SECTION SRC
SRS AIRBAG CONTROL SYSTEM

CONTENTS

PRECAUTION

PRECAUTIONS

Precaution for Technicians Using Medical Electric

INFOID:0000000010641143

OPERATION PROHIBITION

WARNING:

- **Parts with strong magnet is used in this vehicle.**
- **Technicians using a medical electric device such as pacemaker must never perform operation on the vehicle, as magnetic field can affect the device function by approaching to such parts.**

NORMAL CHARGE PRECAUTION

WARNING:

- **If a technician uses a medical electric device such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, the possible effects on the devices must be checked with the device manufacturer before starting the charge operation.**
- **As radiated electromagnetic wave generated by PDM (Power Delivery Module) at normal charge operation may affect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not approach motor room [PDM (Power Delivery Module)] at the hood-opened condition during normal charge operation.**

PRECAUTION AT TELEMATICS SYSTEM OPERATION

WARNING:

- **If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.**
- **The electromagnetic wave of TCU might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), when using the service, etc.**
- **If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of TCU might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before TCU use.**

PRECAUTION AT INTELLIGENT KEY SYSTEM OPERATION

WARNING:

- **If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.**
- **The electromagnetic wave of intelligent key might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), at door operation, at each request switch operation, or at engine starting.**
- **If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of intelligent key might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before intelligent key use.**

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

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

WARNING:

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

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

WARNING:

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

Point to Be Checked Before Starting Maintenance Work

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The high voltage system may starts automatically. It is required to check that the timer air conditioner and timer charge (during EVSE connection) are not set before starting maintenance work.
NOTE:
If the timer air conditioner or timer charge (during EVSE connection) is set, the high voltage system starts automatically even when the power switch is in OFF state.

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 power switch OFF, disconnect 12V battery negative terminal and wait 3 minutes or more.Refer to SRC-4, "Precaution for Removing 12V Battery".
  For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pretensioner to deploy. Therefore, never work on any SRS connectors or wires until at least 3 minutes have passed.
- Diagnosis sensor unit must always be installed with their arrow marks "⇐" pointing towards the front of the vehicle for proper operation. Also check diagnosis sensor unit for cracks, deformities or rust before installation and replace as required.
- The spiral cable must be aligned with the neutral position since its rotations are limited. Never turn steering wheel and column after removal of steering gear.
- Handle air bag module carefully. Always place driver and front passenger air bag modules with the pad side facing upward and seat mounted front side air bag module standing with the stud bolt side facing down.
- Conduct self-diagnosis to check entire SRS for proper function after replacing any components.
- After air bag inflates, the front instrument panel assembly should be replaced if damaged.
- Always replace instrument panel pad following front passenger air bag deployment.
- Never solder the harness when making repairs. Check that harness is not pinched and that there is no contact with other components.
- Never allow harness to come in contact with oil, grease, waste oil, or water.
- Never insert foreign materials, such as a screwdriver, into the harness connector. (This is to prevent accidental activation caused by static electricity.)
- Always use CONSULT or SRS air bag warning lamp to perform the circuit diagnosis. (Never use an electric tester such as a circuit tester.)

Precaution for Removing 12V Battery

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1. Check that EVSE is not connected.
   NOTE:
   If EVSE is connected, the air conditioning system may be automatically activated by the timer A/C function.
2. Turn the power switch OFF → ON → OFF. Get out of the vehicle. Close all doors (including back door).
3. Check that the charge status indicator lamp does not blink and wait for 5 minutes or more.
   NOTE:

If the battery is removed within 5 minutes after the power switch is turned OFF, plural DTCs may be detected.

4. Remove 12V battery within 1 hour after turning the power switch OFF → ON → OFF.

NOTE:

- The 12V battery automatic charge control may start automatically even when the power switch is in OFF state.
- Once the power switch is turned ON → OFF, the 12V battery automatic charge control does not start for approximately 1 hour.

CAUTION:

- **After all doors (including back door) are closed, if a door (including back door) is opened before battery terminals are disconnected, start over from Step 1.**
- **After turning the power switch OFF, if "Remote A/C" is activated by user operation, stop the air conditioner and start over from Step 1.**

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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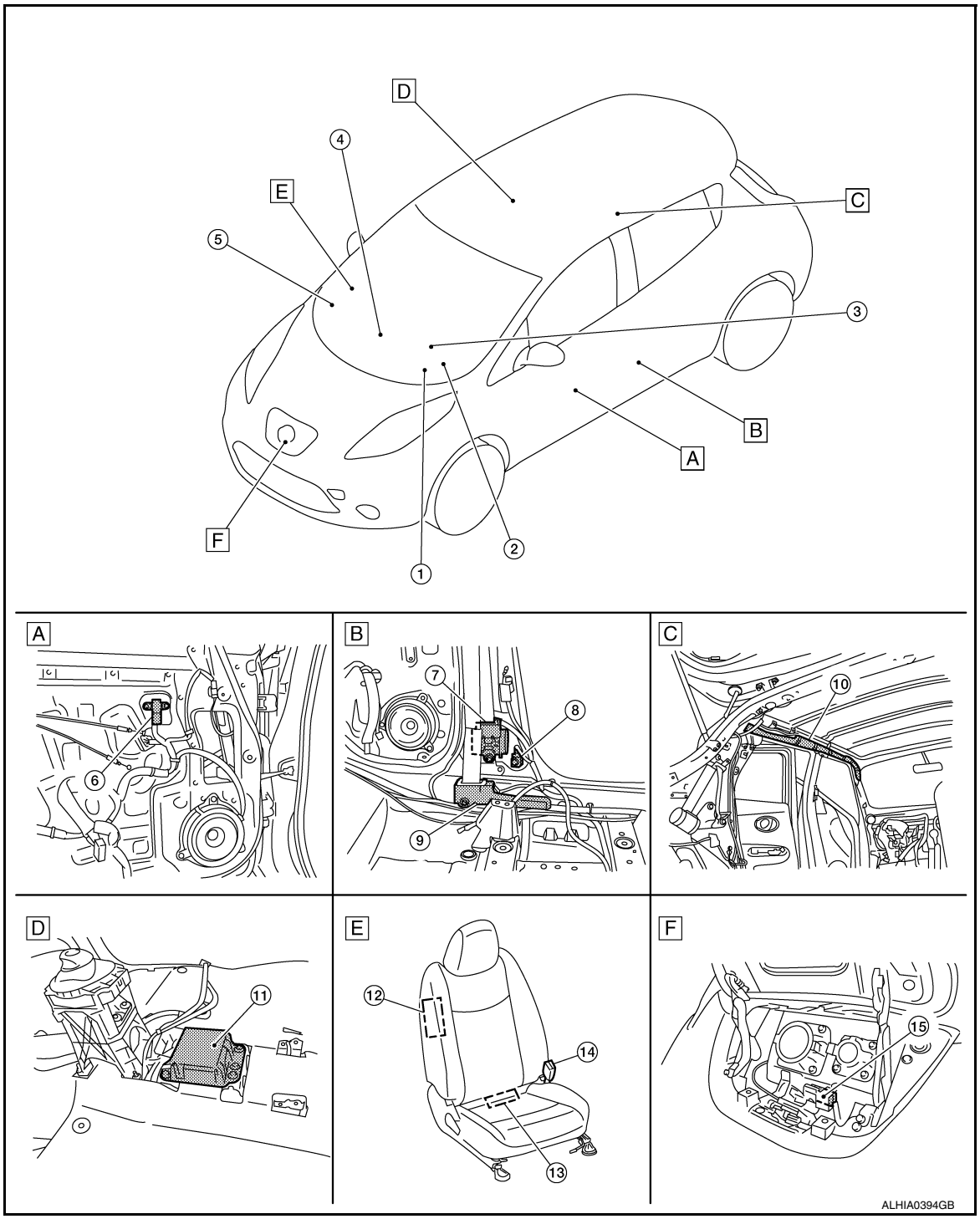

A. View with door finisher removed
B. Behind center pillar lower garnish
C. View with headlining assembly removed
D. View with center console assembly removed
E. Passenger seat
F. View with charge port lid open

No.	Component	Function
1.	Combination meter (air bag, belt warning lamp)	Refer to SR-12, "MAIN COMPONENT PARTS AND FUNCTIONS : Air bag warning lamp".
2.	Combination switch (spiral cable)	Refer to SR-11, "MAIN COMPONENT PARTS AND FUNCTIONS : Spiral cable".
3.	Driver air bag module	Refer to SR-7, "AIR BAG MODULE : Driver air bag module".
4.	Front passenger air bag OFF indicator	Turns the front passenger air bag OFF indicator lamp ON when the front passenger seat is occupied by a child or a child-seat
5.	Passenger air bag module	Refer to SR-7, "AIR BAG MODULE : Passenger air bag module".
6.	Front door satellite sensor LH	Refer to SR-11, "MAIN COMPONENT PARTS AND FUNCTIONS : Satellite sensor".
7.	Front LH seat belt pre-tensioner	Refer to SB-9, "Seat belt pre-tensioner with Load limiter".
8.	LH side air bag (satellite sensor)	Refer to SR-11, "MAIN COMPONENT PARTS AND FUNCTIONS : Satellite sensor".
9.	Lap seat belt pre-tensioner (driver side)	Refer to SB-10, "Double pre-tensioner seat belt".
10.	LH side front curtain air bag module	Refer to SR-8, "AIR BAG MODULE : Curtain air bag module".
11.	Air bag diagnosis sensor unit	Refer to SR-12, "MAIN COMPONENT PARTS AND FUNCTIONS : Air bag diagnosis sensor unit".
12.	RH side front curtain air bag module	Refer to SR-10, "INFLATOR : Side air bag inflator".
13.	Occupant classification system control unit	Transmits the passenger seat status (occupied or empty) to air bag diagnosis sensor unit. It is installed in the passenger seat cushion. Refer to SE-11, "HEATED SEAT SYSTEM : Component Parts Location" for detailed installation location.
14.	Seat belt buckle switch (passenger side)	Controls deployment timing depending on the seat belt condition that is fastened or unfastened. It is installed in the seat belt buckle. Refer to SB-11, "Exploded View" for detailed installation location.
15.	Crash zone sensor	Refer to SR-11, "MAIN COMPONENT PARTS AND FUNCTIONS : Crash zone sensor".

SYSTEM

System Description

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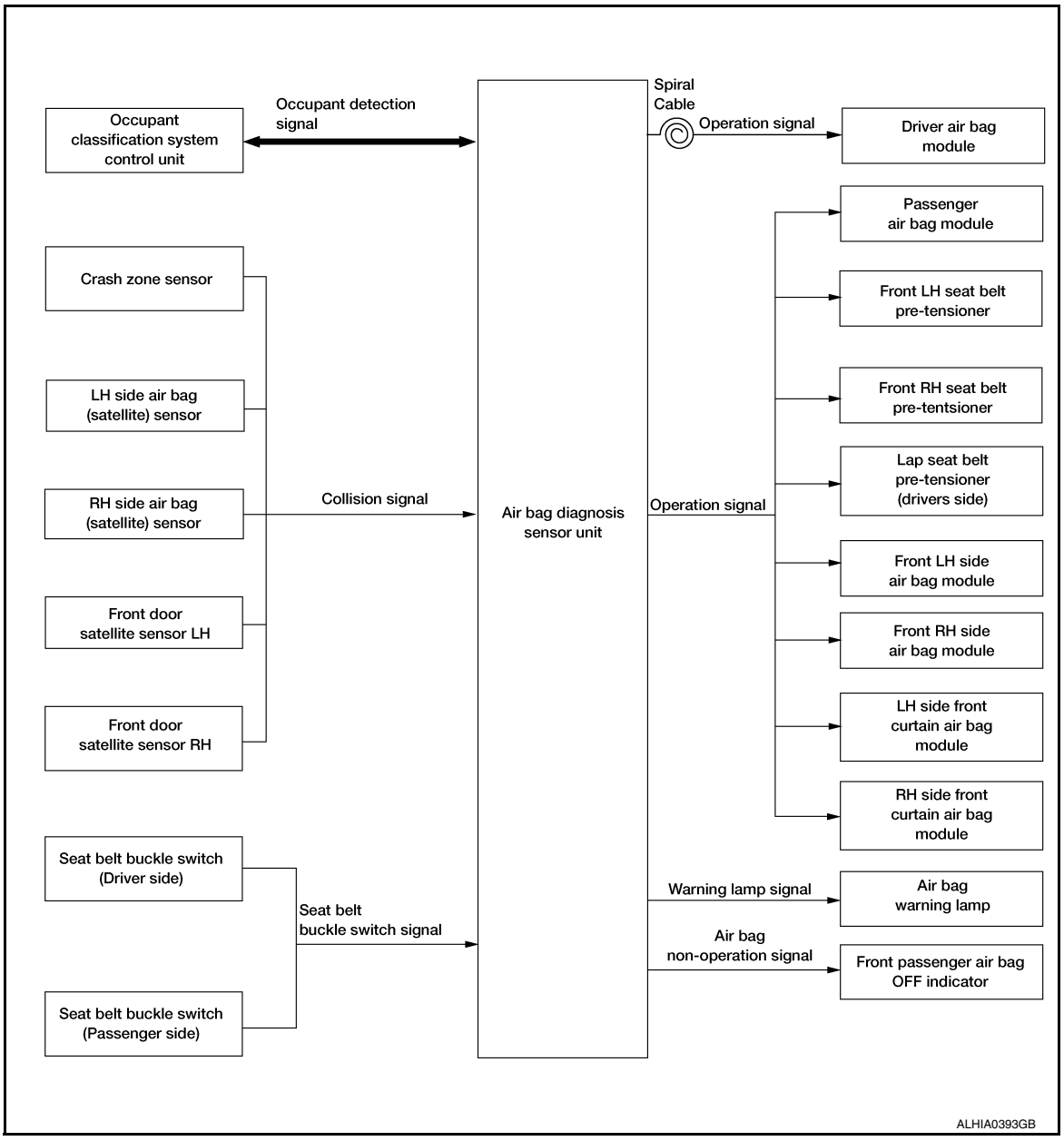
SYSTEM DIAGRAM



DESCRIPTION

Supplemental Restraint System (SRS) activates the 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 electrical malfunction in air bag system and seat belt pre-tensioner system, and blinking air bag warning lamp.
- Detects and records the deployment of air bag and seat belt pre-tensioner and turns ON the 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

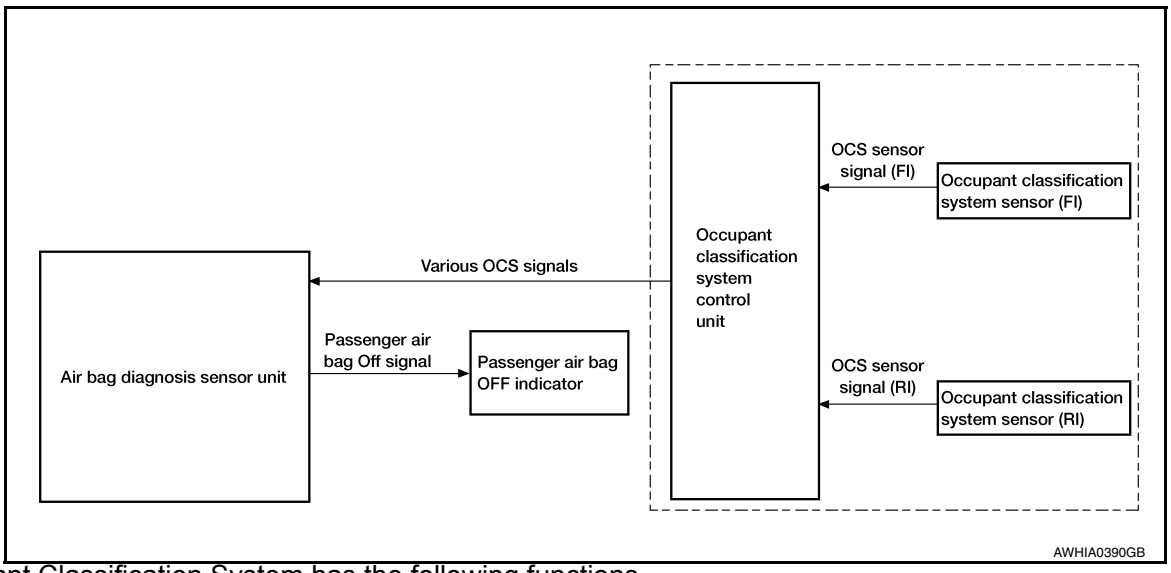
The operation of SRS is different depending on the collision modes applications. For example, the driver air bag module, passenger air bag module, and seat belt pre-tensioner are activated in a frontal collision or side collision.

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	×	—	×
Lap pre-tensioner LH	×	×	—
Side air bag module LH	—	×	—
Side air bag module RH	—	—	×
Curtain air bag module LH	—	×	—
Curtain air bag module RH	—	—	×

OCCUPANT CLASSIFICATION SYSTEM



Occupant Classification System has the following functions.

1. Suppresses the deployment of passenger air bag when passenger seat is empty, or when occupied by child and child-seat.
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.

NOTE:

- Operation of air bag diagnosis sensor unit when air bag diagnosis sensor unit receives information from Occupant Classification 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

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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

- Diagnosis mode changes from user mode to 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, when repair is complete and system is normal, the mode changes to user mode when ignition switch is turned from OFF to ON.

Procedure to Change Diagnosis Mode

1. Turn ignition switch from OFF to ON.
2. SRS air bag lamp turns ON for 7 second and turns OFF, then turn ignition switch OFF within 1second 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 3times in total.
5. Turn ignition switch from OFF to ON. Diagnosis mode changes.

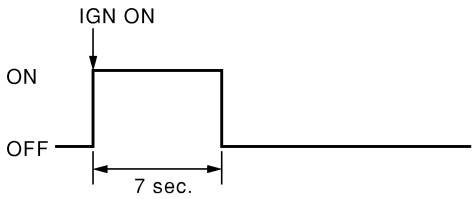
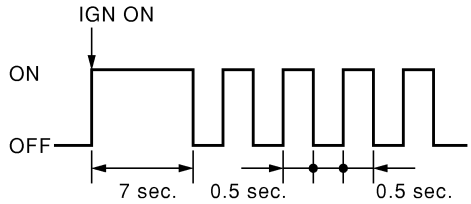
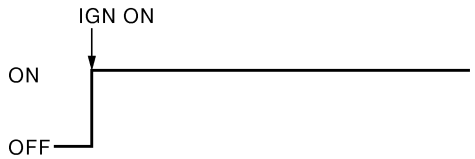
USER MODE

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	• The system is malfunctioning. • Self diagnostic result is not erased after repair.	Erase “Self Diagnostic Result” Refer to SRC-13, "CONSULT Function", How to Erase Self-diagnostic Result.
	Battery voltage is low (less than 9 V) or high battery voltage (more than 16V).	Check “CAUSE OF WARNING” in “Special Function” with CONSULT Refer to SRC-13, "CONSULT Function".
	Occupant detection function is disabled.	Refer to SRC-15, "CONSULT Function".
	Zero point reset is incomplete.	Refer to SRC-38, "ZERO POINT RESET : Special Repair Requirement".
	Intermittent malfunction is detected in the past.	Go to GI-53, "Intermittent Incident".
 SHIA0013E	• Air bag is deployed. • Seat belt pre-tensioner is deployed.	Go to SR-13, "For Frontal Collision" or SR-15, "For Side and Rollover Collision".
	• Air bag diagnosis sensor unit is malfunctioning. • Air bag power supply circuit is malfunctioning. • Air bag warning lamp circuit is malfunctioning.	Go to SRC-86, "Diagnosis Procedure".
 SHIA0014E	• Air bag diagnosis sensor unit is malfunctioning. • Air bag warning lamp circuit is malfunctioning.	Go to SRC-87, "Diagnosis Procedure".

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 blink 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
5	Lap pre-tensioner LH

Side air bag system

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

Air bag control unit system

Number of 0.5 second blinks	Malfunctioning items
1	Collision detection
2	Air bag diagnosis sensor unit
3	Front passenger air bag indicator
5	Air bag cut OFF switch

Sensor system

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

How to Erase Self-diagnostic Result

After a malfunction is repaired, turn the ignition switch OFF for one second or more, then turn ignition switch ON. The diagnosis mode returns to the user mode. At that time the self-diagnostic result is cleared.

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	The current self diagnosis results (also indicated with the number of air bag warning lamp blinks in the diagnosis mode) are displayed on CONSULT screen in real time. This refers to a malfunctioning part requiring repairs. Refer to SRC-16, "DTC Index".
TROUBLE DIAG RECORD	With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed on CONSULT screen.

Diagnosis mode	Description
SELF-DIAG RESULT [CAN]	This item is displayed, but cannot be supported.
Cause of Warning Lamp	It displays the cause of warning lamp illumination that is not recorded in memory.

CAUSE OF WARNING LAMP

The SRS air bag warning lamp blinks when the ignition voltage is a voltage value (9V or less, or 16 V or more) at which the SRS air bag cannot operate normally. After blinking, if the ignition voltage returns to normal, SRS air bag warning lamp turns OFF.DTC memory is not performed while the abnormal ignition voltage is detected. The mode cannot be switched to trouble diagnosis mode when the ignition switch is operated.“No DTC” is displayed when checking “Self-diagnosis result” using CONSULT.

NOTE:

- SRS air bag warning may blink when the condition is out of detection area* of the satellite sensor in door. The system is normal if SRS air bag warning lamp turns OFF after the condition returns within detection area of the satellite sensor in door.
- SRS air bag warning lamp blinks when the zero point reset is incomplete after replacing the occupant detection system control unit. (SRS air bag warning lamp turns OFF after the zero point reset is complete.)
- *: Pressure inside of door is excessively low and air bag system cannot be operated normally (example: altitude is approximately 4,000 m or more).

Display item	Display content	Actions by worker
IGN VOLT COND	The ignition voltage recognized by air bag system (air bag control unit and occupant detection system control unit) is displayed or a message stating that condition is out of detection range of satellite sensor in door is displayed. • OK: Normal • LOW: The ignition voltage is low, high, or out of detection range of satellite sensor in door	Perform the check at an altitude of 4,000 m or less. • Check battery voltage if the ignition voltage status is displayed as “LOW”. • Check battery voltage if the ignition voltage status is“OK” and the number of times detected is 1 or more. This is because an ignition voltage error may be detected in the past. **NOTE:** If battery voltage is normal, the cause may be that out of detection range of satellite sensor in door is detected.
IGN VOLT TIME	Total number of times is displayed, summing up the number of times ignition voltage error is detected and the number of times that out of detection range of satellite sensor in door is detected. (Detection record is erased and counter returns to “0” by “ERASE MEMORY” in “Self-diagnosis results” using CONSULT.)	
LOW V RECORED	Number of times ignition switch ON is displayed after ignition voltage error or out of detection range of satellite sensor in door is detected. (Detection record is erased and counter returns to “0” by “ERASE MEMORY” in “Self-diagnosis results” using CONSULT.)	

DIAGNOSIS SYSTEM (OCCUPANT DETECTION SYSTEM)

CONSULT Function

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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 reset” 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-38, "ZERO POINT RESET : Special Repair Requirement".

ECU DIAGNOSIS INFORMATION

DIAGNOSIS SENSOR UNIT

DTC Index

INFOID:0000000010641154

DIAGNOSTIC CODE CHART

NOTE:

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

CONSULT name	DTC	DTC detecting condition	Repair order
DRIVER AIRBAG MODULE CIRCUIT [OPEN]	B0001	Driver air bag module circuit (DR1) is open (including the spiral cable).	Refer to SRC-41, "Diagnosis Procedure".
DRIVER AIRBAG MODULE CIRCUIT [VB-SHORT]		Driver air bag module circuit (DR1) is shorted to a power supply circuit (including the spiral cable).	
DRIVER AIRBAG MODULE CIRCUIT [GND-SHORT]		Driver air bag module circuit (DR1) is shorted to ground (including the spiral cable).	
DRIVER AIRBAG MODULE CIRCUIT [SHORT]		Driver air bag module circuits (DR1) are shorted to each other (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [OPEN]	B0002	Driver air bag module circuit (DR2) is open (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [VB-SHORT]		Driver air bag module circuit (DR2) is shorted to a power supply circuit (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [GND-SHORT]		Driver air bag module circuit (DR2) is shorted to ground (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [SHORT]		Driver air bag module circuits (DR2) are shorted to each other (including the spiral cable).	
ASSIST AIRBAG MODULE CIRCUIT [OPEN]	B0010	Front passenger air bag module circuit (AS1) is open.	Refer to SRC-43, "Diagnosis Procedure".
ASSIST AIRBAG MODULE CIRCUIT [VB-SHORT]		Front passenger air bag module circuit (AS1) is shorted to a power supply circuit.	
ASSIST AIRBAG MODULE CIRCUIT [GND-SHORT]		Front passenger air bag module circuit (AS1) is shorted to ground.	
ASSIST AIRBAG MODULE CIRCUIT [SHORT]		Front passenger air bag module circuits (AS1) are shorted to each other.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [OPEN]	B0011	Front passenger air bag module circuit (AS2) is open.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [VB-SHORT]		Front passenger air bag module circuit (AS2) is shorted to a power supply circuit.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [GND-SHORT]		Front passenger air bag module circuit (AS2) is shorted to ground.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [SHORT]		Front passenger air bag module circuits (AS2) are shorted to each other.	

CONSULT name	DTC	DTC detecting condition	Repair order
SIDE AIRBAG MODULE LH CIRCUIT [OPEN]	B0020	Front LH side air bag module circuit is open.	Refer to SRC-45, "Diagnosis Procedure".
SIDE AIRBAG MODULE LH CIRCUIT [VB-SHORT]		Front LH side air bag module circuit is shorted to a power supply circuit.	
SIDE AIRBAG MODULE LH CIRCUIT [GND-SHORT]		Front LH side air bag module circuit is shorted to ground.	
SIDE AIRBAG MODULE LH CIRCUIT [SHORT]		Front LH side air bag module circuits are shorted to each other.	
SIDE AIRBAG MODULE RH CIRCUIT [OPEN]	B0028	Front RH side air bag module circuit is open.	Refer to SRC-47, "Diagnosis Procedure".
SIDE AIRBAG MODULE RH CIRCUIT [VB-SHORT]		Front RH side air bag module circuit is shorted to a power supply circuit.	
SIDE AIRBAG MODULE RH CIRCUIT [GND-SHORT]		Front RH side air bag module circuit is shorted to ground.	
SIDE AIRBAG MODULE RH CIRCUIT [SHORT]		Front RH side air bag module circuits are shorted to each other.	
CURTAIN AIRBAG MODULE LH CIRCUIT [OPEN]	B0021	LH side curtain air bag module circuit is open.	Refer to SRC-49, "Diagnosis Procedure".
CURTAIN AIRBAG MODULE LH CIRCUIT [VB-SHORT]		LH side curtain air bag module circuit is shorted to a power supply circuit.	
CURTAIN AIRBAG MODULE LH CIRCUIT [GND-SHORT]		LH side curtain air bag module circuit is shorted to ground.	
CURTAIN AIRBAG MODULE LH CIRCUIT [SHORT]		LH side curtain air bag module circuits are shorted to each other.	
CURTAIN AIRBAG MODULE RH CIRCUIT [OPEN]	B0029	RH side curtain air bag module circuit is open.	Refer to SRC-51, "Diagnosis Procedure".
CURTAIN AIRBAG MODULE RH CIRCUIT [VB-SHORT]		RH side curtain air bag module circuit is shorted to a power supply circuit.	
CURTAIN AIRBAG MODULE RH CIRCUIT [GND-SHORT]		RH side curtain air bag module circuit is shorted to ground.	
CURTAIN AIRBAG MODULE RH CIRCUIT [SHORT]		RH side curtain air bag module circuits are shorted to each other.	
FRONT PRE-TEN LH CIRCUIT [OPEN]	B1430	Front LH seat belt pre-tensioner circuit is open.	Refer to SRC-53, "Diagnosis Procedure".
FRONT PRE-TEN LH CIRCUIT [VB-SHORT]		Front LH seat belt pre-tensioner circuit is shorted to a power supply circuit.	
FRONT PRE-TEN LH CIRCUIT [GND-SHORT]		Front LH seat belt pre-tensioner circuit is shorted to ground.	
FRONT PRE-TEN LH CIRCUIT [SHORT]		Front LH seat belt pre-tensioner circuits are shorted to each other.	
FRONT PRE-TEN RH CIRCUIT [OPEN]	B1431	Front RH seat belt pre-tensioner circuit is open.	Refer to SRC-55, "Diagnosis Procedure".
FRONT PRE-TEN RH CIRCUIT [VB-SHORT]		Front RH seat belt pre-tensioner circuit is shorted to a power supply circuit.	
FRONT PRE-TEN RH CIRCUIT [GND-SHORT]		Front RH seat belt pre-tensioner circuit is shorted to ground.	
FRONT PRE-TEN RH CIRCUIT [SHORT]		Front RH seat belt pre-tensioner circuits are shorted to each other.	

CONSULT name	DTC	DTC detecting condition	Repair order
SEAT BELT BUCKLE SW LH CIRCUIT [OPEN]	B1428	Seat belt buckle switch (driver side) circuit is open.	Refer to SRC-57, "Diagnosis Procedure".
SEAT BELT BUCKLE SW LH CIRCUIT [VB-SHORT]		Seat belt buckle switch (driver side) circuit is shorted to a power supply circuit.	
SEAT BELT BUCKLE SW LH CIRCUIT [GND-SHORT]		Seat belt buckle switch (driver side) circuit is shorted to ground.	
SEAT BELT BUCKLE SW LH CIRCUIT [UNDEFINED]		Seat belt buckle switch (driver side) circuit malfunction.	
SEAT BELT BUCKLE SW RH CIRCUIT [OPEN]	B1429	Seat belt buckle switch (passenger side) circuit is open.	Refer to SRC-60, "Diagnosis Procedure".
SEAT BELT BUCKLE SW RH CIRCUIT [VB-SHORT]		Seat belt buckle switch (passenger side) circuit is shorted to a power supply circuit.	
SEAT BELT BUCKLE SW RH CIRCUIT [GND-SHORT]		Seat belt buckle switch (passenger side) circuit is shorted to ground.	
SEAT BELT BUCKLE SW RH CIRCUIT [UNDEFINED]		Seat belt buckle switch (passenger side) circuit malfunction.	
CRASH ZONE SENSOR [SENSOR FAIL]	B0094	Crash zone sensor has malfunctioned.	Refer to SRC-62, "Diagnosis Procedure".
CRASH ZONE SENSOR [COMM FAIL]		Crash zone sensor communication error.	
CRASH ZONE SENSOR [DISCONNECT]		Crash zone sensor is disconnected.	
CRASH ZONE SENSOR [UNMATCH]		Crash zone sensor is out of specification.	
CRASH ZONE SENSOR [GND-SHORT]		Crash zone sensor circuit is shorted to ground.	
DOOR SATELLITE SENSOR LH [SENSOR FAIL]	B0093	Front door satellite sensor LH has malfunctioned.	Refer to SRC-64, "Diagnosis Procedure".
DOOR SATELLITE SENSOR LH [COMM FAIL]		Front door satellite sensor LH communication error.	
DOOR SATELLITE SENSOR LH [DISCONNECT]		Front door satellite sensor LH is disconnected.	
DOOR SATELLITE SENSOR LH [UNMATCH]		Front door satellite sensor LH is out of specification.	
DOOR SATELLITE SENSOR LH [GND-SHORT]		Front door satellite sensor LH circuit is shorted to ground.	
DOOR SATELLITE SENSOR RH [SENSOR FAIL]	B0098	Front door satellite sensor RH has malfunctioned.	Refer to SRC-66, "Diagnosis Procedure".
DOOR SATELLITE SENSOR RH [COMM FAIL]		Front door satellite sensor RH communication error.	
DOOR SATELLITE SENSOR RH [DISCONNECT]		Front door satellite sensor RH is disconnected.	
DOOR SATELLITE SENSOR RH [UNMATCH]		Front door satellite sensor RH is out of specification.	
DOOR SATELLITE SENSOR RH [GND-SHORT]		Front door satellite sensor RH circuit is shorted to ground.	

CONSULT name	DTC	DTC detecting condition	Repair order
B-PILLAR SATELLITE SENSOR LH [SENSOR FAIL]	B0091	Front side air bag satellite sensor LH has malfunctioned.	Refer to SRC-69, "Diagnosis Procedure".
B-PILLAR SATELLITE SENSOR LH [COMM FAIL]		Front side air bag satellite sensor LH communication error.	
B-PILLAR SATELLITE SENSOR LH [DISCONNECT]		Front side air bag satellite sensor LH is disconnected.	
B-PILLAR SATELLITE SENSOR LH [UNMATCH]		Front side air bag satellite sensor LH is out of specification.	
B-PILLAR SATELLITE SENSOR LH [GND-SHORT]		Front side air bag satellite sensor LH circuit is shorted to ground.	
B-PILLAR SATELLITE SENSOR RH [SENSOR FAIL]	B0096	Front side air bag satellite sensor RH has malfunctioned.	Refer to SRC-72, "Diagnosis Procedure".
B-PILLAR SATELLITE SENSOR RH [COMM FAIL]		Front side air bag satellite sensor RH communication error.	
B-PILLAR SATELLITE SENSOR RH [DISCONNECT]		Front side air bag satellite sensor RH is disconnected.	
B-PILLAR SATELLITE SENSOR RH [UNMATCH]		Front side air bag satellite sensor RH is out of specification.	
B-PILLAR SATELLITE SENSOR RH [GND-SHORT]		Front side air bag satellite sensor RH circuit is shorted to ground.	
OCCUPANT DETECTION SENSOR UNIT [UNIT FAIL]	B00A0	The OCS control unit is malfunctioning.	Refer to SRC-75, "Diagnosis Procedure".
OCCUPANT DETECTION SENSOR UNIT [NO DATA]			
OCCUPANT DETECTION SENSOR UNIT [UNDEFINED]			
OCCUPANT DETECTION SENSOR UNIT [RESET FAIL]			
OCCUPANT DETECTION SENSOR UNIT [COMM FAIL]		Communication between the OCS control unit and the air bag diagnosis sensor unit is interrupted.	
OCCUPANT DETECTION SENSOR [UNIT FAIL]		The OCS sensor is malfunctioning.	
OCCUPANT DETECTION SENSOR [POWER FAIL]		The OCS sensor circuit is malfunctioning.	
CONTROL UNIT [UNIT FAIL]	B14XX	Air bag diagnosis sensor unit is malfunctioning.	Refer to SRC-77, "Diagnosis Procedure".
PASSENGER AIRBAG INDICATOR CIRCUIT [FAIL]	B00D5	Front passenger air bag OFF indicator is malfunctioning.	Refer to SRC-79, "Diagnosis Procedure".
PASSENGER AIRBAG INDICATOR CIRCUIT [OPEN]		Front passenger air bag OFF indicator circuit is open.	
PASSENGER AIRBAG INDICATOR CIRCUIT [VB-SHORT]		Front passenger air bag OFF indicator is shorted to a power supply circuit.	
PASSENGER AIRBAG INDICATOR CIRCUIT [GND-SHORT]		Front passenger air bag OFF indicator is shorted to ground.	
IGN VOLTAGE [LOW]	B142A	Ignition voltage to the air bag diagnosis sensor unit is low.	Refer to SRC-81, "Diagnosis Procedure".
IGN VOLTAGE [HIGH]		Ignition voltage to the air bag diagnosis sensor unit is high.	
CAN COMMUNICATION FAILURE	U1000	CAN system communication faiilure.	Refer to SRC-83, "Diagnosis Procedure".
CAN COMMUNICATION FAILURE [CONTROL UNIT]	U1010	CAN system (control unit) faiilure.	Refer to SRC-84, "Diagnosis Procedure".

CONSULT name	DTC	DTC detecting condition	Repair order
FRONTAL COLLISION DETECTION	B1421	Frontal collision detected. Driver and/or front passenger air bag modules are deployed.	Refer to SR-13, "For Frontal Collision".
SIDE COLLISION DETECTION	B1422	Side collision detected. Curtain air bag module and seat belt pre-tensioner are deployed.	Refer to SR-15, "For Side and Rollover Collision".

Flash Code Index

INFOID:0000000010641155

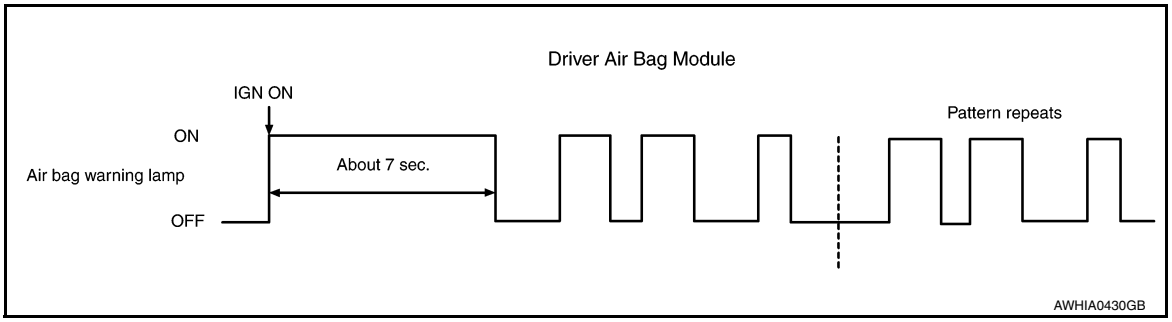
WARNING LAMP FLASH CODE CHART

How to read flash codes

1. Put the vehicle in Diagnosis Mode. Refer to SRC-11, "On Board Diagnosis Function".
2. All codes are proceded by a seven second "holding" flash.
3. Identify how many primary flashes are displayed as well as the length of each primary flash.
4. Refer to the tables and examples below to determine which SRS subsystem the code belongs to.
5. Count the short secondary flashes that follow the primary flashes.
6. Match the correct flashing pattern to the malfunctioning component and perform the Diagnosis Procedure.

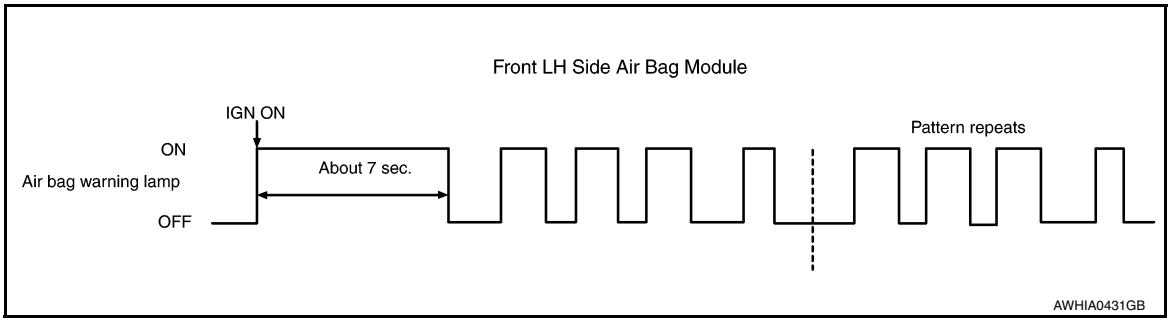
Refer to the illustrations below for an example of each flashing pattern.

Front subsystem



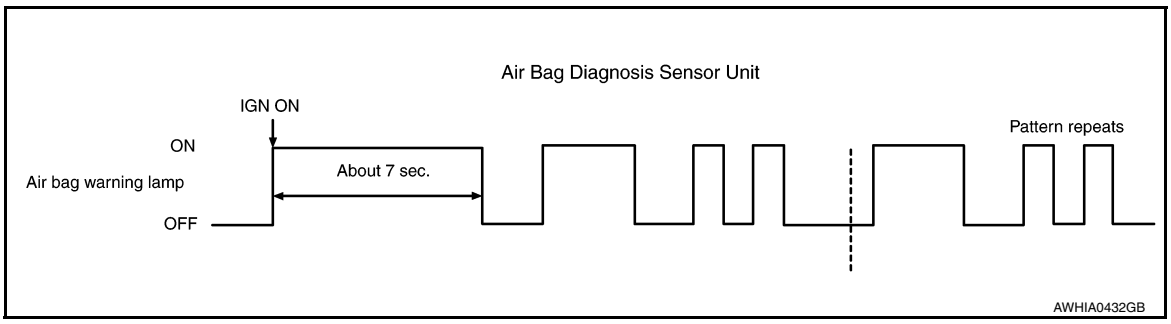
Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	1.5	1	Driver air bag module	SRC-41, "Diagnosis Procedure"
		2	Passenger air bag module	SRC-43, "Diagnosis Procedure"
		3	Front LH seat belt pre-tensioner	SRC-53, "Diagnosis Procedure"
		4	Front RH seat belt pre-tensioner	SRC-55, "Diagnosis Procedure"

Side subsystem



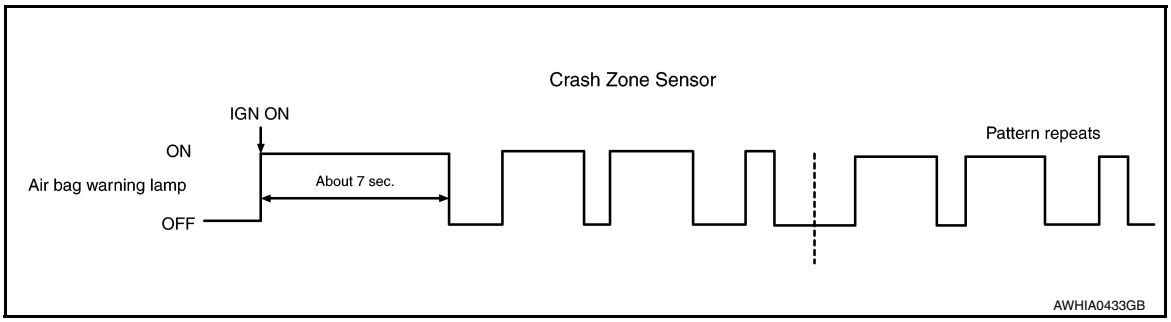
Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
3	1.5	1	Front LH side air bag module	SRC-45, "Diagnosis Procedure"
		2	Front RH side air bag module	SRC-47, "Diagnosis Procedure"
		3	LH side curtain air bag module	SRC-49, "Diagnosis Procedure"
		4	RH side curtain air bag module	SRC-51, "Diagnosis Procedure"

Air bag subsystem



Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
1	3	1	Collision detection	SRC-85, "Diagnosis Procedure"
		2	Air bag diagnosis sensor unit	SRC-77, "Diagnosis Procedure"
		3	Passenger air bag OFF indicator	SRC-79, "Diagnosis Procedure"
		4	Occupant classification system	SRC-75, "Diagnosis Procedure"

Sensor subsystem



Flashes (Primary)	Flash Length (seconds)	Flashes (Secondary)	Malfunctioning Component or Circuit	Reference
2	3	1	Crash zone sensor	SRC-62, "Diagnosis Procedure"
		2	Front side air bag satellite sensor LH	SRC-64, "Diagnosis Procedure"
		3	Front side air bag satellite sensor RH	SRC-66, "Diagnosis Procedure"
		4	Rear side satellite sensor LH	SRC-69, "Diagnosis Procedure"
		5	Rear side satellite sensor RH	SRC-72, "Diagnosis Procedure"
		6	Front door satellite sensor LH	SRC-64, "Diagnosis Procedure"
		7	Front door satellite sensor RH	SRC-66, "Diagnosis Procedure"
		8	Seat belt buckle switch LH	SRC-57, "Diagnosis Procedure"
		9	Seat belt buckle switch RH	SRC-60, "Diagnosis Procedure"

WIRING DIAGRAM

SRS AIR BAG SYSTEM

Wiring Diagram

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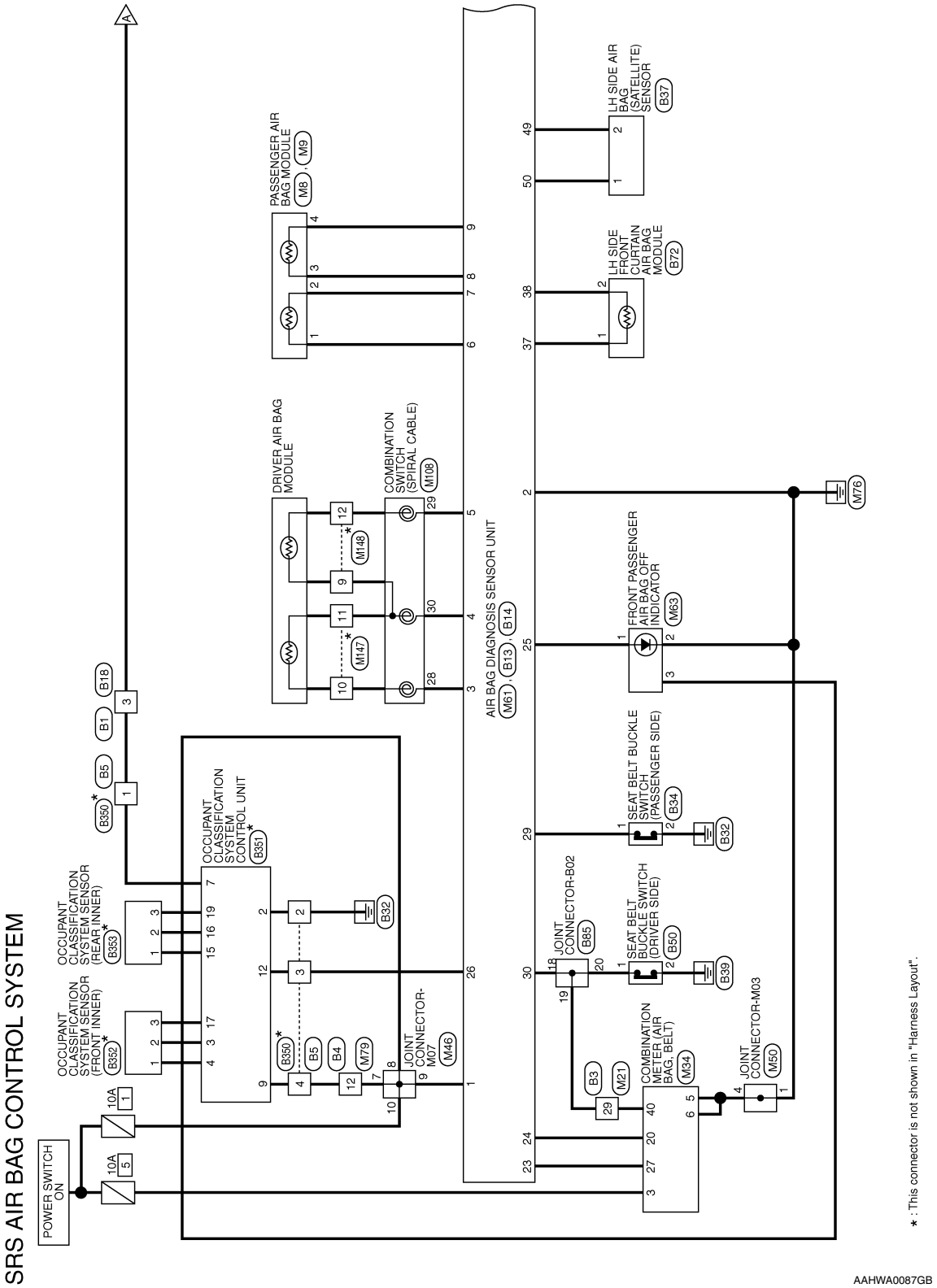

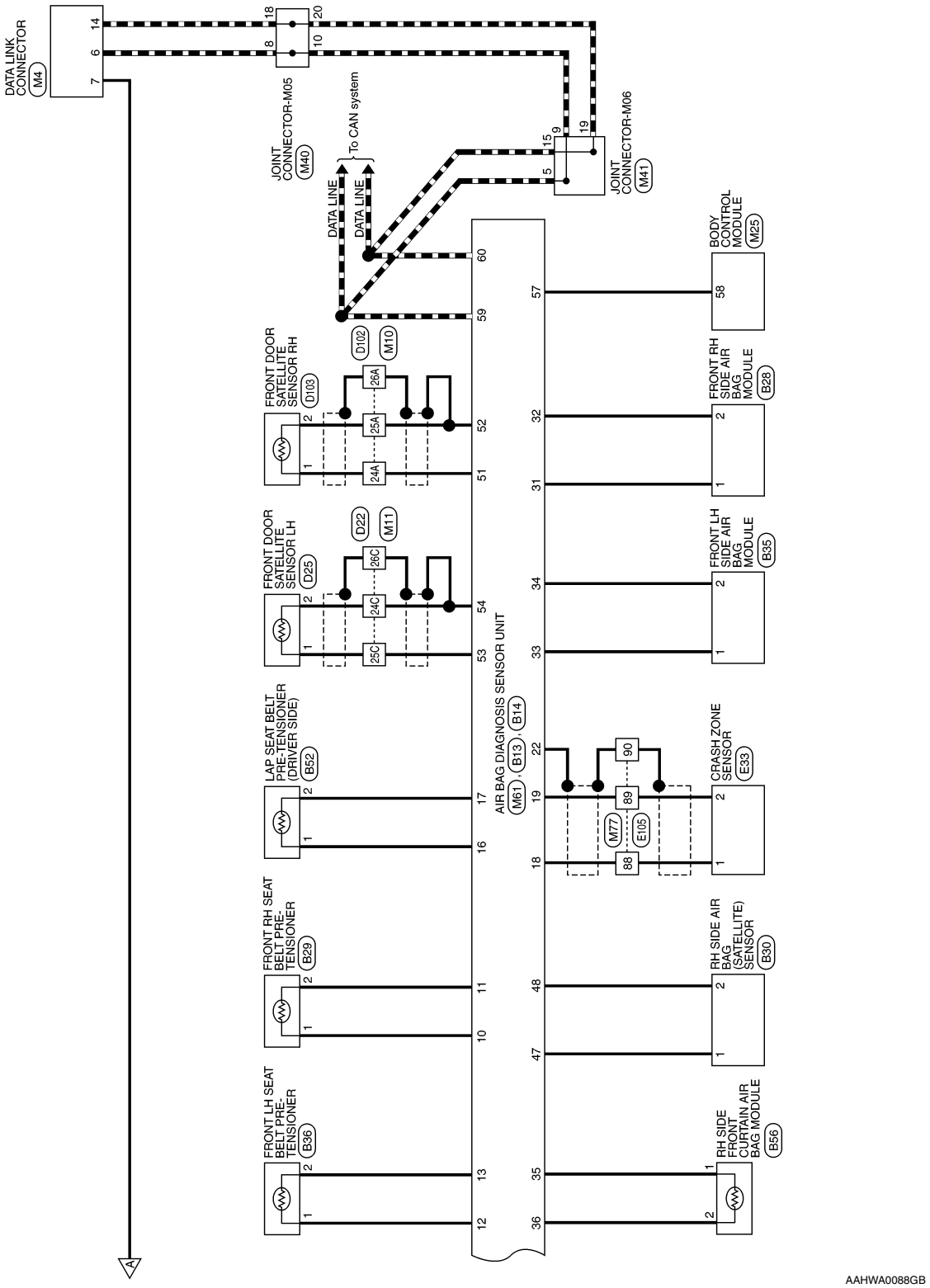

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SRS AIR BAG CONTROL SYSTEM - CONNECTORS

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Color	WHITE

H.S.

9	10	11	12	13	14	15	16
1	2	3	4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
6	L	–
7	GR	–
14	P	–

Connector No.	M8
Connector Name	FRONT PASSENGER AIR BAG MODULE
Connector Color	BLACK

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	Y	–

Connector No.	M9
Connector Name	FRONT PASSENGER AIR BAG MODULE
Connector Color	ORANGE

H.S.

2	1

Terminal No.	Color of Wire	Signal Name
3	Y	–
4	Y	–

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

H.S.

1A	2A	3A	4A	5A	6A	7A	8A	9A	10A	11A	12A	13A	14A	15A
16A 17A 18A 19A 20A 21A 22A 23A 24A 25A 26A								36A 37A 38A 39A 40A 41A 42A 43A 44A 45A 46A						
27A 28A 29A 30A 31A 32A 33A 34A 35A								47A 48A 49A 50A 51A 52A 53A 54A 55A						

Terminal No.	Color of Wire	Signal Name
24A	Y	–
25A	BR	–
26A	SHIELD	–

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1C	2C	3C	4C	5C	6C	7C	8C	9C	10C	11C	12C	13C	14C	15C
16C 17C 18C 19C 20C 21C 22C 23C 24C 25C 26C								36C 37C 38C 39C 40C 41C 42C 43C 44C 45C 46C						
27C 28C 29C 30C 31C 32C 33C 34C 35C								47C 48C 49C 50C 51C 52C 53C 54C 55C						

Terminal No.	Color of Wire	Signal Name
24C	R	–
25C	G	–
26C	SHIELD	–

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Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color of Wire	Signal Name
29	W	–

Connector No.	M25
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE

H.S.

56	57	58	59	60	61	62	63	64
65	66	67	68	69	70			

Terminal No.	Color of Wire	Signal Name
58	W	SHOCK DET SIG

Connector No.	M34
Connector Name	COMBINATION METER
Connector Color	WHITE

H.S.

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21

Terminal No.	Color of Wire	Signal Name
3	GR	IGN
5	B	GND1 (ILL)
6	B	GND2 (POWER)
20	LG	AS SEATBELT W/L
27	R	A/BAG WARN
40	W	BUCKLE SW FR DR

Connector No.	M40
Connector Name	JOINT CONNECTOR-M05
Connector Color	BLUE

H.S.

10	9	8	7	6	5	4	3	2	1
20	19	18	17	16	15	14	13	12	11

Terminal No.	Color of Wire	Signal Name
8	L	–
10	L	–
18	P	–
20	P	–

Connector No.	M41
Connector Name	JOINT CONNECTOR-M06
Connector Color	BLUE

H.S.

10	9	8	7	6	5	4	3	2	1
20	19	18	17	16	15	14	13	12	11

Terminal No.	Color of Wire	Signal Name
5	L	–
9	L	–
15	P	–
19	P	–

Connector No.	M46
Connector Name	JOINT CONNECTOR-M07
Connector Color	ORANGE

H.S.

10	9	8	7	6	5	4	3	2	1
20	19	18	17	16	15	14	13	12	11

Terminal No.	Color of Wire	Signal Name
7	BR	–
8	GR	–
9	BR	–
10	BR	–

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Connector No.	M50
Connector Name	JOINT CONNECTOR-M03
Connector Color	PINK

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	–
4	B	–

Connector No.	M61
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	BR	IGN
2	B	GND
3	Y	DR1 (+)
4	Y	DR1 (–),DR2 (–)
5	Y	DR2 (+)
6	Y	AS1 (+)
7	Y	AS1 (–)
8	Y	AS2 (+)
9	Y	AS2 (–)

Terminal No.	Color of Wire	Signal Name
18	R	ECZS 1 (+)
19	G	ECZS 1 (–)
22	SHIELD	GND
23	R	AIRBAG W/L
24	LG	SEATBELT REMINDER / TELLTALE LAMP–B
25	R	TELLTALE LAMP–A
51	Y	RH DOOR SATELITE SENSOR (+)
52	BR	RH DOOR SATELITE SENSOR (–)
53	G	LH DOOR SATELITE SENSOR (+)
54	R	LH DOOR SATELITE SENSOR (–)
57	W	DEPLOYMNET INFORMATIONOUTPUT
59	L	CAN–H
60	P	CAN–L

Connector No.	M63
Connector Name	FRONT PASSENGER AIR BAG OFF INDICATOR
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	R	–
2	B	–
3	GR	–

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Connector No.	M108
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
28	Y	–
29	Y	–
30	Y	–

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
12	BR	–

Connector No.	M148
Connector Name	DRIVER AIR BAG MODULE
Connector Color	ORANGE

H.S.

Terminal No.	Color of Wire	Signal Name
9	R	DR2 (-)
12	G	DR2 (+)

Connector No.	E33
Connector Name	CRASH ZONE SENSOR
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	–
2	W	–

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
88	R	–
89	G	–
90	SHIELD	–

Connector No.	M147
Connector Name	DRIVER AIR BAG MODULE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
10	Y	DR1 (+)
11	L	DR1 (-)

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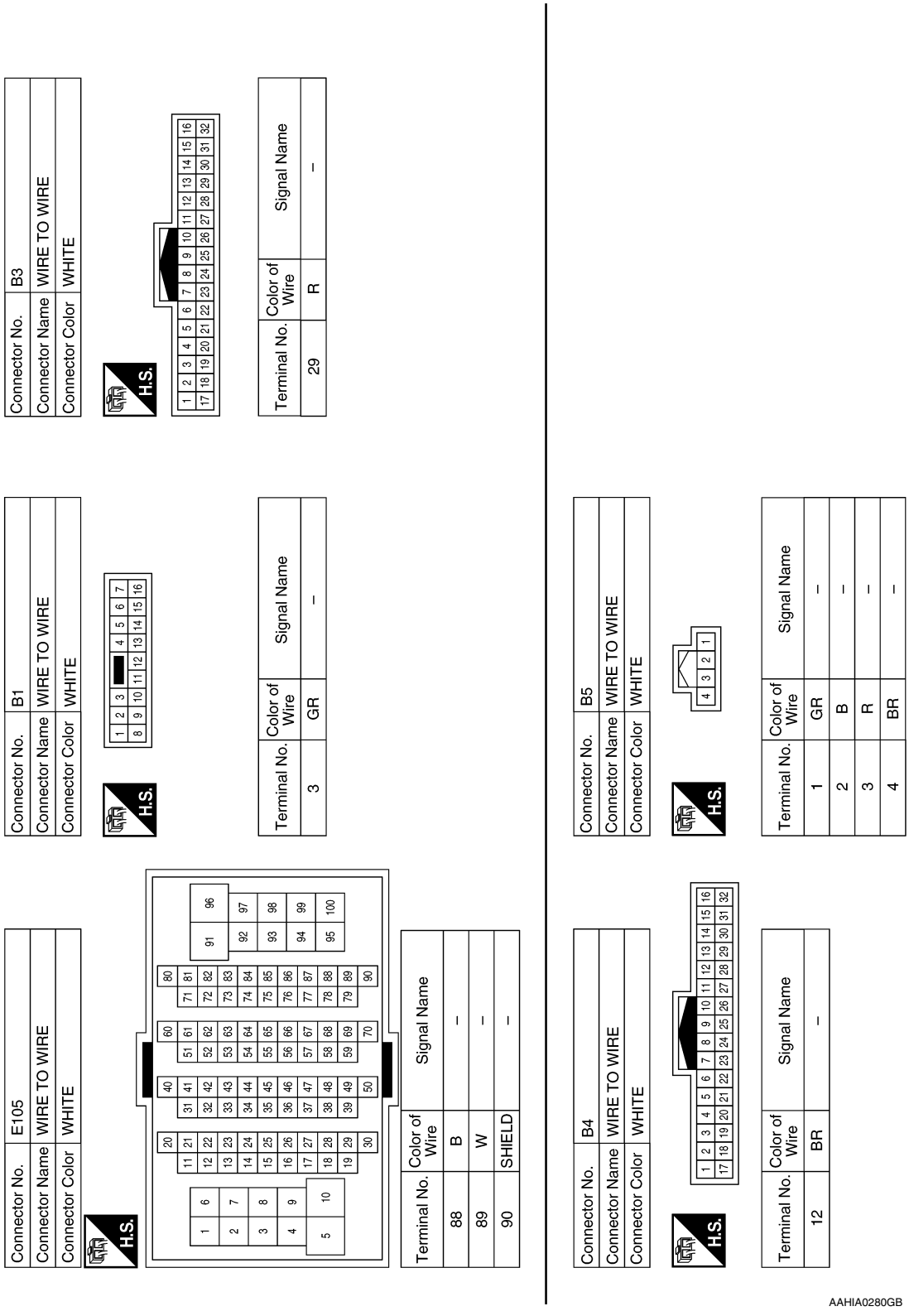

Connector No. B3
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
Terminal No. Color of Wire Signal Name
29 R –
Connector No. B1
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
1 2 3 4 5 6 7
8 9 10 11 12 13 14 15 16
Terminal No. Color of Wire Signal Name
3 GR –
Connector No. B5
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
4 3 2 1
Terminal No. Color of Wire Signal Name
1 GR –
2 B –
3 R –
4 BR –
Connector No. E105
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
1 6
2 7
3 8
4 9
5 10
20 11 21 12 22 13 23 14 24 15 25 16 26 17 27 18 28 19 29 30
40 31 41 32 42 33 43 34 44 35 45 36 46 37 47 38 48 39 49 50
60 51 61 52 62 53 63 54 64 55 65 56 66 57 67 58 68 59 69 70
80 71 81 72 82 73 83 74 84 75 85 76 86 77 87 78 88 79 89 90
91 96 92 97 93 98 94 99 95 100
Terminal No. Color of Wire Signal Name
88 B –
89 W –
90 SHIELD –
Connector No. B4
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
Terminal No. Color of Wire Signal Name
12 BR –
AAHIA0280GB

Connector No.	B13
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
10	Y	P-RH1 (+)
11	LG	P-RH1 (-)
26	R	ODS INPUT
29	LG	SEAT BELT BUCKLE SWITCH (+)
31	Y	S-RH (+)
32	Y/R	S-RH (-)
35	Y	C-RH (+), HD-RH1 (+)
36	LG	C-RH (-), HD-RH1 (-)
47	G	RH B-PILLAR SATELITE SENSOR (+)
48	R	RH B-PILLAR SATELITE SENSOR (-)

Connector No.	B14
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
12	P	P-LH1 (+)
13	V	P-LH1 (-)
16	Y	SQUIB1-LH (+)
17	Y	SQUIB1-LH (-)
30	LG	LH SEAT BELT BUCKLE SWITCH (+)
33	Y	S-LH (+)
34	L	S-LH (-)
37	G	C-LH (+), HD-LH1 (+)
38	R	C-LH (-), HD-LH1 (-)
49	V	LH B-PILLAR SATELITE SENSOR (+)
50	LG	LH B-PILLAR SATELITE SENSOR (-)

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
3	GR	–

Connector No.	B28
Connector Name	FRONT RH SIDE AIR BAG MODULE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	Y/R	–

Connector No.	B29
Connector Name	FRONT RH SEAT BELT PRE-TENSIONER
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	LG	–

Connector No.	B30
Connector Name	RH SIDE AIR BAG (SATELLITE) SENSOR
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	–
2	R	–

AAHIA0281GB

Connector No.	B34
Connector Name	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	–
2	B	–

Connector No.	B35
Connector Name	FRONT LH SIDE AIR BAG MODULE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	L	–

Connector No.	B36
Connector Name	FRONT LH SEAT BELT PRE-TENSIONER
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	–
2	V	–

Connector No.	B37
Connector Name	LH SIDE AIR BAG (SATELLITE) SENSOR
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	–
2	LG	–

Connector No.	B50
Connector Name	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	R	–
2	B	–

Connector No.	B52
Connector Name	LAP SEAT BELT PRE-TENSIONER (DRIVER SIDE)
Connector Color	ORANGE

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	Y	–

AAHIA0282GB

Connector No.	B56
Connector Name	RH SIDE FRONT CURTAIN AIR BAG MODULE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	LG	–

Connector No.	B72
Connector Name	LH SIDE FRONT CURTAIN AIR BAG MODULE
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	–
2	R	–

Connector No.	B85
Connector Name	JOINT CONNECTOR-B02
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
18	LG	–
19	R	–
20	R	–

Connector No.	B350
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	GR	–
2	B	–
3	R	–
4	BR	–

Connector No.	B351
Connector Name	OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT
Connector Color	BLACK

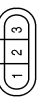
H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	B	GND
3	LG	LOAD SENSOR FRONT INNER SIGNAL
4	R/B	LOAD SENSOR FRONT INNER GND
5	–	–
6	–	–
7	GR	K-LINE
8	–	–
9	W	IGN
10	–	–
11	–	–
12	BR/W	ACU COMM
13	–	–
14	–	–
15	W/L	LOAD SENSOR REAR INNER GND
16	SB	LOAD SENSOR REAR INNER SIGNAL
17	R	LOAD SENSOR FRONT INNER VCC
18	–	–
19	Y	LOAD SENSOR REAR INNER VCC
20	–	–

AAHIA0283GB

Connector No.	B352
Connector Name	OCCUPANT CLASSIFICATION SYSTEM SENSOR (FRONT INNER)
Connector Color	BLACK

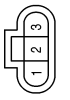
H.S.



Terminal No.	Color of Wire	Signal Name
1	R/B	–
2	LG	–
3	R	–

Connector No.	B353
Connector Name	OCCUPANT CLASSIFICATION SYSTEM SENSOR (REAR INNER)
Connector Color	BLACK

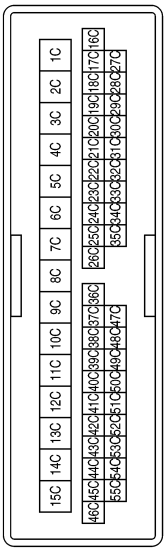
H.S.



Terminal No.	Color of Wire	Signal Name
1	W/L	–
2	SB	–
3	Y	–

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
24C	R	–
25C	G	–
26C	SHIELD	–

Connector No.	D25
Connector Name	FRONT DOOR SATELLITE SENSOR LH
Connector Color	YELLOW

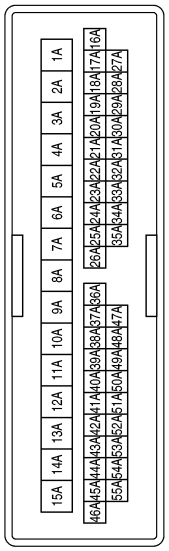
H.S.

Terminal No.	Color of Wire	Signal Name
1	G	–
2	R	–

AAHIA0284GB

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
24A	Y	–
25A	BR	–
26A	SHIELD	–

Connector No.	D103
Connector Name	FRONT DOOR SATELLITE SENSOR RH
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	BR	–

AAHIA0285GB

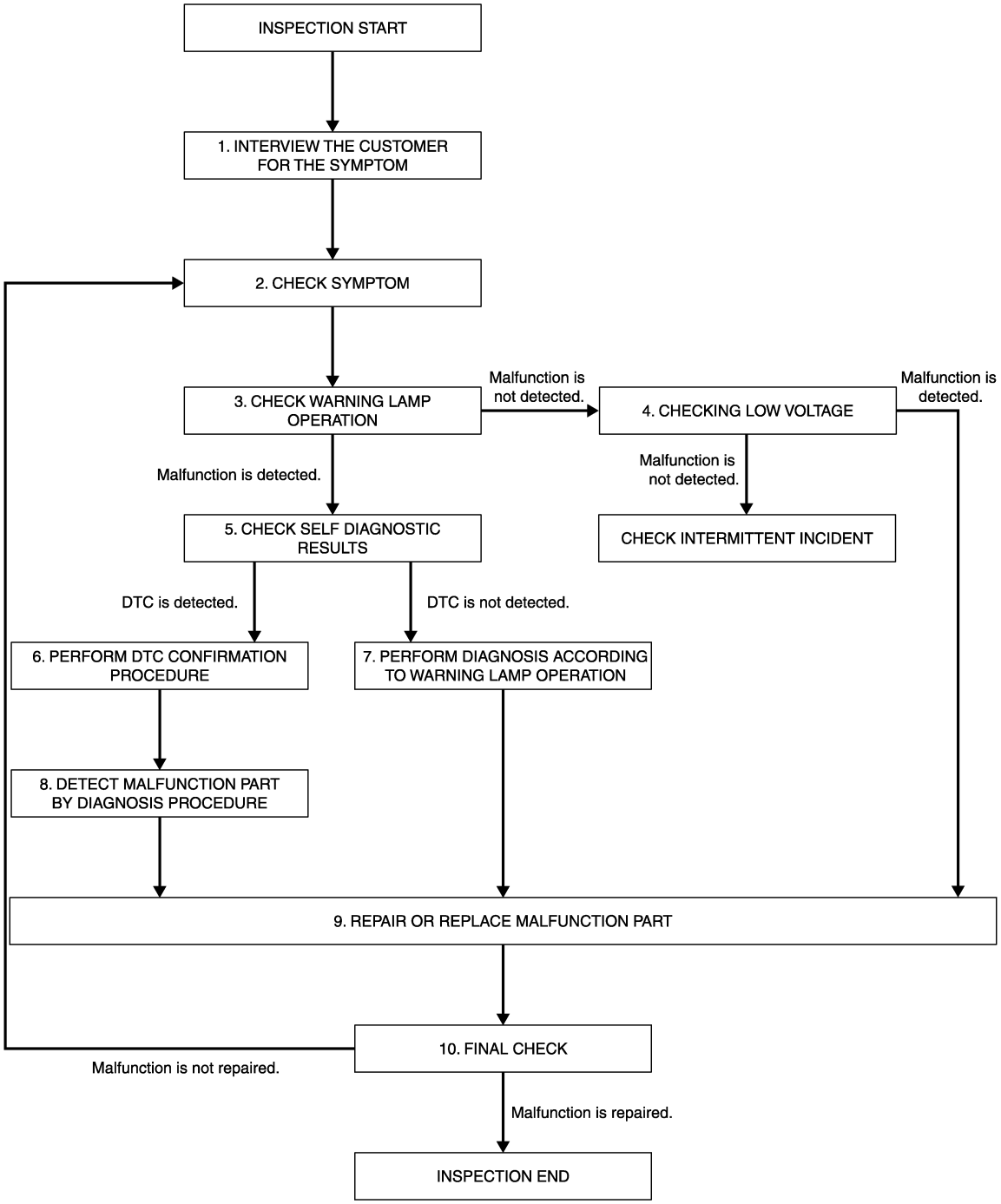
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000010641157

OVERALL SEQUENCE



JMHIA1324GB

DETAILED FLOW

1.INTERVIEW THE CUSTOMER FOR THE SYMPTOM

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

>> GO TO 2.

2.CHECK SYMPTOM

Check the symptom from the customer information.

>> GO TO 3.

3.CHECK WARNING LAMP OPERATION

Check air bag warning lamp operation in the user mode. Refer to SRC-11, "On Board Diagnosis Function".

Are any malfunction detected?

YES >> GO TO 5.
NO >> GO TO 4.

4.CHECK LOW VOLTAGE

Check low voltage with CONSULT. Refer to SRC-13, "CONSULT Function".

Are any malfunction detected?

YES >> GO TO 9.
NO >> Check intermittent incident. Refer to GI-53, "Intermittent Incident".

5.CHECK SELF DIAGNOSTIC RESULTS

Check “Self diagnostic result” with CONSULT or diagnosis mode.
If it is impossible to switch to diagnosis mode, follow the same procedure that DTC is not detected.

NOTE:
Perform the following procedure if DTC is detected.

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

Is DTC detected?

YES >> GO TO 6.
NO >> GO TO 7.

6.PERFORM DTC CONFIRMATION PROCEDURE

Perform “Self Diagnostic Result” for the DTC.

>> GO TO 8.

7.PERFORM DIAGNOSIS ACCORDING TO WARNING LAMP OPERATION

1. Check air bag warning lamp operation in the user mode. Refer to SRC-11, "On Board Diagnosis Function".
2. Perform Diagnosis Procedure for the air bag warning lamp operation. Refer to SRC-11, "On Board Diagnosis Function" (USER MODE).

>> GO TO 9.

8.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the DTC.

>> GO TO 9.

9.REPAIR OR REPLACE THE MALFUNCTION PART

Repair or replace the malfunctioning part.

>> GO TO 10.

10. FINAL CHECK

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

Is the malfunction repaired?

YES >> Inspection End.
NO >> GO TO 2.

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000010641158

WARNING:
Always perform zero point reset using CONSULT when removing and installing the front passenger seat or servicing the occupant classification system (OCS). If zero point reset is not performed, the OCS may not operate normally, which may increase the risk of serious injury in a collision.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:0000000010641159

WORK PROCEDURE WHEN REPLACING OCS CONTROL UNIT

1.PERFORM ZERO POINT RESET

Perform zero point reset. Refer to SRC-38, "ZERO POINT RESET : Special Repair Requirement".

>> Inspection End.

ZERO POINT RESET

ZERO POINT RESET : Description

INFOID:0000000010641160

Zero point reset is an initializing procedure for the OCS (weight) sensors that must be performed using CONSULT when removing and installing passenger seat or servicing the OCS system. If zero point reset is not performed, the initialization is incomplete and OCS may not operate normally.

NOTE:
- When reinstalling the passenger seat, the initial value for the OCS sensors may change, and the OCS may not operate normally.
- When zero point reset is performed after removal and installation of passenger seat, CONSULT displays “complete”.

ZERO POINT RESET : Special Repair Requirement

INFOID:0000000010641161

1.PERFORM ZERO POINT RESET

1. Perform preliminary checks:
   NOTE:
   - Level the vehicle
   - Minimize vibrations near the vehicle
   - Remove any objects on passenger seat
   - Do not touch the vehicle during zero point reset
2. Select START on “Zero point reset function” from, “Work support” of “OCCUPANT DETECTION”.
3. “Zero point reset” starts.

>> GO TO 2.

2.CONFIRM RESET

1. Check that “Complete” is displayed on “Zero point reset current status”.

CAUTION:
- **“Complete” may be displayed if the seat has been reinstalled, or “zero point reset” has already been performed.**
- **“Incomplete” may be displayed if a new seat is installed.**
- **Air bag warning lamp blinks in user mode if zero point reset is “incomplete”.**

Is zero point reset status “complete”?

YES >> Print out “Zero point reset current status” screen. Inspection end.
NO >> Recheck the preliminary check items and perform zero point reset again.

INTERMITTENT INCIDENT

Inspection Procedure

INFOID:0000000010641162

INTERMITTENT TROUBLE

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

DTC/CIRCUIT DIAGNOSIS

B0001, B0002 DRIVER AIRBAG MODULE

DTC Logic

INFOID:0000000010641163

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
DRIVER AIRBAG MODULE CIRCUIT [OPEN]	B0001	Driver air bag module circuit (DR1) is open (including the spiral cable).	Refer to SRC-41, "Diagnosis Procedure".
DRIVER AIRBAG MODULE CIRCUIT [VB-SHORT]		Driver air bag module circuit (DR1) is shorted to a power supply circuit (including the spiral cable).	
DRIVER AIRBAG MODULE CIRCUIT [GND-SHORT]		Driver air bag module circuit (DR1) is shorted to ground (including the spiral cable).	
DRIVER AIRBAG MODULE CIRCUIT [SHORT]		Driver air bag module circuits (DR1) are shorted to each other (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [OPEN]	B0002	Driver air bag module circuit (DR2) is open (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [VB-SHORT]		Driver air bag module circuit (DR2) is shorted to a power supply circuit (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [GND-SHORT]		Driver air bag module circuit (DR2) is shorted to ground (including the spiral cable).	
DRIVER AIRBAG MODULE 2ND CIRCUIT [SHORT]		Driver air bag module circuits (DR2) are shorted to each other (including the spiral cable).	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-41, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-41, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-41, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641164

Regarding Wiring Diagram information, refer to SRC-23, "Wiring Diagram".

WARNING:

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

1. HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

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

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4. CHECK SPIRAL CABLE CIRCUIT

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

Driver air bag module		Combination switch (spiral cable)		Continuity
Connector	Terminal	Connector	Terminal	
M147	10	M108	28	Yes
	11		30	
M148	12		29	
	9		30	

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

Driver side air bag module		Ground	Continuity
Connector	Terminal		
B147	10		No
	11		
B148	12		
	9		

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace combination switch (spiral cable). Refer to SR-23, "Removal and Installation".

5. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 6.
NO >> Refer to GI-53, "Intermittent Incident".

6. AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7. DRIVER AIR BAG MODULE

1. Replace the driver air bag module. Refer to SR-20, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 8.
NO >> Clear DTC. Inspection End.

8. RELATED HARNESS

Replace the related harness.

>> **END**

B0010, B0011 PASSENGER AIRBAG MODULE

DTC Logic

INFOID:0000000010641165

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
ASSIST AIRBAG MODULE CIRCUIT [OPEN]	B0010	Front passenger air bag module circuit (AS1) is open.	Refer to SRC-43, "Diagnosis Procedure".
ASSIST AIRBAG MODULE CIRCUIT [VB-SHORT]		Front passenger air bag module circuit (AS1) is shorted to a power supply circuit.	
ASSIST AIRBAG MODULE CIRCUIT [GND-SHORT]		Front passenger air bag module circuit (AS1) is shorted to ground.	
ASSIST AIRBAG MODULE CIRCUIT [SHORT]		Front passenger air bag module circuits (AS1) are shorted to each other.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [OPEN]	B0011	Front passenger air bag module circuit (AS2) is open.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [VB-SHORT]		Front passenger air bag module circuit (AS2) is shorted to a power supply circuit.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [GND-SHORT]		Front passenger air bag module circuit (AS2) is shorted to ground.	
ASSIST AIRBAG MODULE 2ND CIRCUIT [SHORT]		Front passenger air bag module circuits (AS2) are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-43, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

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

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

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

Diagnosis Procedure

INFOID:0000000010641166

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

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

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5. AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6. FRONT PASSENGER AIR BAG MODULE

1. Replace the front passenger air bag module. Refer to SR-26, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7. RELATED HARNESS

Replace the related harness.

>> **END**

B0020 SIDE AIRBAG MODULE LH

Description

INFOID:0000000010641167

DTC B0020 FRONT LH SIDE AIR BAG MODULE

The front LH side air bag module is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the front LH side air bag module.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010641168

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
SIDE AIRBAG MODULE LH CIRCUIT [OPEN]	B0020	Front LH side air bag module circuit is open.	Refer to SRC-45, "Diagnosis Procedure".
SIDE AIRBAG MODULE LH CIRCUIT [VB-SHORT]		Front LH side air bag module circuit is shorted to a power supply circuit.	
SIDE AIRBAG MODULE LH CIRCUIT [GND-SHORT]		Front LH side air bag module circuit is shorted to ground.	
SIDE AIRBAG MODULE LH CIRCUIT [SHORT]		Front LH side air bag module circuits are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-45, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

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

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

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

Diagnosis Procedure

INFOID:0000000010641169

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

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

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.SIDE AIRBAG MODULE LH

1. Replace the side airbag module LH. Refer to SR-32, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0028 SIDE AIRBAG MODULE RH

Description

INFOID:0000000010641170

DTC B0028 FRONT RH SIDE AIR BAG MODULE

The front RH side air bag module is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor for opens and shorts in detected lines to the front RH side air bag module.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010641171

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
SIDE AIRBAG MODULE RH CIRCUIT [OPEN]	B0028	Front RH side air bag module circuit is open.	Refer to SRC-47, "Diagnosis Procedure".
SIDE AIRBAG MODULE RH CIRCUIT [VB-SHORT]		Front RH side air bag module circuit is shorted to a power supply circuit.	
SIDE AIRBAG MODULE RH CIRCUIT [GND-SHORT]		Front RH side air bag module circuit is shorted to ground.	
SIDE AIRBAG MODULE RH CIRCUIT [SHORT]		Front RH side air bag module circuits are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-47, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

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

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

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

Diagnosis Procedure

INFOID:0000000010641172

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

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

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.SIDE AIRBAG MODULE RH

1. Replace the side airbag module RH. Refer to SR-32, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0021 SIDE CURTAIN AIR BAG MODULE LH

DTC Logic

INFOID:0000000010641173

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
CURTAIN AIRBAG MODULE LH CIRCUIT [OPEN]	B0021	LH side curtain air bag module circuit is open.	Refer to SRC-49, "Diagnosis Procedure".
CURTAIN AIRBAG MODULE LH CIRCUIT [VB-SHORT]		LH side curtain air bag module circuit is shorted to a power supply circuit.	
CURTAIN AIRBAG MODULE LH CIRCUIT [GND-SHORT]		LH side curtain air bag module circuit is shorted to ground.	
CURTAIN AIRBAG MODULE LH CIRCUIT [SHORT]		LH side curtain air bag module circuits are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-49, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

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

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

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

Diagnosis Procedure

INFOID:0000000010641174

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.

- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.SIDE CURTAIN AIR BAG MODULE LH

1. Replace the side curtain air bag module LH. Refer to SR-29, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0029 SIDE CURTAIN AIR BAG MODULE RH

DTC Logic

INFOID:0000000010641175

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
CURTAIN AIRBAG MODULE RH CIRCUIT [OPEN]	B0029	RH side curtain air bag module circuit is open.	Refer to SRC-51, "Diagnosis Procedure".
CURTAIN AIRBAG MODULE RH CIRCUIT [VB-SHORT]		RH side curtain air bag module circuit is shorted to a power supply circuit.	
CURTAIN AIRBAG MODULE RH CIRCUIT [GND-SHORT]		RH side curtain air bag module circuit is shorted to ground.	
CURTAIN AIRBAG MODULE RH CIRCUIT [SHORT]		RH side curtain air bag module circuits are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-51, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-51, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-51, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641176

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.

- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.SIDE CURTAIN AIR BAG MODULE RH

1. Replace the side curtain air bag module RH. Refer to SR-29, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B1430 SEAT BELT PRE-TENSIONER

DTC Logic

INFOID:0000000010641177

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
FRONT PRE-TEN LH CIRCUIT [OPEN]	B1430	Front LH seat belt pre-tensioner circuit is open.	Refer to SRC-53, "Diagnosis Procedure".
FRONT PRE-TEN LH CIRCUIT [VB-SHORT]		Front LH seat belt pre-tensioner circuit is shorted to a power supply circuit.	
FRONT PRE-TEN LH CIRCUIT [GND-SHORT]		Front LH seat belt pre-tensioner circuit is shorted to ground.	
FRONT PRE-TEN LH CIRCUIT [SHORT]		Front LH seat belt pre-tensioner circuits are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-53, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-53, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-53, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641178

1.HARNESS CONNECTOR

Check the harness connector for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4
NO >> Replace the harness.

4. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5. AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6. FRONT LH SEAT BELT PRE-TENSIONER

1. Replace the front LH seat belt pre-tensioner. Refer to SR-40, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7. RELATED HARNESS

Replace the related harness.

>> **END**

B1431 SEAT BELT PRE-TENSIONER

DTC Logic

INFOID:0000000010641179

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
FRONT PRE-TEN RH CIRCUIT [OPEN]	B1431	RH seat belt pre-tensioner circuit is open.	Refer to SRC-55, "Diagnosis Procedure".
FRONT PRE-TEN RH CIRCUIT [VB-SHORT]		RH seat belt pre-tensioner circuit is shorted to a power supply circuit.	
FRONT PRE-TEN RH CIRCUIT [GND-SHORT]		RH seat belt pre-tensioner circuit is shorted to ground.	
FRONT PRE-TEN RH CIRCUIT [SHORT]		RH seat belt pre-tensioner circuits are shorted to each other.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-55, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-55, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-55, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641180

1.HARNESS CONNECTOR

Check the harness connector for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3.WIRING HARNESS

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.SEAT BELT PRE-TENSIONER RH

1. Replace the seat belt pre-tensioner RH. Refer to SR-40, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B1428 SEAT BELT BUCKLE SWITCH LH

Description

INFOID:0000000010641181

DTC B1428 SEAT BELT BUCKLE SWITCH LH

The air bag diagnosis sensor unit monitors the seat belt buckle switch LH status. If the control unit detects an open or short condition in the circuit, it will set the DTC.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010641182

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
SEAT BELT BUCKLE SW LH CIRCUIT [OPEN]	B1428	Seat belt buckle switch LH circuit is open.	Refer to SRC-57, "Diagnosis Procedure".
SEAT BELT BUCKLE SW LH CIRCUIT [VB-SHORT]		Seat belt buckle switch LH circuit is shorted to a power supply circuit.	
SEAT BELT BUCKLE SW LH CIRCUIT [GND-SHORT]		Seat belt buckle switch LH circuit is shorted to ground.	
SEAT BELT BUCKLE SW LH CIRCUIT [UNDEFINED]		Seat belt buckle switch LH circuit is malfunctioning.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-57, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-57, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-57, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641183

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5.SEAT BELT BUCKLE SWITCH LH

1. Replace the seat buckle switch LH. Refer to SB-15, "SEAT BELT BUCKLE : Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SB-15, "SEAT BELT BUCKLE : Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B1429 SEAT BELT BUCKLE SWITCH RH

Description

INFOID:0000000010641184

DTC B1429 SEAT BELT BUCKLE SWITCH RH

The air bag diagnosis sensor unit monitors the seat belt buckle switch RH status. If the control unit detects an open or short condition in the circuit, it will set the DTC.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010641185

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
SEAT BELT BUCKLE SW RH CIRCUIT [OPEN]	B1429	Seat belt buckle switch RH circuit is open.	Refer to SRC-60, "Diagnosis Procedure".
SEAT BELT BUCKLE SW RH CIRCUIT [VB-SHORT]		Seat belt buckle switch RH circuit is shorted to a power supply circuit.	
SEAT BELT BUCKLE SW RH CIRCUIT [GND-SHORT]		Seat belt buckle switch RH circuit is shorted to ground.	
SEAT BELT BUCKLE SW RH CIRCUIT [UNDEFINED]		Seat belt buckle switch RH circuit is malfunctioning.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-60, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-60, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-60, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641186

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

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

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5.SEAT BELT BUCKLE RH

1. Replace the seat buckle RH. Refer to SB-15, "SEAT BELT BUCKLE : Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0094 CRASH ZONE SENSOR

DTC Logic

INFOID:0000000010641187

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
CRASH ZONE SENSOR [SENSOR FAIL]	B0094	Crash zone sensor has malfunctioned.	Refer to SRC-62, "Diagnosis Procedure".
CRASH ZONE SENSOR [COMM FAIL]		Crash zone sensor communication error.	
CRASH ZONE SENSOR [DISCONNECT]		Crash zone sensor is disconnected.	
CRASH ZONE SENSOR [UNMATCH]		Crash zone sensor is out of specification.	
CRASH ZONE SENSOR [GND-SHORT]		Crash zone sensor circuit is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-62, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-62, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-62, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641188

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5.CRASH ZONE SENSOR

1. Replace the crash zone sensor. Refer to SR-33, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0093 FRONT DOOR SATELLITE SENSOR LH

DTC Logic

INFOID:0000000010641189

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
DOOR SATELLITE SENSOR LH [SENSOR FAIL]	B0093	Front door satellite sensor LH has malfunctioned.	Refer to SRC-64, "Diagnosis Procedure".
DOOR SATELLITE SENSOR LH [COMM FAIL]		Front door satellite sensor LH communication error.	
DOOR SATELLITE SENSOR LH [DISCONNECT]		Front door satellite sensor LH is disconnected.	
DOOR SATELLITE SENSOR LH [UNMATCH]		Front door satellite sensor LH is out of specification.	
DOOR SATELLITE SENSOR LH [GND-SHORT]		Front door satellite sensor LH circuit is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-64, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-64, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-64, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641190

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:

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

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

NOTE:

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5.FRONT DOOR SATELLITE SENSOR LH

1. Replace the front door satellite sensor LH. Refer to SR-35, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0098 FRONT DOOR SATELLITE SENSOR RH

DTC Logic

INFOID:0000000010641191

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
DOOR SATELLITE SENSOR RH [SENSOR FAIL]	B0098	Front door satellite sensor RH has malfunctioned.	Refer to SRC-66, "Diagnosis Procedure".
DOOR SATELLITE SENSOR RH [COMM FAIL]		Front door satellite sensor RH communication error.	
DOOR SATELLITE SENSOR RH [DISCONNECT]		Front door satellite sensor RH is disconnected.	
DOOR SATELLITE SENSOR RH [UNMATCH]		Front door satellite sensor RH is out of specification.	
DOOR SATELLITE SENSOR RH [GND-SHORT]		Front door satellite sensor RH circuit is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-66, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-66, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-66, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641192

Recheck SRS after each replacement.

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5. FRONT DOOR SATELLITE SENSOR LH

1. Replace the front door satellite sensor LH. Refer to SR-35, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6. AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7. RELATED HARNESS

Replace the related harness.

>> **END**

B0091 FRONT SIDE AIR BAG SATELLITE SENSOR LH

Description

INFOID:0000000010641193

DTC B0091 FRONT SATELLITE SENSOR LH

The front side air bag satellite sensor LH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor the front side air bag satellite sensor LH for internal failures and its circuits for communication errors.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010641194

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
B-PILLAR SATELLITE SENSOR LH [SENSOR FAIL]	B0091	Front side air bag satellite sensor LH has malfunctioned.	Refer to SRC-69, "Diagnosis Procedure".
B-PILLAR SATELLITE SENSOR LH [COMM FAIL]		Front side air bag satellite sensor LH communication error.	
B-PILLAR SATELLITE SENSOR LH [DISCONNECT]		Front side air bag satellite sensor LH is disconnected.	
B-PILLAR SATELLITE SENSOR LH [UNMATCH]		Front side air bag satellite sensor LH is out of specification.	
B-PILLAR SATELLITE SENSOR LH [GND-SHORT]		Front side air bag satellite sensor LH circuit is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-69, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-69, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-69, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641195

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5.FRONT SIDE AIR BAG SATELLITE SENSOR LH

1. Replace the front side air bag satellite sensor LH. Refer to SR-35, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B0096 FRONT SIDE AIR BAG SATELLITE SENSOR RH

Description

INFOID:0000000010641196

DTC B0096 FRONT SATELLITE SENSOR RH

The front side air bag satellite sensor RH is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor the front side air bag satellite sensor RH for internal failures and its circuits for communication errors.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010641197

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
B-PILLAR SATELLITE SENSOR RH [SENSOR FAIL]	B0096	Front side air bag satellite sensor RH has malfunctioned.	Refer to SRC-72, "Diagnosis Procedure".
B-PILLAR SATELLITE SENSOR RH [COMM FAIL]		Front side air bag satellite sensor RH communication error.	
B-PILLAR SATELLITE SENSOR RH [DISCONNECT]		Front side air bag satellite sensor RH is disconnected.	
B-PILLAR SATELLITE SENSOR RH [UNMATCH]		Front side air bag satellite sensor RH is out of specification.	
B-PILLAR SATELLITE SENSOR RH [GND-SHORT]		Front side air bag satellite sensor RH circuit is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-72, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-72, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-72, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641198

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5.FRONT SIDE AIR BAG SATELLITE SENSOR RH

1. Replace the front side air bag satellite sensor RH. Refer to SR-35, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.

NO >> Clear DTC. Inspection End.

7.RELATED HARNESS

Replace the related harness.

>> **END**

B00A0 OCS SYSTEM

Description

INFOID:0000000010641199

DTC B1017, B1018, B1020, B1021, B1022, B1025, B1032, B1048 OCCUPANT CLASSIFICATION SYSTEM (OCS)

The OCS control unit is wired to the air bag diagnosis sensor unit. The air bag diagnosis sensor unit will monitor the OCS for failures and interruptions in communication between the OCS control unit and the air bag diagnosis sensor unit.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010641200

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
OCCUPANT DETECTION SENSOR UNIT [UNIT FAIL]	B00A0	The OCS control unit is malfunctioning.	Refer to SRC-75, "Diagnosis Procedure".
OCCUPANT DETECTION SENSOR UNIT [NO DATA]			
OCCUPANT DETECTION SENSOR UNIT [UNDEFINED]			
OCCUPANT DETECTION SENSOR UNIT [RESET FAIL]			
OCCUPANT DETECTION SENSOR [UNIT FAIL]		The OCS sensor is malfunctioning.	
OCCUPANT DETECTION SENSOR [POWER FAIL]		The OCS sensor circuit is malfunctioning.	
OCCUPANT DETECTION SENSOR UNIT [COMM FAIL]		Communication between the OCS control unit and the air bag diagnosis sensor unit is interrupted.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-75, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-75, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-75, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641201

Recheck SRS after each corrective action.

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3.WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4.CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5.REPLACE OCCUPANT DETECTION SYSTEM CONTROL UNIT

1. Replace the occupant detection system control unit. Refer to SR-42, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6.AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7. RELATED HARNESS

Replace the related harness.

>> **END**

B14XX AIR BAG DIAGNOSIS SENSOR UNIT

Description

INFOID:0000000010641202

DTC B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

The air bag diagnosis sensor unit will run self diagnostics when the ignition switch is turned ON. It has the potential to set many diagnostic trouble codes which will conform to the B1XXX format, but will not match any other SRS diagnostic trouble codes. Refer to SRC-13, "CONSULT Function".

DTC Logic

INFOID:0000000010641203

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
CONTROL UNIT [UNIT FAIL]	B14XX	Air bag diagnosis sensor unit is malfunctioning.	Refer to SRC-77, "Diagnosis Procedure".
AIRBAG DISPOSAL COMPLETION			

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-77, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-77, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-77, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641204

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5. AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6. RELATED HARNESS

Replace the related harness.

>> **END**

B00D5 FRONT PASSENGER AIR BAG OFF INDICATOR

DTC Logic

INFOID:0000000010641205

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
PASSENGER AIRBAG INDICATOR CIRCUIT [FAIL]	B00D5	Front passenger air bag OFF indicator is malfunctioning.	Refer to SRC-79, "Diagnosis Procedure".
PASSENGER AIRBAG INDICATOR CIRCUIT [OPEN]		Front passenger air bag OFF indicator circuit is open.	
PASSENGER AIRBAG INDICATOR CIRCUIT [VB-SHORT]		Front passenger air bag OFF indicator is shorted to a power supply circuit.	
PASSENGER AIRBAG INDICATOR CIRCUIT [GND-SHORT]		Front passenger air bag OFF indicator is shorted to ground.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1.CHECK SELF-DIAG RESULT

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

Is the DTC detected?

YES (Current DTC)>>Refer to SRC-79, "Diagnosis Procedure".
YES (Past DTC)>>GO TO 2.
NO >> Inspection End.

2.ERASE SELF-DIAG RESULT

Erase the DTC using CONSULT.

Can the DTC be erased?

YES >> Inspection End.
NO >> Refer to SRC-79, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE (Without CONSULT)

1.CHECK SELF-DIAG RESULT

1. Turn ignition switch ON.
2. Check the air bag warning lamp status. Refer to SRC-11, "On Board Diagnosis Function".

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

Is the DTC detected?

YES >> Refer to SRC-79, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641206

1.HARNESS CONNECTOR

Visually inspect all applicable harness connectors for the following:
- Visible damage to connector or terminal
- Loose terminal
- Poor connection

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform one of the following repairs:
- Visible damage: Replace the harness.
- Loose terminal: Secure the terminal.
- Poor connection: Secure the connection.

2. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 3.
NO >> Refer to GI-53, "Intermittent Incident".

3. WIRING HARNESS

Check the wiring harness for visible damage.

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace the harness.

4. CONFIRM DTC

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

Is DTC still current?

YES >> GO TO 5.
NO >> Refer to GI-53, "Intermittent Incident".

5. FRONT PASSENGER AIR BAG OFF INDICATOR

1. Replace the front passenger air bag off indicator.
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 6.
NO >> Clear DTC. Inspection End.

6. AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
2. Turn ignition switch ON.
3. Check for DTC using CONSULT.

Is DTC still current?

YES >> GO TO 7.
NO >> Clear DTC. Inspection End.

7. RELATED HARNESS

Replace the related harness.

>> **END**

B142A IGNITION VOLTAGE

Description

INFOID:0000000010641207

DTC B142A IGNITION VOLTAGE

Ignition voltage is supplied to the air bag diagnosis sensor unit when the ignition is in the ON position. The air bag diagnosis sensor unit will monitor for low or high ignition voltage.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010641208

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
IGN VOLTAGE [LOW]	B142A	Ignition voltage low at air bag diagnosis sensor unit.	Refer to SRC-81, "Diagnosis Procedure".
IGN VOLTAGE [HIGH]		Ignition voltage high at air bag diagnosis sensor unit.	

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

YES >> Refer to SRC-81, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641209

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

1. HARNESS CONNECTOR

Is there any visible damage to the connector?

YES or NO

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

2. WIRING HARNESS

Is there any visible damage to the harness?

YES or NO

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

3. AIR BAG DIAGNOSIS SENSOR UNIT

Replace the air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".

>> GO TO 4

4. RELATED HARNESS

Replace the related harness.

>> **END**

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000010641210

CAN (Controller Area Network) is a serial communication system for real time application. It is an on-vehicle multiplex communication system with high data communication speed and excellent error detection ability. Many electronic control units are equipped into vehicles, and each control unit shares information and links with other control units during operation. With CAN communication, control units are connected with two communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits and receives data but selectively reads required data only. Refer to LAN-37, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart".

DTC Logic

INFOID:0000000010641211

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
CAN COMMUNICATION FAILURE	U1000	When air bag diagnosis sensor unit is not transmitting or receiving CAN communication signals for 2 or more seconds.	Refer to SRC-83, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE

1.PERFORM SELF-DIAGNOSIS

1. Turn ignition switch ON and wait for 7 seconds or more.
2. Using CONSULT, perform SELF-DIAGNOSIS RESULTS of AIR BAG.
3. Check if any DTC is displayed in the self-diagnosis results.

Is DTC detected?

YES >> Refer to SRC-83, "Diagnosis Procedure".
NO >> Refer to GI-53, "Intermittent Incident".

Diagnosis Procedure

INFOID:0000000010641212

1.CHECK CAN COMMUNICATION SYSTEM

Check CAN communication system. Refer to LAN-17, "Trouble Diagnosis Flow Chart".

>> Inspection End.

U1010 CONTROL UNIT (CAN)

Description

INFOID:0000000010641213

Air bag diagnosis sensor performs self-tests on key ON. If CAN communication failure within control unit is detected, DTC is set.

DTC Logic

INFOID:0000000010641214

DTC DETECTION LOGIC

CONSULT name	DTC	DTC detecting condition	Repair order
CAN CONTROL UNIT FAILURE	U1010	CAN communication error is detected in control unit.	Refer to SRC-84, "Diagnosis Procedure".

DTC CONFIRMATION PROCEDURE

1.PERFORM SELF-DIAGNOSIS

1. Turn ignition switch ON.
2. Using CONSULT, perform SELF DIAGNOSIS RESULTS of AIR BAG.
3. Check if DTC is displayed in the self-diagnosis results.

Is DTC detected?

YES >> Refer to SRC-84, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641215

1.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".

>> Inspection End.

B142X COLLISION DETECTION

Description

INFOID:0000000010641216

DTC B1209 - B1211 COLLISION DETECTION

The air bag diagnosis sensor unit will set this DTC if it has detected a collision which has resulted in a deployment of one or more air bags or pre-tensioners. If this DTC is detected after a SRS repair, the air bag diagnosis sensor unit has not yet been replaced. This DTC can not be erased.

PART LOCATION

Refer to SRC-6, "Component Parts Location".

DTC Logic

INFOID:0000000010641217

DTC DETECTION LOGIC

With CONSULT

CONSULT name	DTC	DTC detecting condition	Repair order
FRONTAL COLLISION DETECTION	B1421	Frontal collision detected. Driver and/or front passenger air bag modules are deployed.	Refer to SR-13, "For Frontal Collision".
SIDE COLLISION DETECTION	B1422	Side collision detected. Curtain air bag module and seat belt pre-tensioner are deployed.	Refer to SR-15, "For Side and Rollover Collision".

DTC CONFIRMATION PROCEDURE (With CONSULT)

1. INSPECTION START

Turn ignition switch ON.

>> GO TO 2.

2. CHECK SELF-DIAG RESULT

Check for the DTC on CONSULT.

Is the DTC detected?

YES >> Refer to SRC-85, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010641218

Refer to Frontal collision: SR-13, "For Frontal Collision", Side and rollover collision: SR-15, "For Side and Rollover Collision".

SYMPTOM DIAGNOSIS

SRS AIR BAG WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:0000000010641219

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

Check the deployment of air bag module.

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, located in fuse block (J/B)].

Is the inspection result normal?

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

3.CHECK HARNESS CONNECTOR

Check the harness connector.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace harness connectors.

4.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace wiring harness.

5.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

1. Replace air bag diagnosis sensor unit. Refer to SR-38, "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-102, "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:0000000010641220

1.CHECK COMBINATION METER POWER SUPPLY AND GROUND CIRCUIT

Check combination meter unit power supply and ground circuit. Refer to MWI-85, "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 >> Replace harness connectors.

3.CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

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

4.CHECK AIR BAG DIAGNOSIS SENSOR UNIT

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

Does air bag warning lamp turn ON?

YES >> Replace air bag diagnosis sensor unit. Refer to SR-38, "Removal and Installation".
NO >> Replace combination meter. Refer to MWI-102, "Removal and Installation".

SRS AIR BAG WARNING LAMP BLINKS

Diagnosis Procedure

INFOID:0000000010641221

1.CHECK BATTERY

Check battery. Refer to PG-76, "How to Handle 12V Battery".

Is the inspection result normal?

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

2.REPLACE OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

1. Replace occupant classification system control unit. Refer to SR-42, "Removal and Installation".
2. Check air bag warning lamp operation.

Is the inspection result normal?

YES >> Inspection End.
NO >> GO TO 3.

3.REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

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

Is the inspection result normal?

YES >> Inspection End.
NO >> GO TO 1.