE)

1. Replace combination switch (spiral cable). Refer to [SR-14, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-22, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 9.

NO >> INSPECTION END

9. REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to [SR-11, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-22, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 10.

NO >> INSPECTION END

10. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-22, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B0002 DRIVER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0002 DRIVER AIR BAG MODULE

DTC Logic

INFOID:000000008748344

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause	
B0002	DRIVER AIRBAG MODULE 2 [Driver Frontal Stage 2 Deployment Control (Sub-fault)]	[OPEN]	Driver air bag module circuit is open (including the spiral cable)	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of driver air bag module • Internal malfunction of air bag diagnosis sensor unit
		[VB-SHORT]	Driver air bag module circuit is shorted to power supply circuit (including the spiral cable)	<ul style="list-style-type: none"> • Connection malfunction or short circuit to power supply of harness and connector • Internal malfunction of driver air bag module • Internal malfunction of air bag diagnosis sensor unit
		[GND-SHORT]	Driver air bag module circuit is shorted to ground (including the spiral cable)	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of driver air bag module • Internal malfunction of air bag diagnosis sensor unit
		[SHORT]	Driver air bag module circuits are shorted to each other (including the spiral cable)	<ul style="list-style-type: none"> • Connection malfunction or short circuit of harness and connector • Internal malfunction of driver air bag module • Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-25, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748345

WARNING:

B0002 DRIVER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3. CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

[OPEN] >> GO TO 4.

[VB-SHORT] >> GO TO 8.

[GND-SHORT] >> GO TO 5.

[SHORT] >> GO TO 6.

4. CHECK SPIRAL CABLE CIRCUIT 1

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

Driver air bag module		Combination switch (spiral cable)		Continuity
Connector	Terminal	Connector	Terminal	
M302	10	M35	28	Existed
	11		30	
M301	9		29	
	12			

Is the inspection result normal?

YES >> GO TO 9.

NO >> Replace combination switch (spiral cable). Refer to [SR-14, "Removal and Installation"](#).

5. CHECK SPIRAL CABLE CIRCUIT 2

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

Driver side air bag module		Ground	Continuity
Connector	Terminal		
M302	10	Ground	Not existed
	11		
M301	9		
	12		

Is the inspection result normal?

YES >> GO TO 9.

B0002 DRIVER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace combination switch (spiral cable). Refer to [SR-14. "Removal and Installation"](#).

6. CHECK SPIRAL CABLE CIRCUIT 3

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

Combination switch (spiral cable)			Continuity
Connector	Terminal		
M302	10	11	Not existed
M301	9	12	

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace combination switch (spiral cable). Refer to [SR-14. "Removal and Installation"](#).

7. CHECK SPIRAL CABLE CIRCUIT 4

Check continuity between combination switch (spiral cable) terminals.

Combination switch (spiral cable)			Continuity
Connector	Terminal		
M35	28	30	Not existed
	29		

Is the inspection result normal?

YES >> GO TO 9.

NO >> Replace combination switch (spiral cable). Refer to [SR-14. "Removal and Installation"](#).

8. REPLACE COMBINATION SWITCH (SPIRAL CABLE)

1. Replace combination switch (spiral cable). Refer to [SR-14. "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-25. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 9.

NO >> INSPECTION END

9. REPLACE DRIVER AIR BAG MODULE

1. Replace driver air bag module. Refer to [SR-11. "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-25. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 10.

NO >> INSPECTION END

10. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25. "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-25. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B0010 PASSENGER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0010 PASSENGER AIR BAG MODULE

DTC Logic

INFOID:000000008748346

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)		DTC detecting condition	Possible cause
B0010	ASSIST AIRBAG MODULE [Passenger Frontal Stage 1 Deployment Control (Sub- fault)]	[OPEN]	Passenger air bag mod- ule circuit is open	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of passen- ger air bag module • Internal malfunction of air bag di- agnosis sensor unit
		[VB-SHORT]	Passenger air bag mod- ule circuit is shorted to power supply circuit	<ul style="list-style-type: none"> • Connection malfunction or short circuit to power supply of harness and connector • Internal malfunction of passen- ger air bag module • Internal malfunction of air bag di- agnosis sensor unit
		[GND-SHORT]	Passenger air bag mod- ule circuit is shorted to ground	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of passen- ger air bag module • Internal malfunction of air bag di- agnosis sensor unit
		[SHORT]	Passenger air bag mod- ule circuits are shorted to each other	<ul style="list-style-type: none"> • Connection malfunction or short circuit of harness and connector • Internal malfunction of passen- ger air bag module • Internal malfunction of air bag di- agnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-28, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748347

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

B0010 PASSENGER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 2.
- NO >> Replace harness connector.

A

2.CHECK WIRING HARNESS

Check the wiring harness externals.

B

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Replace wiring harness.

C

3.REPLACE PASSENGER AIR BAG MODULE

1. Replace passenger air bag module. Refer to [SR-17. "Removal and Installation"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-28. "DTC Logic"](#).

D

Is DTC detected?

- YES >> GO TO 4.
- NO >> INSPECTION END

E

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25. "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-28. "DTC Logic"](#).

F

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

G

SRC

I

J

K

L

M

N

O

P

B0011 PASSENGER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0011 PASSENGER AIR BAG MODULE

DTC Logic

INFOID:000000008748348

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause	
B0011	ASSIST AIRBAG MODULE 2 [Passenger Frontal Stage 2 Deployment Control (Sub- fault)]	[OPEN]	Passenger air bag module circuit is open	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of passenger air bag module • Internal malfunction of air bag diagnosis sensor unit
		[VB-SHORT]	Passenger air bag module circuit is shorted to power supply circuit	<ul style="list-style-type: none"> • Connection malfunction or short circuit to power supply of harness and connector • Internal malfunction of passenger air bag module • Internal malfunction of air bag diagnosis sensor unit
		[GND-SHORT]	Passenger air bag module circuit is shorted to ground	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of passenger air bag module • Internal malfunction of air bag diagnosis sensor unit
		[SHORT]	Passenger air bag module circuits are shorted to each other	<ul style="list-style-type: none"> • Connection malfunction or short circuit of harness and connector • Internal malfunction of passenger air bag module • Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

Ⓟ With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

⊗ Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-31, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

B0011 PASSENGER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

Diagnosis Procedure

INFOID:000000008748349

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3. REPLACE PASSENGER AIR BAG MODULE

1. Replace passenger air bag module. Refer to [SR-17. "Removal and Installation"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-30. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25. "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-30. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

A
B
C
D
E
F
G
I
J
K
L
M
N
O
P

SRC

B0020 SIDE AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0020 SIDE AIR BAG MODULE

DTC Logic

INFOID:000000008748350

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause	
B0020	SIDE A/B MODULE LH [Left Side Airbag Deployment Control (Subfault)]	[OPEN]	Side air bag module LH circuit is open	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of side air bag module LH • Internal malfunction of air bag diagnosis sensor unit
		[VB-SHORT]	Side air bag module LH circuit is shorted to power supply circuit	<ul style="list-style-type: none"> • Connection malfunction or short circuit to power supply of harness and connector • Internal malfunction of side air bag module LH • Internal malfunction of air bag diagnosis sensor unit
		[GND-SHORT]	Side air bag module LH circuit is shorted to ground	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of side air bag module LH • Internal malfunction of air bag diagnosis sensor unit
		[SHORT]	Side air bag module LH circuits are shorted to each other	<ul style="list-style-type: none"> • Connection malfunction or short circuit of harness and connector • Internal malfunction of side air bag module LH • Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-32, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748351

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

B0020 SIDE AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 2.
NO >> Replace harness connector.

A

2.CHECK WIRING HARNESS

Check the wiring harness externals.

B

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Replace wiring harness.

C

3.REPLACE SIDE AIR BAG MODULE

1. Replace side air bag module LH. Refer to [SE-132. "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-32. "DTC Logic"](#).

D

Is DTC detected?

- YES >> GO TO 4.
NO >> INSPECTION END

E

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25. "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-32. "DTC Logic"](#).

F

Is DTC detected?

- YES >> GO TO 1.
NO >> INSPECTION END

G

SRC

I

J

K

L

M

N

O

P

B0021 CURTAIN AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0021 CURTAIN AIR BAG MODULE

DTC Logic

INFOID:000000008748352

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause	
B0021	CURTAIN A/B MODULE LH [Left Curtain Deployment Control 1 (Subfault)]	[OPEN]	Curtain air bag module LH circuit is open	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of curtain air bag module LH • Internal malfunction of air bag diagnosis sensor unit
		[VB-SHORT]	Curtain air bag module LH circuit is shorted to power supply circuit	<ul style="list-style-type: none"> • Connection malfunction or short circuit to power supply of harness and connector • Internal malfunction of curtain air bag module LH • Internal malfunction of air bag diagnosis sensor unit
		[GND-SHORT]	Curtain air bag module LH circuit is shorted to ground	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of curtain air bag module LH • Internal malfunction of air bag diagnosis sensor unit
		[SHORT]	Curtain air bag module LH circuits are shorted to each other	<ul style="list-style-type: none"> • Connection malfunction or short circuit of harness and connector • Internal malfunction of curtain air bag module LH • Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-34, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748353

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

B0021 CURTAIN AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 2.
- NO >> Replace harness connector.

A

2.CHECK WIRING HARNESS

Check the wiring harness externals.

B

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Replace wiring harness.

C

3.REPLACE CURTAIN AIR BAG MODULE

1. Replace curtain air bag module LH. Refer to [SR-19. "Removal and Installation"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-34. "DTC Logic"](#).

D

Is DTC detected?

- YES >> GO TO 4.
- NO >> INSPECTION END

E

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25. "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-34. "DTC Logic"](#).

F

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

G

SRC

I

J

K

L

M

N

O

P

B0028 SIDE AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0028 SIDE AIR BAG MODULE

DTC Logic

INFOID:000000008748354

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)		DTC detecting condition	Possible cause
B0028	SIDE A/B MODULE RH [Right Side Airbag Deployment Control 1 (Subfault)]	[OPEN]	Side air bag module RH circuit is open	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of side air bag module RH • Internal malfunction of air bag diagnosis sensor unit
		[VB-SHORT]	Side air bag module RH circuit is shorted to power supply circuit	<ul style="list-style-type: none"> • Connection malfunction or short circuit to power supply of harness and connector • Internal malfunction of side air bag module RH • Internal malfunction of air bag diagnosis sensor unit
		[GND-SHORT]	Side air bag module RH circuit is shorted to ground	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of side air bag module RH • Internal malfunction of air bag diagnosis sensor unit
		[SHORT]	Side air bag module RH circuits are shorted to each other	<ul style="list-style-type: none"> • Connection malfunction or short circuit of harness and connector • Internal malfunction of side air bag module RH • Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-36, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748355

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

B0028 SIDE AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 2.
NO >> Replace harness connector.

A

2.CHECK WIRING HARNESS

Check the wiring harness externals.

B

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Replace wiring harness.

C

3.REPLACE SIDE AIR BAG MODULE

1. Replace side air bag module RH. Refer to [SE-132, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-36, "DTC Logic"](#).

D

Is DTC detected?

- YES >> GO TO 4.
NO >> INSPECTION END

E

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-36, "DTC Logic"](#).

F

Is DTC detected?

- YES >> GO TO 1.
NO >> INSPECTION END

G

SRC

I

J

K

L

M

N

O

P

B0029 CURTAIN AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0029 CURTAIN AIR BAG MODULE

DTC Logic

INFOID:000000008748356

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause	
B0029	CURTAIN A/B MODULE RH [Right Curtain Deployment Control 1 (Subfault)]	[OPEN]	Curtain air bag module RH circuit is open	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of curtain air bag module RH • Internal malfunction of air bag diagnosis sensor unit
		[VB-SHORT]	Curtain air bag module RH circuit is shorted to power supply circuit	<ul style="list-style-type: none"> • Connection malfunction or short circuit to power supply of harness and connector • Internal malfunction of curtain air bag module RH • Internal malfunction of air bag diagnosis sensor unit
		[GND-SHORT]	Curtain air bag module RH circuit is shorted to ground	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of curtain air bag module RH • Internal malfunction of air bag diagnosis sensor unit
		[SHORT]	Curtain air bag module RH circuits are shorted to each other	<ul style="list-style-type: none"> • Connection malfunction or short circuit of harness and connector • Internal malfunction of curtain air bag module RH • Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-38, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748357

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

B0029 CURTAIN AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 2.
- NO >> Replace harness connector.

A

2.CHECK WIRING HARNESS

Check the wiring harness externals.

B

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Replace wiring harness.

C

3.REPLACE CURTAIN AIR BAG MODULE

1. Replace curtain air bag module RH. Refer to [SR-19. "Removal and Installation"](#)
2. Perform DTC confirmation procedure. Refer to [SRC-38. "DTC Logic"](#).

D

Is DTC detected?

- YES >> GO TO 4.
- NO >> INSPECTION END

E

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25. "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-38. "DTC Logic"](#).

F

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

G

SRC

I

J

K

L

M

N

O

P

B0091 SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B0091 SATELLITE SENSOR

DTC Logic

INFOID:000000008748358

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause	
B0091	B-PILLAR SAT SEN LH [Left Side Restraints Sensor 1 (Subfault)]	[RESET]	Reset malfunction of B-pillar satellite sensor LH	<ul style="list-style-type: none"> • Connection malfunction of harness or connector • Internal malfunction of B-pillar satellite sensor LH • Internal malfunction of air bag diagnosis sensor unit
		[COMM ERR]	Communication malfunction of B-pillar satellite sensor LH	
		[OPEN]	B-pillar satellite sensor LH circuit is open	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of B-pillar satellite sensor LH • Internal malfunction of air bag diagnosis sensor unit
		[UNMATCH]	B-pillar satellite sensor LH is out of the specified specification	Air bag diagnosis sensor unit and B-pillar satellite sensor LH is different from the part specified
		[OFFSET ERR]	Offset malfunction of B-pillar satellite sensor LH	<ul style="list-style-type: none"> • Internal malfunction of B-pillar satellite sensor LH • Internal malfunction of air bag diagnosis sensor unit
		[SELF-DIAG ERR]	Diagnosis malfunction of B-pillar satellite sensor LH	
		[LOWER LIMIT ERR]	Lower limit value malfunction of B-pillar satellite sensor LH	
		[UPPER LIMIT ERR]	Upper limit value malfunction of B-pillar satellite sensor LH	
[GND-SHORT]	B-pillar satellite sensor LH circuit is shorted to ground	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of B-pillar satellite sensor LH • Internal malfunction of air bag diagnosis sensor unit 		

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

Ⓟ With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

ⓧ Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

B0091 SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Refer to [SRC-41, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748359

WARNING:

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

1. CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

- [UNMATCH] >> GO TO 4.
Other than the above >> GO TO 2.

2. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Replace harness connector.

3. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace wiring harness.

4. REPLACE SATELLITE SENSOR

1. Replace B-pillar satellite sensor LH. Refer to [SR-23, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-40, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 5.
NO >> INSPECTION END

5. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-40, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 1.
NO >> INSPECTION END

A
B
C
D
E
F
G
SRC
I
J
K
L
M
N
O
P

B0094 CRASH ZONE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B0094 CRASH ZONE SENSOR

DTC Logic

INFOID:000000008748360

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause	
B0094	CRASH ZONE SENS [Center Frontal Restraints Sensor (Subfault)]	[RESET]	Reset malfunction of Crash zone sensor	<ul style="list-style-type: none"> • Connection malfunction of harness or connector • Internal malfunction of Crash zone sensor • Internal malfunction of air bag diagnosis sensor unit
		[COMM ERR]	Communication malfunction of Crash zone sensor	
		[OPEN]	Crash zone sensor circuit is open	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of Crash zone sensor • Internal malfunction of air bag diagnosis sensor unit
		[UNMATCH]	Crash zone sensor is out of the specified specification	Air bag diagnosis sensor unit and Crash zone sensor is different from the part specified
		[OFFSET ERR]	Offset malfunction of Crash zone sensor	<ul style="list-style-type: none"> • Internal malfunction of Crash zone sensor • Internal malfunction of air bag diagnosis sensor unit
		[SELF-DIAG ERR]	Diagnosis malfunction of Crash zone sensor	
		[LOWER LIMIT ERR]	Lower limit value malfunction of Crash zone sensor	
		[UPPER LIMIT ERR]	Upper limit value malfunction of Crash zone sensor	
		[GND-SHORT]	Crash zone sensor circuit is shorted to ground	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of Crash zone sensor • Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

☑ With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

☒ Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-43, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

B0094 CRASH ZONE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Diagnosis Procedure

INFOID:000000008748361

WARNING:

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

1. CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

- [UNMATCH] >>GO TO 4.
Other than the above >>GO TO 2.

2. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Replace harness connector.

3. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace wiring harness.

4. REPLACE CRASH ZONE SENSOR

1. Replace crash zone. Refer to [SR-21, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-42, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 5.
NO >> INSPECTION END

5. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-42, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 1.
NO >> INSPECTION END

A
B
C
D
E
F
G
I
J
K
L
M
N
O
P

SRC

B0096 SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B0096 SATELLITE SENSOR

DTC Logic

INFOID:000000008748362

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause	
B0096	B-PILLAR SAT SEN RH [Right Frontal Restraints Sensor 1([Subfault])	[RESET]	Reset malfunction of B-pillar satellite sensor RH	<ul style="list-style-type: none"> • Connection malfunction of harness or connector • Internal malfunction of B-pillar satellite sensor RH • Internal malfunction of air bag diagnosis sensor unit
		[COMM ERR]	Communication malfunction of B-pillar satellite sensor RH	
		[OPEN]	B-pillar satellite sensor RH circuit is open	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of B-pillar satellite sensor RH • Internal malfunction of air bag diagnosis sensor unit
		[UNMATCH]	B-pillar satellite sensor RH is out of the specified specification	Air bag diagnosis sensor unit and B-pillar satellite sensor RH is different from the part specified
		[OFFSET ERR]	Offset malfunction of B-pillar satellite sensor RH	<ul style="list-style-type: none"> • Internal malfunction of B-pillar satellite sensor RH • Internal malfunction of air bag diagnosis sensor unit
		[SELF-DIAG ERR]	Diagnosis malfunction of B-pillar satellite sensor RH	
		[LOWER LIMIT ERR]	Lower limit value malfunction of B-pillar satellite sensor RH	
		[UPPER LIMIT ERR]	Upper limit value malfunction of B-pillar satellite sensor RH	
		[GND-SHORT]	B-pillar satellite sensor RH circuit is shorted to ground	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of B-pillar satellite sensor RH • Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

Ⓟ With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

ⓧ Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

B0096 SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Refer to [SRC-45, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748363

WARNING:

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

1. CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

- [UNMATCH] >> GO TO 4.
Other than the above >> GO TO 2.

2. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Replace harness connector.

3. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace wiring harness.

4. REPLACE B-PILLAR SATELLITE SENSOR

1. Replace B-pillar satellite sensor RH. Refer to [SR-23, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-44, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 5.
NO >> INSPECTION END

5. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-44, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 1.
NO >> INSPECTION END

A
B
C
D
E
F
G
SRC
I
J
K
L
M
N
O
P

B0099 SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B0099 SATELLITE SENSOR

DTC Logic

INFOID:000000008748364

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause	
B0099	SATELLITE SENSOR [Roll Over Sensor (Sub-fault)]	[RESET]	Reset malfunction of satellite sensor	<ul style="list-style-type: none"> • Connection malfunction of harness or connector • Internal malfunction of satellite sensor • Internal malfunction of air bag diagnosis sensor unit
		[COMM ERR]	Communication malfunction of satellite sensor	
		[OPEN]	satellite sensor circuit is open	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of satellite sensor • Internal malfunction of air bag diagnosis sensor unit
		[UNMATCH]	satellite sensor is out of the specified specification	Air bag diagnosis sensor unit and satellite sensor is different from the part specified
		[OFFSET ERR]	Offset malfunction of satellite sensor	<ul style="list-style-type: none"> • Internal malfunction of satellite sensor • Internal malfunction of air bag diagnosis sensor unit
		[SELF-DIAG ERR]	Diagnosis malfunction of satellite sensor	
		[LOWER LIMIT ERR]	Lower limit value malfunction of satellite sensor	
		[UPPER LIMIT ERR]	Upper limit value malfunction of satellite sensor	
		[GND-SHORT]	satellite sensor circuit is shorted to ground	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of satellite sensor • Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

④ With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

⊗ Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-47, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

B0099 SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Diagnosis Procedure

INFOID:000000008748365

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3. REPLACE SATELLITE SENSOR

1. Replace satellite sensor. Refer to [SR-23. "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-46. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25. "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-46. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

A
B
C
D
E
F
G
I
J
K
L
M
N
O
P

SRC

B00A0 OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

B00A0 OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

DTC Logic

INFOID:000000008748366

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)		DTC detecting condition	Possible cause
B00A0	OCCUPANT SENS [Occupant Classification System (Subfault)]	[ABNORMAL VOLTAGE]	Power supply malfunction of occupant classification sensor	<ul style="list-style-type: none"> • Connection malfunction or short circuit to power supply of harness or connector • Internal malfunction of occupant classification sensor • Internal malfunction of air bag diagnosis sensor unit
		[UNIT MAL-FUNC]	Malfunction of occupant classification sensor	<ul style="list-style-type: none"> • Connection malfunction of harness and connector • Internal malfunction of occupant classification sensor • Internal malfunction of air bag diagnosis sensor unit
	OCCUPANT SENS C/U [Occupant Classification System (Subfault)]	[RESET]	Reset malfunction of occupant classification sensor control unit	<ul style="list-style-type: none"> • Connection malfunction of harness and connector • Internal malfunction of occupant classification sensor control unit • Internal malfunction of air bag diagnosis sensor unit
		[UNIT MAL-FUNC]	Malfunction of occupant classification sensor control unit	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of occupant classification sensor control unit • Internal malfunction of air bag diagnosis sensor unit
		[COMM ERR]	<ul style="list-style-type: none"> • Communication malfunction of occupant classification sensor control unit • Communication blank of occupant classification sensor control unit 	
		[UNDEFINED]	Undefined status of occupant classification sensor control unit	

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-49, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

B00A0 OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

Diagnosis Procedure

INFOID:000000008748367

WARNING:

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

DIAGNOSTIC PROCEDURE

1. CHECK HARNESS CONNECTOR

Check the connection of harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3. REPLACE OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

1. Replace occupant classification system. Refer to [SR-28, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-48, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE OCCUPANT CLASSIFICATION SYSTEM SEAT SENSOR

1. Replace seat cushion frame. Refer to [SE-132, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-48, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 5.

NO >> INSPECTION END

5. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-48, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

A
B
C
D
E
F
G
I
J
K
L
M
N
O
P

SRC

B00D5 FRONT PASSENGER AIR BAG OFF INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

B00D5 FRONT PASSENGER AIR BAG OFF INDICATOR

DTC Logic

INFOID:000000008748368

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)		DTC detecting condition	Possible cause
B00D5	PASS A/B INDCTR CKT [Restraint System Passenger Disable Indicator (Sub-fault)]	[UNIT MAL-FUNC]	Malfunction of passenger air bag indicator circuit	<ul style="list-style-type: none"> • Connection malfunction of harness and connector • Internal malfunction of passenger air bag indicator • Internal malfunction of air bag diagnosis sensor unit
		[PWR-SHORT/OPEN]	Short circuit to power supply and open circuit of passenger air bag indicator circuit	<ul style="list-style-type: none"> • Connection malfunction or short circuit to power supply or open circuit of harness or connector • Internal malfunction of passenger air bag indicator • Internal malfunction of air bag diagnosis sensor unit
		[OPEN]	Passenger air bag indicator circuit is open	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of passenger air bag indicator • Internal malfunction of air bag diagnosis sensor unit
		[VB-SHORT]	Passenger air bag indicator circuit is shorted to power supply circuit	<ul style="list-style-type: none"> • Connection malfunction or short circuit to power supply of harness and connector • Internal malfunction of passenger air bag indicator • Internal malfunction of air bag diagnosis sensor unit
		[GND-SHORT]	Passenger air bag indicator circuit is shorted to ground	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of passenger air bag indicator • Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-51, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

B00D5 FRONT PASSENGER AIR BAG OFF INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

Diagnosis Procedure

INFOID:000000008748369

WARNING:

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

DIAGNOSTIC PROCEDURE

1. CHECK HARNESS CONNECTOR

Check the connection of harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3. CHECK FRONT PASSENGER AIR BAG INDICATOR

1. Replace front passenger air bag indicator. Refer to [IP-13. "Removal and Installation"](#)

2. Perform DTC confirmation procedure. Refer to [SRC-50. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25. "Removal and Installation"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-50. "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

A
B
C
D
E
F
G
I
J
K
L
M
N
O
P

SRC

B1400, B1401, B1402, B1403, B1404, B1405 AIR BAG DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1400, B1401, B1402, B1403, B1404, B1405 AIR BAG DIAGNOSIS SENSOR UNIT

DTC Logic

INFOID:000000008748370

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause
B1400 B1401 B1402 B1403 B1404 B1405	CONTROL UNIT (air bag control unit internal trouble)	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-52, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748371

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Replace wiring harness.

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-52, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 1.
NO >> INSPECTION END

B1406, B1407, B1408, B1409, B1410 AIR BAG DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1406, B1407, B1408, B1409, B1410 AIR BAG DIAGNOSIS SENSOR UNIT

DTC Logic

INFOID:000000008748372

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause
B1406 B1407 B1408 B1409 B1410	CONTROL UNIT (air bag control unit internal trouble)	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

- Turn ignition switch ON.
- Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

YES >> Refer to [SRC-53, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748373

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace wiring harness.

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

- Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).
- Perform DTC confirmation procedure. Refer to [SRC-53, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1411, B1412, B1413, B1414, B1415 AIR BAG DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1411, B1412, B1413, B1414, B1415 AIR BAG DIAGNOSIS SENSOR UNIT

DTC Logic

INFOID:000000008748374

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause
B1411 B1412 B1413 B1414 B1415	CONTROL UNIT (air bag control unit internal trouble)	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

④ With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

④ Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-54, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748375

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Replace harness connectors.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Replace wiring harness.

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-54, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 1.
NO >> INSPECTION END

B1416, B1417, B1418, B1419, B1420 AIR BAG DIAGNOSIS SENSOR UNIT

< DTC/CIRCUIT DIAGNOSIS >

B1416, B1417, B1418, B1419, B1420 AIR BAG DIAGNOSIS SENSOR UNIT

DTC Logic

INFOID:000000008748376

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause
B1416 B1417 B1418 B1419 B1420	CONTROL UNIT (air bag control unit internal trouble)	Air bag diagnosis sensor unit is malfunctioning	Malfunction in air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-55, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748377

WARNING:

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

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Replace harness connectors.

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Replace wiring harness.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-55, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 1.
NO >> INSPECTION END

B1421 FRONTAL COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

B1421 FRONTAL COLLISION DETECTION

DTC Logic

INFOID:000000008748378

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause
B1421	FRONTAL COLLISION DETECTION (Firing Record, Frontal)	Driver air bag, passenger air bag and seat belt pre-tensioner are deployed	—

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-56, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748379

WARNING:

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

1. PERFORM COLLISION DIAGNOSIS

Perform collision diagnosis. Refer to [SR-5, "FOR FRONTAL COLLISION : When SRS is activated in a collision"](#) or [SR-6, "FOR FRONTAL COLLISION : When SRS is not activated in a collision"](#).

Is collision diagnosis complete?

- YES >> GO TO 2.
NO >> INSPECTION END

2. FINAL INSPECTION

Perform "AIR BAG" Self Diagnostic Result.

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Perform diagnosis of applicable DTC. Refer to [SRC-65, "DTC Index"](#).

B1422 SIDE COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

B1422 SIDE COLLISION DETECTION

DTC Logic

INFOID:000000008748380

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause
B1422	SIDE COLLISION DETECTION (Firing Record, Side)	Side air bag and curtain air bag are deployed	—

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-57, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748381

WARNING:

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

1. PERFORM COLLISION DIAGNOSIS

Perform collision diagnosis. Refer to [SR-7, "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision"](#) or [SR-8, "FOR SIDE AND ROLLOVER COLLISION : When SRS is not activated in a collision"](#).

Is collision diagnosis complete?

- YES >> GO TO 2.
NO >> INSPECTION END

2. FINAL INSPECTION

Perform "AIR BAG" Self Diagnostic Result.

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Perform diagnosis of applicable DTC. Refer to [SRC-65, "DTC Index"](#).

B1425 REAR COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

B1425 REAR COLLISION DETECTION

DTC Logic

INFOID:000000008748384

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause
B1425	REAR COLLISION (Rear Crash Detect)	rear collision detected	—

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-58, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748385

WARNING:

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

1. PERFORM COLLISION DIAGNOSIS

Perform collision diagnosis. Refer to [SR-5, "FOR FRONTAL COLLISION : When SRS is activated in a collision"](#) or [SR-6, "FOR FRONTAL COLLISION : When SRS is not activated in a collision"](#).

Is collision diagnosis complete?

- YES >> GO TO 2.
NO >> INSPECTION END

2. FINAL INSPECTION

Perform "AIR BAG" Self Diagnostic Result.

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Perform diagnosis of applicable DTC. Refer to [SRC-65, "DTC Index"](#).

B142A IGN VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

B142A IGN VOLTAGE

DTC Logic

INFOID:000000008748390

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)		DTC detecting condition	Possible cause
B142A	IGNITION VOLTAGE (Ignition voltage Low)	[VB-LOW]	Power supply malfunction (low voltage) of air bag diagnosis sensor unit	<ul style="list-style-type: none"> Malfunction of battery voltage (low voltage) Connection malfunction of harness or connector Internal malfunction of air bag diagnosis sensor unit
	IGNITION VOLTAGE (Ignition voltage High)	[VB-HIGH]	Power supply malfunction (high voltage) of air bag diagnosis sensor unit	<ul style="list-style-type: none"> Malfunction of battery voltage (high voltage) Connection malfunction of harness or connector Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

- Turn ignition switch ON.
- Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

- Turn ignition switch ON.
- Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-59, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748391

WARNING:

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

1. CHECK BATTERY VOLTAGE

Check battery voltage. Refer to [PG-3, "How to Handle Battery"](#).

Is the inspection result normal?

- YES >> GO TO 2.
 NO >> Replace battery. Refer to [PG-99, "Removal and Installation"](#).

2. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

- YES >> GO TO 3.
 NO >> Replace harness connectors.

3. CHECK WIRING HARNESS

Check the wiring harness externals.

B142A IGN VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace wiring harness.

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-59, "DTC Logic"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1430 SEAT BELT PRE-TENSIONER

< DTC/CIRCUIT DIAGNOSIS >

B1430 SEAT BELT PRE-TENSIONER

DTC Logic

INFOID:000000008748392

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause
B1430	PRE-TEN FRONT LH (Front seat belt pre-tensioner squib left hand circuit)	[OPEN]	Seat belt pre-tensioner LH circuit is open
		[VB-SHORT]	Seat belt pre-tensioner LH circuit is shorted to power supply circuit
		[GND-SHORT]	Seat belt pre-tensioner LH circuit is shorted to ground
		[SHORT]	Seat belt pre-tensioner LH circuits are shorted to each other

A

B

C

D

E

F

G

SRC

I

J

K

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-61, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748393

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

L

M

N

O

P

B1430 SEAT BELT PRE-TENSIONER

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Replace harness connector.

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Replace wiring harness.

3.REPLACE SEAT BELT PRE-TENSIONER

1. Replace seat belt pre-tensioner LH. Refer to [SR-27, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-61, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 4.
- NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-61, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 1.
- NO >> INSPECTION END

B1431 SEAT BELT PRE-TENSIONER

< DTC/CIRCUIT DIAGNOSIS >

B1431 SEAT BELT PRE-TENSIONER

DTC Logic

INFOID:000000008748394

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition	Possible cause	
B1431	PRE-TEN FRONT RH (Front seat belt pre-tensioner squib right hand circuit)	[OPEN]	Seat belt pre-tensioner RH circuit is open	<ul style="list-style-type: none"> • Connection malfunction or open circuit of harness and connector • Internal malfunction of seat belt pre-tensioner RH • Internal malfunction of air bag diagnosis sensor unit
		[VB-SHORT]	Seat belt pre-tensioner RH circuit is shorted to power supply circuit	<ul style="list-style-type: none"> • Connection malfunction or short circuit to power supply of harness and connector • Internal malfunction of seat belt pre-tensioner RH • Internal malfunction of air bag diagnosis sensor unit
		[GND-SHORT]	Seat belt pre-tensioner RH circuit is shorted to ground	<ul style="list-style-type: none"> • Connection malfunction or short circuit to ground of harness and connector • Internal malfunction of seat belt pre-tensioner RH • Internal malfunction of air bag diagnosis sensor unit
		[SHORT]	Seat belt pre-tensioner RH circuits are shorted to each other	<ul style="list-style-type: none"> • Connection malfunction or short circuit of harness and connector • Internal malfunction of seat belt pre-tensioner RH • Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Without CONSULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to [SRC-14, "On Board Diagnosis Function"](#).

NOTE:

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

Is malfunctioning part detected?

- YES >> Refer to [SRC-63, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000008748395

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

B1431 SEAT BELT PRE-TENSIONER

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 2.
NO >> Replace harness connector.

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Replace wiring harness.

3.REPLACE SEAT BELT PRE-TENSIONER

1. Replace seat belt pre-tensioner RH. Refer to [SR-27, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-63, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 4.
NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-63, "DTC Logic"](#).

Is DTC detected?

- YES >> GO TO 1.
NO >> INSPECTION END

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

DIAGNOSIS SENSOR UNIT

DTC Index

INFOID:000000008748396

DTC	Diagnostic item		Number of times of warning lamp blinking in diagnosis mode		Reference page
			System display	Item display	
U1000	CAN COMM CIRCUIT	—	—	—	SRC-20, "DTC Logic"
U1010	CONTROL UNIT (CAN)	—	—	—	SRC-21, "DTC Logic"
B0001	DRIVER AIRBAG MODULE	[OPEN]	Front air bag system	1	SRC-22, "DTC Logic"
		[VB-SHORT]			
		[GND-SHORT]			
		[SHORT]			
B0002	DRIVER AIRBAG MODULE 2	[OPEN]	Front air bag system	1	SRC-25, "DTC Logic"
		[VB-SHORT]			
		[GND-SHORT]			
		[SHORT]			
B0010	ASSIST A/B MODULE	[OPEN]	Front air bag system	2	SRC-28, "DTC Logic"
		[VB-SHORT]			
		[GND-SHORT]			
		[SHORT]			
B0011	ASSIST A/B MODULE 2	[OPEN]	Front air bag system	2	SRC-30, "DTC Logic"
		[VB-SHORT]			
		[GND-SHORT]			
		[SHORT]			
B0020	SIDE A/B MODULE LH	[OPEN]	Side air bag system	1	SRC-32, "DTC Logic"
		[VB-SHORT]			
		[GND-SHORT]			
		[SHORT]			
B0021	CURTAIN A/B MODULE LH	[OPEN]	Side air bag system	3	SRC-34, "DTC Logic"
		[VB-SHORT]			
		[GND-SHORT]			
		[SHORT]			
B0028	SIDE A/B MODULE RH	[OPEN]	Side air bag system	2	SRC-36, "DTC Logic"
		[VB-SHORT]			
		[GND-SHORT]			
		[SHORT]			
B0029	CURTAIN A/B MODULE RH	[OPEN]	Side air bag system	4	SRC-38, "DTC Logic"
		[VB-SHORT]			
		[GND-SHORT]			
		[SHORT]			

A
B
C
D
E
F
G
I
J
K
L
M
N
O
P

SRC

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

DTC	Diagnostic item		Number of times of warning lamp blinking in diagnosis mode		Reference page
			System display	Item display	
B0091	B-PILLAR SAT SEN LH	[RESET]	Sensor system	2	SRC-40. "DTC Logic"
		[COMM ERR]			
		[OPEN]			
		[UNMATCH]			
		[OFFSET ERR]			
		[SELF-DIAG ERR]			
		[LOWER LIMIT ERR]			
		[UPPER LIMIT ERR]			
		[GND-SHORT]			
B0094	CRASH ZONE SENS	[RESET]	Sensor system	1	SRC-42. "DTC Logic"
		[COMM ERR]			
		[OPEN]			
		[UNMATCH]			
		[OFFSET ERR]			
		[SELF-DIAG ERR]			
		[LOWER LIMIT ERR]			
		[UPPER LIMIT ERR]			
		[GND-SHORT]			
B0096	B-PILLAR SAT SEN RH	[RESET]	Sensor system	3	SRC-44. "DTC Logic"
		[COMM ERR]			
		[OPEN]			
		[UNMATCH]			
		[OFFSET ERR]			
		[SELF-DIAG ERR]			
		[LOWER LIMIT ERR]			
		[UPPER LIMIT ERR]			
		[GND-SHORT]			
B0099	SATELLITE SENSOR	[RESET]	Sensor system	12	SRC-46. "DTC Logic"
		[COMM ERR]			
		[OPEN]			
		[UNMATCH]			
		[OFFSET ERR]			
		[SELF-DIAG ERR]			
		[LOWER LIMIT ERR]			
		[UPPER LIMIT ERR]			
		[GND-SHORT]			
B00A0	OCCUPANT SENS	[ABNOMAL VOLT-AGE]	Air bag control unit system	4	SRC-48. "DTC Logic"
		[UNIT MALFUNC]			
	OCCUPANT SENS C/U	[UNIT MALFUNC]			
		[RESET]			
		[COMM ERR]			
		[UNDEFINED]			

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

DTC	Diagnostic item		Number of times of warning lamp blinking in diagnosis mode		Reference page
			System display	Item display	
B00D5	PASS A/B INDCTR CKT	[UNIT MALFUNC]	Air bag control unit system	3	SRC-50, "DTC Logic"
		[PWR-SHORT/ OPEN]			
		[OPEN]			
		[VB-SHORT]			
		[GND-SHORT]			
B1400-B1405	CONTROL UNIT	—	Air bag control unit system	2	SRC-52, "DTC Logic"
B1406-B1410	CONTROL UNIT	—	Air bag control unit system	2	SRC-53, "DTC Logic"
B1411-B1415	CONTROL UNIT	—	Air bag control unit system	2	SRC-54, "DTC Logic"
B1416-B1420	CONTROL UNIT	—	Air bag control unit system	2	SRC-55, "DTC Logic"
B1421	FRONTAL COLLISION DETECTION	—	Air bag control unit system	1	SRC-56, "DTC Logic"
B1422	SIDE COLLISION DETECTION	—	Air bag control unit system	1	SRC-57, "DTC Logic"
B1425	REAR COLLISION	—	Air bag control unit system	1	SRC-58, "DTC Logic"
B142A	IGNITION VOLTAGE	[VB-LOW]	—	—	SRC-59, "DTC Logic"
		[VB-HIGH]	—	—	
B1430	PRE-TEN FRONT LH	[OPEN]	Front air bag system	3	SRC-61, "DTC Logic"
		[VB-SHORT]			
		[GND-SHORT]			
		[SHORT]			
B1431	PRE-TEN FRONT RH	[OPEN]	Front air bag system	4	SRC-63, "DTC Logic"
		[VB-SHORT]			
		[GND-SHORT]			
		[SHORT]			

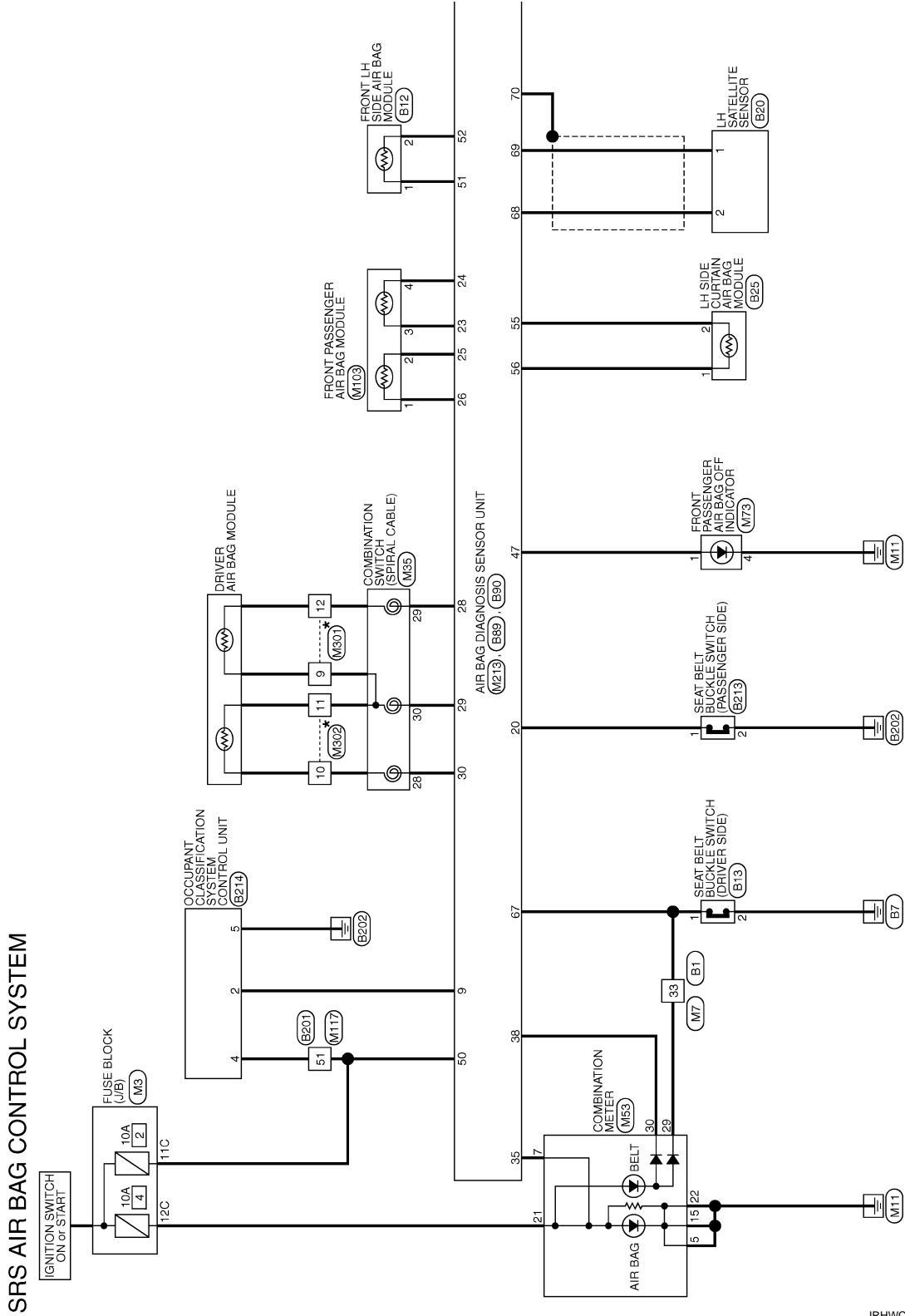
A
B
C
D
E
F
G
SRC
I
J
K
L
M
N
O
P

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - SRS AIR BAG CONTROL SYSTEM -

INFOID:000000008748397



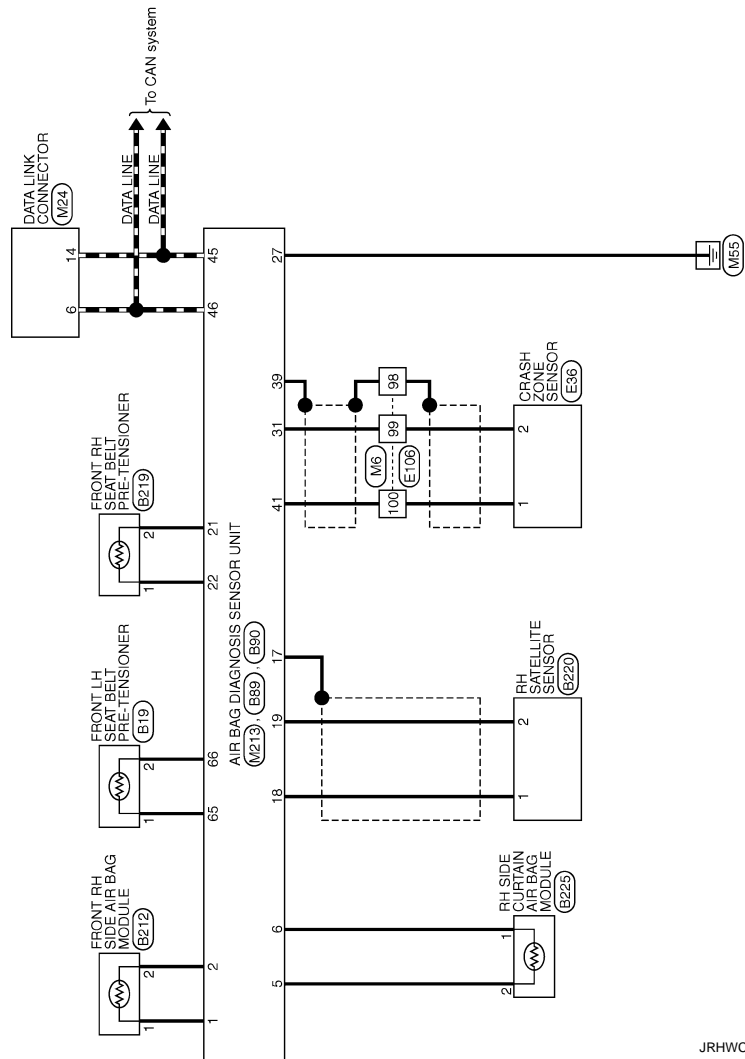
*: This connector is not shown in "Harness Layout".

2012/06/11

JRHWC0284GB

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >



JRHWC0285GB

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

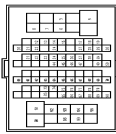
SRC

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

SRS AIR BAG CONTROL SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH89FV-C516-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
5	G	-
6	SB	-
7	Y	-
8	L	-
12	SB	-
13	LG	-
14	GR	-
15	LG	-
17	W	-
18	SB	-
19	LG	-
20	BR	-
21	SHIELD	-
22	Y	-
24	P	-
27	B	-
28	R	-
29	W	-
30	SHIELD	-
31	SHIELD	-
32	W	-
33	SB	-
34	L	-
35	P	-
36	L	-
37	P	-
38	BR	-
39	Y	-
44	Y	-
45	GR	-
46	LG	-
47	SB	-
49	G	-
50	V	-

60	P	-
61	L	-
62	SHIELD	-
63	R	-
64	G	-
65	SHIELD	-
66	W	-
67	V	-
68	SB	-
69	SHIELD	-
70	W	-
73	SB	-
74	L	-
75	W	-
76	BR	-
77	R	-
78	P	-
79	GR	-
82	EC	-
83	V	-
86	LG	-
87	Y	-
88	R	-
89	B	-
90	BG	-
91	G	-
92	BR	-
93	G	-
94	SB	-
95	G	-
96	Y	-
98	W	-
99	GR	-

Connector No.	B12
Connector Name	FRONT LH SIDE AIR BAG MODULE
Connector Type	TK02FY-EX-TV



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-

Connector No.	B13
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TH04FV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	B	-

Connector No.	B19
Connector Name	FRONT LH SEAT BELT PRE-TENSIONER
Connector Type	ACB02FY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-

Connector No.	B20
Connector Name	LH SATELLITE SENSOR
Connector Type	HK02FY-TV-EX-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	L	-

JRHWC1591GB

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

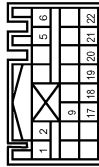
SRS AIR BAG CONTROL SYSTEM

Connector No.	B25
Connector Name	LH SIDE CURTAIN AIR BAG MODULE
Connector Type	ACB02FY



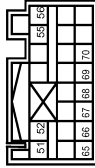
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y/B	-

Connector No.	B89
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	INZ2FY-1V-EX



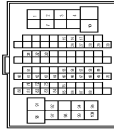
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	SIDE INF RH+
2	Y	SIDE INF RH-
5	Y/B	INF CURTAIN RH+
6	Y	INF CURTAIN RH-
9	V	ODS INPUT
17	SHIELD	GND
18	G	SIDE SENS RH+
19	R	SIDE SENS RH-
20	LG	BUCKLE SW RH
21	Y	ELR RH+
22	Y	ELR RH-

Connector No.	B90
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	INZ2FY-2V-EX



Terminal No.	Color Of Wire	Signal Name [Specification]
51	Y	SIDE INF LH+
52	Y	SIDE INF LH-
55	Y/B	INF CURTAIN LH
56	Y	INF CURTAIN LH+
66	Y	ELR LH+
67	SB	ELR LH-
68	L	BUCKLE SW LH
69	P	SIDE SENS LH-
70	SHIELD	GND

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FM-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	GR	-
4	BG	-
7	LG	-
10	W	-
13	SB	-
16	V	-
17	BR	-
26	BR	-

27	L	-
28	Y	-
29	Y	-
30	GR	-
31	R	-
32	BR	-
33	G	-
51	R	-
55	G	-
56	R	-
57	W	-
58	B	-
59	SHIELD	-
60	LG	-
61	W	-
62	BR	-
63	P	-
64	L	-
66	G	-
67	L	-
68	SHIELD	-
69	V	-
70	Y	-
71	SB	-
72	W	-
73	BR	-
75	Y	-
80	V	-
81	SB	-
82	LG	-
83	P	-
84	R	-
85	L	-
86	BG	-
87	L	-
88	P	-
91	V	-
92	R	-
94	R	-
95	SB	-
96	G	-
97	G	-
98	R	-
99	P	-
100	L	-

Connector No.	B212
Connector Name	FRONT RH SIDE AIR BAG MODULE
Connector Type	TK02FY-EX-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-

Connector No.	B213
Connector Name	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	TH04FY-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	B	-

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

SRC

JRHWC1592GB

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

SRS AIR BAG CONTROL SYSTEM

Connector No.	B214
Connector Name	DRIVER CLASSIFICATION SYSTEM CONTROL UNIT
Connector Type	TH88FV-NH



Terminal Color Of No.	Wire	Signal Name [Specification]
1	V	COMMUNICATION
2	B	IGN
3	B	GROUND

Connector No.	B219
Connector Name	FRONT RH SEAT BELT PRE-TENSIONER
Connector Type	ACB02FY



Terminal Color Of No.	Wire	Signal Name [Specification]
1	Y	-
2	Y	-

Connector No.	B220
Connector Name	RH SATELLITE SENSOR
Connector Type	HK02FY-1V-EX-LC



Terminal Color Of No.	Wire	Signal Name [Specification]
1	G	-
2	R	-

Connector No.	B225
Connector Name	RH SIDE CURTAIN AIR BAG MODULE
Connector Type	ACB02FY



Terminal Color Of No.	Wire	Signal Name [Specification]
1	Y	-
2	Y/B	-

Connector No.	E136
Connector Name	CRASH ZONE SENSOR
Connector Type	HK02FY-1V-EX-LC



Terminal Color Of No.	Wire	Signal Name [Specification]
1	P	-
2	L	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FV-CS16-TM4



Terminal Color Of No.	Wire	Signal Name [Specification]
1	R	-
2	W	-
3	B	-
4	GR	-
5	GR	-
6	Y	-
7	BR	-
8	BR	-
9	BR	-
10	BG	-
11	SB	-
12	BG	-
13	L	-
14	R	-
15	P	-
16	V	-
17	SB	-
18	V	-
19	BG	-
20	BG	-
21	L	-

22	V	-
23	G	-
24	P	-
25	Y	-
26	V	-
27	W	-
28	G	-
31	BG	-
32	W	-
33	B	-
34	R	-
35	G	-
36	SHIELD	-
37	V	-
38	BR	-
39	BG	-
41	W	-
42	G	-
42	BR	-
45	W	-
49	L	-
50	P	-
51	L	-
54	BG	-
57	BR	-
59	W	-
60	LG	-
61	G	-
62	SB	-
63	W	-
64	B	-
65	G	-
66	R	-
67	SHIELD	-
68	Y	-
69	LG	-
70	W	-
71	R	-
72	Y	-
73	B	-
74	BR	- [With ICC]
74	L	- [Without ICC]
75	G	- [With ICC]
75	W	- [Without ICC]
76	W	- [With ICC]
76	Y	- [Without ICC]
77	P	- [With ICC]
77	R	- [Without ICC]
78	BR	- [With ICC]
78	L	- [Without ICC]

JRHWC1593GB

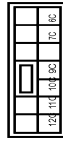
DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

SRS AIR BAG CONTROL SYSTEM

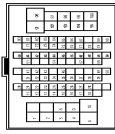
Terminal No.	Color Of Wire	Signal Name [Specification]
79	L	- [Without ICC]
80	SB	- [With ICC]
81	R	-
82	SB	-
83	BG	-
84	G	-
85	L	-
86	P	-
87	V	-
89	GR	-
90	SHIELD	-
91	W	-
92	Y	-
93	V	-
94	LG	-
95	BG	-
96	P	-
97	R	-
98	SHIELD	-
99	L	-
100	P	-

Connector No.	M3
Connector Name	FUSE BLOCK (JIB)
Connector Type	MS12FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	R	-
12C	BG	-
6C	R	-
7C	B	-
8C	BG	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

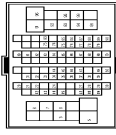


Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	B	-
4	SHIELD	-
5	G	-
6	Y	-
7	BR	-
8	R	-
9	BR	-
10	R	-
11	BR	-
12	BG	-
13	L	-
14	R	-
15	P	-
16	V	-
17	SB	-
18	V	-
20	BG	-
21	L	-
22	W	-
23	P	-
24	BR	-
25	V	-
26	V	-
27	G	-
28	G	-
31	L	-
32	G	-
33	B	-
34	W	-
35	R	-
36	SHIELD	-
37	V	-
38	BG	-
39	BR	-
41	W	-
42	BG	-

Terminal No.	Color Of Wire	Signal Name [Specification]
43	BG	-
45	W	-
49	L	-
50	P	-
51	BR	-
54	Y	-
57	G	-
59	W	-
60	L	-
61	G	-
62	SB	-
63	G	-
64	B	-
65	W	-
66	R	-
67	SHIELD	-
68	Y	-
69	GR	-
70	LG	-
71	LG	-
72	Y	-
73	SB	-
74	BR	-
74	L	- [With ICC]
74	L	- [Without ICC]
75	G	-
76	GR	- [Without ICC]
76	W	- [With ICC]
77	P	- [Without ICC]
77	R	- [With ICC]
78	L	- [Without ICC]
78	R	- [With ICC]
79	Y	-
80	SB	-
81	SB	-
82	SB	-
83	V	-
84	G	-
85	L	-
86	P	-
87	W	-
89	GR	-
90	SHIELD	-
91	W	-
92	Y	-
93	BR	-
94	R	-
95	P	-
96	GR	-
97	L	-

98	SHIELD	-
99	V	-
100	SB	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	- [With automatic drive positioner]
3	W	- [Without automatic drive positioner]
5	G	-
6	BG	-
7	W	-
8	B	-
12	SB	-
13	LG	-
14	Y	-
15	G	-
17	W	-
18	SB	-
19	LG	-
20	BR	-
21	SHIELD	-
22	Y	-
24	V	-
27	B	-
28	W	-
29	R	-
30	SHIELD	-
31	L	-
32	P	-
33	SB	-
34	L	-
35	P	-
36	L	-
37	P	-
38	BR	-
39	W	-
44	L	-

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

SRC

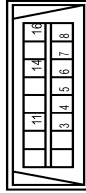
DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

SRS AIR BAG CONTROL SYSTEM

45	GR	-	-	-	-
46	LG	-	-	-	-
47	SB	-	-	-	-
49	V	-	-	-	-
50	R	-	-	-	-
60	P	-	-	-	-
61	L	-	-	-	-
62	SHIELD	-	-	-	-
63	R	-	-	-	-
64	G	-	-	-	-
65	SHIELD	-	-	-	-
66	SB	-	-	-	-
67	V	-	-	-	-
68	LG	-	-	-	-
69	SHIELD	-	-	-	-
70	W	-	-	-	-
73	G	-	-	-	-
74	R	-	-	-	-
75	W	-	-	-	-
76	W	-	-	-	-
77	B	-	-	-	-
78	P	-	-	-	-
79	GR	-	-	-	-
83	BG	-	-	-	-
85	LG	-	-	-	-
86	R	-	-	-	-
87	Y	-	-	-	-
88	W	-	-	-	-
89	BR	-	-	-	-
90	BG	-	-	-	-
91	G	-	-	-	-
92	V	-	-	-	-
93	BR	-	-	-	-
94	V	-	-	-	-
95	G	-	-	-	-
96	Y	-	-	-	-
98	W	-	-	-	-
99	R	-	-	-	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FV



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	V	-
7	V	-
8	G	-
11	SB	-
14	P	-
16	Y	-

Connector No.	M35
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK06FY-EX-TV



Terminal No.	Color Of Wire	Signal Name [Specification]
23	R	-
28	Y	-
29	Y	-
30	Y	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH00FV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER-AMP.)
3	GR	COMMUNICATION SIGNAL (AMP-METER)
5	B	GROUND
6	B	ALTERNATOR SIGNAL
7	BR	AIR BAG SIGNAL
10	G	SECURITY SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
19	B	ILL.GND
20	R	ILL
21	BG	IGNITION SIGNAL
22	B	GROUND
24	BR	COMMUNICATION SIGNAL (LCD-AMP.)
25	Y	VEHICLE SPEED SIGNAL (AMP-I/OD)
26	R	VEHICLE SPEED SIGNAL (PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	G	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
31	L	WASHER LEVEL SWITCH SIGNAL
33	B	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP AB RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)

Connector No.	M73
Connector Name	FRONT PASSENGER AIR BAG OFF INDICATOR
Connector Type	TH04MV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
4	B	-

Connector No.	M103
Connector Name	FRONT PASSENGER AIR BAG MODULE
Connector Type	RK04FY-BD



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-
3	Y	-
4	Y	-

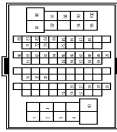
JRHWC1595GB

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

SRS AIR BAG CONTROL SYSTEM

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	GR	-
4	SB	-
7	W	-
10	W	-
15	SB	-
16	V	-
17	BR	-
26	BR	-
27	LG	-
28	Y	-
29	Y	-
30	V	-
31	R	-
32	BR	-
33	G	-
51	R	-
55	W	-
56	B	-
57	R	-
58	G	-
59	SHIELD	-
60	V	-
61	LG	-
62	BR	-
63	L	-
64	LG	-
65	B	-
66	R	-
67	W	-
68	SHIELD	-
69	V	-
70	Y	-
71	SB	-
72	W	-

41	SB	ECZS+
45	P	CAN LO
46	L	CAN HI
47	R	AB_CUTOFF_TELLTALE
50	R	IGN

Connector No.	M301
Connector Name	DRIVER AIR BAG MODULE
Connector Type	ACA02FOR



Terminal No.	Color Of Wire	Signal Name [Specification]
9	-	-
12	-	-

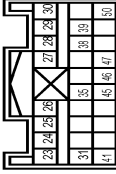
Connector No.	M302
Connector Name	DRIVER AIR BAG MODULE
Connector Type	ACA02FY2V



Terminal No.	Color Of Wire	Signal Name [Specification]
10	-	-
11	-	-

73	G	-
75	W	-
80	V	-
81	SB	-
82	V	-
83	P	-
84	R	-
85	L	-
86	BG	-
87	L	-
88	P	-
91	V	-
92	G	-
94	G	-
95	W	-
96	G	-
97	V	-
98	BR	-
99	P	- [Without BOSE audio]
100	V	- [With BOSE audio]
100	L	- [Without BOSE audio]
100	SB	- [With BOSE audio]

Connector No.	M213
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	HF29FY-EX



Terminal No.	Color Of Wire	Signal Name [Specification]
23	Y	INFLATOR AS2+
24	Y	INFLATOR AS2-
25	Y	INFLATOR AS1-
26	Y	INFLATOR AS1+
27	B	GND
28	Y	INFLATOR DR2+
29	Y	INFLATOR DR1&DR2-
30	Y	INFLATOR DR1+
31	V	ECZS-
35	BR	AB_WIL
38	G	SEATBELT_WIL
39	SHIELD	GND

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

SRC

JRHWC1596GB

SRS AIR BAG WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

SRS AIR BAG WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:000000008285481

1. CHECK FRONT AIR BAG MODULE

Check the deployment of front air bag module.

Is air bag module deployed?

YES >> Refer to [SR-11. "Removal and Installation"](#) or [SR-17. "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK AIR BAG FUSE

Check 10A fuse [No.2, located in fuse block (J/B)].

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace the fuse.

3. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace harness connectors.

4. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace wiring harness.

5. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25. "Removal and Installation"](#).

2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 1.

SRS AIR BAG WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

SRS AIR BAG WARNING LAMP DOES NOT TURN ON

Diagnosis Procedure

INFOID:000000008285482

1.CHECK METER FUSE

Check 10A fuse [No.4, located in fuse block (J/B)].

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the fuse.

2.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace harness connectors.

3.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace wiring harness.

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-25, "Removal and Installation"](#).

2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 1.

A
B
C
D
E
F
G
SRC
I
J
K
L
M
N
O
P

PASSENGER SEAT BELT WARNING SYSTEM

< SYMPTOM DIAGNOSIS >

PASSENGER SEAT BELT WARNING SYSTEM

Diagnosis Procedure

INFOID:000000008285483

1. CHECK THE SYSTEM 1

Check the seat belt warning lamp function.

Seat belt warning lamp turns ON in the following conditions.

- Driver seat belt is fastened.
- Occupant is on passenger seat.
- Passenger seat belt is not fastened.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the followings.

- Harness between air bag diagnosis sensor unit and combination meter.
- Seat belt buckle switch (passenger side) circuit.
- Seat belt buckle switch (passenger side).

If these are OK, replace air bag diagnosis sensor unit.

2. CHECK THE SYSTEM 2

Check the seat belt warning lamp function.

Seat belt warning lamp turns OFF in the following conditions.

- Driver seat belt is fastened.
- Occupant is on passenger seat.
- Passenger seat belt is fastened.

Is the inspection result normal?

YES >> System is OK.

NO >> Check the followings.

- Seat belt buckle switch (passenger side) circuit.
- Seat belt buckle switch (passenger side).

If these are OK, replace air bag diagnosis sensor unit.

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000008285484

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 "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never 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.

Service

INFOID:000000008285485

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