

SECTION **SRC**

SRS AIRBAG CONTROL SYSTEM

A
B
C
D
E

F

G

SRC

J

K

L

M

N

O

P

CONTENTS

PRECAUTION	3	DIAGNOSIS AND REPAIR WORK FLOW	28
PRECAUTIONS	3	Work Flow	28
Precautions for Removing Battery Terminal	3		
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	4	Description	31
Precaution Necessary for Steering Wheel Rotation After Battery Disconnect	4	Work Procedure	31
Service	5		
SYSTEM DESCRIPTION	6	CONFIGURATION (AIR BAG DIAGNOSIS SENSOR UNIT)	32
COMPONENT PARTS	6	Work Procedure	32
Component Parts Location	6		
Front Passenger Air Bag Off Indicator	9	DTC/CIRCUIT DIAGNOSIS	33
Front Passenger Air Bag On Indicator	10		
SYSTEM	11	U1000 CAN COMM CIRCUIT	33
SRS AIR BAG SYSTEM	11	Description	33
SRS AIR BAG SYSTEM : System Description	11	DTC Logic	33
SRS AIR BAG SYSTEM : Circuit Diagram	15	Diagnosis Procedure	33
WARNING/INDICATOR/CHIME LIST	16	U1010 CONTROL UNIT (CAN)	34
WARNING/INDICATOR/CHIME LIST : Warning Lamp/Indicator Lamp	16	DTC Logic	34
CONSULT Function	17	Diagnosis Procedure	34
DIAGNOSIS SYSTEM (AIR BAG)	17	B0001 DRIVER AIR BAG MODULE	35
CONSULT Function	17	DTC Description	35
ECU DIAGNOSIS INFORMATION	18	Diagnosis Procedure	35
DIAGNOSIS SENSOR UNIT	18	B0010 PASSENGER AIR BAG MODULE	38
DTC Index	18	DTC Description	38
WIRING DIAGRAM	22	Diagnosis Procedure	38
SRS AIR BAG SYSTEM	22	B0020 SIDE AIR BAG MODULE	40
Wiring Diagram	22	DTC Description	40
BASIC INSPECTION	28	Diagnosis Procedure	40
		B0021 CURTAIN AIR BAG MODULE	42
		DTC Description	42
		Diagnosis Procedure	42
		B0028 SIDE AIR BAG MODULE	44
		DTC Description	44
		Diagnosis Procedure	44

B0029 CURTAIN AIR BAG MODULE	46	B1416, B1417, B1418, B1419, B1420 AIR BAG DIAGNOSIS SENSOR UNIT	72
DTC Description	46	DTC Description	72
Diagnosis Procedure	46	Diagnosis Procedure	72
B0091 B-PILLAR SATELLITE SENSOR	48	B1421 FRONTAL COLLISION DETECTION ...	74
DTC Description	48	DTC Description	74
Diagnosis Procedure	48	Diagnosis Procedure	74
B0092 C-PILLAR SATELLITE SENSOR	50	B1422 SIDE COLLISION DETECTION	75
DTC Description	50	DTC Description	75
Diagnosis Procedure	50	Diagnosis Procedure	75
B0094 CRASH ZONE SENSOR	52	B1425 REAR COLLISION DETECTION	76
DTC Description	52	DTC Description	76
Diagnosis Procedure	52	Diagnosis Procedure	76
B0096 B-PILLAR SATELLITE SENSOR	54	B1426 DISPOSAL DEPLOYMENT DETECTION	77
DTC Description	54	DTC Description	77
Diagnosis Procedure	54	Diagnosis Procedure	77
B0097 C-PILLAR SATELLITE SENSOR	56	B1427 CONFIG SETTING	78
DTC Description	56	DTC Description	78
Diagnosis Procedure	56	Diagnosis Procedure	78
B0099 SATELLITE SENSOR	58	B142A IGN VOLTAGE	79
DTC Description	58	DTC Description	79
Diagnosis Procedure	58	Diagnosis Procedure	79
B00D2 FRONT PASSENGER AIR BAG ON INDICATOR	60	B1430 SEAT BELT PRE-TENSIONER	81
DTC Description	60	DTC Description	81
Diagnosis Procedure	60	Diagnosis Procedure	82
B00D5 FRONT PASSENGER AIR BAG OFF INDICATOR	62	B1431 SEAT BELT PRE-TENSIONER	83
DTC Description	62	DTC Description	83
Diagnosis Procedure	62	Diagnosis Procedure	84
B00DF AIR BAG CUTOFF SWITCH	64	B1432 LAP PRE-TENSIONER	85
DTC Description	64	DTC Description	85
Diagnosis Procedure	64	Diagnosis Procedure	85
B1400, B1401, B1402, B1403, B1404, B1405 AIR BAG DIAGNOSIS SENSOR UNIT	66	B1433 LAP PRE-TENSIONER	87
DTC Description	66	DTC Description	87
Diagnosis Procedure	66	Diagnosis Procedure	87
B1406, B1407, B1408, B1409, B1410 AIR BAG DIAGNOSIS SENSOR UNIT	68	SYMPTOM DIAGNOSIS	89
DTC Description	68	SRS AIR BAG WARNING LAMP DOES NOT TURN OFF	89
Diagnosis Procedure	68	Diagnosis Procedure	89
B1411, B1412, B1413, B1414, B1415 AIR BAG DIAGNOSIS SENSOR UNIT	70	SRS AIR BAG WARNING LAMP DOES NOT TURN ON	90
DTC Description	70	Diagnosis Procedure	90
Diagnosis Procedure	70		

< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precautions for Removing Battery Terminal

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- With the adoption of Auto ACC function, ACC power is automatically supplied by operating the intelligent key or remote keyless entry or by opening/closing the driver side door. In addition, ACC power is supplied even after the ignition switch is turned to the OFF position, i.e. ACC power is supplied for a certain fixed time.
- When disconnecting the 12V battery terminal, turn off the ACC power before disconnecting the 12V battery terminal, observing "How to disconnect 12V battery terminal" described below.

NOTE:

Some ECUs operate for a certain fixed time even after ignition switch is turned OFF and ignition power supply is stopped. If the battery terminal is disconnected before ECU stops, accidental DTC detection or ECU data damage may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.

HOW TO DISCONNECT 12V BATTERY TERMINAL

Disconnect 12V battery terminal according to Instruction 1 or Instruction 2 described below.

For vehicles parked by ignition switch OFF, refer to Instruction 2.

INSTRUCTION 1

- Open the hood.
- Turn key switch to the OFF position with the driver side door opened.
- Get out of the vehicle and close the driver side door.
- Wait at least 3 minutes. For vehicle with the engine listed below, remove the battery terminal after a lapse of the specified time.

D4D engine	: 20 minutes
HRA2DDT	: 12 minutes
K9K engine	: 4 minutes
M9R engine	: 4 minutes
R9M engine	: 4 minutes
V9X engine	: 4 minutes

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

- Remove 12V battery terminal.

CAUTION:

After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

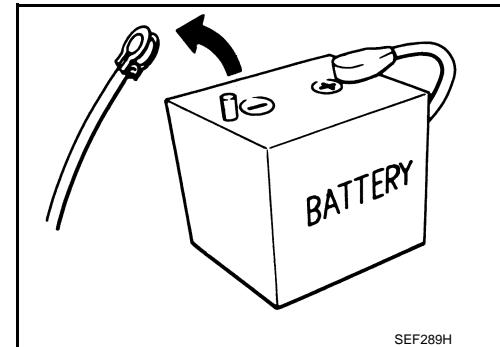
INSTRUCTION 2 (FOR VEHICLES PARKED BY IGNITION SWITCH OFF)

- Unlock the door with intelligent key or remote keyless entry.

NOTE:

At this moment, ACC power is supplied.

- Open the driver side door.
- Open the hood.
- Close the driver side door.
- Wait at least 3 minutes.



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PRECAUTIONS

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CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

6. Remove 12V battery terminal.

CAUTION:

After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

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

INFOID:0000000010842500

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "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.

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:0000000010842503

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- Before removing and installing any control units, first turn the ignition power source and accessory power source to the OFF, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

For vehicle with steering lock unit, if the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, follow the operation procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Open driver door.
3. Turn the ignition switch to the ON position.
(At this time, the steering lock will be released.)
4. Turn the ignition switch to OFF position with driver door open.

PRECAUTIONS

< PRECAUTION >

5. Wait for 3 minutes or longer with driver door open.

NOTE:

- Do not close driver door because the steering wheel locks when driver door is closed.
- The auto acc function is adapted to this vehicle. For this reason, even when the ignition switch is turned to OFF position, the accessory power source does not turn OFF and continues to be supplied for a certain amount of time.

6. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
7. Perform the necessary repair operation.
8. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the ignition switch from OFF position to ON position, then to LOCK position. (The steering wheel will lock when the ignition switch is turned to LOCK position.)
9. Perform self-diagnosis check of all control units using CONSULT.

Service

INFOID:000000010688448

- Never use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn power switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pretensioner to deploy. Therefore, never work on any SRS connectors or wires until at least 3 minutes have passed.
- 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 with the neutral position since its rotations are limited. Never 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.
- Never solder the harness when making repairs. Check that harness is not pinched and that there is no contact with other components.
- Never allow harness to come in contact with oil, grease, waste oil, or water.
- Never insert foreign materials, such as a screwdriver, into the harness connector. (This is to prevent accidental activation caused by static electricity.)
- Always use CONSULT or SRS air bag warning lamp to perform the circuit diagnosis. (Never use an electric tester such as a circuit tester.)

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COMPONENT PARTS

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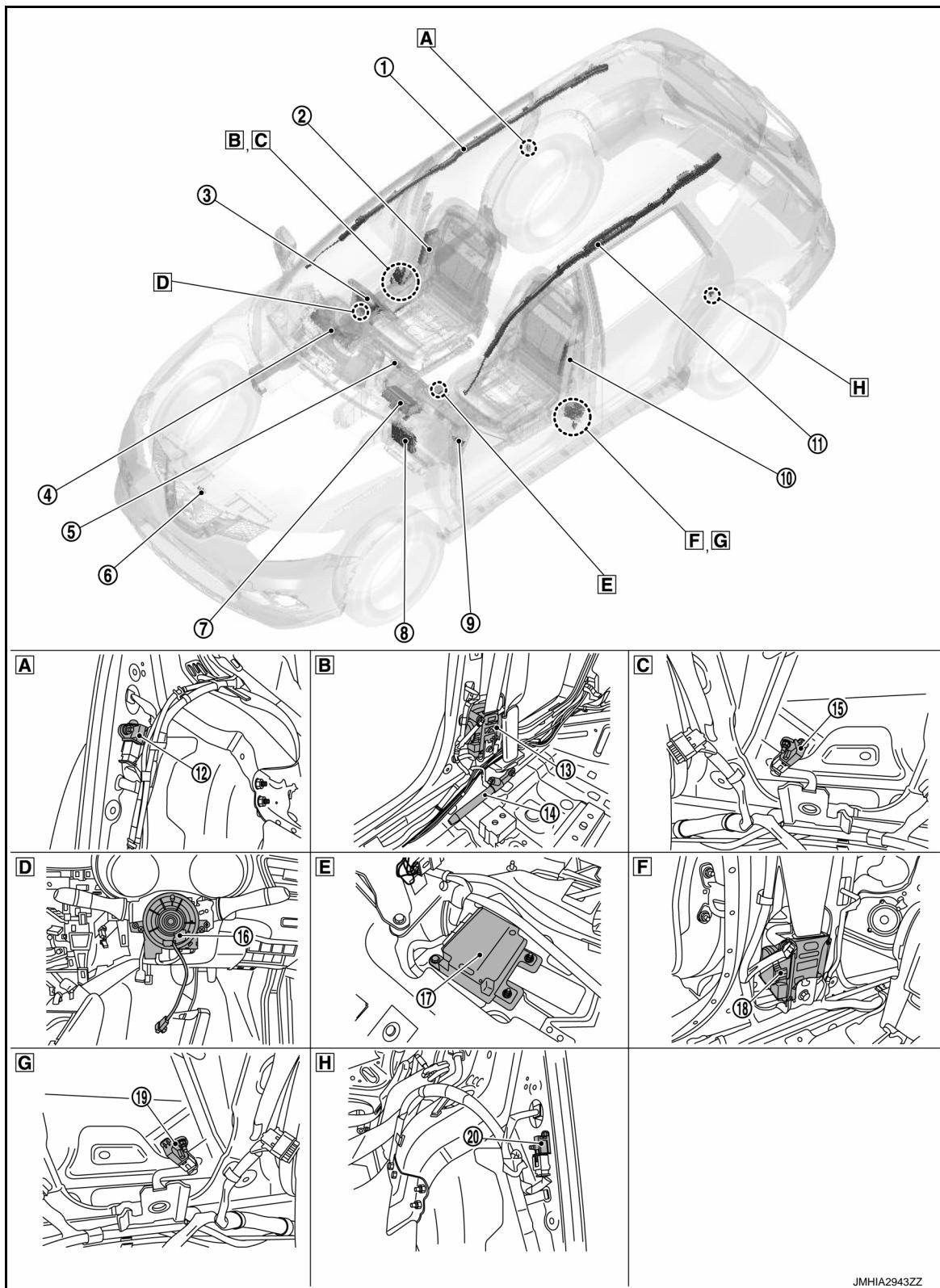
SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000010688449

RHD models



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COMPONENT PARTS

< SYSTEM DESCRIPTION >

A	Behind luggage side lower finisher RH	B	Behind center pillar lower garnish RH	C	Behind center pillar lower garnish RH
D	View with steering wheel removed	E	View with center console assembly	F	Behind center pillar lower garnish LH
G	Behind center pillar lower garnish LH	H	Behind luggage side lower finisher LH		

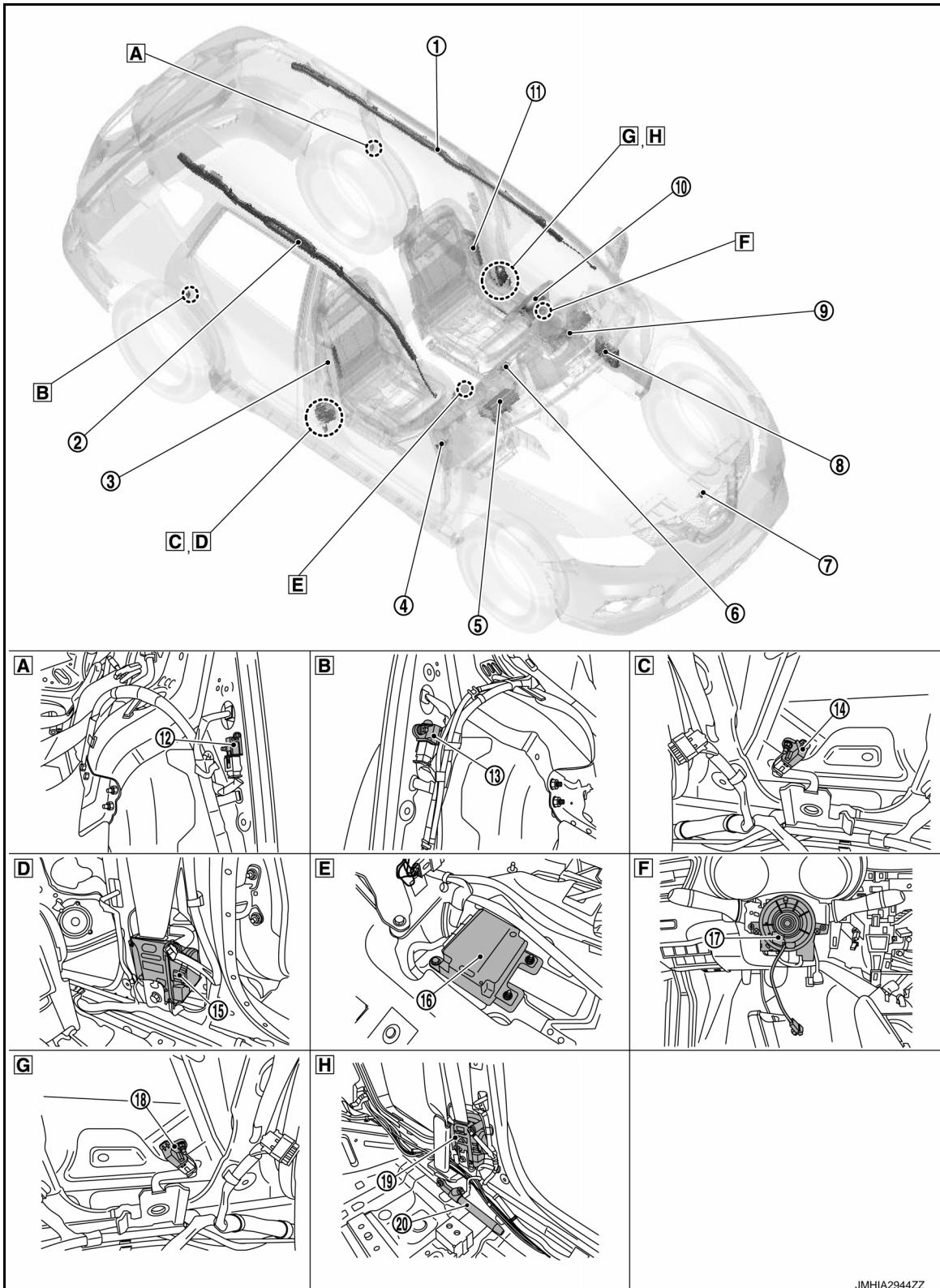
No.	Component	Function
①	Curtain air bag module RH	Refer to SR-8, "AIR BAG MODULE : Curtain air bag module".
②	Side air bag module RH	Refer to SR-8, "AIR BAG MODULE : Side air bag module".
③	Driver air bag module	Refer to SR-7, "AIR BAG MODULE : Driver air bag module".
④	Combination meter (air bag warning lamp)	Refer to SR-12, "MAIN COMPONENT PARTS AND FUNCTIONS : Air bag warning lamp".
⑤	Indicator unit	Front passenger air bag OFF indicator
		Front passenger air bag ON indicator
⑥	Crash zone sensor	Refer to SR-10, "MAIN COMPONENT PARTS AND FUNCTIONS : Crash zone sensor".
⑦	Passenger air bag module	Refer to SR-7, "AIR BAG MODULE : Passenger air bag module".
⑧	BCM	Refer to BCS-6, "BODY CONTROL SYSTEM : Component Parts Location".
⑨	Air bag cutoff switch	Deactivates passenger air bag module deployment by switching air bag cut OFF switch to the OFF position.
⑩	Side air bag module LH	Refer to SR-8, "AIR BAG MODULE : Side air bag module".
⑪	Curtain air bag module LH	Refer to SR-8, "AIR BAG MODULE : Curtain air bag module".
⑫	C-pillar satellite sensor RH	Refer to SR-10, "MAIN COMPONENT PARTS AND FUNCTIONS : Satellite sensor".
⑬	Seat belt pre-tensioner RH	Refer to SB-5, "Seat belt pre-tensioner with Load limiter".
⑭	Lap pre-tensioner RH	Refer to SB-6, "Double pre-tensioner seat belt".
⑮	B-pillar satellite sensor RH	Refer to SR-10, "MAIN COMPONENT PARTS AND FUNCTIONS : Satellite sensor".
⑯	Combination switch (spiral cable)	Refer to SR-10, "MAIN COMPONENT PARTS AND FUNCTIONS : Spiral cable".
⑰	Air bag diagnosis sensor unit	Refer to SR-11, "MAIN COMPONENT PARTS AND FUNCTIONS : Air bag diagnosis sensor unit".
⑱	Seat belt pre-tensioner LH	Refer to SB-5, "Seat belt pre-tensioner with Load limiter".
⑲	B-pillar satellite sensor LH	Refer to SR-10, "MAIN COMPONENT PARTS AND FUNCTIONS : Satellite sensor".
⑳	C-pillar satellite sensor LH	Refer to SR-10, "MAIN COMPONENT PARTS AND FUNCTIONS : Satellite sensor".

LHD models

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COMPONENT PARTS

< SYSTEM DESCRIPTION >



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A Behind luggage side lower finisher LH	B Behind luggage side lower finisher RH	C Behind center pillar lower garnish RH
D Behind center pillar lower garnish RH	E View with center console assembly	F View with steering wheel removed
G Behind center pillar lower garnish LH	H Behind center pillar lower garnish LH	

COMPONENT PARTS

< SYSTEM DESCRIPTION >

No.	Component	Function
①	Curtain air bag module LH	Refer to SR-8, "AIR BAG MODULE : Curtain air bag module".
②	Curtain air bag module RH	Refer to SR-8, "AIR BAG MODULE : Curtain air bag module".
③	Side air bag module RH	Refer to SR-8, "AIR BAG MODULE : Side air bag module".
④	Air bag cutoff switch	Deactivates passenger air bag module deployment by switching air bag cut OFF switch to the OFF position.
⑤	Passenger air bag module	Refer to SR-7, "AIR BAG MODULE : Passenger air bag module".
⑥	Indicator unit	Front passenger air bag OFF indicator Refer to SRC-9, "Front Passenger Air Bag Off Indicator".
		Front passenger air bag ON indicator Refer to SRC-10, "Front Passenger Air Bag On Indicator".
⑦	Crash zone sensor	Refer to SR-10, "MAIN COMPONENT PARTS AND FUNCTIONS : Crash zone sensor".
⑧	BCM	Refer to BCS-6, "BODY CONTROL SYSTEM : Component Parts Location".
⑨	Combination meter (air bag warning lamp)	Refer to SR-12, "MAIN COMPONENT PARTS AND FUNCTIONS : Air bag warning lamp".
⑩	Driver air bag module	Refer to SR-7, "AIR BAG MODULE : Driver air bag module".
⑪	Side air bag module LH	Refer to SR-8, "AIR BAG MODULE : Side air bag module".
⑫	C-pillar satellite sensor LH	Refer to SR-10, "MAIN COMPONENT PARTS AND FUNCTIONS : Satellite sensor".
⑬	C-pillar satellite sensor RH	Refer to SR-10, "MAIN COMPONENT PARTS AND FUNCTIONS : Satellite sensor".
⑭	B-pillar satellite sensor RH	Refer to SR-10, "MAIN COMPONENT PARTS AND FUNCTIONS : Satellite sensor".
⑮	Seat belt pre-tensioner RH	Refer to SB-5, "Seat belt pre-tensioner with Load limiter".
⑯	Air bag diagnosis sensor unit	Refer to SR-11, "MAIN COMPONENT PARTS AND FUNCTIONS : Air bag diagnosis sensor unit".
⑰	Combination switch (spiral cable)	Refer to SR-10, "MAIN COMPONENT PARTS AND FUNCTIONS : Spiral cable".
⑱	B-pillar satellite sensor LH	Refer to SR-10, "MAIN COMPONENT PARTS AND FUNCTIONS : Satellite sensor".
⑲	Seat belt pre-tensioner LH	Refer to SB-5, "Seat belt pre-tensioner with Load limiter".
⑳	Lap pre-tensioner LH	Refer to SB-6, "Double pre-tensioner seat belt".

Front Passenger Air Bag Off Indicator

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Front passenger air bag OFF indicator turns ON when turning air bag cutoff switch OFF position.



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COMPONENT PARTS

< SYSTEM DESCRIPTION >

Front Passenger Air Bag On Indicator

INFOID:000000010916211

Front passenger air bag ON indicator turns ON when turning air bag cutoff switch ON position.



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SYSTEM

< SYSTEM DESCRIPTION >

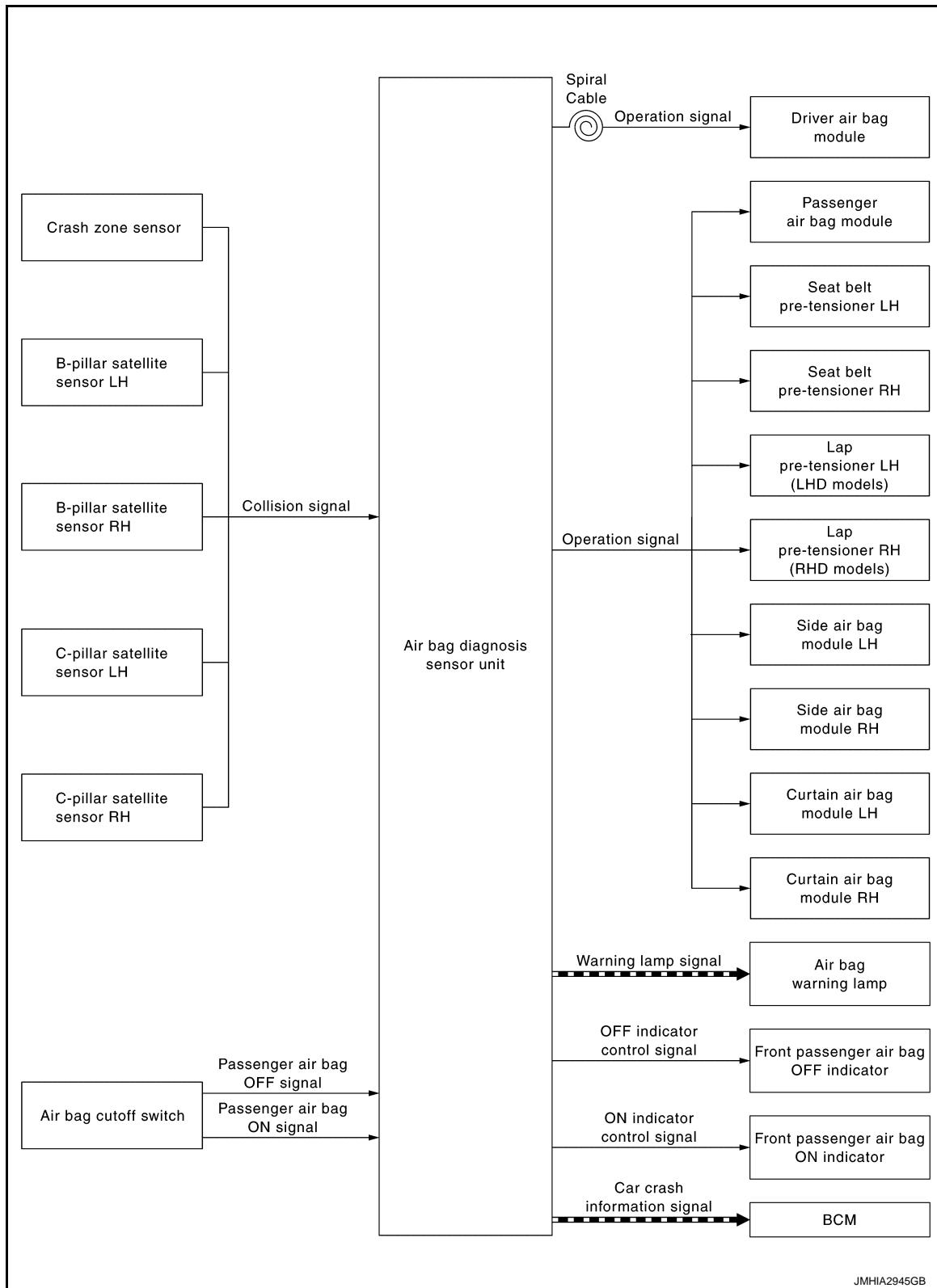
SYSTEM

SRS AIR BAG SYSTEM

SRS AIR BAG SYSTEM : System Description

INFOID:000000010688450

SYSTEM DIAGRAM



SYSTEM DESCRIPTION

SYSTEM

< SYSTEM DESCRIPTION >

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 diagnosis 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, 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 diagnosis 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. At the same time, pre-tensioner seat belt receives power supply from air bag diagnosis sensor unit, gas generator is activated, and then gas is generated. Balls in pipe are moved according to generated gas pressure and strike pinion gear on ELR shaft. ELR shaft rotates and retracts seat belt.

AIR BAG DIAGNOSIS SENSOR UNIT FUNCTIONS

Air bag diagnosis sensor unit has the following functions.

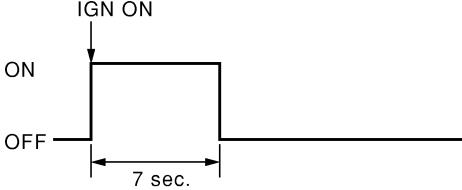
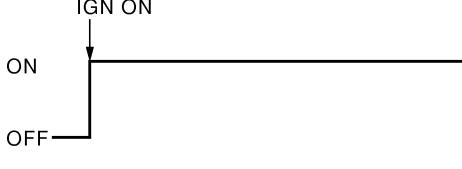
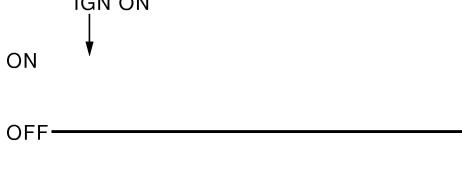
- Detects a collision and supplies the energy for deploying air bag and seat belt pre-tensioner.
- Detects and records electrical malfunction in air bag system and seat belt pre-tensioner system, and turns air bag warning lamp ON.
- Detects and records the deployment of air bag and seat belt pre-tensioner, and turns ON air bag warning lamp.
- Indicates the malfunction record via CONSULT.
- Transmits car crash information signal to BCM when a collision is detected (collision detection output function).

Air Bag Warning Lamp

- Detects electrical malfunction in air bag system and seat belt pre-tensioner system, and turns air bag warning lamp ON.
- Detects deployment malfunction in air bag system and seat belt pre-tensioner system, and turns air bag warning lamp ON.
- 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 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.
- Air bag diagnosis sensor unit warns the driver by turning air bag warning lamp ON when air bag diagnosis sensor unit detects battery high 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.

SYSTEM

< SYSTEM DESCRIPTION >

Air bag warning lamp operation	SRS condition
	No malfunction is detected
	<ul style="list-style-type: none"> • Air bag is deployed • Seat belt pre-tensioner is deployed • Air bag diagnosis sensor unit is malfunctioning • Air bag warning lamp circuit is malfunctioning • The system is malfunctioning • Battery voltage is low (less than 9 V) or high battery voltage (more than 16 V) • Self diagnostic result is not erased after repair
	<ul style="list-style-type: none"> • Air bag diagnosis sensor unit is malfunctioning • Air bag warning lamp circuit is malfunctioning

COLLISION MODES

The operation of SRS is different depending on the collision modes applications. For example, the driver air bag module, passenger air bag module, seat belt pre-tensioner and lap pre-tensioner are activated in a frontal collision.

SRS configurations that are activated for the following collision modes.

×: Apply —: Not apply

SRS configuration	Frontal collision	Rear collision	Left side collision	Right side collision
Driver air bag module	×	—	—*1	—*1
Passenger air bag module	×	—	—*1	—*1
Seat belt pre-tensioner LH	×	—*1	—*1	—*1
Seat belt pre-tensioner RH	×	—*1	—*1	—*1
Lap pre-tensioner LH (LHD models)	×	—*1	—*1	—*1
Lap pre-tensioner RH (RHD models)	×	—*1	—*1	—*1
Side air bag module LH	—*2	—	×	—*2
Side air bag module RH	—*3	—	—*3	×
Curtain air bag module LH	—*2	—	×	—*2

SYSTEM

< SYSTEM DESCRIPTION >

SRS configuration	Frontal collision	Rear collision	Left side collision	Right side collision
Curtain air bag module RH	— ^{*3}	—	— ^{*3}	×
Collision detection output function	×	×	×	×

*1: SRS may be activated when an excessive impact is applied toward the front of the vehicle.

*2: SRS may be activated when an excessive impact is applied toward the left of the vehicle.

*3: SRS may be activated when an excessive impact is applied toward the right of the vehicle.

PASSENGER AIR BAG CUTOFF FUNCTION

The passenger air bag module can change ON/OFF of the function by operating passenger air bag cutoff switch. The indicators in integral switch turn on/off according to the passenger air bag cutoff switch state.

- When passenger air bag cutoff switch is turned to the ON position, the passenger air bag module is enabled and could inflate for certain types of collision. And front passenger air bag on indicator turn on.
- When the switch is turned to the OFF position, the passenger air bag module is disabled and will not inflate. And front passenger air bag off indicator turn on.

NOTE:

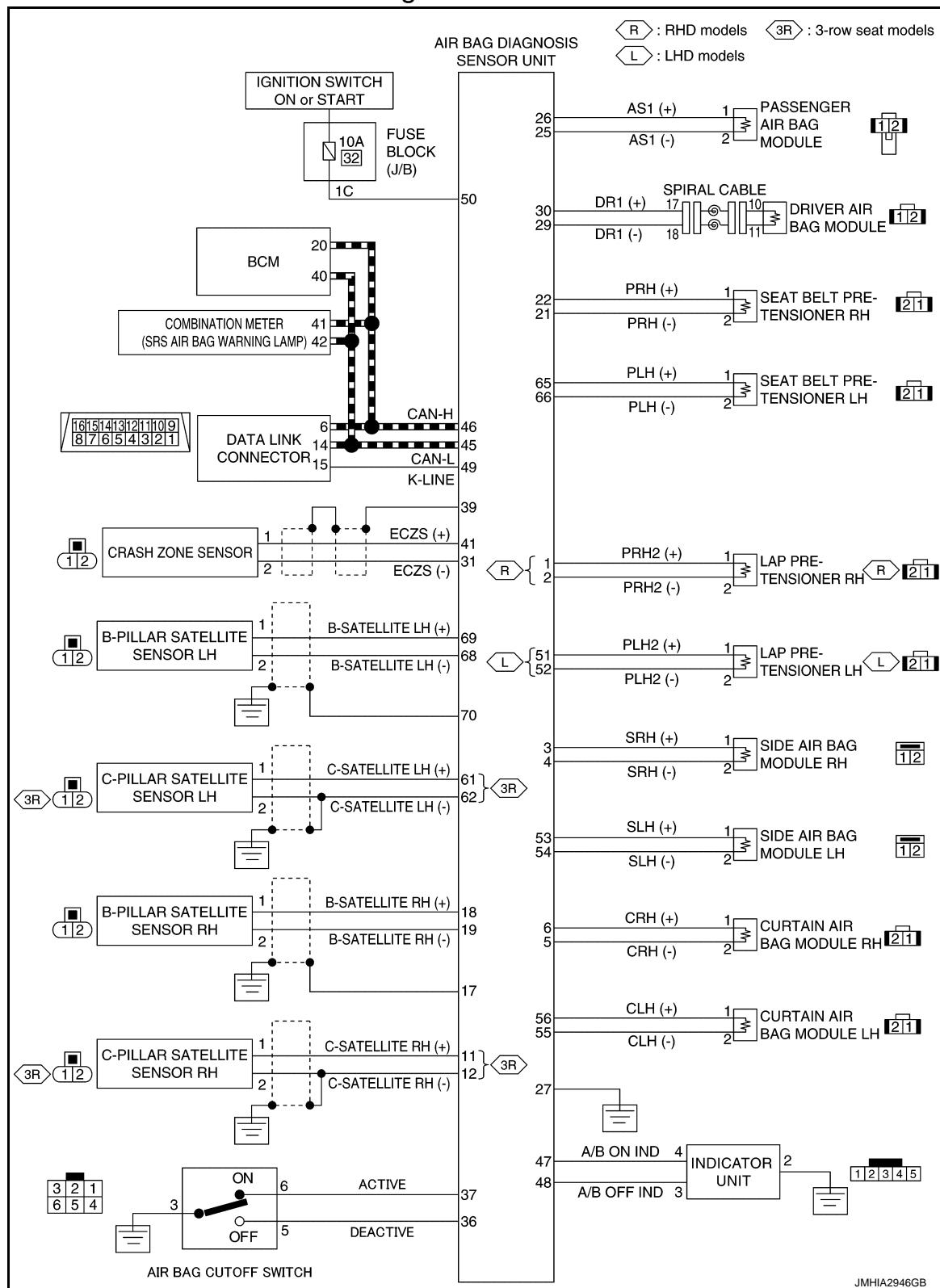
The driver side air bag module always remains enabled and is not affected by the passenger air bag cutoff switch.

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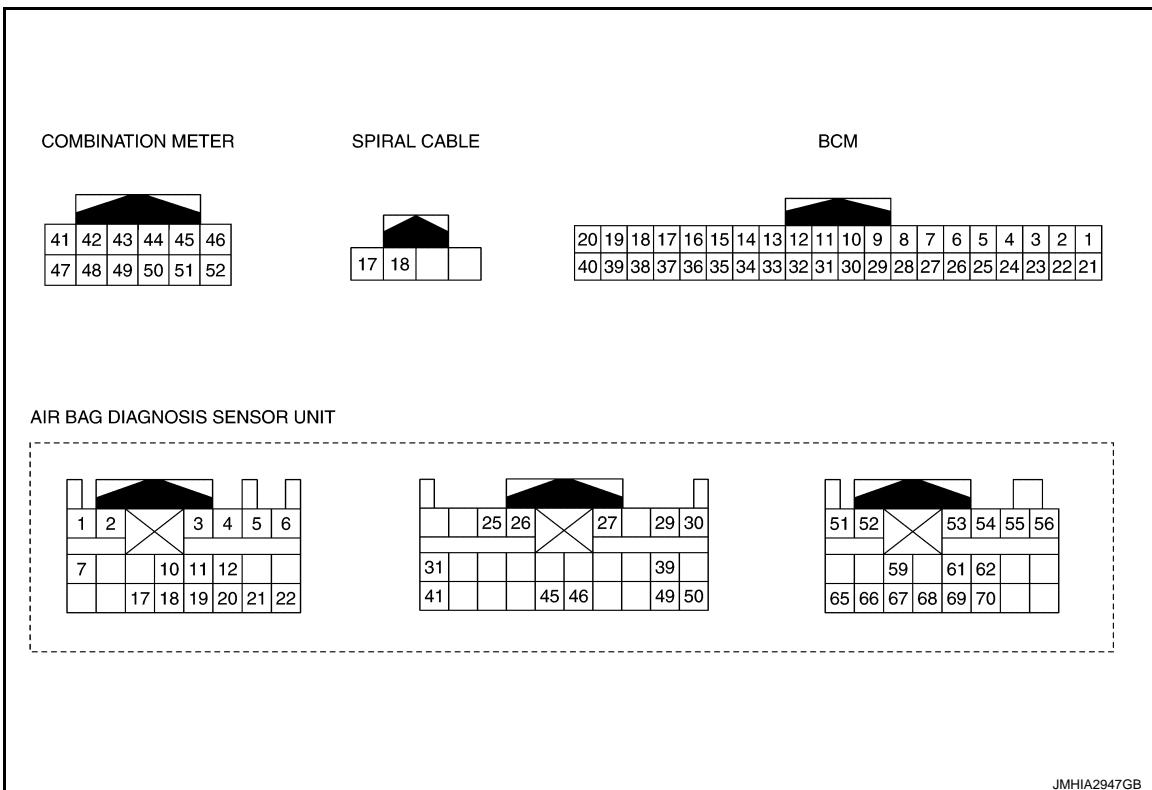
SRS AIR BAG SYSTEM : Circuit Diagram

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SYSTEM

< SYSTEM DESCRIPTION >



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WARNING/INDICATOR/CHIME LIST

WARNING/INDICATOR/CHIME LIST : Warning Lamp/Indicator Lamp

INFOID:0000000010688452

Item	Design	Reference
SRS air bag warning lamp		For layout, refer to MWI-10, "METER SYSTEM : Design".
		For function, refer to MWI-57, "WARNING LAMPS/INDICATOR LAMPS : SRS Air Bag Warning Lamp".

DIAGNOSIS SYSTEM (AIR BAG)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (AIR BAG)

CONSULT Function

INFOID:0000000010688453

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-18, "DTC Index".](#)

A

B

C

D

E

F

G

SRC

I

J

K

L

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DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

DIAGNOSIS SENSOR UNIT

DTC Index

INFOID:000000010688454

DTC	Diagnostic item	Reference page
U1000-01	CAN COMM CIRCUIT	SRC-33, "DTC Logic"
U1010-49	CONTROL UNIT (CAN)	SRC-34, "DTC Logic"
B0001-00	DRIVER AIRBAG MODULE	SRC-35, "DTC Description"
B0001-09		
B0001-11		
B0001-12		
B0001-13		
B0001-1A		
B0010-09	ASSIST A/B MODULE	SRC-38, "DTC Description"
B0010-11		
B0010-12		
B0010-13		
B0010-1A	SIDE A/B MODULE LH	SRC-40, "DTC Description"
B0020-09		
B0020-11		
B0020-12		
B0020-13		
B0020-1A	CURTAIN A/B MODULE LH	SRC-42, "DTC Description"
B0021-09		
B0021-11		
B0021-12		
B0021-13		
B0021-1A	SIDE A/B MODULE RH	SRC-44, "DTC Description"
B0028-09		
B0028-11		
B0028-12		
B0028-13	CURTAIN A/B MODULE RH	SRC-46, "DTC Description"
B0028-1A		
B0029-09		
B0029-11		
B0029-12		
B0029-13		
B0029-1A		

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

DTC	Diagnostic item	Reference page
B0091–11	B-PILLAR SAT SEN LH	SRC-48, "DTC Description"
B0091–23		
B0091–24		
B0091–25		
B0091–28		
B0091–81		
B0091–86		
B0091–88		
B0091–93		
B0092–11	C-PILLAR SAT SEN LH	SRC-50, "DTC Description"
B0092–23		
B0092–24		
B0092–25		
B0092–28		
B0092–81		
B0092–86		
B0092–88		
B0092–93		
B0094–11	CRASH ZONE SENS	SRC-52, "DTC Description"
B0094–23		
B0094–24		
B0094–25		
B0094–28		
B0094–81		
B0094–86		
B0094–88		
B0094–93		
B0096–11	B-PILLAR SAT SEN RH	SRC-54, "DTC Description"
B0096–23		
B0096–24		
B0096–25		
B0096–28		
B0096–81		
B0096–86		
B0096–88		
B0096–93		

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DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

DTC	Diagnostic item	Reference page
B0097-11	C-PILLAR SAT SEN RH	SRC-56, "DTC Description"
B0097-23		
B0097-24		
B0097-25		
B0097-28		
B0097-81		
B0097-86		
B0097-88		
B0097-93		
B0099-11	SATELLITE SENSOR	SRC-58, "DTC Description"
B0099-23		
B0099-24		
B0099-25		
B0099-28		
B0099-81		
B0099-86		
B0099-88		
B0099-93		
B00D2-04	PASS A/B ON INDCTR CIRC	SRC-60, "DTC Description"
B00D2-11		
B00D2-12		
B00D2-13		
B00D2-15		
B00D5-04	PASS A/B ON INDCTR CIRC	SRC-62, "DTC Description"
B00D5-11		
B00D5-12		
B00D5-13		
B00D5-15		
B00DF-52	PASS A/B DEACT SW	SRC-64, "DTC Description"
B1400-00	CONTROL UNIT	SRC-66, "DTC Description"
B1401-00		
B1402-00		
B1403-00		
B1404-00		
B1405-00		
B1406-00	CONTROL UNIT	SRC-68, "DTC Description"
B1407-00		
B1408-00		
B1409-00		
B1410-00		

DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

DTC	Diagnostic item	Reference page
B1411–00	CONTROL UNIT	SRC-70, "DTC Description"
B1412–00		
B1413–00		
B1414–00		
B1415–00		
B1416–00	CONTROL UNIT	SRC-72, "DTC Description"
B1417–00		
B1418–00		
B1419–00		
B1420–00		
B1421–00	FRONTAL COLLISION	SRC-74, "DTC Description"
B1422–00	SIDE COLLISION	SRC-75, "DTC Description"
B1425–00	REAR COLLISION	SRC-76, "DTC Description"
B1426–00	AIRBAG DISPOSAL DETECT	SRC-77, "DTC Description"
B1427–54	CONFIG SETTING	SRC-78, "DTC Description"
B1427–55		
B142A–16	IGNITION VOLTAGE	SRC-79, "DTC Description"
B142A–17		
B1430–09	PRE-TEN FRONT LH	SRC-81, "DTC Description"
B1430–11		
B1430–12		
B1430–13		
B1430–1A	PRE-TEN FRONT RH	SRC-83, "DTC Description"
B1431–09		
B1431–11		
B1431–12		
B1431–13		
B1431–1A	PRE-TEN FRONT LH 2	SRC-85, "DTC Description"
B1432–09		
B1432–11		
B1432–12		
B1432–13	PRE-TEN FRONT RH 2	SRC-87, "DTC Description"
B1432–1A		
B1433–09		
B1433–11		
B1433–12		
B1433–13		
B1433–1A		

SRS AIR BAG SYSTEM

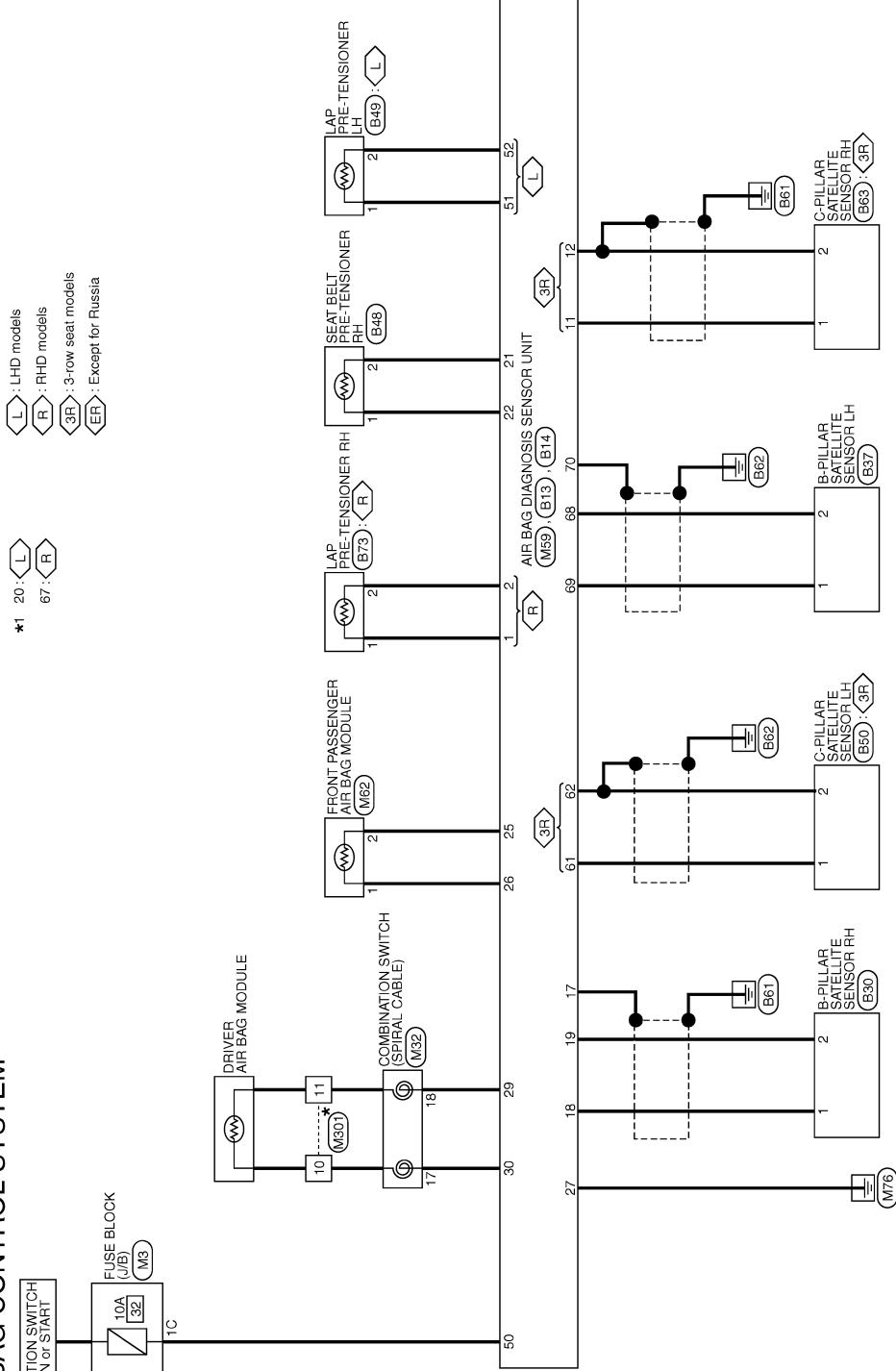
< WIRING DIAGRAM >

WIRING DIAGRAM SRS AIR BAG SYSTEM

Wiring Diagram

INFOID:0000000010688455

SRS AIR BAG CONTROL SYSTEM



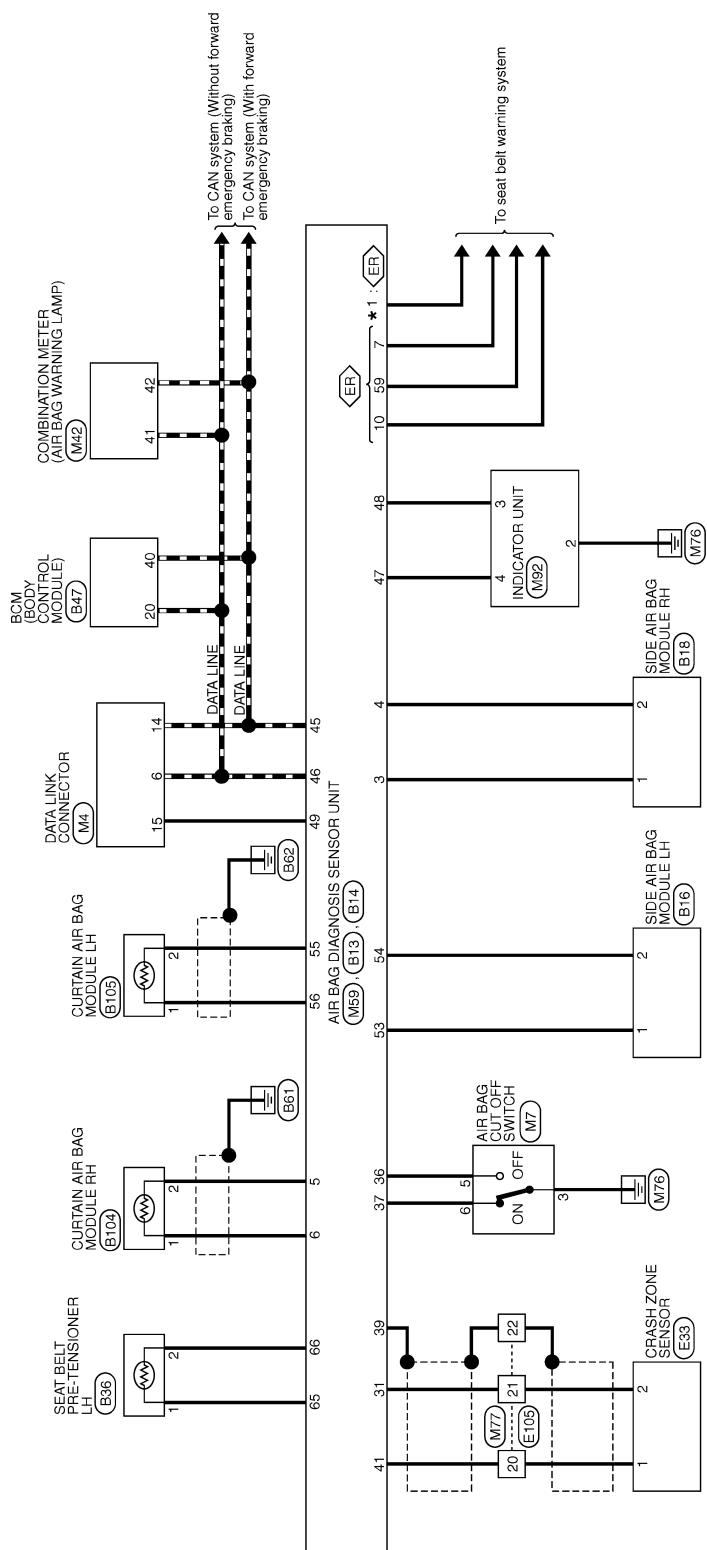
* : This connector is not shown in "Harness Layout".

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SRS AIR BAG SYSTEM

< WIRING DIAGRAM >



JRHWC2027GB

SRS AIR BAG SYSTEM

< WIRING DIAGRAM >

SRS AIR BAG CONTROL SYSTEM

Connector No.	B13	Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH22FY-1V-EX		
			
			
Connector No.	B30	Connector Name	B-PILLAR SATELLITE SENSOR RH
Connector Type	HK02FY-1V-EX		
			
Connector No.	B37	Connector Name	B-PILLAR SATELLITE SENSOR LH
Connector Type	HK02FY-1V-EX		
			

Terminal Color Of Wire No.	Signal Name (Specification)	Terminal Color Of Wire No.	Signal Name (Specification)
1	Y PRH2(+)	1	R -
2	L PRH2(-)	2	G -
3	V SRH(+)		
4	P SRH(-)		
5	B CRH(+)		
6	W CRH(-)		
7	P REAR SEAT BELT BUCKLE SWITCH/CLINCHER		
8	GR REAR SEAT BELT BUCKLE SWITCH/CLINCHER		
9	BR C-SATELLITE (RH+)		
10	GR C-SATELLITE (RH+)		
11	BR C-SATELLITE (RH+)		
12	Y C-SATELLITE (RH+)		

H.S.		H.S.	
			
17	SHIELD		
18	R	B-SATELLITE (RH+)	
19	G	B-SATELLITE (RH-)	
20	SB	SEAT BELT BUCKLE SWITCH (FRONT RH)	
21	V	PRW(4)	
22	LG	PRW(4)	

H.S.		H.S.	
			
17	GND		
18	R	B-SATELLITE (RH+)	
19	G	B-SATELLITE (RH-)	
20	SB	SEAT BELT BUCKLE SWITCH (FRONT RH)	
21	V	PRW(4)	
22	LG	PRW(4)	

Terminal No.	Color Of Wire	Signal Name [Specification]
51	G	PLH2(+)
52	R	PLH2(-)
53	V	SLH1(+)

SRS AIR BAG SYSTEM

< WIRING DIAGRAM >

SRS AIR BAG CONTROL SYSTEM

Connector No. B48	Connector No. B50	Connector No. B73	Connector No. B104
Connector Name SEAT BELT PRE-TENSIONER RH	Connector Name C-PILLAR SATELLITE SENSOR LH	Connector Name LAP PRE-TENSIONER RH	Connector Name CURTAIN AIRBAG MODULE RH
Connector Type ACB02FY	Connector Type HK02FY-TV-EX	Connector Type ACB02FOR	Connector Type ACB02FY
			
Terminal Color Of Wire No. 1 LG 2 V	Terminal Color Of Wire No. 1 L 2 P	Terminal Color Of Wire No. 1 Y 2 L	Terminal Color Of Wire No. 1 W 2 BR
Signal Name [Specification] - -	Signal Name [Specification] - -	Signal Name [Specification] - -	Signal Name [Specification] - -

Connector No. B49	Connector No. B63	Connector No. B73	Connector No. B104
Connector Name LAP PRE-TENSIONER LH	Connector Name C-PILLAR SATELLITE SENSOR RH	Connector Name LAP PRE-TENSIONER RH	Connector Name CURTAIN AIRBAG MODULE RH
Connector Type ACB02FOR	Connector Type HK02FY-TV-EX	Connector Type ACB02FOR	Connector Type HK02FY-TV-EX
			
Terminal Color Of Wire No. 1 G 2 R	Terminal Color Of Wire No. 1 BR 2 Y	Terminal Color Of Wire No. 1 W 2 B	Terminal Color Of Wire No. 1 W 2 B
Signal Name [Specification] - -	Signal Name [Specification] - -	Signal Name [Specification] - -	Signal Name [Specification] - -

JRHWC2029GB

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

SRS AIR BAG SYSTEM

< WIRING DIAGRAM >

SRS AIR BAG CONTROL SYSTEM

Connector No.	Signal Name [Specification]	Terminal Color Of No.	Wire	Signal Name [Specification]	Terminal Color Of No.	Wire	Signal Name [Specification]	Terminal Color Of No.	Wire	Signal Name [Specification]
E105	WIRE TO WIRE	65	LG	-	16	W	-	41	LG	-
Connector Name		66	BG	-	42	P	-	42	W	-
Connector Type	TH60FW-CS16-TM4	67	L	-	43	W	-	43	W	-
		68	R	-	44	W	-	44	W	-
		71	V	-	45	W	-	45	W	-
		72	L	-	46	W	-	46	W	-
		73	R	-	47	W	-	47	W	-
		76	L	-	48	W	-	48	W	-
		77	V	-	49	W	-	49	W	-
		78	LG	-	50	W	-	50	W	-
		79	SHIELD	-	51	W	-	51	W	-
		80	GR	-	52	W	-	52	W	-
		82	Y	-						
		83	SB	-						
		84	L	-						
		85	G	-						
		86	Y	-						
		87	B	-						
		88	B	-						
		89	R	-						
		90	W	-						
		92	BR	-						
		93	W	-						
		96	GR	-						
		97	R	-						
		98	V	-						
		99	Y	-						
		34	LG	-						
		35	BG	-						
		36	LG	-						
		37	V	-						
		38	G	-						
		39	BR	-						
		40	L	-						
		41	P	-						
		47	GR	-						
		48	SB	-						
		51	P	-						
		52	L	-						
		53	W	-						
		54	Y	-						
		55	BR	-						
		56	P	-						
		57	B	-						
		58	L	-						
		59	W	-						
		60	G	-						
		61	BR	-						
		62	V	-						
		63	BR	-						
		64	GR	-						

JRHWC2030GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

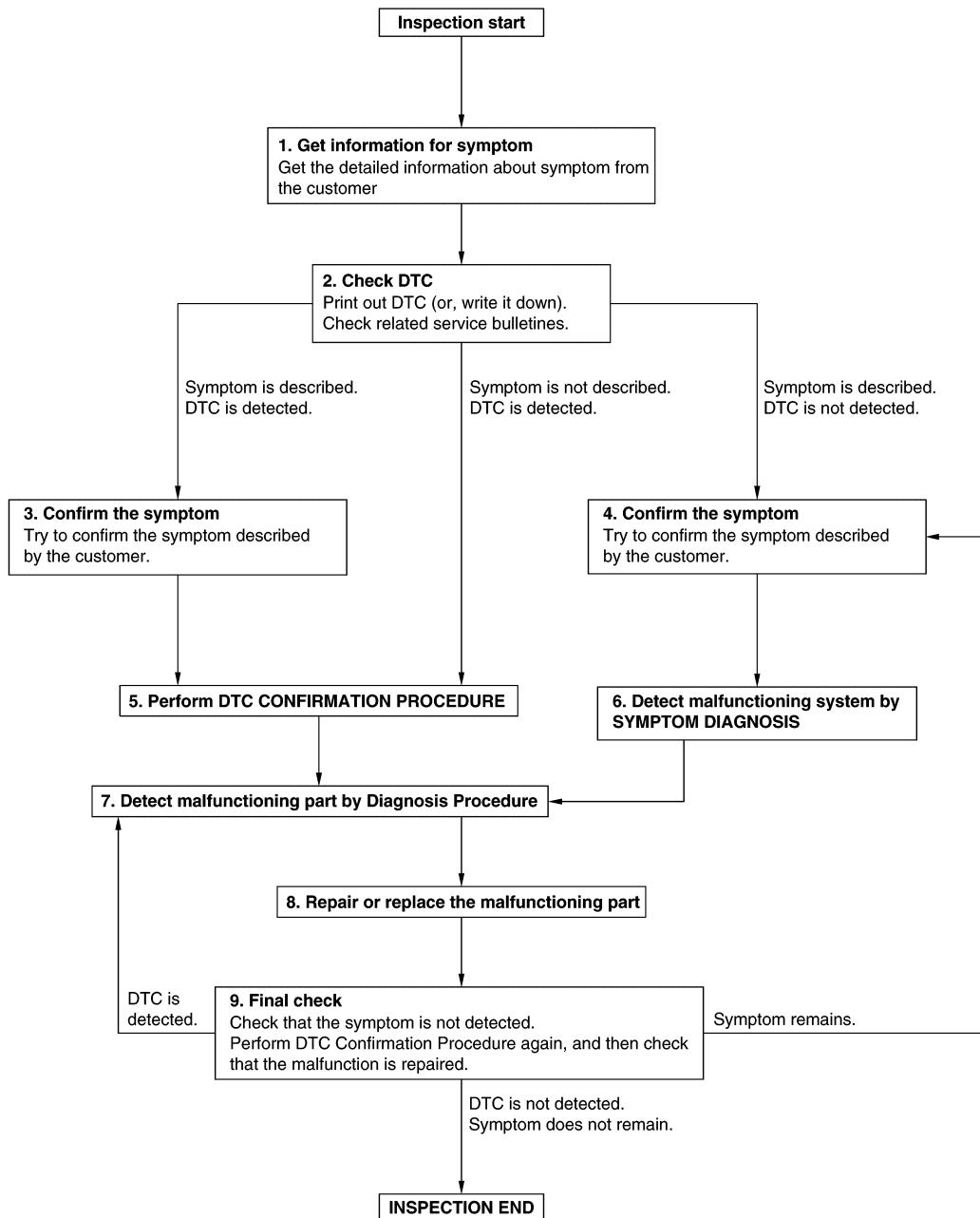
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000010688456

OVERALL SEQUENCE



DETAILED FLOW

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2. CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.
 - Record DTC (Print them out using CONSULT).
 - Erase DTC.
 - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

3. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to [GI-44, "Intermittent Incident"](#).

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 7.

7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-44, "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
3. Check DTC. If DTC is detected, erase it.

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

ADDITIONAL SERVICE WHEN REPLACING AIR BAG DIAGNOSIS SENSOR UNIT

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING AIR BAG DIAGNOSIS SENSOR UNIT

Description

INFOID:0000000010688457

BEFORE REPLACEMENT

When replacing air bag diagnosis sensor unit, save or print current vehicle specification with CONSULT configuration before replacement.

NOTE:

If "Before Replace ECU" of "Read / Write Configuration" cannot be used, use the "Manual Configuration" after replacing air bag diagnosis sensor unit.

AFTER REPLACEMENT

CAUTION:

Follow the instructions listed below. Failure to do this may cause malfunctions to the air bag diagnosis sensor unit.

- Never perform "Read / Write Configuration" or "Manual Configuration" except for new air bag diagnosis sensor unit.
- When replacing air bag diagnosis sensor unit, you must perform "Read / Write Configuration" or "Manual Configuration" with CONSULT.
- Complete the procedure of "Read / Write Configuration" or "Manual Configuration" in order.
- If you set incorrect "Read / Write Configuration" or "Manual Configuration", incidents might occur.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.

Work Procedure

INFOID:0000000010688458

SRC

1. SAVING VEHICLE SPECIFICATION

CONSULT Configuration

Perform "Before Replace ECU" of "Read / Write Configuration" to save or print current vehicle specification.

NOTE:

If "Before Replace ECU" of "Read / Write Configuration" cannot be used, use the "Manual Configuration" after replacing air bag diagnosis sensor unit.

>> GO TO 2.

2. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION

CONSULT Configuration

Perform "After Replace ECU" of "Read / Write Configuration" or "Manual Configuration" to write vehicle specification. Refer to [SRC-32, "Work Procedure"](#).

>> WORK END

CONFIGURATION (AIR BAG DIAGNOSIS SENSOR UNIT)

< BASIC INSPECTION >

CONFIGURATION (AIR BAG DIAGNOSIS SENSOR UNIT)

Work Procedure

INFOID:0000000010688459

1. WRITING MODE SELECTION

④ CONSULT Configuration

Select “Re/programming, Configuration” of air bag.

When writing saved data>>GO TO 2.

When writing manually>>GO TO 3.

2. PERFORM “AFTER REPLACE ECU” OF “READ / WRITE CONFIGURATION”

④ CONSULT Configuration

Perform “After Replace ECU” of “Read / Write Configuration”.

>> GO TO 4.

3. PERFORM “MANUAL CONFIGURATION”

④ CONSULT Configuration

1. Select “Manual Configuration”.
2. Touch “Next”.
3. Select the “Type ID” searched by using FAST (service parts catalogue) to write the “Type ID” into the air bag diagnosis sensor unit.
4. Touch “OK”.
5. Check that the configuration has been successfully written and touch “End”.

>> GO TO 4.

4. CHECK ALL ECU SELF-DIAGNOSIS RESULTS

1. Erase all ECU self-diagnosis results using CONSULT.
2. Turn the ignition switch OFF.
3. Turn the ignition switch ON.
4. Check that all ECU self-diagnosis results have no DTC.

>> WORK END

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000010688460

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-33, "CAN COMMUNICATION SYSTEM : CAN System Specification Chart"](#).

DTC Logic

INFOID:0000000010688461

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC Detection Condition
U1000-01	CAN COMM CIRCUIT (CAN communication circuit)	When air bag diagnosis sensor unit cannot communicate CAN communication signal continuously for 2 seconds or more.

POSSIBLE CAUSE

CAN communication system

SRC

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

With CONSULT

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Is malfunctioning part detected?

YES >> Refer to [SRC-33, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688462

1. PERFORM SELF DIAGNOSTIC

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

Is DTC "U1000-01" displayed?

YES >> Refer to [LAN-17, "Trouble Diagnosis Flow Chart"](#).

NO >> Refer to [GI-44, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:0000000010688463

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC Detection Condition
U1010-49	CONTROL UNIT (CAN) [Control unit (CAN)]	Air bag diagnosis sensor unit detected internal CAN communication circuit malfunction.

POSSIBLE CAUSE

Air bag diagnosis sensor unit

FAIL-SAFE

—

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-34, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688464

1. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

When DTC "U1010-49" is detected, replace air bag diagnosis sensor unit.

>> Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).

B0001 DRIVER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0001 DRIVER AIR BAG MODULE

DTC Description

INFOID:0000000010688465

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B0001-00	DRIVER AIRBAG MODULE [Driver Frontal Stage 1 Deployment Control (Subfault)]	Driver air bag module circuits are shorted to each other (including the spiral cable)
B0001-09		Driver air bag module circuits are shorted to each other (including the spiral cable)
B0001-11		Driver air bag module circuit is shorted to ground (including the spiral cable)
B0001-12		Driver air bag module circuit is shorted to power supply circuit (including the spiral cable)
B0001-13		Driver air bag module circuit is open (including the spiral cable)
B0001-1A		Driver air bag module circuits are shorted to each other (including the spiral cable)

POSSIBLE CAUSE

[B0001-00, B0001-09, B0001-1A]

- Connection malfunction or short circuit of harness and connector
- Internal malfunction of driver air bag module
- Internal malfunction of air bag diagnosis sensor unit

SRC

[B0001-11]

- 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

I

[B0001-12]

- 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

J

[B0001-13]

- Connection malfunction or open circuit of harness and connector
- Internal malfunction of driver air bag module
- Internal malfunction of air bag diagnosis sensor unit

K

FAIL-SAFE

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.

N

Is malfunctioning part detected?

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YES >> Refer to [SRC-35, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688466

WARNING:

B0001 DRIVER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

- 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 for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

3. CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

[B0001-13]>> GO TO 4.

[B0001-12]>> GO TO 8.

[B0001-09]>> GO TO 5.

[B0001-00, B0001-09, B0001-1A]>> GO TO 6.

4. CHECK SPIRAL CABLE CIRCUIT 1

1. Turn ignition switch OFF.

2. Disconnect driver air bag module connector and combination switch (spiral cable) connector.

3. Check continuity between spiral cable terminals.

Terminal		Continuity
1	17	Existed
2	18	

Is the inspection result normal?

YES >> GO TO 9.

NO >> Replace spiral cable. Refer to [SR-23, "Removal and Installation"](#).

5. CHECK SPIRAL CABLE CIRCUIT 2

1. Turn ignition switch OFF.

2. Disconnect driver air bag module connector and combination switch (spiral cable) connector.

3. Check continuity between spiral cable terminal and ground.

Terminal	Ground	Continuity
1		Not existed
2		

Is the inspection result normal?

YES >> GO TO 9.

NO >> Replace spiral cable. Refer to [SR-23, "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 spiral cable terminals.

B0001 DRIVER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

Terminal	Continuity
1	2
	Not existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace spiral cable. Refer to [SR-23, "Removal and Installation"](#).

7.CHECK SPIRAL CABLE CIRCUIT 4

Check continuity between spiral cable terminals.

Terminal	Continuity
17	18
	Not existed

Is the inspection result normal?

YES >> GO TO 9.

NO >> Replace spiral cable. Refer to [SR-23, "Removal and Installation"](#).

8.REPLACE SPIRAL CABLE

1. Replace spiral cable. Refer to [SR-23, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-35, "DTC Description"](#).

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-19, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-35, "DTC Description"](#).

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-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-35, "DTC Description"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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B0010 PASSENGER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0010 PASSENGER AIR BAG MODULE

DTC Description

INFOID:0000000010688467

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B0010-09	ASSIST A/B MODULE [Passenger Frontal Stage 1 Deployment Control (Subfault)]	Passenger air bag module circuits are shorted to each other
B0010-11		Passenger air bag module circuit is shorted to ground
B0010-12		Passenger air bag module circuit is shorted to power supply circuit
B0010-13		Passenger air bag module circuit is open
B0010-1A		Passenger air bag module circuits are shorted to each other

POSSIBLE CAUSE

[B0010-09, B0010-1A]

- Connection malfunction or short circuit of harness and connector
- Internal malfunction of passenger air bag module
- Internal malfunction of air bag diagnosis sensor unit

[B0010-11]

- 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

[B0010-12]

- 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

[B0010-13]

- Connection malfunction or open circuit of harness and connector
- Internal malfunction of passenger air bag module
- Internal malfunction of air bag diagnosis sensor unit

FAIL-SAFE

—

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-38, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688468

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 for disconnection, looseness or damage.

Is the inspection result normal?

B0010 PASSENGER AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

A

2.CHECK WIRING HARNESS

Check the wiring harness externals.

B

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

C

3.REPLACE PASSENGER AIR BAG MODULE

1. Replace passenger air bag module. Refer to [SR-26, "Removal and Installation"](#)

D

2. Perform DTC confirmation procedure. Refer to [SRC-38, "DTC Description"](#).

E

Is DTC detected?

YES >> GO TO 4.

F

NO >> INSPECTION END

G

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).

H

2. Perform DTC confirmation procedure. Refer to [SRC-38, "DTC Description"](#).

I

Is DTC detected?

J

YES >> GO TO 1.

K

NO >> INSPECTION END

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B0020 SIDE AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0020 SIDE AIR BAG MODULE

DTC Description

INFOID:0000000010688469

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B0020-09	SIDE A/B MODULE LH [Left Side Airbag Deployment Control (Sub-fault)]	Side air bag module LH circuits are shorted to each other
B0020-11		Side air bag module LH circuit is shorted to ground
B0020-12		Side air bag module LH circuit is shorted to power supply circuit
B0020-13		Side air bag module LH circuit is open
B0020-1A		Side air bag module LH circuits are shorted to each other

POSSIBLE CAUSE

[B0020-09, B0020-1A]

- 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

[B0020-11]

- 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

[B0020-12]

- 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

[B0020-13]

- 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

FAIL-SAFE

—

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-40, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688470

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 for disconnection, looseness or damage.

Is the inspection result normal?

B0020 SIDE AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

A

2.CHECK WIRING HARNESS

Check the wiring harness externals.

B

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

C

3.REPLACE SIDE AIR BAG MODULE LH

1. Replace side air bag module LH. Refer to [SR-28, "Removal and Installation"](#).

D

2. Perform DTC confirmation procedure. Refer to [SRC-40, "DTC Description"](#).

E

Is DTC detected?

YES >> GO TO 4.

F

NO >> INSPECTION END

G

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).

H

2. Perform DTC confirmation procedure. Refer to [SRC-40, "DTC Description"](#).

I

Is DTC detected?

J

YES >> GO TO 1.

K

NO >> INSPECTION END

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B0021 CURTAIN AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0021 CURTAIN AIR BAG MODULE

DTC Description

INFOID:0000000010688471

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B0021-09	CURTAIN A/B MODULE LH [Left Curtain Deployment Control 1 (Subfault)]	Curtain air bag module LH circuits are shorted to each other
B0021-11		Curtain air bag module LH circuit is shorted to ground
B0021-12		Curtain air bag module LH circuit is shorted to power supply circuit
B0021-13		Curtain air bag module LH circuit is open
B0021-1A		Curtain air bag module LH circuits are shorted to each other

POSSIBLE CAUSE

[B0021-09, B0021-1A]

- 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

[B0021-11]

- 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

[B0021-12]

- 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

[B0021-13]

- 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

FAIL-SAFE

—

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-42, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688472

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 for disconnection, looseness or damage.

Is the inspection result normal?

B0021 CURTAIN AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

A

2.CHECK WIRING HARNESS

Check the wiring harness externals.

B

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

C

3.REPLACE CURTAIN AIR BAG MODULE LH

1. Replace curtain air bag module LH. Refer to [SR-29, "Removal and Installation"](#).

D

2. Perform DTC confirmation procedure. Refer to [SRC-42, "DTC Description"](#).

E

Is DTC detected?

YES >> GO TO 4.

F

NO >> INSPECTION END

G

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).

H

2. Perform DTC confirmation procedure. Refer to [SRC-42, "DTC Description"](#).

I

Is DTC detected?

YES >> GO TO 1.

J

NO >> INSPECTION END

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B0028 SIDE AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0028 SIDE AIR BAG MODULE

DTC Description

INFOID:0000000010688473

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B0028-09	SIDE A/B MODULE RH [Right Side Airbag Deployment Control (Sub-fault)]	Side air bag module RH circuits are shorted to each other
B0028-11		Side air bag module RH circuit is shorted to ground
B0028-12		Side air bag module RH circuit is shorted to power supply circuit
B0028-13		Side air bag module RH circuit is open
B0028-1A		Side air bag module RH circuits are shorted to each other

POSSIBLE CAUSE

[B0028-09, B0028-1A]

- 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

[B0028-11]

- 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

[B0028-12]

- 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

[B0028-13]

- 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

FAIL-SAFE

—

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-44, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688474

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 for disconnection, looseness or damage.

Is the inspection result normal?

B0028 SIDE AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

A

2.CHECK WIRING HARNESS

Check the wiring harness externals.

B

Is the inspection result normal?

C

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

D

3.REPLACE SIDE AIR BAG MODULE RH

1. Replace side air bag module RH. Refer to [SR-28, "Removal and Installation"](#).

E

2. Perform DTC confirmation procedure. Refer to [SRC-44, "DTC Description"](#).

F

Is DTC detected?

G

YES >> GO TO 4.

H

NO >> INSPECTION END

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).

I

2. Perform DTC confirmation procedure. Refer to [SRC-44, "DTC Description"](#).

J

Is DTC detected?

K

YES >> GO TO 1.

L

NO >> INSPECTION END

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B0029 CURTAIN AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

B0029 CURTAIN AIR BAG MODULE

DTC Description

INFOID:0000000010688475

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B0029-09	CURTAIN A/B MODULE RH [Right Curtain Deployment Control 1 (Sub-fault)]	Curtain air bag module RH circuits are shorted to each other
B0029-11		Curtain air bag module RH circuit is shorted to ground
B0029-12		Curtain air bag module RH circuit is shorted to power supply circuit
B0029-13		Curtain air bag module RH circuit is open
B0029-1A		Curtain air bag module RH circuits are shorted to each other

POSSIBLE CAUSE

[B0029-09, B0029-1A]

- 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

[B0029-11]

- 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

[B0029-12]

- 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

[B0029-13]

- 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

FAIL-SAFE

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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.

Is malfunctioning part detected?

YES >> Refer to [SRC-46, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688476

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 for disconnection, looseness or damage.

Is the inspection result normal?

B0029 CURTAIN AIR BAG MODULE

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

A

2.CHECK WIRING HARNESS

Check the wiring harness externals.

B

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

C

3.REPLACE CURTAIN AIR BAG MODULE RH

1. Replace curtain air bag module RH. Refer to [SR-29, "Removal and Installation"](#).

D

2. Perform DTC confirmation procedure. Refer to [SRC-46, "DTC Description"](#).

E

Is DTC detected?

YES >> GO TO 4.

F

NO >> INSPECTION END

G

4.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).

H

2. Perform DTC confirmation procedure. Refer to [SRC-46, "DTC Description"](#).

I

Is DTC detected?

YES >> GO TO 1.

J

NO >> INSPECTION END

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B0091 B-PILLAR SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B0091 B-PILLAR SATELLITE SENSOR

DTC Description

INFOID:0000000010688477

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B0091-11	B-PILLAR SAT SEN LH [Left Side Restraints Sensor 1 (Subfault)]	B-pillar satellite sensor LH circuit is shorted to ground
B0091-23		Lower limit value malfunction of B-pillar satellite sensor LH
B0091-24		Upper limit value malfunction of B-pillar satellite sensor LH
B0091-25		Diagnosis malfunction of B-pillar satellite sensor LH
B0091-28		Offset malfunction of B-pillar satellite sensor LH
B0091-81		Communication malfunction of B-pillar satellite sensor LH
B0091-86		B-pillar satellite sensor LH is out of the specified specification
B0091-88		B-pillar satellite sensor LH circuit is open
B0091-93		Reset malfunction of B-pillar satellite sensor LH

POSSIBLE CAUSE

[B0091-11]

- 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

[B0091-23, B0091-24, B0091-25, B0091-28]

- Internal malfunction of B-pillar satellite sensor LH
- Internal malfunction of air bag diagnosis sensor unit

[B0091-81, B0091-93]

- Connection malfunction of harness or connector
- Internal malfunction of B-pillar satellite sensor LH
- Internal malfunction of air bag diagnosis sensor unit

[B0091-86]

- Air bag diagnosis sensor unit and B-pillar satellite sensor LH is different from the part specified

[B0091-88]

- 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

FAIL-SAFE

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-48, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688478

WARNING:

B0091 B-PILLAR SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

- 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?

[B0091-86]>> GO TO 4.

Other than the above>> GO TO 2.

2. CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

3. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning harness and connector.

4. REPLACE B-PILLAR SATELLITE SENSOR LH

1. Replace B-pillar satellite sensor LH. Refer to [SR-33, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-48, "DTC Description"](#).

SRC

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-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-48, "DTC Description"](#).

I

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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B0092 C-PILLAR SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B0092 C-PILLAR SATELLITE SENSOR

DTC Description

INFOID:0000000010688479

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B0092-11	C-PILLAR SAT SEN LH [Left Side Restraints Sensor 2 (Subfault)]	C-pillar satellite sensor LH circuit is shorted to ground
B0092-23		Lower limit value malfunction of C-pillar satellite sensor LH
B0092-24		Upper limit value malfunction of C-pillar satellite sensor LH
B0092-25		Diagnosis malfunction of C-pillar satellite sensor LH
B0092-28		Offset malfunction of C-pillar satellite sensor LH
B0092-81		Communication malfunction of C-pillar satellite sensor LH
B0092-86		C-pillar satellite sensor LH is out of the specified specification
B0092-88		C-pillar satellite sensor LH circuit is open
B0092-93		Reset malfunction of C-pillar satellite sensor LH

POSSIBLE CAUSE

[B0092-11]

- Connection malfunction or short circuit to ground of harness and connector
- Internal malfunction of C-pillar satellite sensor LH
- Internal malfunction of air bag diagnosis sensor unit

[B0092-23, B0092-24, B0092-25, B0092-28]

- Internal malfunction of C-pillar satellite sensor LH
- Internal malfunction of air bag diagnosis sensor unit

[B0092-81, B0092-91]

- Connection malfunction of harness or connector
- Internal malfunction of C-pillar satellite sensor LH
- Internal malfunction of air bag diagnosis sensor unit

[B0092-86]

- Air bag diagnosis sensor unit and C-pillar satellite sensor LH is different from the part specified

[B0092-88]

- Connection malfunction or open circuit of harness and connector
- Internal malfunction of C-pillar satellite sensor LH
- Internal malfunction of air bag diagnosis sensor unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

① With CONSULT

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

Is malfunctioning part detected?

YES >> Refer to [SRC-50, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688480

WARNING:

B0092 C-PILLAR SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

- 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?

[B0092-86]>> GO TO 4.

Other than the above>> GO TO 2.

2. CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

3. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning harness and connector.

4. REPLACE C-PILLAR SATELLITE SENSOR LH

1. Replace C-pillar satellite sensor LH. Refer to [SR-33, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-50, "DTC Description"](#).

SRC

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-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-50, "DTC Description"](#).

I

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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B0094 CRASH ZONE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B0094 CRASH ZONE SENSOR

DTC Description

INFOID:0000000010688481

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B0094-11	CRASH ZONE SENS [Center Frontal Restraints Sensor (Subfault)]	Crash zone sensor circuit is shorted to ground
B0094-23		Lower limit value malfunction of crash zone sensor
B0094-24		Upper limit value malfunction of crash zone sensor
B0094-25		Diagnosis malfunction of crash zone sensor
B0094-28		Offset malfunction of crash zone sensor
B0094-81		Communication malfunction of crash zone sensor
B0094-86		Crash zone sensor is out of the specified specification
B0094-88		Crash zone sensor circuit is open
B0094-93		Reset malfunction of crash zone sensor

POSSIBLE CAUSE

[B0094-11]

- 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

[B0094-23, B0094-24, B0094-25, B0094-28]

- Internal malfunction of crash zone sensor
- Internal malfunction of air bag diagnosis sensor unit

[B0094-81, B0094-93]

- Connection malfunction of harness or connector
- Internal malfunction of crash zone sensor
- Internal malfunction of air bag diagnosis sensor unit

[B0094-86]

- Air bag diagnosis sensor unit and crash zone sensor is different from the part specified

[B0094-88]

- Connection malfunction or open circuit of harness and connector
- Internal malfunction of crash zone sensor
- Internal malfunction of air bag diagnosis sensor unit

FAIL-SAFE

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-52, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688482

WARNING:

B0094 CRASH ZONE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

- 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?

[B0094-86]>> GO TO 4.

Other than the above>> GO TO 2.

2.CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

3.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning harness and connector.

4.REPLACE CRASH ZONE SENSOR

1. Replace crash zone. Refer to [SR-31, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-52, "DTC Description"](#).

SRC

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-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-52, "DTC Description"](#).

I

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

J

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B0096 B-PILLAR SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B0096 B-PILLAR SATELLITE SENSOR

DTC Description

INFOID:0000000010688483

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B0096-11	B-PILLAR SAT SEN RH [Right Frontal Restraints Sensor 1(Subfault)]	B-pillar satellite sensor RH circuit is shorted to ground
B0096-23		Lower limit value malfunction of B-pillar satellite sensor RH
B0096-24		Upper limit value malfunction of B-pillar satellite sensor RH
B0096-25		Diagnosis malfunction of B-pillar satellite sensor RH
B0096-28		Offset malfunction of B-pillar satellite sensor RH
B0096-81		Communication malfunction of B-pillar satellite sensor RH
B0096-86		B-pillar satellite sensor RH is out of the specified specification
B0096-88		B-pillar satellite sensor RH circuit is open
B0096-93		Reset malfunction of B-pillar satellite sensor RH

POSSIBLE CAUSE

[B0096-11]

- 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

[B0096-23, B0096-24, B0096-25, B0096-28]

- Internal malfunction of B-pillar satellite sensor RH
- Internal malfunction of air bag diagnosis sensor unit

[B0096-81, B0096-93]

- Connection malfunction of harness or connector
- Internal malfunction of B-pillar satellite sensor RH
- Internal malfunction of air bag diagnosis sensor unit

[B0096-86]

- Air bag diagnosis sensor unit and B-pillar satellite sensor RH is different from the part specified

[B0096-88]

- 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

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

① With CONSULT

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

Is malfunctioning part detected?

YES >> Refer to [SRC-54, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688484

WARNING:

B0096 B-PILLAR SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

- 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?

[B0096-86] >> GO TO 4.

Other than the above >> GO TO 2.

2. CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

3. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning harness and connector.

4. REPLACE B-PILLAR SATELLITE SENSOR RH

1. Replace B-pillar satellite sensor RH. Refer to [SR-33, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-54, "DTC Description"](#).

SRC

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-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-54, "DTC Description"](#).

I

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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B0097 C-PILLAR SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B0097 C-PILLAR SATELLITE SENSOR

DTC Description

INFOID:0000000010688485

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B0097-11	C-PILLAR SAT SEN RH [Right Frontal Restraints Sensor 2 (Subfault)]	C-pillar satellite sensor RH circuit is shorted to ground
B0097-23		Lower limit value malfunction of C-pillar satellite sensor RH
B0097-24		Upper limit value malfunction of C-pillar satellite sensor RH
B0097-25		Diagnosis malfunction of C-pillar satellite sensor RH
B0097-28		Offset malfunction of C-pillar satellite sensor RH
B0097-81		Communication malfunction of C-pillar satellite sensor RH
B0097-86		C-pillar satellite sensor RH is out of the specified specification
B0097-88		C-pillar satellite sensor RH circuit is open
B0097-93		Reset malfunction of C-pillar satellite sensor RH

POSSIBLE CAUSE

[B0097-11]

- Connection malfunction or short circuit to ground of harness and connector
- Internal malfunction of C-pillar satellite sensor RH
- Internal malfunction of air bag diagnosis sensor unit

[B0097-23, B0097-24, B0097-25, B0097-28]

- Internal malfunction of C-pillar satellite sensor RH
- Internal malfunction of air bag diagnosis sensor unit

[B0097-81, B0097-93]

- Connection malfunction of harness or connector
- Internal malfunction of C-pillar satellite sensor RH
- Internal malfunction of air bag diagnosis sensor unit

[B0097-86]

- Air bag diagnosis sensor unit and C-pillar satellite sensor RH is different from the part specified

[B0097-88]

- Connection malfunction or open circuit of harness and connector
- Internal malfunction of C-pillar satellite sensor RH
- Internal malfunction of air bag diagnosis sensor unit

FAIL-SAFE

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-56, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688486

WARNING:

B0097 C-PILLAR SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

- 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?

[B0097-86] >> GO TO 4.

Other than the above >> GO TO 2.

2. CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

3. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning harness and connector.

4. REPLACE C-PILLAR SATELLITE SENSOR RH

1. Replace C-pillar satellite sensor RH. Refer to [SR-33, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-56, "DTC Description"](#).

SRC

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-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-56, "DTC Description"](#).

I

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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B0099 SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

B0099 SATELLITE SENSOR

DTC Description

INFOID:0000000010688487

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B0099-11	SATELLITE SENSOR [Roll Over Sensor (Subfault)]	Other satellite sensor circuit is shorted to ground
B0099-23		Lower limit value malfunction of other satellite sensor
B0099-24		Upper limit value malfunction of other satellite sensor
B0099-25		Diagnosis malfunction of other satellite sensor
B0099-28		Offset malfunction of other satellite sensor
B0099-81		Communication malfunction of other satellite sensor
B0099-86		Other satellite sensor is out of the specified specification
B0099-88		Other satellite sensor circuit is open
B0099-93		Reset malfunction of other satellite sensor

POSSIBLE CAUSE

[B0099-11]

- Connection malfunction or short circuit to ground of harness and connector
- Internal malfunction of other satellite sensor
- Internal malfunction of air bag diagnosis sensor unit

[B0099-23, B0099-24, B0099-25, B0099-28]

- Internal malfunction of other satellite sensor
- Internal malfunction of air bag diagnosis sensor unit

[B0099-81, B0099-93]

- Connection malfunction of harness or connector
- Internal malfunction of other satellite sensor
- Internal malfunction of air bag diagnosis sensor unit

[B0099-86]

- Air bag diagnosis sensor unit and other satellite sensor is different from the part specified

[B0099-88]

- Connection malfunction or open circuit of harness and connector
- Internal malfunction of other satellite 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.

Is malfunctioning part detected?

YES >> Refer to [SRC-58, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688488

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.

B0099 SATELLITE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

1. CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

[B0099-86] >> GO TO 4.

Other than the above >> GO TO 2.

2. CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

3. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning harness and connector.

4. REPLACE OTHER SATELLITE SENSOR

1. Replace other satellite sensor. Refer to [SR-33, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-58, "DTC Description"](#).

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-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-58, "DTC Description"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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B00D2 FRONT PASSENGER AIR BAG ON INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

B00D2 FRONT PASSENGER AIR BAG ON INDICATOR

DTC Description

INFOID:0000000010842521

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B00D2-04	PASS A/B ON INDCTR CIRC [Restraint System Malfunction Indicator 1 (Subfault)]	Malfunction in front passenger air bag ON indicator circuit
B00D2-11		Front passenger air bag ON indicator circuit is shorted to ground
B00D2-12		Front passenger air bag ON indicator circuit is shorted to power supply circuit
B00D2-13		Front passenger air bag ON indicator circuit is open
B00D2-15		Front passenger air bag ON indicator circuit is open or shorted to power supply circuit

POSSIBLE CAUSE

[B00D2-04]

- Internal malfunction of front passenger air bag ON indicator
- Internal malfunction of air bag diagnosis sensor unit

[B00D2-11]

- Connection malfunction or short circuit to ground of harness and connector
- Internal malfunction of front passenger air bag ON indicator
- Internal malfunction of air bag diagnosis sensor unit

[B00D2-12]

- Connection malfunction or short circuit to power supply of harness and connector
- Internal malfunction of front passenger air bag ON indicator
- Internal malfunction of air bag diagnosis sensor unit

[B00D2-13]

- Connection malfunction or open circuit of harness and connector
- Internal malfunction of front passenger air bag ON indicator
- Internal malfunction of air bag diagnosis sensor unit

[B00D2-15]

- Connection malfunction or short circuit to power supply of harness and connector
- Connection malfunction or open circuit of harness and connector
- Internal malfunction of front passenger air bag ON indicator
- Internal malfunction of air bag diagnosis sensor unit

FAIL-SAFE

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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.

Is malfunctioning part detected?

YES >> Refer to [SRC-60, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010842522

WARNING:

B00D2 FRONT PASSENGER AIR BAG ON INDICATOR

< 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.

A

DIAGNOSTIC PROCEDURE

1. CHECK HARNESS CONNECTOR

B

Check the harness connector for disconnection, looseness or damage.

C

Is the inspection result normal?

D

YES >> GO TO 2.

E

NO-1 >> Damage: Replace malfunctioning harness and connector.

F

NO-2 >> Disconnection or looseness: Securely lock the connector.

G

2. CHECK WIRING HARNESS

H

Check the wiring harness externals.

I

Is the inspection result normal?

J

YES >> GO TO 3.

K

NO >> Replace malfunctioning harness and connector.

L

3. CHECK FRONT PASSENGER AIR BAG ON INDICATOR

M

1. Replace indicator unit. Refer to [HAC-125, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-60, "DTC Description"](#).

N

Is DTC detected?

O

YES >> GO TO 4.

P

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

SRC

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-60, "DTC Description"](#).

Is DTC detected?

I

YES >> GO TO 1.

J

NO >> INSPECTION END

B00D5 FRONT PASSENGER AIR BAG OFF INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

B00D5 FRONT PASSENGER AIR BAG OFF INDICATOR

DTC Description

INFOID:0000000010842523

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B00D5-04	PASS A/B INDCTR CKT [Restraint System Passenger Disable Indicator (Subfault)]	Malfunction in front passenger air bag OFF indicator circuit
B00D5-11		Front passenger air bag OFF indicator circuit is shorted to ground
B00D5-12		Front passenger air bag OFF indicator circuit is shorted to power supply circuit
B00D5-13		Front passenger air bag OFF indicator circuit is open
B00D5-15		Front passenger air bag OFF indicator circuit is open or shorted to power supply circuit

POSSIBLE CAUSE

[B00D5-04]

- Internal malfunction of front passenger air bag OFF indicator
- Internal malfunction of air bag diagnosis sensor unit

[B00D5-11]

- Connection malfunction or short circuit to ground of harness and connector
- Internal malfunction of front passenger air bag OFF indicator
- Internal malfunction of air bag diagnosis sensor unit

[B00D5-12]

- Connection malfunction or short circuit to power supply of harness and connector
- Internal malfunction of front passenger air bag OFF indicator
- Internal malfunction of air bag diagnosis sensor unit

[B00D5-13]

- Connection malfunction or open circuit of harness and connector
- Internal malfunction of front passenger air bag OFF indicator
- Internal malfunction of air bag diagnosis sensor unit

[B00D5-15]

- Connection malfunction or short circuit to power supply of harness and connector
- Connection malfunction or open circuit of harness and connector
- Internal malfunction of front passenger air bag OFF indicator
- Internal malfunction of air bag diagnosis sensor unit

FAIL-SAFE

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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.

Is malfunctioning part detected?

YES >> Refer to [SRC-62, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010842524

WARNING:

B00D5 FRONT PASSENGER AIR BAG OFF INDICATOR

< 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.

A

DIAGNOSTIC PROCEDURE

1. CHECK HARNESS CONNECTOR

B

Check the harness connector for disconnection, looseness or damage.

C

Is the inspection result normal?

D

YES >> GO TO 2.

E

NO-1 >> Damage: Replace malfunctioning harness and connector.

F

NO-2 >> Disconnection or looseness: Securely lock the connector.

G

2. CHECK WIRING HARNESS

H

Check the wiring harness externals.

I

Is the inspection result normal?

J

YES >> GO TO 3.

K

NO >> Replace malfunctioning harness and connector.

L

3. CHECK FRONT PASSENGER AIR BAG OFF INDICATOR

M

1. Replace indicator unit. Refer to [HAC-125, "Removal and Installation"](#).

N

2. Perform DTC confirmation procedure. Refer to [SRC-62, "DTC Description"](#).

O

Is DTC detected?

P

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

SRC

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).

2. Perform DTC confirmation procedure. Refer to [SRC-62, "DTC Description"](#).

Is DTC detected?

YES >> GO TO 1.

I

NO >> INSPECTION END

B00DF AIR BAG CUTOFF SWITCH

< DTC/CIRCUIT DIAGNOSIS >

B00DF AIR BAG CUTOFF SWITCH

DTC Description

INFOID:0000000010842525

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B00DF-52	PASS A/B DEACT SW [Passenger Restraints Disable Switch (Sub-fault)]	Air bag cutoff switch circuit is open or shorted to ground or the circuits are shorted each other.

POSSIBLE CAUSE

- Harness or connectors (Air bag cutoff switch circuit is open or shorted)
- Internal malfunction of air bag cutoff switch
- Internal malfunction of air bag diagnosis sensor unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAGNOSTIC RESULT

 With CONSULT

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

Is malfunctioning part detected?

YES >> Refer to [SRC-64, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010842526

WARNING:

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

1. CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

3. CHECK AIR BAG CUTOFF SWITCH

1. Replace air bag cutoff switch. Refer to [SR-35, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-64, "DTC Description"](#).

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

B00DF AIR BAG CUTOFF SWITCH

< DTC/CIRCUIT DIAGNOSIS >

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-64, "DTC Description"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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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 Description

INFOID:0000000010688489

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B1400–00	CONTROL UNIT (airbag control unit)	Air bag diagnosis sensor unit is malfunctioning
B1401–00	CONTROL UNIT (airbag control unit internal trouble, sensor2)	
B1402–00	CONTROL UNIT (airbag control unit internal trouble, sensor3)	
B1403–00	CONTROL UNIT (airbag control unit internal trouble, sensor4)	
B1404–00	CONTROL UNIT (airbag control unit internal trouble, sensor5)	
B1405–00	CONTROL UNIT (airbag control unit internal trouble, sensor6)	

POSSIBLE CAUSE

Malfunction in air bag diagnosis sensor unit

FAIL-SAFE

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-66, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688490

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 for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

< DTC/CIRCUIT DIAGNOSIS >

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-66, "DTC Description"](#).

Is DTC detected?

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

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

< DTC/CIRCUIT DIAGNOSIS >

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

DTC Description

INFOID:0000000010688491

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B1406–00	CONTROL UNIT (airbag control unit internal trouble, Energy Reserver)	Air bag diagnosis sensor unit is malfunctioning
B1407–00	CONTROL UNIT (airbag control unit internal trouble, driver IC1)	
B1408–00	CONTROL UNIT (airbag control unit internal trouble, driver IC2)	
B1409–00	CONTROL UNIT (airbag control unit internal trouble, driver IC3)	
B1410–00	CONTROL UNIT (airbag control unit internal trouble, Power IC)	

POSSIBLE CAUSE

Malfunction in air bag diagnosis sensor unit

FAIL-SAFE

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-68, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688492

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 for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).

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

< DTC/CIRCUIT DIAGNOSIS >

2. Perform DTC confirmation procedure. Refer to [SRC-68, "DTC Description".](#)

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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

< DTC/CIRCUIT DIAGNOSIS >

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

DTC Description

INFOID:0000000010688493

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B1411–00	CONTROL UNIT (airbag control unit internal trouble, SUB IC)	Air bag diagnosis sensor unit is malfunctioning
B1412–00	CONTROL UNIT (airbag control unit internal trouble, communication IC1)	
B1413–00	CONTROL UNIT (airbag control unit internal trouble, communication IC2)	
B1414–00	CONTROL UNIT [airbag control unit internal trouble, Main micro controller (CPU)]	
B1415–00	CONTROL UNIT [airbag control unit internal trouble, Sub microcontroller (CPU)]	

POSSIBLE CAUSE

Malfunction in air bag diagnosis sensor unit

FAIL-SAFE

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-70, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688494

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 for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

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

< DTC/CIRCUIT DIAGNOSIS >

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-70, "DTC Description"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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

< DTC/CIRCUIT DIAGNOSIS >

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

DTC Description

INFOID:0000000010688495

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B1416–00	CONTROL UNIT (airbag control unit internal trouble, EE-PROM)	Air bag diagnosis sensor unit is malfunctioning
B1417–00	CONTROL UNIT (airbag control unit internal trouble, Algorithm)	
B1418–00	CONTROL UNIT (airbag control unit internal trouble, Configuration)	
B1419–00	CONTROL UNIT (airbag control unit internal trouble, other component)	
B1420–00	CONTROL UNIT (airbag control unit internal trouble, other)	

POSSIBLE CAUSE

Malfunction in air bag diagnosis sensor unit

FAIL-SAFE

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-72, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688496

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 for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

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

< DTC/CIRCUIT DIAGNOSIS >

3. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-72, "DTC Description"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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B1421 FRONTAL COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

B1421 FRONTAL COLLISION DETECTION

DTC Description

INFOID:0000000010688497

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B1421-00	FRONTAL COLLISION (Firing Record, Frontal)	Driver air bag, passenger air bag, seat belt pre-tensioner and lap pre-tensioner are deployed

POSSIBLE CAUSE

FAIL-SAFE

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-74, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688498

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-13, "FOR FRONTAL COLLISION : When SRS is activated in a collision"](#) or [SR-14, "FOR FRONTAL COLLISION : When SRS is not activated in a collision"](#).

>> GO TO 2.

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-18, "DTC Index"](#).

B1422 SIDE COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

B1422 SIDE COLLISION DETECTION

DTC Description

INFOID:0000000010688499

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B1422-00	SIDE COLLISION (Firing Record, Side)	Side air bag and curtain air bag are deployed

POSSIBLE CAUSE

FAIL-SAFE

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-75, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688500

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-15, "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision"](#) or [SR-16, "FOR SIDE AND ROLLOVER COLLISION : When SRS is not activated in a collision"](#).

>> GO TO 2.

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-18, "DTC Index"](#).

B1425 REAR COLLISION DETECTION

< DTC/CIRCUIT DIAGNOSIS >

B1425 REAR COLLISION DETECTION

DTC Description

INFOID:0000000010688501

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B1425-00	REAR COLLISION (Rear Crash Detect)	Rear collision detected

POSSIBLE CAUSE

FAIL-SAFE

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-76, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688502

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-13, "FOR FRONTAL COLLISION : When SRS is activated in a collision"](#) or [SR-14, "FOR FRONTAL COLLISION : When SRS is not activated in a collision"](#).

>> GO TO 2.

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-18, "DTC Index"](#).

B1426 DISPOSAL DEPLOYMENT DETECTION

< DTC/CIRCUIT DIAGNOSIS >

B1426 DISPOSAL DEPLOYMENT DETECTION

DTC Description

INFOID:0000000010842527

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B1426-00	AIR BAG DISPOSAL DETECT (Firing Record, Airbag disposal)	Reuse of air bag diagnosis sensor unit

POSSIBLE CAUSE

FAIL-SAFE

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-77, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010842528

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. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).

>> INSPECTION END

B1427 CONFIG SETTING

< DTC/CIRCUIT DIAGNOSIS >

B1427 CONFIG SETTING

DTC Description

INFOID:0000000010688503

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B1427-54	CONFIG SETTING (Configuration setting)	When errors are detected in the configuration data stored in the air bag diagnosis sensor unit
B1427-55		When no data are stored in the air bag diagnosis sensor unit

POSSIBLE CAUSE

[B1427-54]

Mistake of configuration for air bag diagnosis sensor unit

[B1427-55]

Incomplete of configuration for air bag diagnosis sensor unit

FAIL-SAFE

Diagnosis Procedure

INFOID:0000000010688504

1. PERFORM CONFIGURATION

Perform configuration for air bag diagnosis sensor unit.

>> Refer to [SRC-31, "Description"](#).

< DTC/CIRCUIT DIAGNOSIS >

B142A IGN VOLTAGE

DTC Description

INFOID:0000000010688505

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B142A-16	IGNITION VOLTAGE (Ignition voltage Low)	Power supply malfunction (low voltage) of air bag diagnosis sensor unit
B142A-17	IGNITION VOLTAGE (Ignition voltage High)	Power supply malfunction (high voltage) of air bag diagnosis sensor unit

POSSIBLE CAUSE

[B142A-16]

- Malfunction of battery voltage (less than 9 V)
- Connection malfunction of harness or connector
- Internal malfunction of air bag diagnosis sensor unit

[B142A-17]

- Malfunction of battery voltage (more than 16 V)
- Connection malfunction of harness or connector
- Internal malfunction of air bag diagnosis sensor unit

FAIL-SAFE

SRC

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-79, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688506

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-118, "R9M : How to Handle Battery"](#) (For R9M engine models) or [PG-121, "EXCEPT FOR R9M : How to Handle Battery"](#) (Except for R9M engine models).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace battery. Refer to [PG-142, "EXCEPT FOR R9M : Removal and Installation"](#).

2. CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

B142A IGN VOLTAGE

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning harness and connector.

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-79, "DTC Description"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1430 SEAT BELT PRE-TENSIONER

< DTC/CIRCUIT DIAGNOSIS >

B1430 SEAT BELT PRE-TENSIONER

DTC Description

INFOID:0000000010688507

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B1430-09	PRE-TEN FRONT LH [front seat belt pre-tensioner squib left hand component failures (cross connection)]	Seat belt pre-tensioner LH circuits are shorted to each other
B1430-11	PRE-TEN FRONT LH (front seat belt pre-tensioner squib left hand circuit short to GND)	Seat belt pre-tensioner LH circuit is shorted to ground
B1430-12	PRE-TEN FRONT LH (front seat belt pre-tensioner squib left hand circuit short to battery)	Seat belt pre-tensioner LH circuit is shorted to power supply circuit
B1430-13	PRE-TEN FRONT LH (front seat belt pre-tensioner squib left hand circuit)	Seat belt pre-tensioner LH circuit is open
B1430-1A	PRE-TEN FRONT LH (front seat belt pre-tensioner squib left hand circuit resistance below threshold)	Seat belt pre-tensioner LH circuits are shorted to each other

POSSIBLE CAUSE

SRC

[B1430-09, B1430-1A]

- Connection malfunction or short circuit of harness and connector
- Internal malfunction of seat belt pre-tensioner LH
- Internal malfunction of air bag diagnosis sensor unit

[B1430-11]

- Connection malfunction or short circuit to ground of harness and connector
- Internal malfunction of seat belt pre-tensioner LH
- Internal malfunction of air bag diagnosis sensor unit

[B1430-12]

- Connection malfunction or short circuit to power supply of harness and connector
- Internal malfunction of seat belt pre-tensioner LH
- Internal malfunction of air bag diagnosis sensor unit

[B1430-13]

- Connection malfunction or open circuit of harness and connector
- Internal malfunction of seat belt pre-tensioner LH
- Internal malfunction of air bag diagnosis sensor unit

FAIL-SAFE

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-82, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

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 for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

3. REPLACE SEAT BELT PRE-TENSIONER LH

1. Replace seat belt pre-tensioner LH. Refer to [SR-36, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-81, "DTC Description"](#).

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-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-81, "DTC Description"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1431 SEAT BELT PRE-TENSIONER

< DTC/CIRCUIT DIAGNOSIS >

B1431 SEAT BELT PRE-TENSIONER

DTC Description

INFOID:0000000010688509

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B1431-09	PRE-TEN FRONT RH [front seat belt pre-tensioner squib right hand component failures (cross connection)]	Seat belt pre-tensioner RH circuits are shorted to each other
B1431-11	PRE-TEN FRONT RH (front seat belt pre-tensioner squib right hand circuit short to GND)	Seat belt pre-tensioner RH circuit is shorted to ground
B1431-12	PRE-TEN FRONT RH (front seat belt pre-tensioner squib right hand circuit short to battery)	Seat belt pre-tensioner RH circuit is shorted to power supply circuit
B1431-13	PRE-TEN FRONT RH (front seat belt pre-tensioner squib right hand circuit)	Seat belt pre-tensioner RH circuit is open
B1431-1A	PRE-TEN FRONT RH (front seat belt pre-tensioner squib right hand circuit resistance below threshold)	Seat belt pre-tensioner RH circuits are shorted to each other

POSSIBLE CAUSE

SRC

[B1431-09, B1431-1A]

- 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

[B1431-11]

- 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

[B1431-12]

- 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

[B1431-13]

- 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

FAIL-SAFE

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.

Is malfunctioning part detected?

YES >> Refer to [SRC-84, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

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 for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

3. REPLACE SEAT BELT PRE-TENSIONER RH

1. Replace seat belt pre-tensioner RH. Refer to [SR-36, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-83, "DTC Description"](#).

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-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-83, "DTC Description"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1432 LAP PRE-TENSIONER

< DTC/CIRCUIT DIAGNOSIS >

B1432 LAP PRE-TENSIONER

DTC Description

INFOID:0000000010688511

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B1432-09	PRE-TEN FRONT LH 2 [front lap seat belt pre-tensioner squib left hand component failures (cross connection)]	Lap pre-tensioner LH circuits are shorted to each other
B1432-11	PRE-TEN FRONT LH 2 (front lap seat belt pre-tensioner squib left hand circuit short to GND)	Lap pre-tensioner LH circuit is shorted to ground
B1432-12	PRE-TEN FRONT LH 2 (front lap seat belt pre-tensioner squib left hand circuit short to battery)	Lap pre-tensioner LH circuit is shorted to power supply circuit
B1432-13	PRE-TEN FRONT LH 2 (front lap seat belt pre-tensioner squib left hand circuit)	Lap pre-tensioner LH circuit is open
B1432-1A	PRE-TEN FRONT LH 2 (front lap seat belt pre-tensioner squib left hand circuit resistance below threshold)	Lap pre-tensioner LH circuits are shorted to each other

POSSIBLE CAUSE

[B1432-09, B1432-1A]

- Connection malfunction or short circuit of harness and connector
- Internal malfunction of lap pre-tensioner LH
- Internal malfunction of air bag diagnosis sensor unit

SRC

[B1432-11]

- Connection malfunction or short circuit to ground of harness and connector
- Internal malfunction of lap pre-tensioner LH
- Internal malfunction of air bag diagnosis sensor unit

I

[B1432-12]

- Connection malfunction or short circuit to power supply of harness and connector
- Internal malfunction of lap pre-tensioner LH
- Internal malfunction of air bag diagnosis sensor unit

K

[B1432-13]

- Connection malfunction or open circuit of harness and connector
- Internal malfunction of lap pre-tensioner LH
- Internal malfunction of air bag diagnosis sensor unit

L

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAGNOSTIC RESULT

 With CONSULT

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

N

Is malfunctioning part detected?

O

P

YES >> Refer to [SRC-85, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688512

WARNING:

B1432 LAP PRE-TENSIONER

< DTC/CIRCUIT DIAGNOSIS >

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

1. CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

3. REPLACE LAP PRE-TENSIONER LH

1. Replace lap pre-tensioner LH. Refer to [SR-37, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-85, "DTC Description"](#).

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-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-85, "DTC Description"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

B1433 LAP PRE-TENSIONER

< DTC/CIRCUIT DIAGNOSIS >

B1433 LAP PRE-TENSIONER

DTC Description

INFOID:0000000010688513

DTC	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B1433-09	PRE-TEN FRONT RH 2 [front lap seat belt pre-tensioner squib right hand component failures (cross connection)]	Lap pre-tensioner RH circuits are shorted to each other
B1433-11	PRE-TEN FRONT RH 2 (front lap seat belt pre-tensioner squib right hand circuit short to GND)	Lap pre-tensioner RH circuit is shorted to ground
B1433-12	PRE-TEN FRONT RH 2 (front lap seat belt pre-tensioner squib right hand circuit short to battery)	Lap pre-tensioner RH circuit is shorted to power supply circuit
B1433-13	PRE-TEN FRONT RH 2 (front lap seat belt pre-tensioner squib right hand circuit)	Lap pre-tensioner RH circuit is open
B1433-1A	PRE-TEN FRONT RH 2 (front lap seat belt pre-tensioner squib right hand circuit resistance below threshold)	Lap pre-tensioner RH circuits are shorted to each other

POSSIBLE CAUSE

[B1433-09, B1433-1A]

- Connection malfunction or short circuit of harness and connector
- Internal malfunction of lap pre-tensioner RH
- Internal malfunction of air bag diagnosis sensor unit

SRC

[B1433-11]

- Connection malfunction or short circuit to ground of harness and connector
- Internal malfunction of lap pre-tensioner RH
- Internal malfunction of air bag diagnosis sensor unit

I

[B1433-12]

- Connection malfunction or short circuit to power supply of harness and connector
- Internal malfunction of lap pre-tensioner RH
- Internal malfunction of air bag diagnosis sensor unit

K

[B1433-13]

- Connection malfunction or open circuit of harness and connector
- Internal malfunction of lap pre-tensioner RH
- Internal malfunction of air bag diagnosis sensor unit

L

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAGNOSTIC RESULT

 With CONSULT

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

Is malfunctioning part detected?

N

O

P

YES >> Refer to [SRC-87, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010688514

WARNING:

B1433 LAP PRE-TENSIONER

< DTC/CIRCUIT DIAGNOSIS >

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

1. CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace malfunctioning harness and connector.

3. REPLACE LAP PRE-TENSIONER RH

1. Replace lap pre-tensioner RH. Refer to [SR-37, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-87, "DTC Description"](#).

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-38, "Removal and Installation"](#).
2. Perform DTC confirmation procedure. Refer to [SRC-87, "DTC Description"](#).

Is DTC detected?

YES >> GO TO 1.

NO >> INSPECTION END

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:000000010688515

1. CHECK 12V BATTERY

Check 12V battery. Refer to [PG-118, "R9M : How to Handle Battery"](#) (For R9M engine) or [PG-121, "EXCEPT FOR R9M : How to Handle Battery"](#) (Except for R9M engine).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DTC WITH AIR BAG DIAGNOSIS SENSOR UNIT

Check that DTC is not detected with air bag diagnosis sensor unit.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to [SRC-18, "DTC Index"](#).

3. CHECK COMBINATION METER POWER SUPPLY AND GROUND CIRCUIT

Check combination meter unit power supply and ground circuit. Refer to [MWI-129, "COMBINATION METER : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).
2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 5.

5. REPLACE COMBINATION METER

1. Replace combination meter. Refer to [MWI-151, "Removal and Installation"](#).
2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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SRS AIR BAG WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

SRS AIR BAG WARNING LAMP DOES NOT TURN ON

Diagnosis Procedure

INFOID:0000000010688516

1. CHECK DTC WITH AIR BAG DIAGNOSIS SENSOR UNIT AND COMBINATION METER

Check that DTC is not detected with air bag diagnosis sensor unit and combination meter.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [SRC-18, "DTC Index"](#) (air bag diagnosis sensor unit) and [MWI-105, "DTC Index"](#) (combination meter).

2. CHECK COMBINATION METER POWER SUPPLY AND GROUND CIRCUIT

Check combination meter unit power supply and ground circuit. Refer to [MWI-129, "COMBINATION METER : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK AIR BAG FUSE

Check 10 A fuse [No. 32, located in fuse block (J/B)].

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace the fuse.

4. CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES >> GO TO 5.

NO-1 >> Damage: Replace malfunctioning harness and connector.

NO-2 >> Disconnection or looseness: Securely lock the connector.

5. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace malfunctioning harness and connector.

6. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to [SR-38, "Removal and Installation"](#).

2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 7.

7. REPLACE COMBINATION METER

1. Replace combination meter. Refer to [MWI-151, "Removal and Installation"](#).

2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).