SECTION SRC
SRS AIRBAG CONTROL SYSTEM

CONTENTS

PRECAUTION

PRECAUTIONS

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

INFOID:0000000012199568

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

WARNING:

Always observe the following items for preventing accidental activation.

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, 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 or batteries, and wait at least 3 minutes before performing any service.**

Precautions for Removing Battery Terminal

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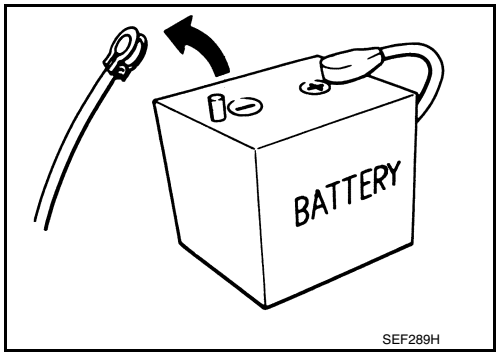
When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		
YD25DDTi	: 2 minutes		



NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:

  - Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
  - Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.
- 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.

Service

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- Never use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect battery negative terminal and wait 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.

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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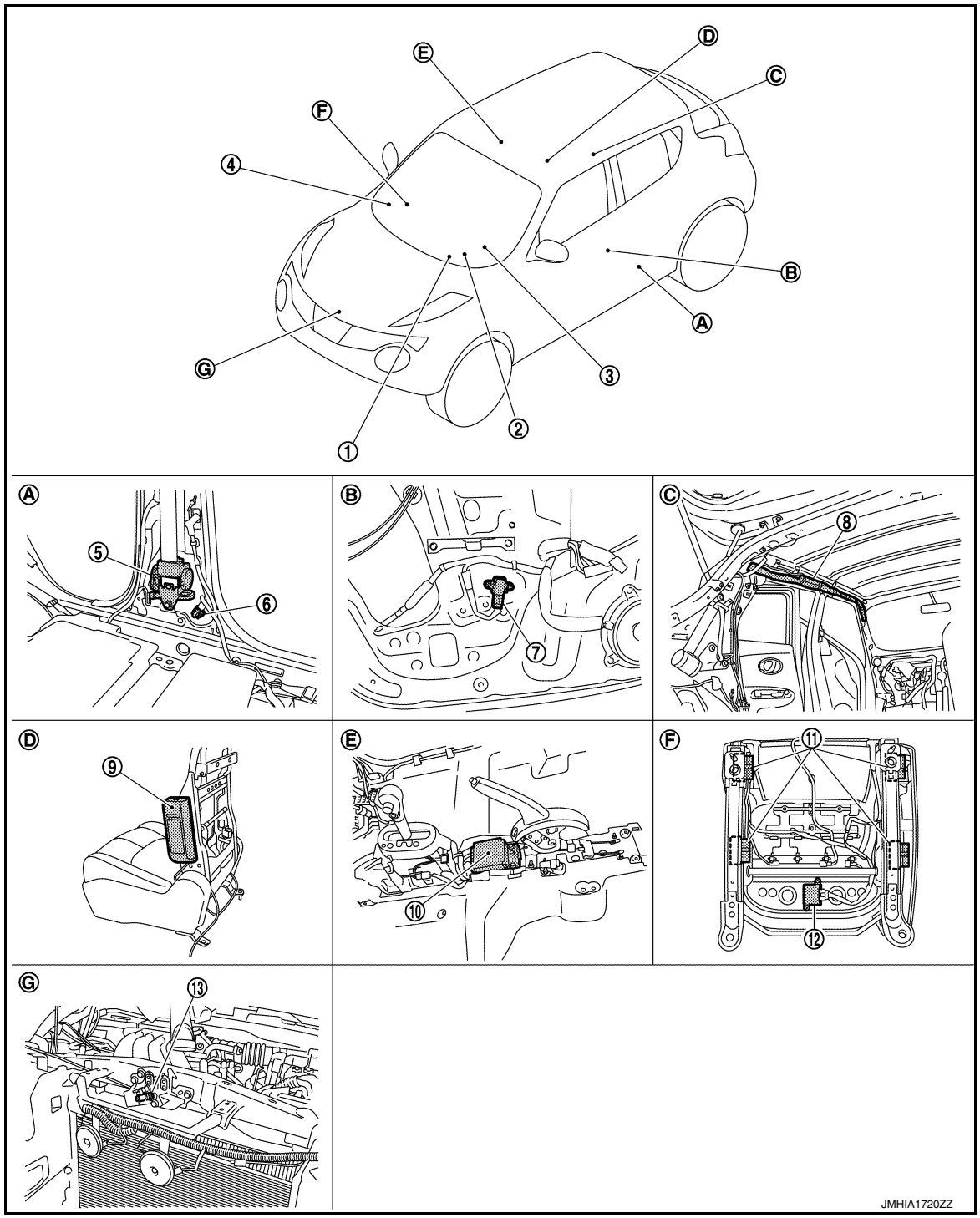

Combination meter

1. Refer to MWI-6, "METER SYSTEM : Component Parts Location".
2. Combination switch (spiral cable)
3. Driver air bag module
4. Passenger air bag module
5. Seat belt pre-tensioner LH
6. Satellite sensor LH
7. Front door satellite sensor LH
8. Curtain air bag module LH
9. Side air bag module LH

10. Air bag diagnosis sensor unit
11. Occupant detection system seat sensor
12. Occupant detection system control unit
13. Crash zone sensor

A. Behind center pillar lower garnish
B. View with door finisher removed
C. View with headlining assembly removed
D. View with seatback pad removed
E. View with center console assembly removed
F. Backside of passenger seat cushion frame
G. View with bumper fascia assembly removed

Component Description

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Component	Function
Air bag diagnosis sensor unit	• Detects a collision and supplies power supply for deployment to air bag module and pre-tensioner seat belt. • It contains the “G” sensors for both frontal and side collisions and spare battery function in case of main battery damage in collision.
BCM	Receive the collision detection signal when air bag diagnosis sensor unit detects collision.
Combination meter (air bag warning lamp)	Indicates air bag malfunctioning and deployment by blinking and illuminating air bag warning lamp.
Combination switch (spiral cable)	Supplies power supply to driver air bag module on steering wheel.
Crash zone sensor	• Transmits signal to air bag diagnosis sensor unit when a frontal collision occurs. • Crash zone sensor is a G sensor that outputs voltage signal during deceleration at the time of a vehicle frontal collision that is more than the specified limit is detected.
Curtain air bag module LH/RH	• Deploys according to collision judgment of G sensor, pressure sensor, and safing sensor. • Receives collision signal from air bag diagnosis sensor unit, ignites, and burns ignition material by electric ignition system, when side collision exceeds setting limit of the vehicle. Gas is generated by chemical reaction of ignition material, passes filter, and deploys air bag. • Air bag module mainly consists of air bag and inflator that deploys air bag.
Driver air bag module	• Receives signal from air bag diagnosis sensor unit and deploys air bag. • In case of frontal collision where acceleration is more than the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.
Front door satellite sensor LH/RH	• Transmits signal to air bag diagnosis sensor unit when a side collision occurs. • When air bag diagnosis sensor unit defines both signal voltage of the “G” sensor, pressure sensor and the safing algorithm to be that of collision which is more than the specified level, the driving circuit switches on and feeds the electric ignitor of both the side air bag, curtain air bag and pre-tensioner.
Occupant detection system control unit	Detects front passenger seat occupant.
Passenger air bag module	• Receives signal from air bag diagnosis sensor unit and deploys air bag. • In case of frontal collision where acceleration is more than the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.
Passenger air bag OFF indicator	Indicates whether or not passenger air bag is in the activation mode based on the judgement of occupant classification system.
Satellite sensor LH/RH	• Transmits signal to air bag diagnosis sensor unit when a side collision occurs. • When air bag diagnosis sensor unit defines both signal voltage of the “G” sensor, pressure sensor and the safing algorithm to be that of collision which is more than the specified level, the driving circuit switches on and feeds the electric ignitor of both the side air bag and curtain air bag and seat belt pre-tensioner.
Seat belt buckle switch LH/RH	Controls deployment timing depending on the seat belt condition that is fastened or unfastened.

Component	Function
Seat belt pre-tensioner LH/RH	• Receives signal from air bag diagnosis sensor unit and deploys seat belt pre-tensioner and lap pre-tensioner. • In the case of a frontal collision or side collision that exceeds specified impact level, the air bag diagnosis sensor unit detects the deceleration caused by collision. It restrains the passenger with seat belt easing the stress on passengers chest with load limiter.
Side air bag module LH/RH	• Receives signal from air bag diagnosis sensor unit and deploys air bag. • In case of side collision where acceleration is more than the specified level, the ignition materials are ignited by electric ignition system. The system burns the gas generating materials resulting in a chemical reaction. This generates hot gases that flow into the air bag through a filter and expand the bag.

SYSTEM

System Diagram

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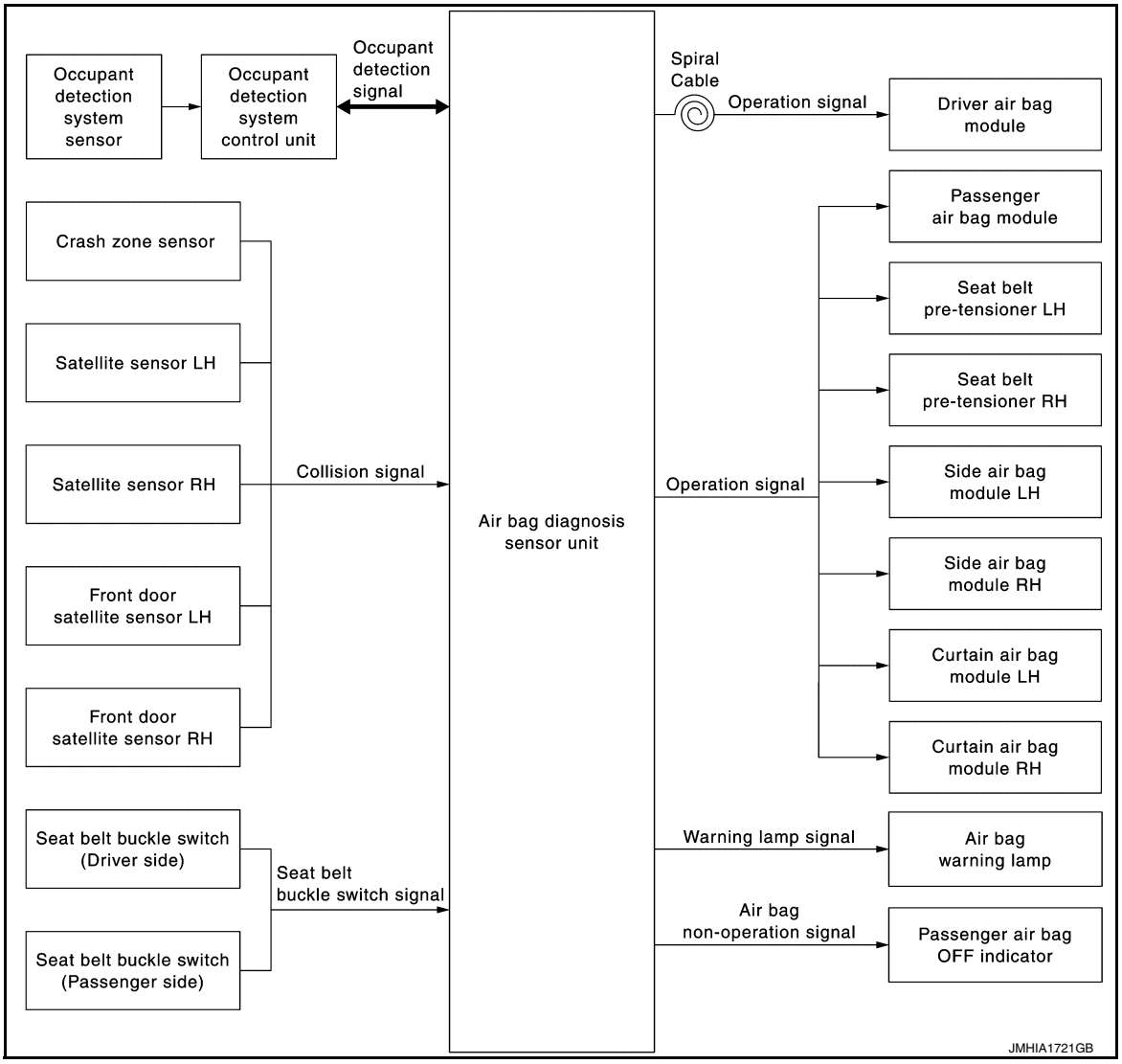

System Description

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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, or front door 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 the deployment of air bag and seat belt pre-tensioner, and turns ON air bag warning lamp.

- Indicates malfunctioning portion via the number of blinks from the air bag warning lamp in the diagnosis mode.
- Indicates the malfunction record via CONSULT.
- Suppresses the deployment of passenger air bag when passenger seat is empty or occupied by child or child-seat.
- When passenger seat is occupied by child or child seat, turns ON passenger air bag OFF indicator.
- When judges that passenger seat is occupied by a adult or a child and passenger seat belt is not fasten, turns ON seat belt warning lamp. Further information for the seat belt warning system.

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, and seat belt pre-tensioner are activated in a frontal collision or side collision.
SRS configurations that are activated for the following collision modes.

×: Apply —: Not apply

SRS configuration	Frontal collision	Left side collision	Right side collision
Driver air bag module	×	—	—
Passenger air bag module	×	—	—
Seat belt pre-tensioner LH	×	×	—
Seat belt pre-tensioner RH	×	—	×
Side air bag module LH	—	×	—
Side air bag module RH	—	—	×
Curtain air bag module LH	—	×	—
Curtain air bag module RH	—	—	×

OCCUPANT DETECTION SYSTEM

This Occupant Detection System has the following functions.

1. Suppress the deployment of front passenger air bag when front passenger seat is empty, or when occupied by child and child-seat. Turns ON front passenger air bag OFF indicator when front passenger seat is occupied by child-seat and child.
2. Indicates malfunction portion with blinking times of air bag warning lamp in diagnosis mode.
3. Indicates the malfunctioning record by CONSULT.
4. When “zero point reset” for occupant detection system is incomplete, CONSULT indicates that “zero point reset” is incomplete.
   This function is applied to NISSAN genuine parts only.

NOTE:

- Operation of air bag diagnosis sensor unit when air bag diagnosis sensor unit receives information from Occupant Detection System.
- Even if zero point reset is “complete”, always perform zero point reset after the removal and installation of seat or the removal of control unit harness connector.

Status (front passenger seat)	**Passenger air bag**	**Front passenger air bag OFF indicator**	**Air bag warning lamp**	Seat belt warning lamp (when front passenger seat is unbuckled)
Empty	Suppress	OFF	OFF	OFF
An object	Suppress	ON	OFF	OFF
Child/ child-seat	Suppress	ON	OFF	ON
Adult	Enable to deploy	OFF	OFF	ON
Malfunction	Suppress	ON	Blinking	OFF
Zero point reset Not yet performed (NISSAN genuine parts only)	Suppress	ON	Blinking	OFF

DIAGNOSIS SYSTEM (AIR BAG)

Description

INFOID:0000000012199575

CAUTION:

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

DIAGNOSIS FUNCTION

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

×: Application, —: Not application

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

On Board Diagnosis Function

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ON-BOARD DIAGNOSIS

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

- USER MODE
- DIAGNOSIS MODE

METHOD OF STARTING

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

Procedure to Change Diagnosis Mode

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

CAUTION:

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

USER MODE

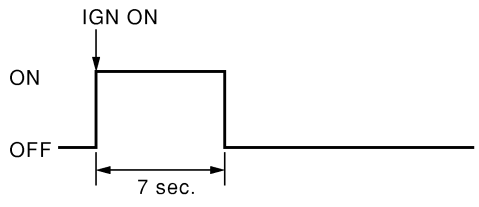
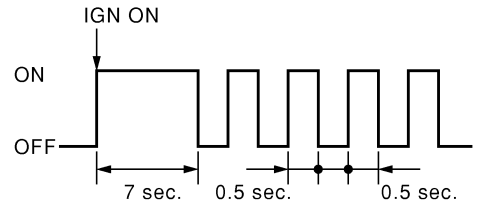
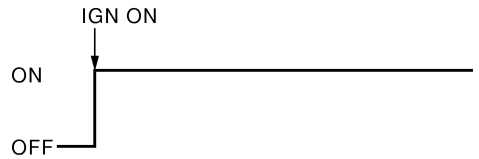
In USER MODE, air bag warning lamp on combination meter blinks when a malfunction is detected and warns the customer (driver).

How to Read Air Bag Warning Lamp

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

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

Air Bag Warning Lamp Examples

Air bag warning lamp operation (user mode)	SRS condition	Reference item
 SHIA0011E	• No malfunction is detected • No further action is necessary	–
 SHIA0012E	• Air bag diagnosis sensor unit is malfunctioning • Each sensor is malfunctioning • Each module is malfunctioning	Refer to “How to Read Air Bag Warning Lamp”
 SHIA0013E	• Air bag is deployed • Seat belt pre-tensioner is deployed	Refer to SRC-76, "Diagnosis Procedure" or SRC-77, "Diagnosis Procedure"
	• Air bag diagnosis sensor unit is malfunctioning • Air bag power supply circuit is malfunctioning • Air bag warning lamp circuit is malfunctioning • Combination meter is malfunctioning	Refer to SRC-87, "Diagnosis Procedure"
	Battery voltage is low (less than 9 V) or high battery voltage (more than 16 V)	Check Battery voltage. Refer to PG-97, "How to Handle Battery".
	Occupant system is malfunctioning	Refer to “How to Read Air Bag Warning Lamp”
	Zero point reset not yet performed	Refer to SRC-32, "ZERO POINT RESET : Description".
 SHIA0014E	• Air bag diagnosis sensor unit is malfunctioning • Air bag warning lamp circuit is malfunctioning • Combination meter is malfunctioning	Refer to SRC-88, "Diagnosis Procedure"

Occurrence of Intermittent Malfunction

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

Battery Low Voltage Detection

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

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

Battery High Voltage Detection

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

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

DIAGNOSIS MODE

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

How to Read Air Bag Warning Lamp

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

Front air bag system

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

Side air bag system

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

Air bag control unit system

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

Sensor system

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

Number of 0.5 second blinks	Malfunctioning items
6	Front door satellite sensor LH or RH
7	Front door satellite sensor RH

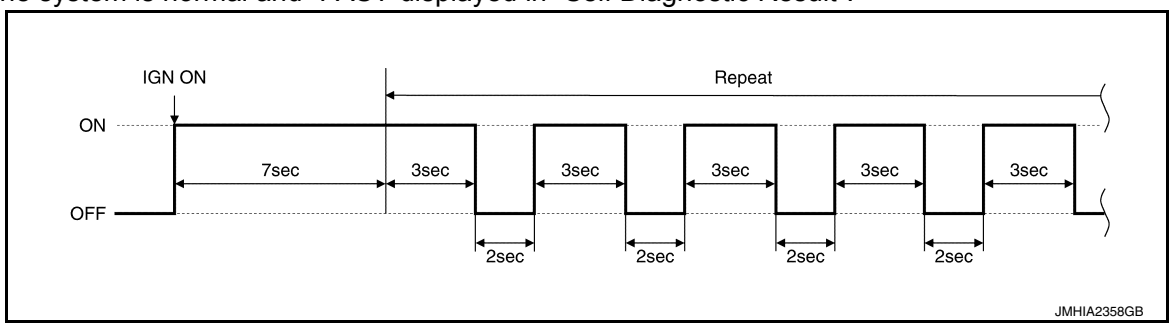
How to Erase Self-diagnostic Result

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

EXAMPLE OF AIR BAG WARNING LAMP OPERATION IN THE DIAGNOSIS MODE

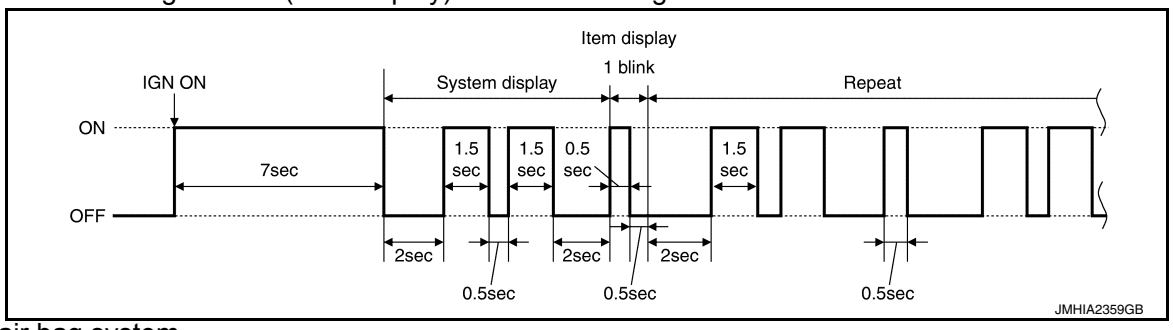
System Normal

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

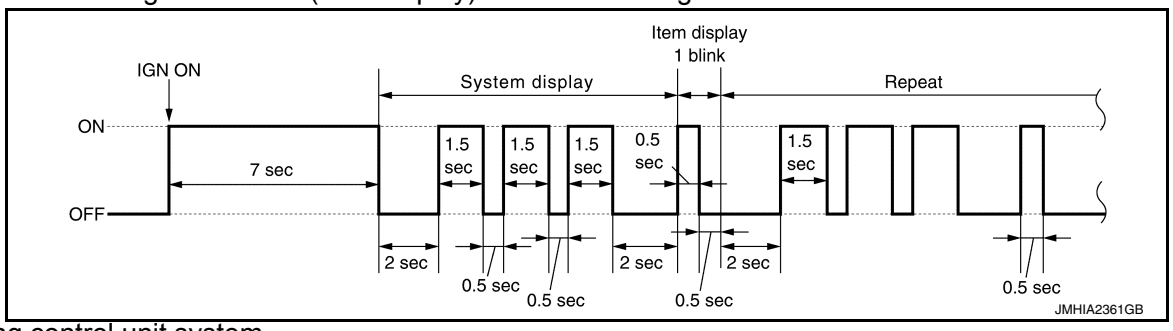


Single System Malfunction

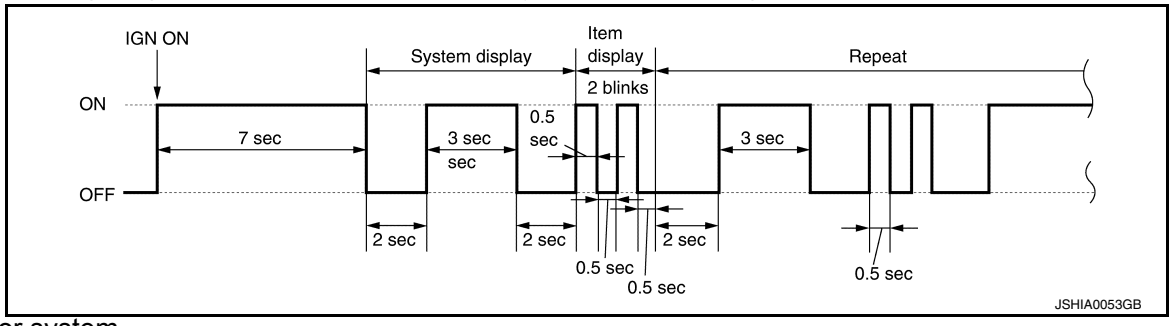
- Front air bag system
  When driver air bag module (Item display) is malfunctioning.



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

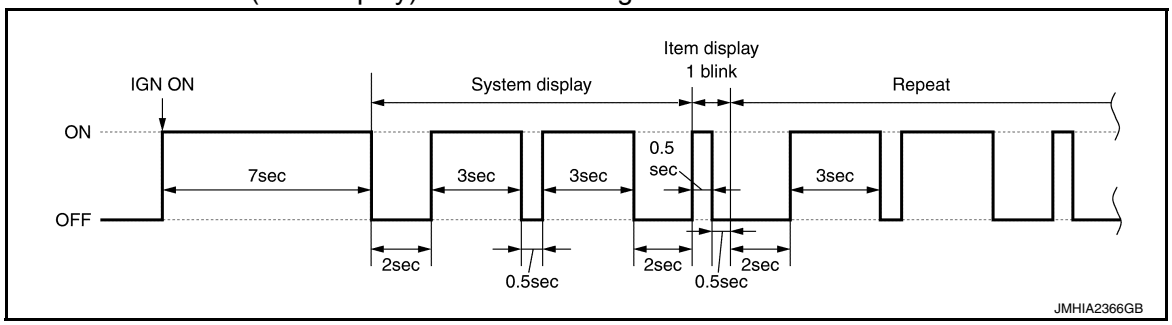


- Air bag control unit system
  When air bag diagnosis sensor unit (Item display) is malfunctioning.



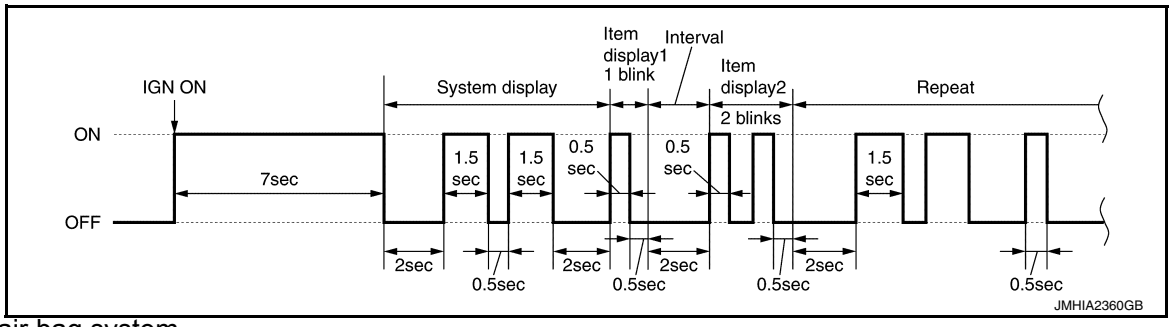
- Sensor system

When crash zone sensor (Item display) is malfunctioning.

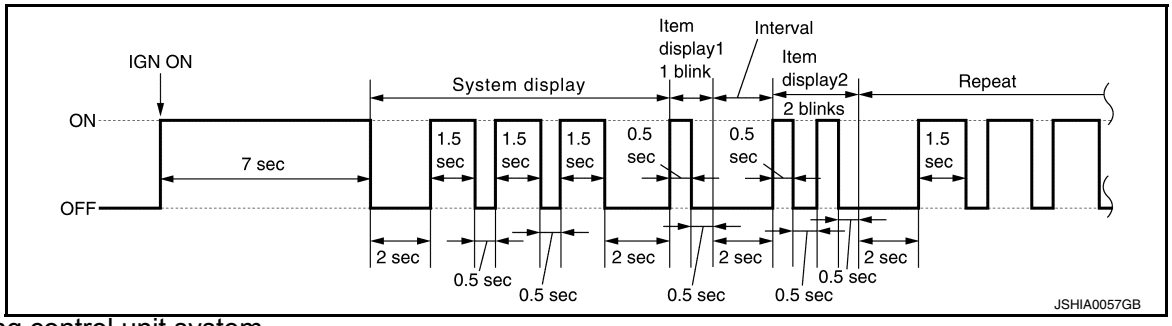


Multiple Systems Malfunction

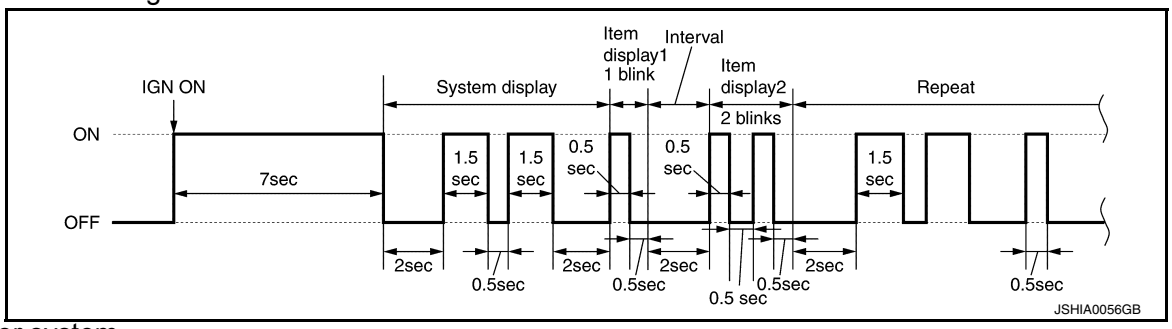
- Front air bag system
  When driver air bag module (Item display 1) and passenger air bag module (Item display 2) are malfunctioning.



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

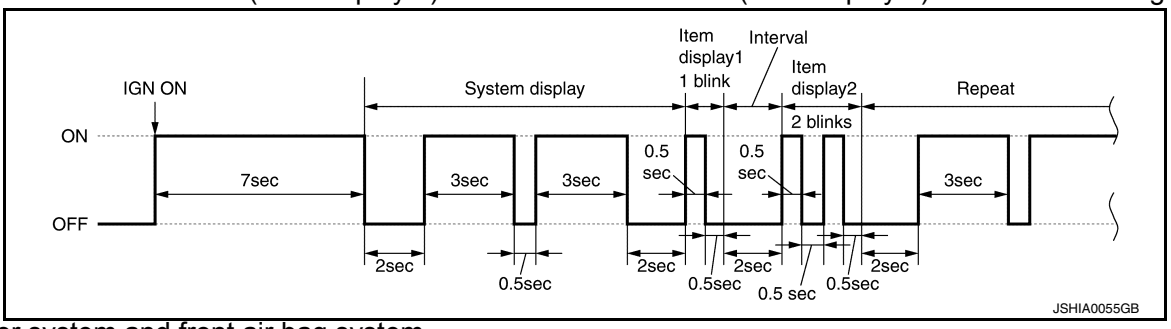


- Air bag control unit system
  When air bag diagnosis sensor unit (Item display 1) and front passenger air bag indicator (Item display 2) are malfunctioning.

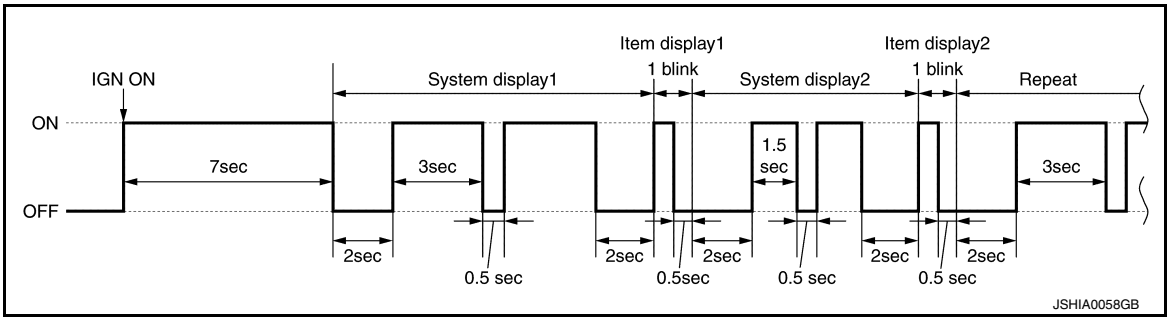


- Sensor system

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



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



CONSULT Function

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APPLICATION ITEM

CONSULT performs the following functions.

Diagnosis mode	Description
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.
Self Diagnostic Result	• Self-diagnosis result is displayed. • “No DTC” is displayed when repairis completed by part replacement or other operations. • “SELF-DIAG RESULT [MEMORY]” is displayed until“Erase” performed.
TROUBLE DIAG RECORD	With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed on CONSULT screen.

DIAGNOSIS SYSTEM (OCCUPANT DETECTION SYSTEM)

CONSULT Function

INFOID:0000000012199578

ZERO POINT RESET DESCRIPTION

This vehicle adopts occupant detection system with a weight detecting method. When replacing, or removing and installing passenger seat, always perform “zero point rest” so that the vehicle recognizes zero point.
If zero point reset is incomplete, occupant detection seat sensor does not operate normally.

WORK SUPPORT

Monitor item	Description
Zero point reset function	Perform zero point reset. Refer to SRC-32, "ZERO POINT RESET : Special Repair Requirement".

ECU DIAGNOSIS INFORMATION

DIAGNOSIS SENSOR UNIT

DTC Index

INFOID:0000000012199579

DTC	Diagnostic item	Number of times of warning lamp blinking in diagnosis mode		Reference page
		System display	Item display	
U1000–01	CAN COMM CIRCUIT	—	—	SRC-34, "DTC Description"
U1010–49	CONTROL UNIT (CAN)	—	—	SRC-35, "DTC Description"
B0001–00	DRIVER AIRBAG MODULE [SHORT]	Front air bag system	1	SRC-36, "DTC Description"
B0001–09	DRIVER AIRBAG MODULE [SHORT]			
B0001–11	DRIVER AIRBAG MODULE [GND-SHORT]			
B0001–12	DRIVER AIRBAG MODULE [VB-SHORT]			
B0001–13	DRIVER AIRBAG MODULE [OPEN]			
B0001–1A	DRIVER AIRBAG MODULE [SHORT]			
B0002–00	DRIVER AIRBAG MODULE 2 [SHORT]	Front air bag system	1	SRC-39, "DTC Description"
B0002–09	DRIVER AIRBAG MODULE 2 [SHORT]			
B0002–11	DRIVER AIRBAG MODULE 2 [GND-SHORT]			
B0002–12	DRIVER AIRBAG MODULE 2 [VB-SHORT]			
B0002–13	DRIVER AIRBAG MODULE 2 [OPEN]			
B0002–1A	DRIVER AIRBAG MODULE 2 [SHORT]			
B0010–09	ASSIST A/B MODULE [SHORT]	Front air bag system	2	SRC-42, "DTC Description"
B0010–11	ASSIST A/B MODULE [GND-SHORT]			
B0010–12	ASSIST A/B MODULE [VB-SHORT]			
B0010–13	ASSIST A/B MODULE [OPEN]			
B0010–1A	ASSIST A/B MODULE [SHORT]			
B0011–09	ASSIST A/B MODULE 2 [SHORT]	Front air bag system	2	SRC-44, "DTC Description"
B0011–11	ASSIST A/B MODULE 2 [GND-SHORT]			
B0011–12	ASSIST A/B MODULE 2 [VB-SHORT]			
B0011–13	ASSIST A/B MODULE 2 [OPEN]			
B0011–1A	ASSIST A/B MODULE 2 [SHORT]			
B0020–09	SIDE A/B MODULE LH [SHORT]	Side air bag system	1	SRC-46, "DTC Description"
B0020–11	SIDE A/B MODULE LH [GND-SHORT]			
B0020–12	SIDE A/B MODULE LH [VB-SHORT]			
B0020–13	SIDE A/B MODULE LH [OPEN]			
B0020–1A	SIDE A/B MODULE LH [SHORT]			
B0021–09	CURTAIN A/B MODULE LH [SHORT]	Side air bag system	3	SRC-48, "DTC Description"
B0021–11	CURTAIN A/B MODULE LH [GND-SHORT]			
B0021–12	CURTAIN A/B MODULE LH [VB-SHORT]			
B0021–13	CURTAIN A/B MODULE LH [OPEN]			
B0021–1A	CURTAIN A/B MODULE LH [SHORT]			

DTC	Diagnostic item	Number of times of warning lamp blinking in diagnosis mode		Reference page
		System display	Item display	
B0028–09	SIDE A/B MODULE RH [SHORT]	Side air bag system	2	SRC-50, "DTC Description"
B0028–11	SIDE A/B MODULE RH [GND-SHORT]			
B0028–12	SIDE A/B MODULE RH [VB-SHORT]			
B0028–13	SIDE A/B MODULE RH [OPEN]			
B0028–1A	SIDE A/B MODULE RH [SHORT]			
B0029–09	CURTAIN A/B MODULE RH [SHORT]	Side air bag system	4	SRC-52, "DTC Description"
B0029–11	CURTAIN A/B MODULE RH [GND-SHORT]			
B0029–12	CURTAIN A/B MODULE RH [VB-SHORT]			
B0029–13	CURTAIN A/B MODULE RH [OPEN]			
B0029–1A	CURTAIN A/B MODULE RH [SHORT]			
B0091–11	B-PILLAR SAT SEN LH [GND-SHORT]	Sensor system	2	SRC-54, "DTC Description"
B0091–23	B-PILLAR SAT SEN LH [LOWER LIMIT ERR]			
B0091–24	B-PILLAR SAT SEN LH [UPPER LIMIT ERR]			
B0091–25	B-PILLAR SAT SEN LH [SELF-DIAG ERR]			
B0091–28	B-PILLAR SAT SEN LH [OFFSET ERR]			
B0091–81	B-PILLAR SAT SEN LH [COMM ERR]			
B0091–86	B-PILLAR SAT SEN LH [UNMATCH]			
B0091–88	B-PILLAR SAT SEN LH [OPEN]			
B0091–93	B-PILLAR SAT SEN LH [RESET]			
B0093–11	DOOR SAT SEN LH [GND-SHORT]	Sensor system	6	SRC-56, "DTC Description"
B0093–23	DOOR SAT SEN LH [LOWER LIMIT ERR]			
B0093–24	DOOR SAT SEN LH [UPPER LIMIT ERR]			
B0093–25	DOOR SAT SEN LH [SELF-DIAG ERR]			
B0093–28	DOOR SAT SEN LH [OFFSET ERR]			
B0093–81	DOOR SAT SEN LH [COMM ERR]			
B0093–86	DOOR SAT SEN LH [UNMATCH]			
B0093–88	DOOR SAT SEN LH [OPEN]			
B0093–93	DOOR SAT SEN LH [RESET]			
B0094–11	CRASH ZONE SENS [GND-SHORT]	Sensor system	1	SRC-58, "DTC Description"
B0094–23	CRASH ZONE SENS [LOWER LIMIT ERR]			
B0094–24	CRASH ZONE SENS [UPPER LIMIT ERR]			
B0094–25	CRASH ZONE SENS [SELF-DIAG ERR]			
B0094–28	CRASH ZONE SENS [OFFSET ERR]			
B0094–81	CRASH ZONE SENS [COMM ERR]			
B0094–86	CRASH ZONE SENS [UNMATCH]			
B0094–88	CRASH ZONE SENS [OPEN]			
B0094–93	CRASH ZONE SENS [RESET]			

DTC	Diagnostic item	Number of times of warning lamp blinking in diagnosis mode		Reference page
		System display	Item display	
B0096–11	B-PILLAR SAT SEN RH [GND-SHORT]	Sensor system	3	SRC-60, "DTC Description"
B0096–23	B-PILLAR SAT SEN RH [LOWER LIMIT ERR]			
B0096–24	B-PILLAR SAT SEN RH [UPPER LIMIT ERR]			
B0096–25	B-PILLAR SAT SEN RH [SELF-DIAG ERR]			
B0096–28	B-PILLAR SAT SEN RH [OFFSET ERR]			
B0096–81	B-PILLAR SAT SEN RH [COMM ERR]			
B0096–86	B-PILLAR SAT SEN RH [UNMATCH]			
B0096–88	B-PILLAR SAT SEN RH [OPEN]			
B0096–93	B-PILLAR SAT SEN RH [RESET]			
B0098–11	DOOR SAT SEN RH [GND-SHORT]	Sensor system	7	SRC-62, "DTC Description"
B0098–23	DOOR SAT SEN RH [LOWER LIMIT ERR]			
B0098–24	DOOR SAT SEN RH [UPPER LIMIT ERR]			
B0098–25	DOOR SAT SEN RH [SELF-DIAG ERR]			
B0098–28	DOOR SAT SEN RH [OFFSET ERR]			
B0098–81	DOOR SAT SEN RH [COMM ERR]			
B0098–86	DOOR SAT SEN RH [UNMATCH]			
B0098–88	DOOR SAT SEN RH [OPEN]			
B0098–88	DOOR SAT SEN RH [RESET]			
B00A0–00	OCCUPANT SENS [ABNOMAL VOLTAGE]	Air bag control unit system	4	SRC-64, "DTC Description"
B00A0–02	OCCUPANT SENS [UNIT MALFUNC]			
B00A0–09	OCCUPANT SENS [UNIT MALFUNC]			
B00A0–04	OCCUPANT SENS C/U [UNIT MALFUNC]			
B00A0–83	OCCUPANT SENS C/U [COMM ERR]			
B00A0–86	OCCUPANT SENS C/U [COMM ERR]			
B00A0–87	OCCUPANT SENS C/U [COMM ERR]			
B00A0–88	OCCUPANT SENS C/U [COMM ERR]			
B00A0–8F	OCCUPANT SENS C/U [UNDEFINED]			
B00A0–93	OCCUPANT SENS C/U [RESET]			
B00D5–04	PASS A/B INDCTR CKT [UNIT MALFUNC]	Air bag control unit system	3	SRC-66, "DTC Description"
B00D5–11	PASS A/B INDCTR CKT [GND-SHORT]			
B00D5–12	PASS A/B INDCTR CKT [VB-SHORT]			
B00D5–13	PASS A/B INDCTR CKT [OPEN]			
B00D5–15	PASS A/B INDCTR CKT [PWR-SHORT/OPEN]			
B1400–00	CONTROL UNIT [UNIT MALFUNC]	Air bag control unit system	2	SRC-68, "DTC Description"
B1401–00	CONTROL UNIT [UNIT MALFUNC]			
B1402–00	CONTROL UNIT [UNIT MALFUNC]			
B1403–00	CONTROL UNIT [UNIT MALFUNC]			
B1404–00	CONTROL UNIT [UNIT MALFUNC]			
B1405–00	CONTROL UNIT [UNIT MALFUNC]			

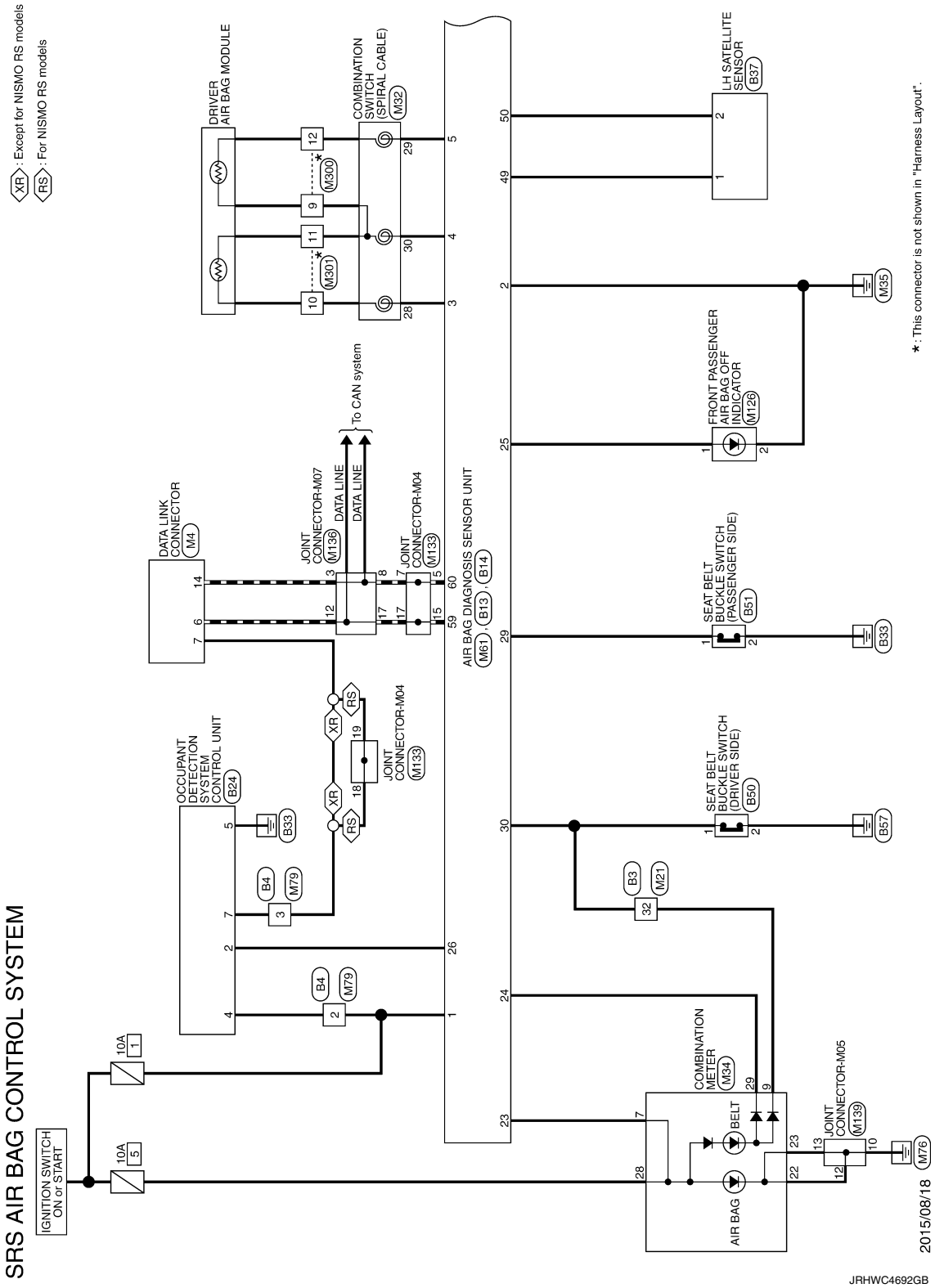
DTC	Diagnostic item	Number of times of warning lamp blinking in diagnosis mode		Reference page
		System display	Item display	
B1406–00	CONTROL UNIT [UNIT MALFUNC]	Air bag control unit system	2	SRC-70, "DTC Description"
B1407–00	CONTROL UNIT [UNIT MALFUNC]			
B1408–00	CONTROL UNIT [UNIT MALFUNC]			
B1409–00	CONTROL UNIT [UNIT MALFUNC]			
B1410–00	CONTROL UNIT [UNIT MALFUNC]			
B1411–00	CONTROL UNIT [UNIT MALFUNC]	Air bag control unit system	2	SRC-72, "DTC Description"
B1412–00	CONTROL UNIT [UNIT MALFUNC]			
B1413–00	CONTROL UNIT [UNIT MALFUNC]			
B1414–00	CONTROL UNIT [UNIT MALFUNC]			
B1415–00	CONTROL UNIT [UNIT MALFUNC]			
B1416–00	CONTROL UNIT [UNIT MALFUNC]	Air bag control unit system	2	SRC-74, "DTC Description"
B1417–00	CONTROL UNIT [UNIT MALFUNC]			
B1418–00	CONTROL UNIT [UNIT MALFUNC]			
B1419–00	CONTROL UNIT [UNIT MALFUNC]			
B1420–00	CONTROL UNIT [UNIT MALFUNC]			
B1421–00	FRONTAL COLLISION	Air bag control unit system	1	SRC-76, "DTC Description"
B1422–00	SIDE COLLISION	Air bag control unit system	1	SRC-77, "DTC Description"
B1425-00	REAR COLLISION	Air bag control unit system	1	SRC-78, "DTC Description"
B142A–16	IGNITION VOLTAGE [VB-LOW]	—	—	SRC-79, "DTC Description"
B142A–17	IGNITION VOLTAGE [VB-HIGH]	—	—	
B1430–09	PRE-TEN FRONT LH [SHORT]	Front air bag system	3	SRC-81, "DTC Description"
B1430–11	PRE-TEN FRONT LH [GND-SHORT]			
B1430–12	PRE-TEN FRONT LH [VB-SHORT]			
B1430–13	PRE-TEN FRONT LH [OPEN]			
B1430–1A	PRE-TEN FRONT LH [SHORT]			
B1431–09	PRE-TEN FRONT RH [SHORT]	Front air bag system	4	SRC-83, "DTC Description"
B1431–11	PRE-TEN FRONT RH [GND-SHORT]			
B1431–12	PRE-TEN FRONT RH [VB-SHORT]			
B1431–13	PRE-TEN FRONT RH [OPEN]			
B1431–1A	PRE-TEN FRONT RH [SHORT]			
B1500-23	DOOR SATELLITE SENSOR[LOWER LIMIT ERR]	Sensor system	6	SRC-85, "DTC Description"
B1500-24	DOOR SATELLITE SENSOR[UPPER LIMIT ERR]			
B1500-88	DOOR SATELLITE SENSOR[PERFRM ERR/INCRCT OPE]			

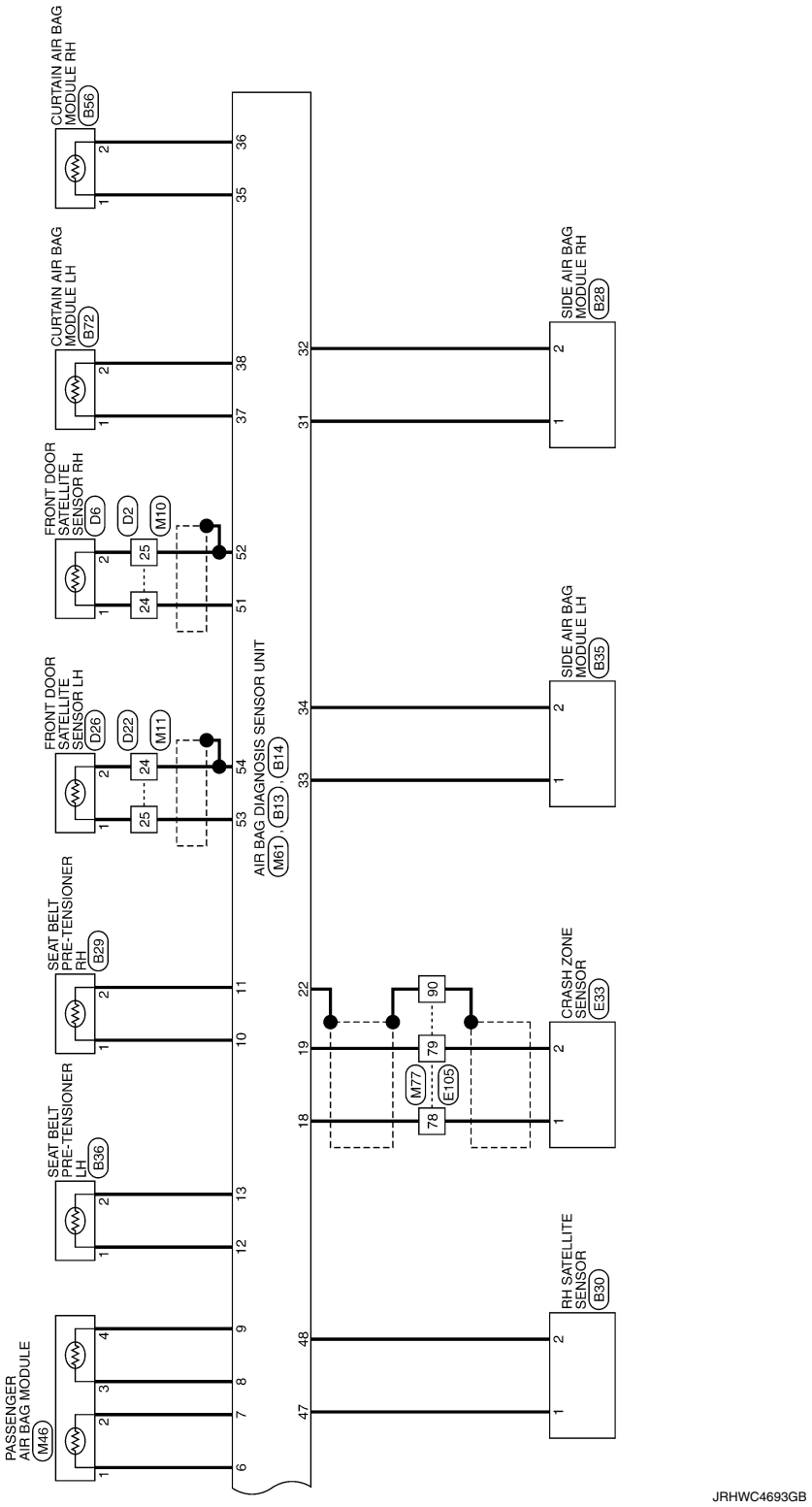
WIRING DIAGRAM

SRS AIR BAG SYSTEM

Wiring Diagram

INFOID:0000000012199580





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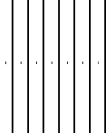
SRS AIR BAG CONTROL SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH

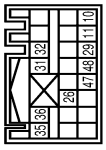
Terminal No.	Color Of Wire	Signal Name [Specification]
10	SHIELD	-
11	R	-
12	G	-
13	W	-
14	B	-
15	L	-
16	BR	-
17	LG	-
18	W	-
19	G	-
20	Y	-
26	Y	-
27	SHIELD	-
28	W	-
29	R	-
30	B	-
32	R	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	TH12NW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	-
3	GR	-
5	BR	-
6	L	-
10	V	-
11	LG	-
12	SHIELD	-

Connector No.	B13
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH32FY-1V-EX

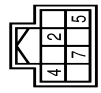


Terminal No.	Color Of Wire	Signal Name [Specification]
10	Y	PRH (+)
11	Y	PRH (-)
26	R	ODS INPUT
29	LG	RH BUCKLE SW INPUT
31	Y	SRH (+)
32	Y	SRH (-)
35	P	INF_CURTAIN_RH+
36	L	INF_CURTAIN_RH-
47	G	SATELLITE RH (+)
48	R	SATELLITE RH (-)

Connector No.	B14
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH32FY-2V-EX

Terminal No.	Color Of Wire	Signal Name [Specification]
12	Y	PLH (+)
13	Y	PLH (-)
30	R	LH BUCKLE SW INPUT
33	Y	SLH (+)
34	Y	SLH (-)
37	R	INF_CURTAIN_LH+
38	G	INF_CURTAIN_LH-
49	P	SATELLITE LH (+)
50	L	SATELLITE LH (-)

Connector No.	B24
Connector Name	OCCUPANT DETECTION SYSTEM CONTROL UNIT
Connector Type	TH08FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	COMUNICATION
4	BR	IGN
5	B	GND
7	GR	K-LINE

Connector No.	B28
Connector Name	SIDE AIR BAG MODULE RH
Connector Type	TK02FY-EX-1V

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

Connector No.	B29
Connector Name	SEAT BELT PRE-TENSIONER RH
Connector Type	AC802FY

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

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SRS AIR BAG CONTROL SYSTEM

Connector No.	B30
Connector Name	RH SATELLITE SENSOR
Connector Type	HK02FY-1V-EX

H.S.

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

Connector No.	B35
Connector Name	SIDE AIR BAG MODULE LH
Connector Type	TK02FY-EX-1V

H.S.

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

Connector No.	B36
Connector Name	SEAT BELT PRE-TENSIONER LH
Connector Type	ACB02FY

H.S.

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

Connector No.	B37
Connector Name	LH SATELLITE SENSOR
Connector Type	HK02FY-1V-EX

H.S.

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

Connector No.	B50
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH

H.S.

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

Connector No.	B51
Connector Name	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

H.S.

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

Connector No.	B56
Connector Name	CURTAIN AIR BAG MODULE RH
Connector Type	ACB02FY

H.S.

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

Connector No.	B72
Connector Name	CURTAIN AIR BAG MODULE LH
Connector Type	ACB02FY

H.S.

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

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SRS AIR BAG CONTROL SYSTEM

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	Y	-
4	V	-
13	W	-
14	SB	-
15	L	-
16	GR	-
17	Y	-
18	W	-
19	R	-
24	R	-
25	G	-
38	G	-
39	B	-
40	LG	-
41	Y	-
43	P	-
44	V	-
45	W	-
46	BG	-
50	P	-

Connector No.	D6
Connector Name	FRONT DOOR SATELLITE SENSOR RH
Connector Type	HK02FY-1V-EX

H.S.

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

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	W	-
3	SB	-
4	V	-
7	G	-
8	BG	-
9	LG	-
10	Y	-
11	W	-
12	SB	-
13	B	-
14	L	-
15	P	-
16	LG	-
17	BR	-
18	P	-
19	V	-
24	G	-
25	R	-
38	G	-
39	B	-
40	V	-
41	P	-
42	R	-
43	GR	-
44	W	-
45	Y	-
46	BG	-
47	G	-
48	L	-
49	R	-
50	LG	-
52	BR	-

Connector No.	D26
Connector Name	FRONT DOOR SATELLITE SENSOR LH
Connector Type	HK02FY-1V-EX

H.S.

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

Connector No.	E33
Connector Name	CRASH ZONE SENSOR
Connector Type	HK02FY-1V-EX

H.S.

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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
4	Y	-
6	P	-
10	R	-
11	W	-
12	B	-
13	R	-
14	SHIELD	-
34	BE	-
35	R	-
36	B	-
37	P	-
52	R	-
53	BR	-
54	V	-
55	BE	-
58	G	-
59	Y	-
62	Y	-
63	V	-
64	LG	-
65	L	-
66	R	-
67	W	-
68	SB	-
70	BR	-
71	LG	-
72	V	-
73	L	-
76	R	-

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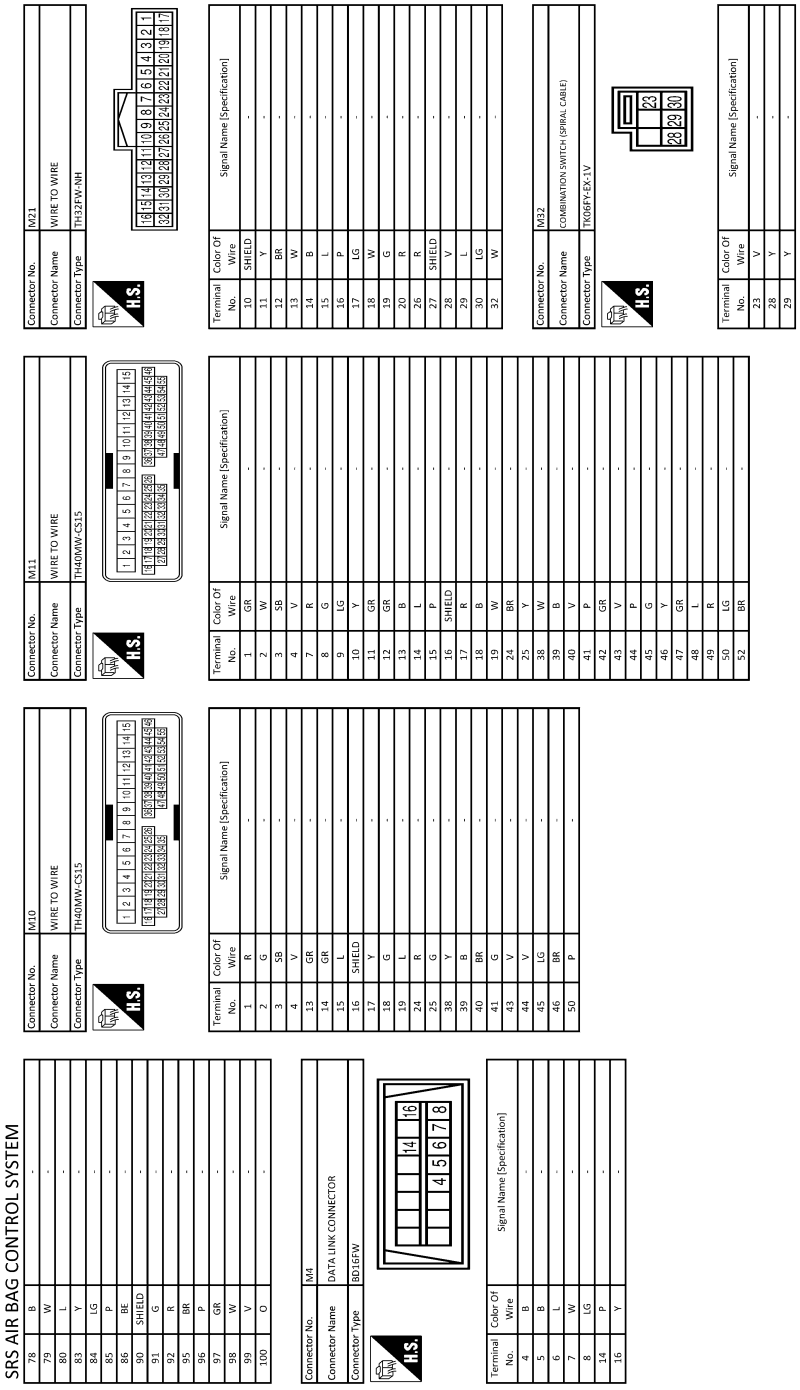

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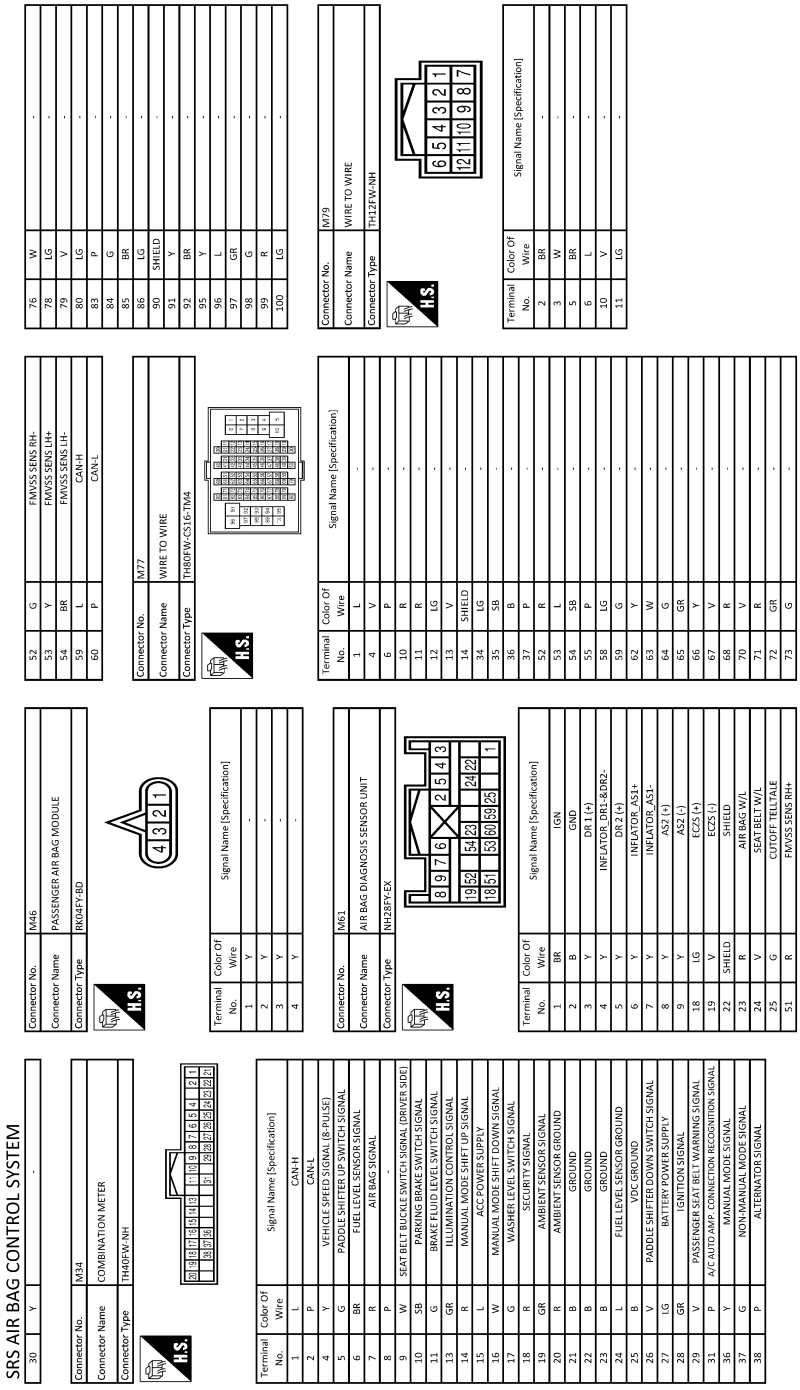

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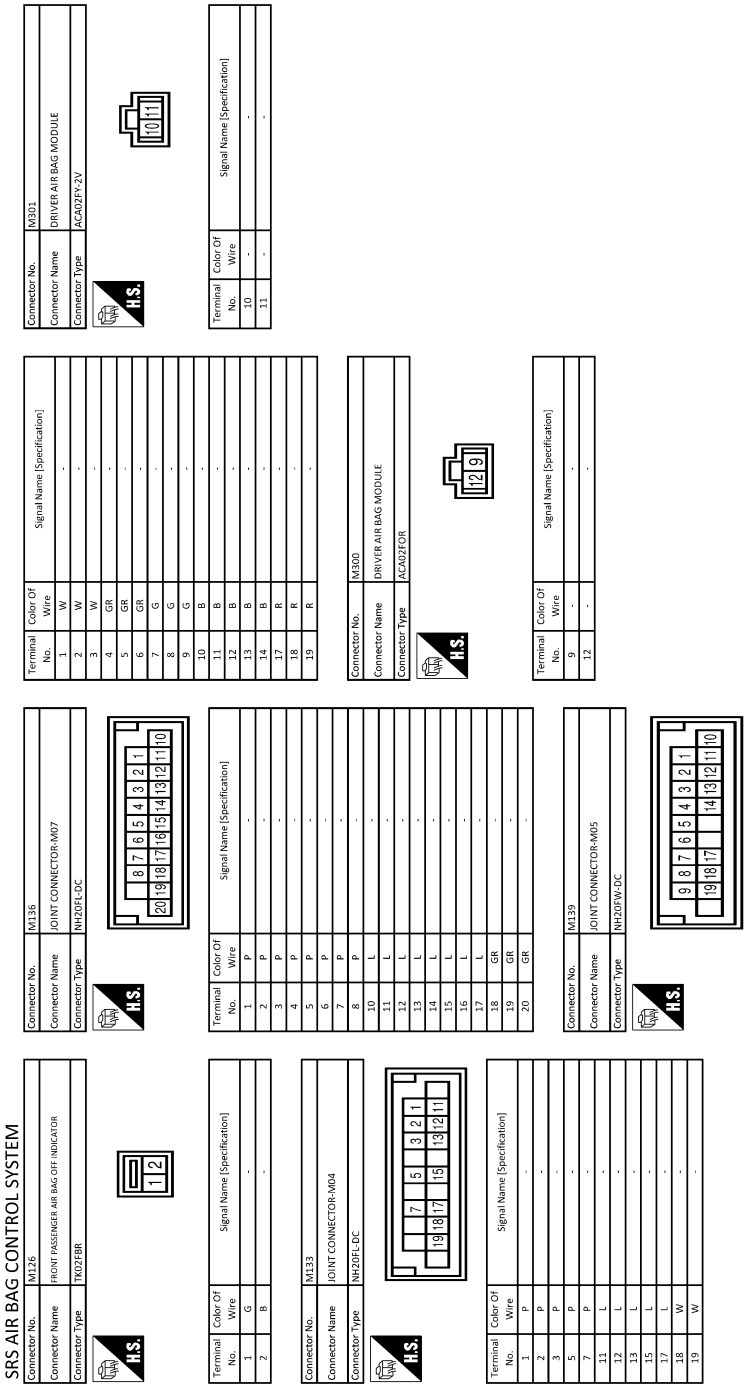

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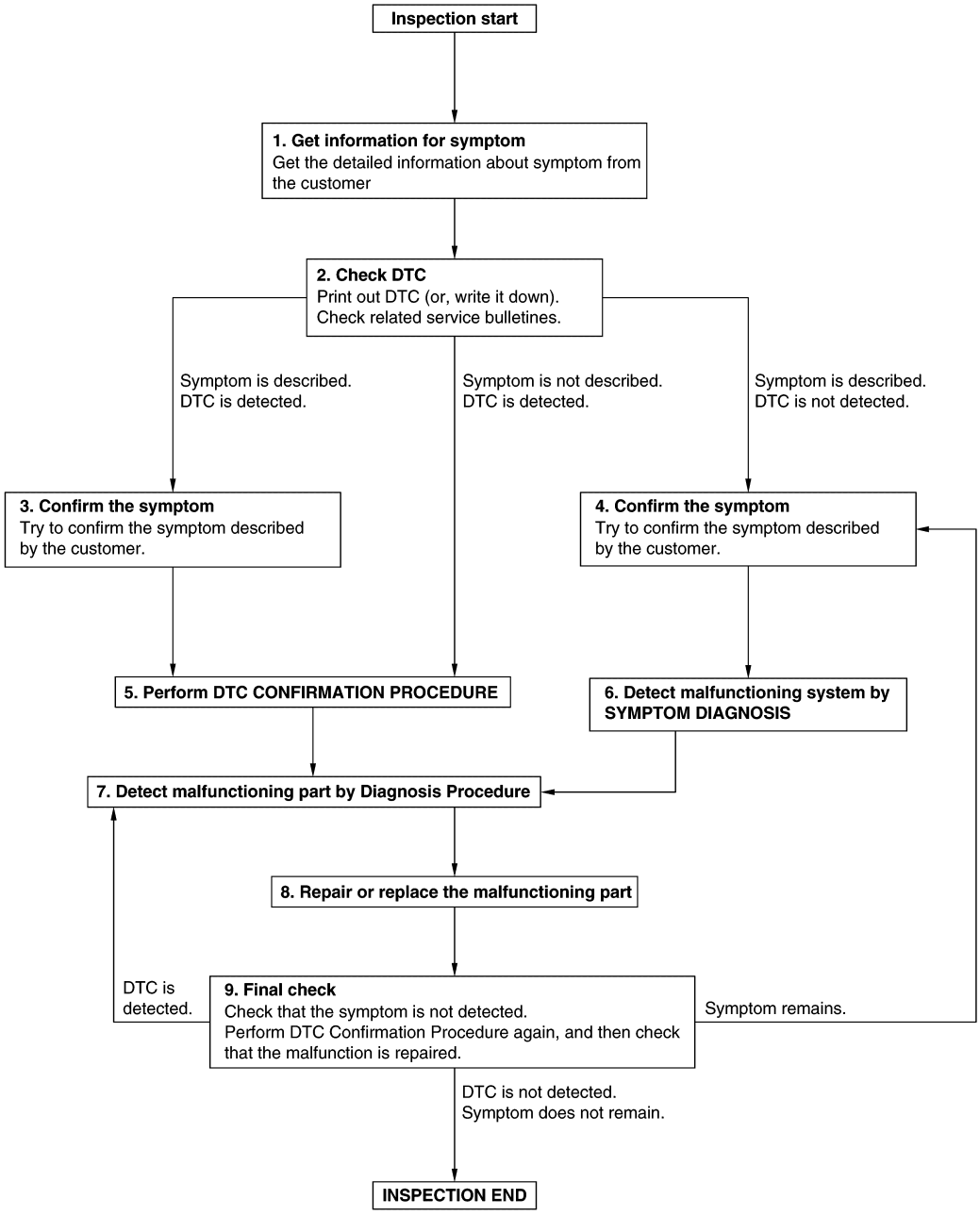
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000012199581

OVERALL SEQUENCE



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DETAILED FLOW

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-45, "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-45, "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.

>> 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.

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000012199582

When replacing or removing and installing passenger seat, always perform zero point reset so that Occupant Detection System is activated normally.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:0000000012199583

WORK PROCEDURE WHEN REPLACING CONTROL UNIT

1.PERFORM ZERO POINT RESET

Perform zero point reset. Refer to SRC-32, "ZERO POINT RESET : Special Repair Requirement".

>> END

ZERO POINT RESET

ZERO POINT RESET : Description

INFOID:0000000012199584

Zero point reset is an initializing procedure for occupant detection sensor that must be performed when replacing or removing and installing passenger seat.
If zero point reset is not performed, the initialization is incomplete and Occupant Detection System does not operate normally.

NOTE:

- When replacing passenger seat with a NISSAN genuine part, air bag warning lamp blinks if zero point reset is incomplete.
- When zero point reset is performed once after removal and installation of passenger seat, CONSULT displays “complete” and air bag warning does not blink.
- When reinstalling passenger seat after removal, the initial value for occupant detection sensor changes, and Occupant Detection System does not operate normally.
- Always perform zero point reset after performing the work as per the following.

- Reinstallation of passenger seat
- Replacement of passenger seat with a seat that is zero point reset complete.

ZERO POINT RESET : Special Repair Requirement

INFOID:0000000012199585

1.PERFORM ZERO POINT RESET

1. Perform zero point reset.
   NOTE:
   When performing zero point reset, be careful of the items described as per the following.
   - Perform zero point reset after installing passenger seat to the vehicle
   - Do not put any objects on passenger seat
   - Do not apply excessive vibration to the vehicle
   - Do not touch the vehicle
   - Do not tilt the vehicle
2. Select start on “Zero point reset function” screen from, WORK SUPPORT of CONSULT “OCCUPANT DETECTION”.
3. “Zero point reset” starts.

>> GO TO 2.

2.CONFIRMATION OF SETTING

1. Proceed to “Zero point reset function” screen from work support of CONSULT “OCCUPANT DETECTION”.
2. Check that “Complete” or “Incomplete” is displayed on “Zero point reset status”.

CAUTION:

- **"Complete" is displayed on "zero point reset current status" if the seat is reinstalled by seat removal and installation, or "zero point reset" is already performed.**
- **"Zero point reset current status" displays "Incomplete" if a new seat is installed. When turning key switch ON without performing zero point reset, air bag warning lamp blinks. When zero point reset is performed, air bag warning lamp turns OFF.**
- **Air bag warning lamp blinks in user mode only.**
- **Air bag sensor unit does not record whether or not zero point reset is performed.**

Is condition "ALREADY PERFORMED"?

YES >> Print out "ZERO POINT RESET CURRENT STATUS" screen, and inspection end.

NO >> Check condition as per the following, and perform zero point reset again.
- Passenger seat is occupied by an object.
- Excessive vibration is applied while performing zero point reset.
- Occupant detection system is malfunctioning.

NOTE:
If "Incomplete" is displayed on "zero point reset current status", zero point reset is not completed normally. Check the condition as per the following and perform zero point reset again.
- Passenger seat is occupied by an object.
- Excessive vibration is applied while performing zero point reset.
- Occupant detection system is malfunctioning.

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

DTC Description

INFOID:0000000012199586

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-29, "CAN COMMUNICATION SYSTEM : CAN System Specification Chart".

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

FAIL-SAFE
—

Diagnosis Procedure

INFOID:0000000012199587

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-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

U1010 CONTROL UNIT (CAN)

DTC Description

INFOID:0000000012199588

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

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Diagnosis Procedure

INFOID:0000000012199589

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-29, "Removal and Installation".

B0001 DRIVER AIR BAG MODULE

DTC Description

INFOID:0000000012199590

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)]	[SHORT]	Driver air bag module circuits are shorted to each other (including the spiral cable)
B0001–09		[SHORT]	Driver air bag module circuits are shorted to each other (including the spiral cable)
B0001–11		[GND-SHORT]	Driver air bag module circuit is shorted to ground (including the spiral cable)
B0001–12		[VB-SHORT]	Driver air bag module circuit is shorted to power supply circuit (including the spiral cable)
B0001–13		[OPEN]	Driver air bag module circuit is open (including the spiral cable)
B0001–1A		[SHORT]	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

[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

[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

[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

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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-37, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199591

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.CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

[B0001–13]>>GO TO 4.
[B0001–12]>>GO TO 8.
[B0001–11]>>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
10	28	Existed
11	30	

Is the inspection result normal?

YES >> GO TO 9.
NO >> Replace spiral cable. Refer to SR-15, "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
10		Not existed
11		

Is the inspection result normal?

YES >> GO TO 9.
NO >> Replace spiral cable. Refer to SR-15, "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.

Terminal		Continuity
10	11	Not existed

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace spiral cable. Refer to SR-15, "Removal and Installation".

7.CHECK SPIRAL CABLE CIRCUIT 4

Check continuity between spiral cable terminals.

Terminal		Continuity
28	30	Not existed

Is the inspection result normal?

YES >> GO TO 9.
NO >> Replace spiral cable. Refer to SR-15, "Removal and Installation".

8.REPLACE SPIRAL CABLE

1. Replace spiral cable. Refer to SR-15, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-36, "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-12, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-36, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-36, "DTC Description".

Is DTC detected?

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

B0002 DRIVER AIR BAG MODULE

DTC Description

INFOID:0000000012199592

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)		DTC detecting condition
B0002–00	DRIVER AIRBAG MODULE 2 [Driver Frontal Stage 2 Deployment Control (Subfault)]	[SHORT]	Driver air bag module circuits are shorted to each other (including the spiral cable)
B0002–09		[SHORT]	Driver air bag module circuits are shorted to each other (including the spiral cable)
B0002–11		[GND-SHORT]	Driver air bag module circuit is shorted to ground (including the spiral cable)
B0002–12		[VB-SHORT]	Driver air bag module circuit is shorted to power supply circuit (including the spiral cable)
B0002–13		[OPEN]	Driver air bag module circuit is open (including the spiral cable)
B0002–1A		[SHORT]	Driver air bag module circuits are shorted to each other (including the spiral cable)

POSSIBLE CAUSE

[B0002–00, B0002–09, B0002–1A]
- Connection malfunction or short circuit of harness and connector
- Internal malfunction of driver air bag module
- Internal malfunction of air bag diagnosis sensor unit

[B0002–11]
- 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

[B0002–12]
- 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

[B0002–13]
- Connection malfunction or open circuit of harness and connector
- Internal malfunction of driver air bag module
- Internal malfunction of air bag diagnosis sensor unit

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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-40, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199593

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.CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

[B0002–13]>>GO TO 4.
[B0002–12]>>GO TO 8.
[B0002–11]>>GO TO 5.
[B0002–00, B0002–09, B0002–1A]>>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
12	29	Existed
9	30	

Is the inspection result normal?

YES >> GO TO 9.
NO >> Replace spiral cable. Refer to SR-15, "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		Continuity
12	Ground	Not existed
9		

Is the inspection result normal?

YES >> GO TO 9.
NO >> Replace spiral cable. Refer to SR-15, "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.

Terminal		Continuity
12	9	Not existed

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace spiral cable. Refer to SR-15, "Removal and Installation".

7. CHECK SPIRAL CABLE CIRCUIT 4

Check continuity between spiral cable terminals.

Terminal		Continuity
29	30	Not existed

Is the inspection result normal?

YES >> GO TO 9.
NO >> Replace spiral cable. Refer to SR-15, "Removal and Installation".

8. REPLACE SPIRAL CABLE

1. Replace spiral cable. Refer to GI-45, "Intermittent Incident".
2. Perform DTC confirmation procedure. Refer to SRC-39, "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-12, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-39, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-39, "DTC Description".

Is DTC detected?

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

B0010 PASSENGER AIR BAG MODULE

DTC Description

INFOID:0000000012199594

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)]	[SHORT]	Passenger air bag module circuits are shorted to each other
B0010–11		[GND-SHORT]	Passenger air bag module circuit is shorted to ground
B0010–12		[VB-SHORT]	Passenger air bag module circuit is shorted to power supply circuit
B0010–13		[OPEN]	Passenger air bag module circuit is open
B0010–1A		[SHORT]	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

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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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-42, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199595

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 PASSENGER AIR BAG MODULE

1. Replace passenger air bag module. Refer to SR-18, "Removal and Installation"
2. Perform DTC confirmation procedure. Refer to SRC-42, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-42, "DTC Description".

Is DTC detected?

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

B0011 PASSENGER AIR BAG MODULE

DTC Description

INFOID:0000000012199596

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)		DTC detecting condition
B0011–09	ASSIST A/B MODULE 2 [Passenger Frontal Stage 2 Deployment Control (Subfault)]	[SHORT]	Passenger air bag module circuits are shorted to each other
B0011–11		[GND-SHORT]	Passenger air bag module circuit is shorted to ground
B0011–12		[VB-SHORT]	Passenger air bag module circuit is shorted to power supply circuit
B0011–13		[OPEN]	Passenger air bag module circuit is open
B0011–1A		[SHORT]	Passenger air bag module circuits are shorted to each other

POSSIBLE CAUSE

[B0011–09, B0011–1A]
- Connection malfunction or short circuit of harness and connector
- Internal malfunction of passenger air bag module
- Internal malfunction of air bag diagnosis sensor unit

[B0011–11]
- 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

[B0011–12]
- 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

[B0011–13]
- 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

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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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-44, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199597

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 PASSENGER AIR BAG MODULE

1. Replace passenger air bag module. Refer to SR-18, "Removal and Installation"
2. Perform DTC confirmation procedure. Refer to SRC-44, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-44, "DTC Description".

Is DTC detected?

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

B0020 SIDE AIR BAG MODULE

DTC Description

INFOID:0000000012199598

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 (Subfault)]	[SHORT]	Side air bag module LH circuits are shorted to each other
B0020–11		[GND-SHORT]	Side air bag module LH circuit is shorted to ground
B0020–12		[VB-SHORT]	Side air bag module LH circuit is shorted to power supply circuit
B0020–13		[OPEN]	Side air bag module LH circuit is open
B0020–1A		[SHORT]	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

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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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-46, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199599

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 SIDE AIR BAG MODULE LH

1. Replace side air bag module LH. Refer to SE-21, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-46, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-46, "DTC Description".

Is DTC detected?

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

B0021 CURTAIN AIR BAG MODULE

DTC Description

INFOID:0000000012199600

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)]	[SHORT]	Curtain air bag module LH circuits are shorted to each other
B0021–11		[GND-SHORT]	Curtain air bag module LH circuit is shorted to ground
B0021–12		[VB-SHORT]	Curtain air bag module LH circuit is shorted to power supply circuit
B0021–13		[OPEN]	Curtain air bag module LH circuit is open
B0021–1A		[SHORT]	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

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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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-48, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199601

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 CURTAIN AIR BAG MODULE LH

1. Replace curtain air bag module LH. Refer to SR-21, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-48, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-48, "DTC Description".

Is DTC detected?

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

B0028 SIDE AIR BAG MODULE

DTC Description

INFOID:0000000012199602

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 (Subfault)]	[SHORT]	Side air bag module RH circuits are shorted to each other
B0028–11		[GND-SHORT]	Side air bag module RH circuit is shorted to ground
B0028–12		[VB-SHORT]	Side air bag module RH circuit is shorted to power supply circuit
B0028–13		[OPEN]	Side air bag module RH circuit is open
B0028–1A		[SHORT]	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

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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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-50, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199603

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 SIDE AIR BAG MODULE RH

1. Replace side air bag module RH. Refer to SE-21, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-50, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-50, "DTC Description".

Is DTC detected?

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

B0029 CURTAIN AIR BAG MODULE

DTC Description

INFOID:0000000012199604

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 (Subfault)]	[SHORT]	Curtain air bag module RH circuits are shorted to each other
B0029–11		[GND-SHORT]	Curtain air bag module RH circuit is shorted to ground
B0029–12		[VB-SHORT]	Curtain air bag module RH circuit is shorted to power supply circuit
B0029–13		[OPEN]	Curtain air bag module RH circuit is open
B0029–1A		[SHORT]	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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-52, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199605

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 CURTAIN AIR BAG MODULE RH

1. Replace curtain air bag module RH. Refer to SR-21, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-52, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-52, "DTC Description".

Is DTC detected?

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

B0091 B-PILLAR SATELLITE SENSOR

DTC Description

INFOID:0000000012199606

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)]	[GND-SHORT]	Satellite sensor LH circuit is shorted to ground
B0091–23		[LOWER LIMIT ERR]	Lower limit value malfunction of satellite sensor LH
B0091–24		[UPPER LIMIT ERR]	Upper limit value malfunction of satellite sensor LH
B0091–25		[SELF-DIAG ERR]	Diagnosis malfunction of satellite sensor LH
B0091–28		[OFFSET ERR]	Offset malfunction of satellite sensor LH
B0091–81		[COMM ERR]	Communication malfunction of satellite sensor LH
B0091–86		[UNMATCH]	Satellite sensor LH is out of the specified specification
B0091–88		[OPEN]	Satellite sensor LH circuit is open
B0091–93		[RESET]	Reset malfunction of satellite sensor LH

POSSIBLE CAUSE

[B0091–11]
- Connection malfunction or short circuit to ground of harness and connector
- Internal malfunction of satellite sensor LH
- Internal malfunction of air bag diagnosis sensor unit

[B0091–23, B0091–24, B0091–25, B0091–28]
- Internal malfunction of satellite sensor LH
- Internal malfunction of air bag diagnosis sensor unit

[B0091–81, B0091–93]
- Connection malfunction of harness or connector
- Internal malfunction of satellite sensor LH
- Internal malfunction of air bag diagnosis sensor unit

[B0091–86]
- Air bag diagnosis sensor unit and satellite sensor LH is different from the part specified

[B0091–88]
- Connection malfunction or open circuit of harness and connector
- Internal malfunction of satellite sensor LH
- 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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-55, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199607

WARNING:

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

1.CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

[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 SATELLITE SENSOR LH

1. Replace satellite sensor LH. Refer to SR-26, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-54, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-54, "DTC Description".

Is DTC detected?

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

B0093 FRONT DOOR SATELLITE SENSOR LH

DTC Description

INFOID:0000000012199608

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)		DTC detecting condition
B0093–11	DOOR SATEL SENS LH [Left Side Restraints Sensor 3 (Subfault)]	[GND-SHORT]	Front door satellite sensor LH circuit is shorted to ground
B0093–23		[LOWER LIMIT ERR]	Lower limit value malfunction of front door satellite sensor LH
B0093–24		[UPPER LIMIT ERR]	Upper limit value malfunction of front door satellite sensor LH
B0093–25		[SELF-DIAG ERR]	Diagnosis malfunction of front door satellite sensor LH
B0093–28		[OFFSET ERR]	Offset malfunction of front door satellite sensor LH
B0093–81		[COMM ERR]	Communication malfunction of front door satellite sensor LH
B0093–93		[RESET]	Reset malfunction of front door satellite sensor LH
B0093–86		[UNMATCH]	Front door satellite sensor LH is out of the specified specification
B0093–88		[OPEN]	Front door satellite sensor LH circuit is open

POSSIBLE CAUSE

[B0093–11]
- Connection malfunction or short circuit to ground of harness and connector
- Internal malfunction of front door satellite sensor LH
- Internal malfunction of air bag diagnosis sensor unit

[B0093–23, B0093–24, B0093–25, B0093–28]
- Internal malfunction of front door satellite sensor LH
- Internal malfunction of air bag diagnosis sensor unit

[B0093–81, B0093–93]
- Connection malfunction of harness or connector
- Internal malfunction of front door satellite sensor LH
- Internal malfunction of air bag diagnosis sensor unit

[B0093–86]
- Air bag diagnosis sensor unit and front door satellite sensor LH is different from the part specified

[B0093–88]
- Connection malfunction or open circuit of harness and connector
- Internal malfunction of front door satellite sensor LH
- 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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-57, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199609

WARNING:

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

1.CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

[B0093–86] >> GO TO 4.
Other than the above >> GO TO 2.

2.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 3.
NO-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 FRONT DOOR SATELLITE SENSOR LH

1. Replace front door satellite sensor LH. Refer to SR-26, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-56, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-56, "DTC Description".

Is DTC detected?

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

B0094 CRASH ZONE SENSOR

DTC Description

INFOID:0000000012199610

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)		DTC detecting condition
B0094–11	CRASH ZONE SENS [Center Frontal Restraints Sensor (Subfault)]	[GND-SHORT]	Crash zone sensor circuit is shorted to ground
B0094–23		[LOWER LIMIT ERR]	Lower limit value malfunction of crash zone sensor
B0094–24		[UPPER LIMIT ERR]	Upper limit value malfunction of crash zone sensor
B0094–25		[SELF-DIAG ERR]	Diagnosis malfunction of crash zone sensor
B0094–28		[OFFSET ERR]	Offset malfunction of crash zone sensor
B0094–81		[COMM ERR]	Communication malfunction of crash zone sensor
B0094–86		[UNMATCH]	Crash zone sensor is out of the specified specification
B0094–88		[OPEN]	Crash zone sensor circuit is open
B0094–93		[RESET]	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

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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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-59, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199611

WARNING:

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

1.CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

[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-24, "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-24, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-58, "DTC Description".

Is DTC detected?

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

B0096 B-PILLAR SATELLITE SENSOR

DTC Description

INFOID:0000000012199612

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)]	[GND-SHORT]	Satellite sensor RH circuit is shorted to ground
B0096–23		[LOWER LIMIT ERR]	Lower limit value malfunction of satellite sensor RH
B0096–24		[UPPER LIMIT ERR]	Upper limit value malfunction of satellite sensor RH
B0096–25		[SELF-DIAG ERR]	Diagnosis malfunction of satellite sensor RH
B0096–28		[OFFSET ERR]	Offset malfunction of satellite sensor RH
B0096–81		[COMM ERR]	Communication malfunction of satellite sensor RH
B0096–86		[UNMATCH]	Satellite sensor RH is out of the specified specification
B0096–88		[OPEN]	Satellite sensor RH circuit is open
B0096–93		[RESET]	Reset malfunction of satellite sensor RH

POSSIBLE CAUSE

[B0096–11]
- Connection malfunction or short circuit to ground of harness and connector
- Internal malfunction of satellite sensor RH
- Internal malfunction of air bag diagnosis sensor unit

[B0096–23, B0096–24, B0096–25, B0096–28]
- Internal malfunction of satellite sensor RH
- Internal malfunction of air bag diagnosis sensor unit

[B0096–81, B0096–93]
- Connection malfunction of harness or connector
- Internal malfunction of satellite sensor RH
- Internal malfunction of air bag diagnosis sensor unit

[B0096–86]
- Air bag diagnosis sensor unit and satellite sensor RH is different from the part specified

[B0096–88]
- Connection malfunction or open circuit of harness and connector
- Internal malfunction of satellite sensor 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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-61, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199613

WARNING:

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

1.CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

[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 SATELLITE SENSOR RH

1. Replace satellite sensor RH. Refer to SR-26, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-60, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-60, "DTC Description".

Is DTC detected?

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

B0098 FRONT DOOR SATELLITE SENSOR RH

DTC Description

INFOID:0000000012199614

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)		DTC detecting condition
B0098–11	DOOR SATEL SENS RH [Right Frontal Restraints Sensor 3 (Subfault)]	[GND-SHORT]	Front door satellite sensor RH circuit is shorted to ground
B0098–23		[LOWER LIMIT ERR]	Lower limit value malfunction of front door satellite sensor RH
B0098–24		[UPPER LIMIT ERR]	Upper limit value malfunction of front door satellite sensor RH
B0098–25		[SELF-DIAG ERR]	Diagnosis malfunction of front door satellite sensor RH
B0098–28		[OFFSET ERR]	Offset malfunction of front door satellite sensor RH
B0098–81		[COMM ERR]	Communication malfunction of front door satellite sensor RH
B0098–86		[UNMATCH]	Front door satellite sensor RH is out of the specified specification
B0098–88		[OPEN]	Front door satellite sensor RH circuit is open
B0098–93		[RESET]	Reset malfunction of front door satellite sensor RH

POSSIBLE CAUSE

[B0098–11]
- Connection malfunction or short circuit to ground of harness and connector
- Internal malfunction of front door satellite sensor RH
- Internal malfunction of air bag diagnosis sensor unit

[B0098–23, B0098–24, B0098–25, B0098–28]
- Internal malfunction of front door satellite sensor RH
- Internal malfunction of air bag diagnosis sensor unit

[B0098–81, B0098–93]
- Connection malfunction of harness or connector
- Internal malfunction of front door satellite sensor RH
- Internal malfunction of air bag diagnosis sensor unit

[B0098–86]
- Air bag diagnosis sensor unit and front door satellite sensor RH is different from the part specified

[B0098–88]
- Connection malfunction or open circuit of harness and connector
- Internal malfunction of front door satellite sensor 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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-63, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199615

WARNING:

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

1.CHECK DTC

Perform each inspection according to the displayed DTC.

Which DTC is displayed?

[B0098–86] >> GO TO 4.
Other than the above >> GO TO 2.

2.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 3.
NO-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 FRONT DOOR SATELLITE SENSOR RH

1. Replace front door satellite sensor RH. Refer to SR-26, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-62, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-62, "DTC Description".

Is DTC detected?

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

B00A0 OCCUPANT DETECTION SYSTEM CONTROL UNIT

DTC Description

INFOID:0000000012199616

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)		DTC detecting condition
B00A0–00	OCCUPANT SENS [Occupant Classification System (Subfault)]	[ABNORMAL VOLTAGE]	Power supply malfunction of occupant detection sensor
B00A0–02		[UNIT MALFUNC]	Malfunction of occupant detection sensor
B00A0–09		[UNIT MALFUNC]	Malfunction of occupant detection sensor
B00A0–04	OCCUPANT SENS C/U [Occupant Classification System (Subfault)]	[UNIT MALFUNC]	Malfunction of occupant detection sensor control unit
B00A0–83		[COMM ERR]	• Communication malfunction of occupant detection sensor control unit • Communication blank of occupant detection sensor control unit
B00A0–86		[COMM ERR]	• Communication malfunction of occupant detection sensor control unit • Communication blank of occupant detection sensor control unit
B00A0–87		[COMM ERR]	• Communication malfunction of occupant detection sensor control unit • Communication blank of occupant detection sensor control unit
B00A0–88		[COMM ERR]	• Communication malfunction of occupant detection sensor control unit • Communication blank of occupant detection sensor control unit
B00A0–8F		[UNDEFINED]	Undefined status of occupant detection sensor control unit
B00A0–93		[RESET]	Reset malfunction of occupant detection sensor control unit

POSSIBLE CAUSE

OCCUPANT SENS
• [B00A0–00]
- Connection malfunction or short circuit to power supply of harness or connector
- Internal malfunction of occupant detection sensor
- Internal malfunction of air bag diagnosis sensor unit
• [B00A0–02, B00A0–09]
- Connection malfunction of harness and connector
- Internal malfunction of occupant detection sensor
- Internal malfunction of air bag diagnosis sensor unit

OCCUPANT SENS C/U
• [B00A0–04, B00A0–83, B00A0–86, B00A0–87, B00A0–88, B00A0–8F]
- Connection malfunction or open circuit of harness and connector
- Internal malfunction of occupant detection sensor control unit
- Internal malfunction of air bag diagnosis sensor unit
• [B00A0–93]
- Connection malfunction of harness and connector
- Internal malfunction of occupant detection sensor control unit
- 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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-65, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199617

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

DIAGNOSTIC PROCEDURE

1.CHECK HARNESS CONNECTOR

Check the 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 OCCUPANT DETECTION SYSTEM CONTROL UNIT

1. Replace occupant detection system control unit. Refer to SR-32, "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 OCCUPANT DETECTION SYSTEM SEAT SENSOR

1. Replace seat frame. Refer to SE-21, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-64, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-64, "DTC Description".

Is DTC detected?

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

B00D5 PASSENGER AIR BAG OFF INDICATOR

DTC Description

INFOID:0000000012199618

DTC DETECTION LOGIC

DTC	CONSULT screen items	DTC detecting condition
B00D5–04	PASS A/B INDCTR CKT [UNIT MALFUNC]	Malfunction in passenger air bag OFF indicator circuit
B00D5–11	PASS A/B INDCTR CKT [GND-SHORT]	Passenger air bag OFF indicator circuit is shorted to ground
B00D5–12	PASS A/B INDCTR CKT [VB-SHORT]	Passenger air bag OFF indicator circuit is shorted to power supply circuit
B00D5–13	PASS A/B INDCTR CKT [OPEN]	Passenger air bag OFF indicator circuit is open
B00D5–15	PASS A/B INDCTR CKT [PWE-SHORT/ OPEN]	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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-67, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199619

WARNING:

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

DIAGNOSTIC PROCEDURE

1.CHECK HARNESS CONNECTOR

Check the connection of harness connector.

Is the inspection result normal?

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

2.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

3.CHECK PASSENGER AIR BAG OFF INDICATOR

1. Replace cluster lid C (passenger air bag OFF indicator).
2. Perform DTC confirmation procedure. Refer to SRC-66, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-66, "DTC Description".

Is DTC detected?

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

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

DTC Description

INFOID:0000000012199620

DTC DETECTION LOGIC

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

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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

NOTE:

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

Is malfunctioning part detected?

YES >> Refer to SRC-68, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199621

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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-68, "DTC Description".

Is DTC detected?

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

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

DTC Description

INFOID:0000000012199622

DTC DETECTION LOGIC

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

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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-70, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199623

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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-70, "DTC Description".

Is DTC detected?

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

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

DTC Description

INFOID:0000000012199624

DTC DETECTION LOGIC

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

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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-72, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199625

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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-72, "DTC Description".

Is DTC detected?

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

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

DTC Description

INFOID:0000000012199626

DTC DETECTION LOGIC

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

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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-74, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199627

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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-74, "DTC Description".

Is DTC detected?

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

B1421 FRONTAL COLLISION DETECTION

DTC Description

INFOID:0000000012199628

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

- Malfunction of frontal-related parts
- 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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-76, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199629

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-6, "FOR FRONTAL COLLISION : When SRS is activated in a collision" or SR-7, "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-17, "DTC Index".

B1422 SIDE COLLISION DETECTION

DTC Description

INFOID:0000000012199630

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

- Malfunction of side-related parts
- 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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-77, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199631

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-8, "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision" or SR-9, "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-17, "DTC Index".

B1425 REAR COLLISION DETECTION

DTC Description

INFOID:0000000012199632

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

- Malfunction of rear crash-related parts
- Internal malfunction of air bag diagnosis sensor unit

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

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

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-78, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199633

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-8, "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision" or SR-9, "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-17, "DTC Index".

B142A IGN VOLTAGE

DTC Description

INFOID:0000000012199634

DTC DETECTION LOGIC

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

POSSIBLE CAUSE

[B142A–16]
- Malfunction of battery voltage (low voltage)
- Connection malfunction of harness or connector
- Internal malfunction of air bag diagnosis sensor unit

[B142A–17]
- Malfunction of battery voltage (high voltage)
- Connection malfunction of harness or connector
- 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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-79, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199635

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.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace battery. Refer to PG-105, "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.

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-29, "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 Description

INFOID:0000000012199636

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)]	[SHORT]	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)	[GND-SHORT]	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)	[VB-SHORT]	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)	[OPEN]	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)	[SHORT]	Seat belt pre-tensioner LH circuits are shorted to each other

POSSIBLE CAUSE

[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

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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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-82, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199637

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-31, "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-29, "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 Description

INFOID:0000000012199638

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)]	[SHORT]	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)	[GND-SHORT]	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)	[VB-SHORT]	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)	[OPEN]	Seat belt pre-tensioner RH circuit is open
B1431–1A	PRE-TEN FRONT RH (front seat belt pre-tensioner squib right hand circuit re-sistance below threshold)	[SHORT]	Seat belt pre-tensioner RH circuits are shorted to each other

POSSIBLE CAUSE

[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

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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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-84, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199639

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-31, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-83, "DTC Description".

Is DTC detected?

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

B1500 DOOR SATELLITE SENSOR

DTC Description

INFOID:0000000012199640

DTC DETECTION LOGIC

DTC	CONSULT screen items (Trouble diagnosis content)		DTC detecting condition
B1500–23	DOOR SATELLITE SENSOR (Door-SAT signal stuck low)	[LOWER LIMIT ERR]	Lower limit value malfunction of front door satellite sensor LH or RH
B1500–24	DOOR SATELLITE SENSOR (Door-SAT signal stuck High)	[UPPER LIMIT ERR]	Upper limit value malfunction of front door satellite sensor LH or RH
B1500–92	DOOR SATELLITE SENSOR [Door-SAT performance or incorrect operation]	[PERFRM ERR/INCRCT OPE]	Malfunction of front door satellite sensor LH or RH

POSSIBLE CAUSE

- Connection malfunction or open circuit of harness and connector
- Internal malfunction of front door satellite sensor LH or 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.

Without CONSULT
1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-10, "On Board Diagnosis Function".

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

Is malfunctioning part detected?

YES >> Refer to SRC-85, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-45, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012199641

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

1.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 2.
NO-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 FRONT DOOR SATELLITE SENSOR LH AND RH

1. Replace front door satellite sensor LH and RH. Refer to SR-26, "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-29, "Removal and Installation".
2. Perform DTC confirmation procedure. Refer to SRC-85, "DTC Description".

Is DTC detected?

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

SYMPTOM DIAGNOSIS

SRS AIR BAG WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:0000000012199642

1. CHECK AIR BAG MODULE AND SEAT BELT PRE-TENSIONER

Check the deployment of air bag module and seat belt pre-tensioner.

Is air bag module deployed?

YES >> Replace the malfunctioning parts.
NO >> GO TO 2.

2. CHECK AIR BAG FUSE

Check 10 A fuse [No.1].

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace the fuse.

3. CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 4.
NO-1 >> Damade: Replace malfunctioning harness and connectors.
NO-2 >> Disconnection or looseness: Seccurely lock the connector.

4. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace malfunctioning harness and connector.

5. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-29, "Removal and Installation".
2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> INSPECTION END
NO >> GO TO 6.

6. REPLACE COMBINATION METER

1. Replace combination meter. Refer to MWI-64, "Removal and Installation".
2. Check air bag warning lamp operation.

Is the inspection result normal?

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

SRS AIR BAG WARNING LAMP DOES NOT TURN ON

Diagnosis Procedure

INFOID:0000000012199643

1.CHECK COMBINATION METER POWER SUPPLY AND GROUND CIRCUIT

Check combination meter unit power supply and ground circuit. Refer toMWI-53, "COMBINATION METER : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 3.
NO-1 >> Damage: Replace malfunctioning harness and connectors.
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.CHECK AIR BAG DIAGNOSIS SENSOR UNIT

Disconnect air bag diagnosis sensor unit connector and turn ignition switch ON.

Does air bag warning lamp turn ON?

YES >> Replace air bag diagnosis sensor unit. Refer to SR-29, "Removal and Installation".
NO >> Replace combination meter. Refer to MWI-64, "Removal and Installation".