

# SECTION **SRS**

## SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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

### CONTENTS

|   |   |
|---|---|
| <p><b>SERVICE INFORMATION</b> ..... 3</p> <p><b>DTC INDEX</b> ..... 3</p> <p style="padding-left: 20px;">B1001-B1015 .....3</p> <p style="padding-left: 20px;">B1017-B1035 .....3</p> <p style="padding-left: 20px;">B1042-B1057 .....4</p> <p style="padding-left: 20px;">B1058-B1073 .....4</p> <p style="padding-left: 20px;">B1074-B1089 .....5</p> <p style="padding-left: 20px;">B1106-B1121 .....5</p> <p style="padding-left: 20px;">B1122-B1137 .....6</p> <p style="padding-left: 20px;">B1138-B1153 .....6</p> <p style="padding-left: 20px;">B1202-B1210 .....6</p> <p><b>PRECAUTIONS</b> ..... 8</p> <p style="padding-left: 20px;">Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....8</p> <p style="padding-left: 20px;">Precaution for SRS "AIR BAG" and "SEAT BELT PRE-TENSIONER" Service .....8</p> <p style="padding-left: 20px;">Precaution for Battery Service .....8</p> <p style="padding-left: 20px;">Occupant Classification System Precaution Service .....9</p> <p><b>PREPARATION</b> .....10</p> <p style="padding-left: 20px;">Commercial Service Tool ..... 10</p> <p><b>SUPPLEMENTAL RESTRAINT SYSTEM (SRS)</b> .....11</p> <p style="padding-left: 20px;">SRS Configuration ..... 11</p> <p style="padding-left: 20px;">Front Seat Belt Pre-tensioner with Load Limiter .... 12</p> <p style="padding-left: 20px;">Front Side Air Bag ..... 12</p> <p style="padding-left: 20px;">Side Curtain Air Bag/for Coupe ..... 12</p> <p style="padding-left: 20px;">Warning Lamp ..... 12</p> <p style="padding-left: 20px;">Occupant Classification System (OCS) ..... 13</p> <p style="padding-left: 20px;">Passenger Air Bag Status Condition ..... 13</p> <p style="padding-left: 20px;">Component Parts of Occupant Classification System ..... 13</p> <p style="padding-left: 20px;">Passenger Seat belt Warning System ..... 13</p> <p><b>TROUBLE DIAGNOSIS</b> .....15</p> | <p style="padding-left: 20px;">Trouble Diagnosis Introduction .....15</p> <p style="padding-left: 20px;">Component Parts Location .....17</p> <p style="padding-left: 20px;">Schematic .....18</p> <p style="padding-left: 20px;">Wiring Diagram - SRS -/For Coupe .....19</p> <p style="padding-left: 20px;">Wiring Diagram - SRS -/For Roadster .....25</p> <p style="padding-left: 20px;">CONSULT-III Function .....30</p> <p style="padding-left: 20px;">Self-Diagnosis Function (Without CONSULT-III) ....31</p> <p style="padding-left: 20px;">SRS Operation Check (USER MODE) .....32</p> <p style="padding-left: 20px;">Trouble Diagnosis with CONSULT-III .....33</p> <p style="padding-left: 20px;">Trouble Diagnosis without CONSULT-III .....37</p> <p style="padding-left: 20px;">Trouble Diagnosis: "AIR BAG" Warning Lamp Does Not Turn OFF .....40</p> <p style="padding-left: 20px;">Trouble Diagnosis: "AIR BAG" Warning Lamp Does Not Turn ON .....41</p> <p style="padding-left: 20px;">Trouble Diagnosis: Passenger Seat belt Warning System .....41</p> <p><b>DRIVER AIR BAG MODULE</b> .....43</p> <p style="padding-left: 20px;">Removal and Installation .....43</p> <p><b>SPIRAL CABLE</b> .....45</p> <p style="padding-left: 20px;">Removal and Installation .....45</p> <p><b>FRONT PASSENGER AIR BAG MODULE</b> .....47</p> <p style="padding-left: 20px;">Removal and Installation .....47</p> <p><b>SIDE CURTAIN AIR BAG MODULE (FOR COUPE)</b> .....49</p> <p style="padding-left: 20px;">Removal and Installation .....49</p> <p><b>CRASH ZONE SENSOR</b> .....51</p> <p style="padding-left: 20px;">Removal and Installation .....51</p> <p><b>SIDE AIR BAG (SATELLITE) SENSOR</b> .....52</p> <p style="padding-left: 20px;">Removal and Installation .....52</p> <p><b>FRONT SEAT BELT PRE-TENSIONER</b> .....53</p> <p style="padding-left: 20px;">Removal and Installation .....53</p> <p><b>DIAGNOSIS SENSOR UNIT</b> .....54</p> <p style="padding-left: 20px;">Removal and Installation .....54</p> |
|---|---|

---

**OCCUPANT CLASSIFICATION SYSTEM****CONTROL UNIT ..... 56**

Removal and Installation ..... 56

**COLLISION DIAGNOSIS ..... 57****FOR FRONTAL COLLISION ..... 57**

FOR FRONTAL COLLISION : When SRS is activated in a collision ..... 57

FOR FRONTAL COLLISION : When SRS is not activated in a collision ..... 58

**FOR SIDE AND ROLLOVER COLLISION ..... 59**

FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision ..... 59

FOR SIDE AND ROLLOVER COLLISION : When SRS is not activated in a collision ..... 60

# DTC INDEX

< SERVICE INFORMATION >

## SERVICE INFORMATION

### DTC INDEX

B1001-B1015

INFOID:000000004657130

| DTC   | Items (CONSULT screen terms) | Reference  |
|-------|------------------------------|--|
| B1001 | DIAGNOSIS SENSOR UNIT        | <a href="#">SRS-33, "Trouble Diagnosis with CONSULT-III"</a> |
| B1002 |                              |  |
| B1003 |                              |  |
| B1004 |                              |  |
| B1005 |                              |  |
| B1006 |                              |  |
| B1007 |                              |  |
| B1008 |                              |  |
| B1009 |                              |  |
| B1010 |                              |  |
| B1011 |                              |  |
| B1012 |                              |  |
| B1013 |                              |  |
| B1014 |                              |  |
| B1015 |                              |  |

B1017-B1035

INFOID:000000004657131

| DTC   | Items (CONSULT screen terms) | Reference  |
|-------|------------------------------|--|
| B1017 | OCCUPANT SENSOR C/U          | <a href="#">SRS-33, "Trouble Diagnosis with CONSULT-III"</a> |
| B1018 | OCCUPANT SENS                |  |
| B1019 | BELT TENSION SENS            |  |
| B1020 | OCCUPANT SENSOR C/U          |  |
| B1021 |                              |  |
| B1022 | OCCUPANT SENS C/U            |  |
| B1023 | PASS A/B INDCTR CKT          |  |
| B1026 | DIAGNOSIS SENSOR UNIT        |  |
| B1027 |                              |  |
| B1028 |                              |  |
| B1029 |                              |  |
| B1030 |                              |  |
| B1031 |                              |  |
| B1033 | CRASH ZONE SEN               |  |
| B1034 |                              |  |
| B1035 |                              |  |

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

SRS

# DTC INDEX

< SERVICE INFORMATION >

## B1042-B1057

INFOID:000000004657132

| DTC   | Items (CONSULT screen terms) | Reference  |
|-------|------------------------------|--|
| B1042 | DIAGNOSIS SENSOR UNIT        | <a href="#">SRS-33, "Trouble Diagnosis with CONSULT-III"</a> |
| B1043 |                              |  |
| B1044 |                              |  |
| B1045 |                              |  |
| B1046 |                              |  |
| B1047 |                              |  |
| B1049 |                              |  |
| B1050 | DRIVER AIR BAG MODULE        |  |
| B1051 |                              |  |
| B1052 |                              |  |
| B1054 |                              |  |
| B1055 |                              |  |
| B1056 |                              |  |
| B1057 |                              |  |

## B1058-B1073

INFOID:000000004657133

| DTC   | Items (CONSULT screen terms) | Reference  |
|-------|------------------------------|--|
| B1058 | DIAGNOSIS SENSOR UNIT        | <a href="#">SRS-33, "Trouble Diagnosis with CONSULT-III"</a> |
| B1059 |                              |  |
| B1060 |                              |  |
| B1061 |                              |  |
| B1062 |                              |  |
| B1063 |                              |  |
| B1065 | ASSIST A/B MODULE            |  |
| B1066 |                              |  |
| B1067 |                              |  |
| B1068 |                              |  |
| B1070 |                              |  |
| B1071 |                              |  |
| B1072 |                              |  |
| B1073 |                              |  |

# DTC INDEX

< SERVICE INFORMATION >

## B1074-B1089

INFOID:000000004657134

| DTC   | Items (CONSULT screen terms) | Reference  |
|-------|------------------------------|--|
| B1074 | DIAGNOSIS SENSOR UNIT        | <a href="#">SRS-33, "Trouble Diagnosis with CONSULT-III"</a> |
| B1075 |                              |  |
| B1076 |                              |  |
| B1077 |                              |  |
| B1078 |                              |  |
| B1079 |                              |  |
| B1081 | PRE-TEN FRONT RH             |  |
| B1082 |                              |  |
| B1083 |                              |  |
| B1084 |                              |  |
| B1086 | PRE-TEN FRONT LH             |  |
| B1087 |                              |  |
| B1088 |                              |  |
| B1089 |                              |  |

A  
B  
C  
D  
E  
F  
G

## B1106-B1121

INFOID:000000004657135

SRS

| DTC   | Items (CONSULT screen terms) | Reference  |
|-------|------------------------------|--|
| B1106 | DIAGNOSIS SENSOR UNIT        | <a href="#">SRS-33, "Trouble Diagnosis with CONSULT-III"</a> |
| B1107 |                              |  |
| B1108 |                              |  |
| B1109 |                              |  |
| B1110 |                              |  |
| B1111 |                              |  |
| B1113 | SATELLITE SENS RH            |  |
| B1114 |                              |  |
| B1115 |                              |  |
| B1116 |                              |  |
| B1118 | SATELLITE SENS LH            |  |
| B1119 |                              |  |
| B1120 |                              |  |
| B1121 |                              |  |

I  
J  
K  
L  
M  
N  
O  
P

# DTC INDEX

< SERVICE INFORMATION >

## B1122-B1137

INFOID:000000004657136

| DTC   | Items (CONSULT screen terms) | Reference  |
|-------|------------------------------|--|
| B1122 | DIAGNOSIS SENSOR UNIT        | <a href="#">SRS-33, "Trouble Diagnosis with CONSULT-III"</a> |
| B1123 |                              |  |
| B1124 |                              |  |
| B1125 |                              |  |
| B1126 |                              |  |
| B1127 |                              |  |
| B1129 |                              |  |
| B1130 |                              |  |
| B1131 |                              |  |
| B1132 |                              |  |
| B1134 | SIDE MODULE LH               |  |
| B1135 |                              |  |
| B1136 |                              |  |
| B1137 |                              |  |

## B1138-B1153

INFOID:000000004657137

| DTC   | Items (CONSULT screen terms) | Reference  |
|-------|------------------------------|--|
| B1138 | DIAGNOSIS SENSOR UNIT        | <a href="#">SRS-33, "Trouble Diagnosis with CONSULT-III"</a> |
| B1139 |                              |  |
| B1140 |                              |  |
| B1141 |                              |  |
| B1142 |                              |  |
| B1143 |                              |  |
| B1145 |                              |  |
| B1146 |                              |  |
| B1147 |                              |  |
| B1148 |                              |  |
| B1150 | CURTAIN MODULE LH            |  |
| B1151 |                              |  |
| B1152 |                              |  |
| B1153 |                              |  |

## B1202-B1210

INFOID:000000004657138

| DTC   | Items (CONSULT screen terms) | Reference  |
|-------|------------------------------|--|
| B1202 | DIAGNOSIS SENSOR UNIT        | <a href="#">SRS-33, "Trouble Diagnosis with CONSULT-III"</a> |
| B1203 |                              |  |
| B1204 |                              |  |
| B1205 |                              |  |
| B1206 |                              |  |
| B1207 |                              |  |

# DTC INDEX

## < SERVICE INFORMATION >

| DTC   | Items (CONSULT screen terms) | Reference  |
|-------|------------------------------|--|
| B1209 | FRONTAL COLLISION            | <a href="#">SRS-57, "FOR FRONTAL COLLISION : When SRS is activated in a collision"</a>           |
| B1210 | SIDE COLLISION               | <a href="#">SRS-59, "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision"</a> |

A

B

C

D

E

F

G

SRS

I

J

K

L

M

N

O

P

# PRECAUTIONS

< SERVICE INFORMATION >

## PRECAUTIONS

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

INFOID:000000004657139

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

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

INFOID:000000004657140

- Do not use electrical test equipment to check SRS circuits unless instructed in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, and disconnect both battery cables. Then wait at least 3 minutes.  
For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pretensioner to deploy. Therefore, do not work on any SRS connectors or wires until at least 3 minutes have passed.
- 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, deformations or rust before installation and replace if required.
- The spiral cable must be set to the neutral position since its rotations are limited. Do not attempt to turn steering wheel or column, if steering gear was disconnected from the column shaft.
- Handle air bag module carefully. Always put a driver air bag module with the pad side facing upward.
- Conduct self-diagnosis to check entire SRS for proper function after replacing any components.
- After an air bag deployment, the front instrument panel assembly should be replaced if damaged.
- Always replace instrument panel pad following front passenger air bag deployment.

### Precaution for Battery Service

INFOID:000000004657141

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

### Occupant Classification System Precaution

INFOID:000000004657142

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

# PRECAUTIONS

## < SERVICE INFORMATION >

### Service

INFOID:000000005788417

- Never use electrical test equipment to check SRS circuits unless instructed to in this Service Manual.
- Before servicing the SRS, turn ignition switch OFF, disconnect battery negative terminal and wait at least 3 minutes or more.  
For approximately 3 minutes after the cables are removed, it is still possible for the air bag and seat belt pretensioner to deploy. Therefore, never work on any SRS connectors or wires until at least 3 minutes have elapsed.
- Diagnosis sensor unit must always be installed with their arrow marks “⇐” pointing towards the front of the vehicle for proper operation. Also check diagnosis sensor unit for cracks, deformities or rust before installation and replace as required.
- The spiral cable must be aligned in the neutral position since its rotations are limited. 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 functioning 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.

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

### SRS

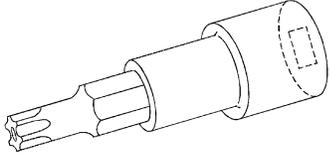
# PREPARATION

< SERVICE INFORMATION >

## PREPARATION

### Commercial Service Tool

INFOID:000000004657143

| Tool name   | Description   |
|---|---|
| <p data-bbox="181 457 451 485">Tamper resistant TORX bit</p>  <p data-bbox="841 569 899 588">S-NT757</p> | <p data-bbox="987 457 1365 485">Removal tool of driver air bag module</p> |

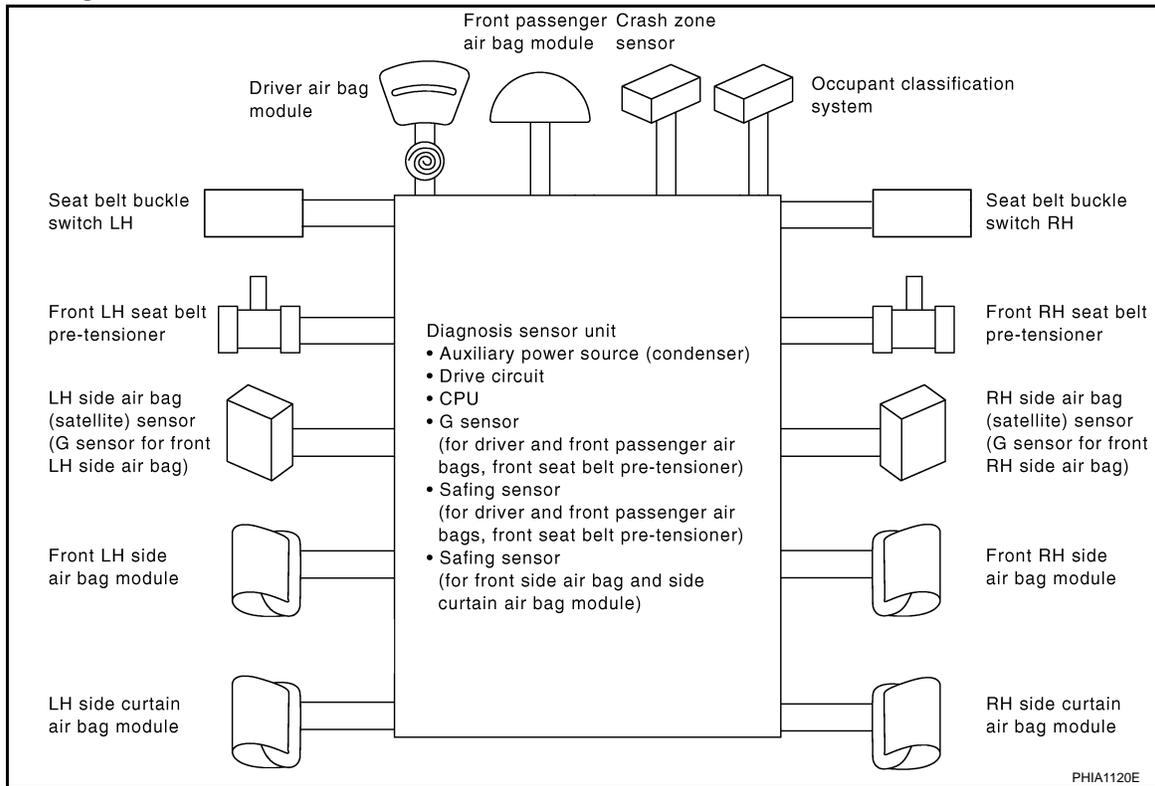
# SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

< SERVICE INFORMATION >

## SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

### SRS Configuration

INFOID:000000004657144



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

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

SRS configurations which are activated for some collision modes are as follows;

| SRS configuration                | Frontal collision | Left side collision | Right side collision |
|----------------------------------|-------------------|---------------------|----------------------|
| Driver air bag module            | ×                 | —                   | —                    |
| Front passenger air bag module   | ×                 | —                   | —                    |
| Front LH seat belt pre-tensioner | ×                 | —                   | —                    |
| Front RH seat belt pre-tensioner | ×                 | —                   | —                    |
| Front LH side air bag module     | —                 | ×                   | —                    |
| Front RH side air bag module     | —                 | —                   | ×                    |
| LH side curtain air bag module*  | —                 | ×                   | —                    |
| RH side curtain air bag module*  | —                 | —                   | ×                    |

\*: For Coupe

# SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

< SERVICE INFORMATION >

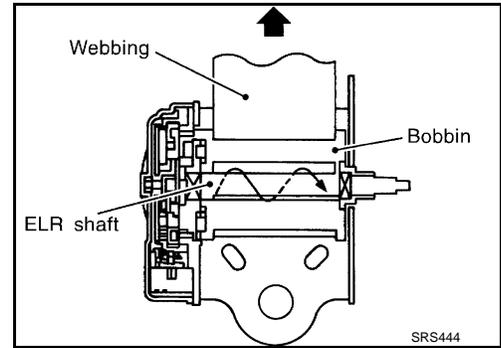
## Front Seat Belt Pre-tensioner with Load Limiter

INFOID:000000004657145

The seat belt pre-tensioner system with load limiter is installed for both the driver's seat and the front passenger seat. It operates simultaneously with the SRS air bag system in the event of a frontal collision with an impact exceeding a specified level.

When the frontal collision with an impact exceeding a specified level occurs, seat belt slack resulting from clothing or other factors is immediately taken up by the pre-tensioner. Vehicle passengers are securely restrained.

When passengers in a vehicle are thrown forward in a collision and the restraining force of the seat belt exceeds a specified level, the load limiter permits the specified extension of the seat belt by the twisting of the ELR shaft, and a relaxation of the chest-area seat belt web tension while maintaining force.



## Front Side Air Bag

INFOID:000000004657146

Front side air bag is built-in type.

The front seatbacks with built-in type side air bag have the labels as shown.



## Side Curtain Air Bag/for Coupe

INFOID:000000004657147

The side curtain air bags have the labels as shown.



## Warning Lamp

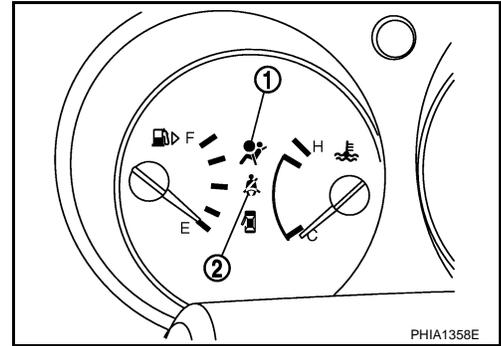
INFOID:000000004657148

**Air bag warning lamp : (1)**

**Seat belt warning lamp: (2)**

# SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

< SERVICE INFORMATION >



PHIA1358E

## Occupant Classification System (OCS)

INFOID:0000000004657149

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

### NOTE:

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

## Passenger Air Bag Status Condition

INFOID:0000000004657150

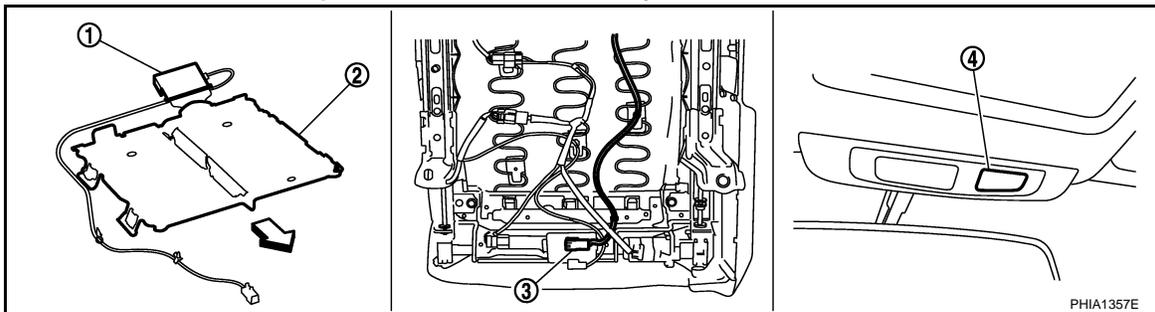
| Front Passenger Seat (Condition) | PASS AIR BAG OFF Indicator (Status) | Passenger Air Bag Status (Readiness) | CONSULT-III Display |
|----------------------------------|-------------------------------------|--------------------------------------|---------------------|
| Seat occupied                    | OFF                                 | Active (enabled)                     | ON                  |
| seat occupiedNOTE                | ON                                  | Deactivated (disabled)               | OFF                 |
| Seat empty                       | OFF                                 | Deactivated (disabled)               | OFF                 |

### NOTE:

Passenger does not meet Occupant classification System specifications for passenger air bag activation.

## Component Parts of Occupant Classification System

INFOID:0000000004657151



PHIA1357E

1. Occupant classification system control unit
2. Seat sensor mat
3. Occupant classification system connector
4. Passenger air bag OFF Indicator (cut-off telltaile)

## Passenger Seat belt Warning System

INFOID:0000000004657152

### SYSTEM DESCRIPTION

This system warns when passenger seat belt is not fasten.

This system is composed of the following items.

- Seat belt warning lamp.

## SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

### < SERVICE INFORMATION >

---

- Seat belt buckle switch (passenger side).
- Air bag diagnosis sensor unit.
- Occupant classification system.

Seat belt warning lamp is used for both driver seat belt warning and passenger seat belt warning.  
Seat belt warning lamp turns ON when all conditions below are met.

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

# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >

## TROUBLE DIAGNOSIS

### Trouble Diagnosis Introduction

INFOID:000000004657153

#### CAUTION:

- Do not 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.
- Do not 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 by using "AIR BAG" warning lamp and/or CONSULT-III.

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-III are as follows:

|                        | User mode | Diagnosis mode | Display type     |
|------------------------|-----------|----------------|------------------|
| "AIR BAG" warning lamp | X         | X              | ON-OFF operation |
| CONSULT-III            | —         | X              | Monitoring       |

#### HOW TO PERFORM TROUBLE DIAGNOSES FOR QUICK AND ACCURATE REPAIR

A good understanding of the malfunction conditions can make troubleshooting faster and more accurate.

In general, each customer feels differently about a malfunction. It is important to fully understand the symptoms or conditions for a customer complaint.

Information from Customer

WHAT..... Vehicle model

WHEN..... Date, Frequencies

WHERE..... Road conditions

HOW..... Operating conditions, Symptoms

Preliminary Check

Make sure that the following parts are in good order.

- Battery (Refer to [SC-4, "How to Handle Battery".](#))
- Fuse (Refer to [SRS-19, "Wiring Diagram - SRS -/For Coupe"](#) or [SRS-25, "Wiring Diagram - SRS -/For Roadster".](#))
- System component-to-harness connections

Work Flow

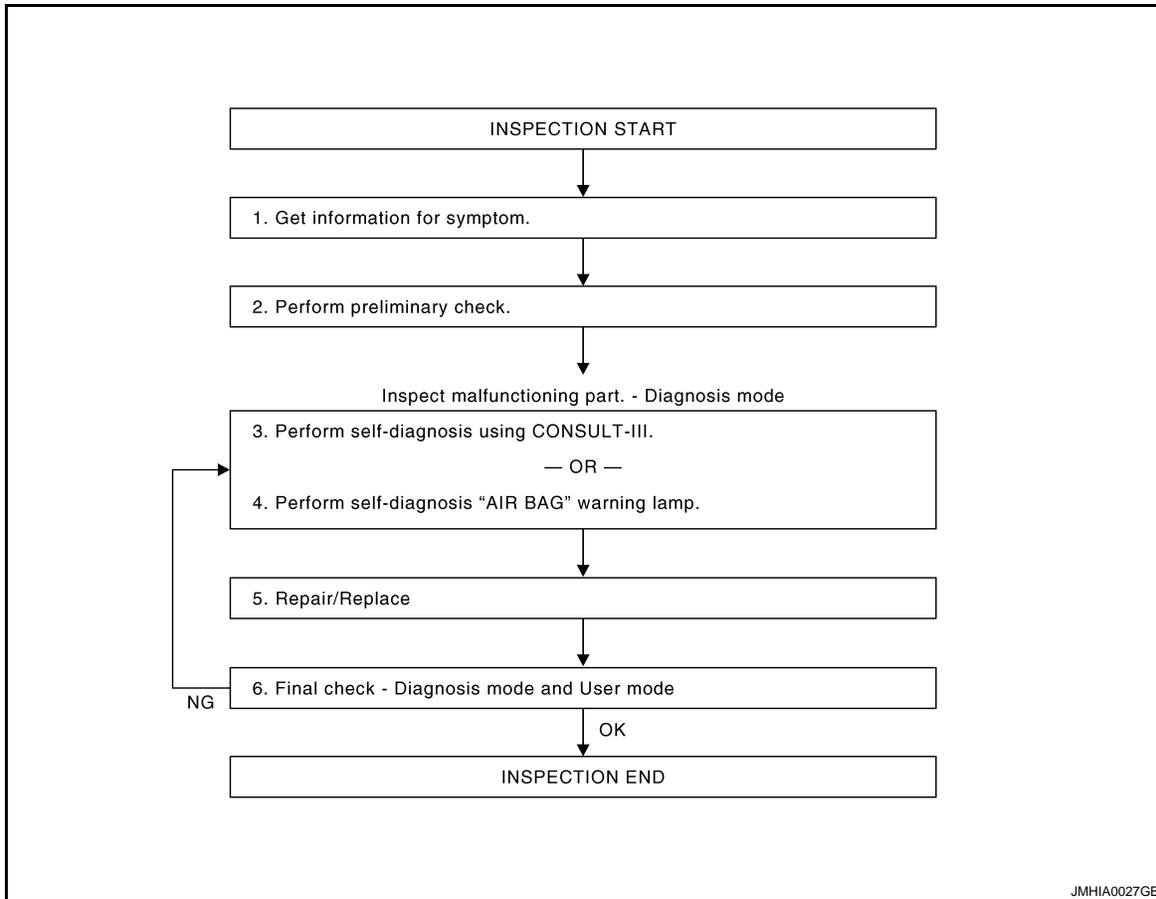
OVERALL SEQUENCE

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

SRS

# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >



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## DETAILED FLOW

### 1. GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom.

>> GO TO 2.

### 2. PERFORM PRELIMINARY CHECK

At the beginning of inspection, confirm the condition of power supply circuit, check that the battery is charged and fuses and fusible links are not blown.

Is power supply circuit normal?

YES-I >> GO TO 3.

YES-II >> GO TO 4.

NO >> Repair or replace the battery and fuse/fusible links.

### 3. PERFORM SELF-DIAGNOSIS USING "CONSULT-III" (WITH CONSULT-III)

Check the screen of CONSULT-III.

Is malfunctioning part displayed on CONSULT-III?

YES >> GO TO 5.

NO >> Repeat DTC confirmation with diagnostic procedure.

### 4. PERFORM SELF-DIAGNOSIS "AIR BAG" WARNING LAMP (WITHOUT CONSULT-III)

Check the warning lamp status.

Is malfunctioning part detected?

YES >> GO TO 5.

NO >> Repeat DTC confirmation with diagnostic procedure.

### 5. REPAIR OR REPLACE

# TROUBLE DIAGNOSIS

## < SERVICE INFORMATION >

Repair or replace the malfunctioning part.

After the malfunctioning is repaired, erase the self-diagnostic result. Refer to [SRS-30, "CONSULT-III Function"](#).

>> GO TO 6.

## 6.FINAL CHECK DIAGNOSIS MODE AND USER MODE

Check the screen of CONSULT-III and/or Air bag warning lamp status.

Are the malfunctions corrected?

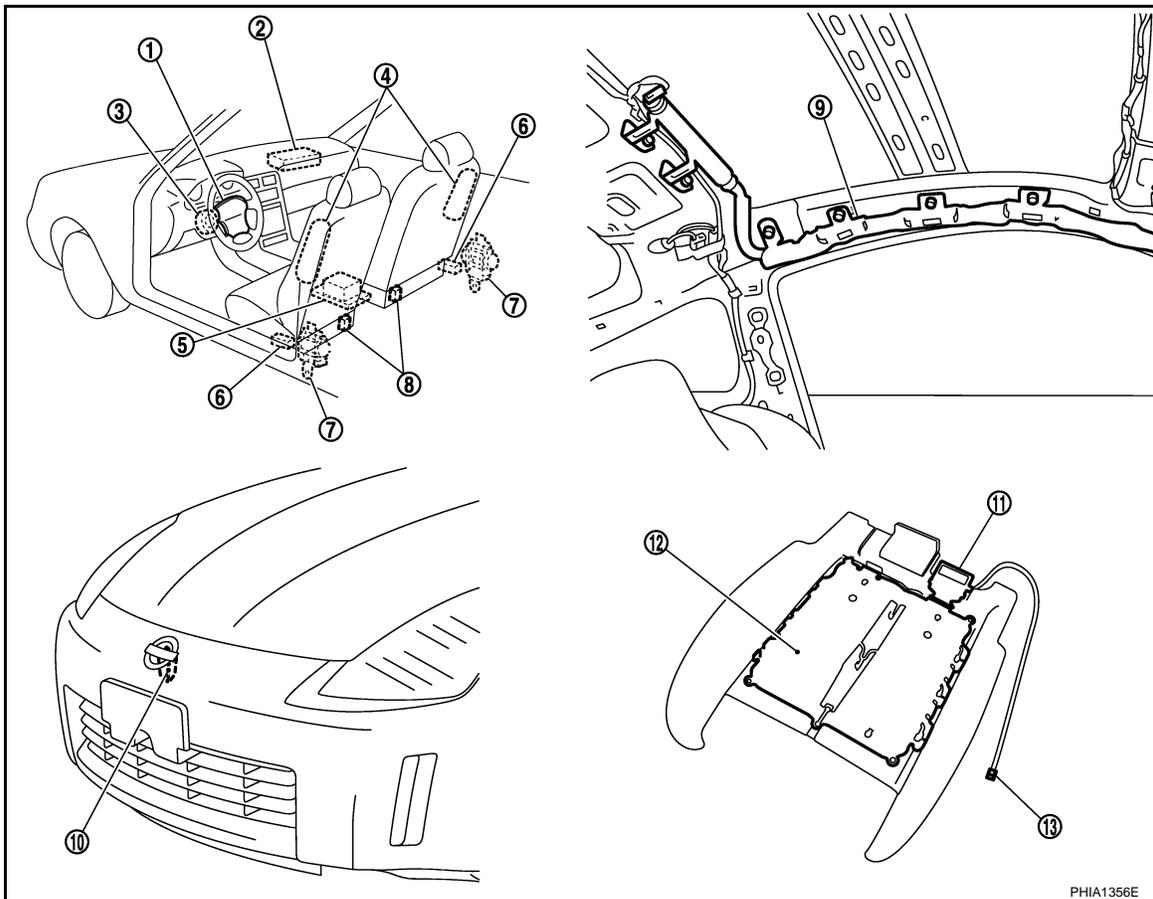
YES >> **INSPECTION END.**

NO-I >> GO TO 3.

NO-II >> GO TO 4.

## Component Parts Location

INFOID:000000004657154



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

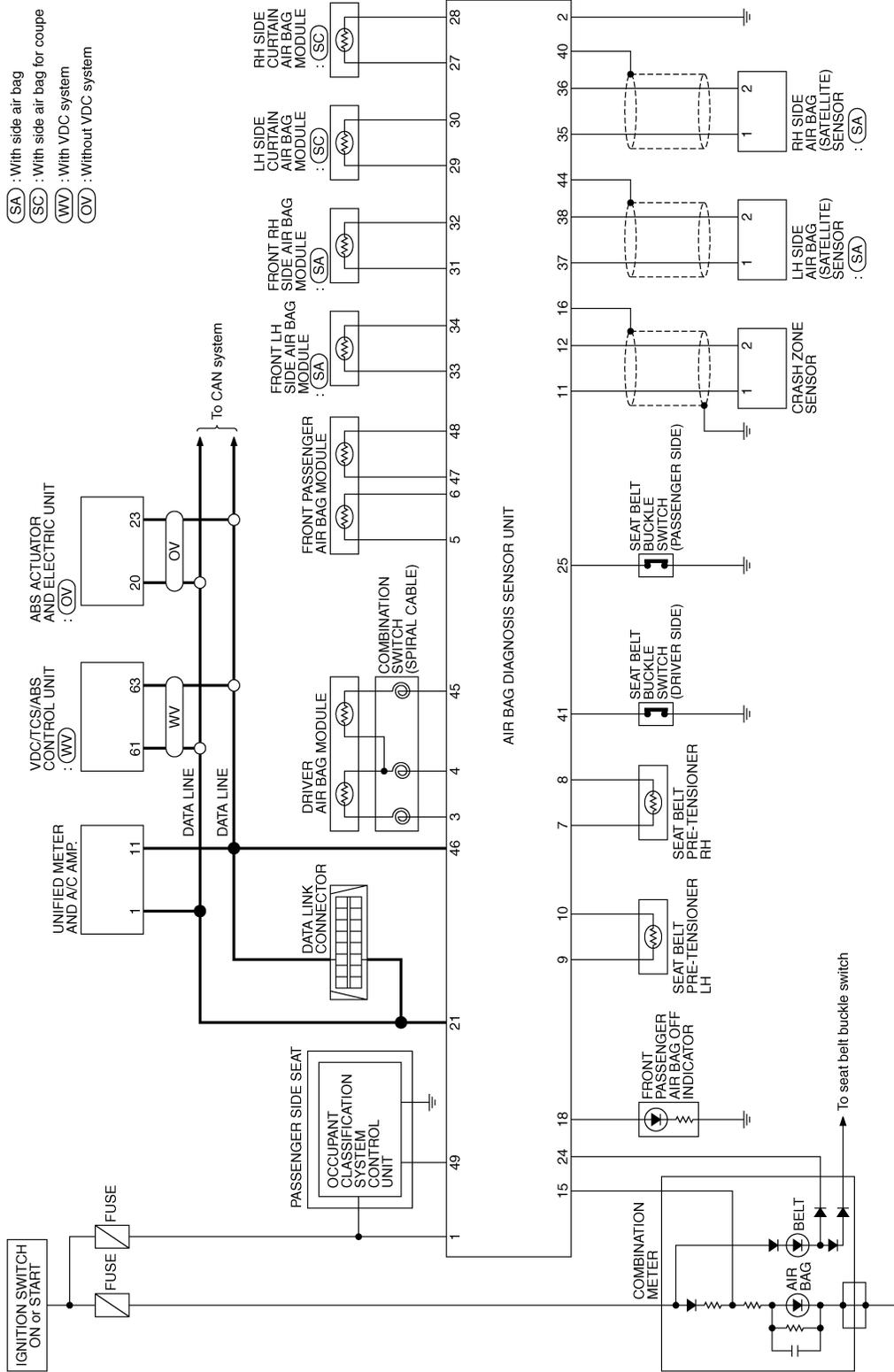
\*: For Coupe

# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >

## Schematic

INFOID:000000004657155



- (SA) : With side air bag
- (SC) : With side air bag for coupe
- (WV) : With VDC system
- (OV) : Without VDC system

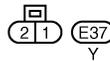
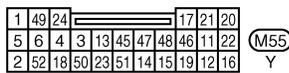
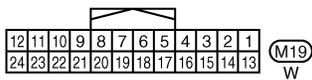
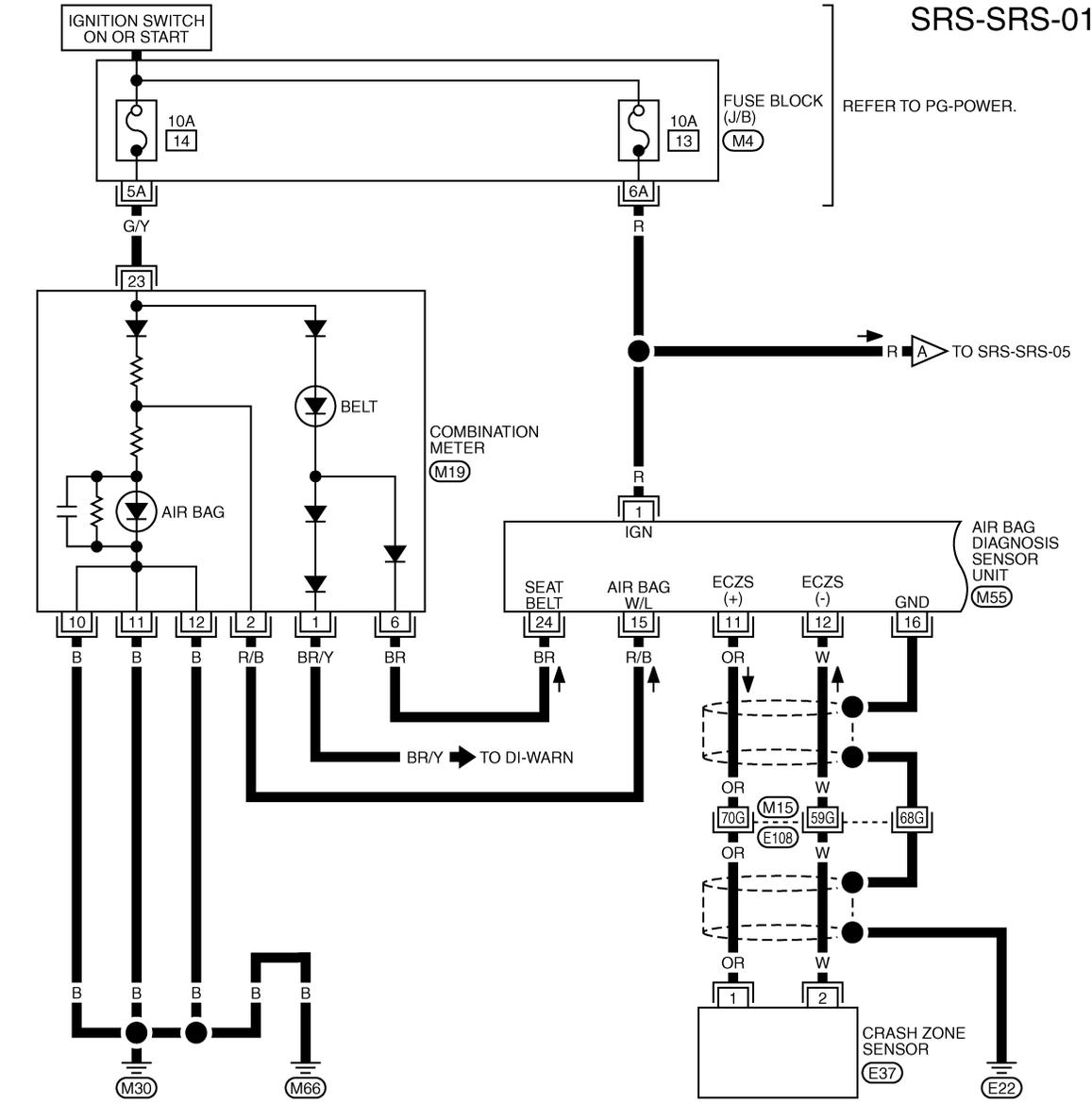
THWT0270E

# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >

## Wiring Diagram - SRS -/For Coupe

INFOID:000000004657156



REFER TO THE FOLLOWING.  
 (E108) -SUPER MULTIPLE JUNCTION (SMJ)  
 (M4) -FUSE BLOCK-JUNCTION BOX (J/B)

THWT0271E

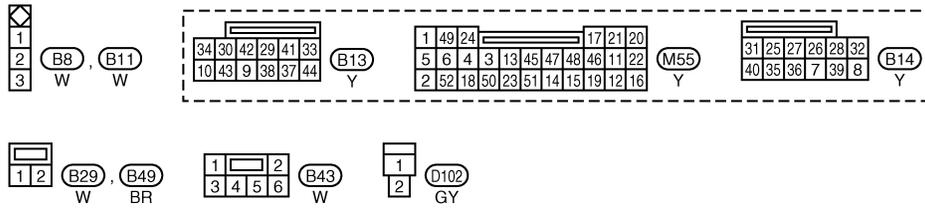
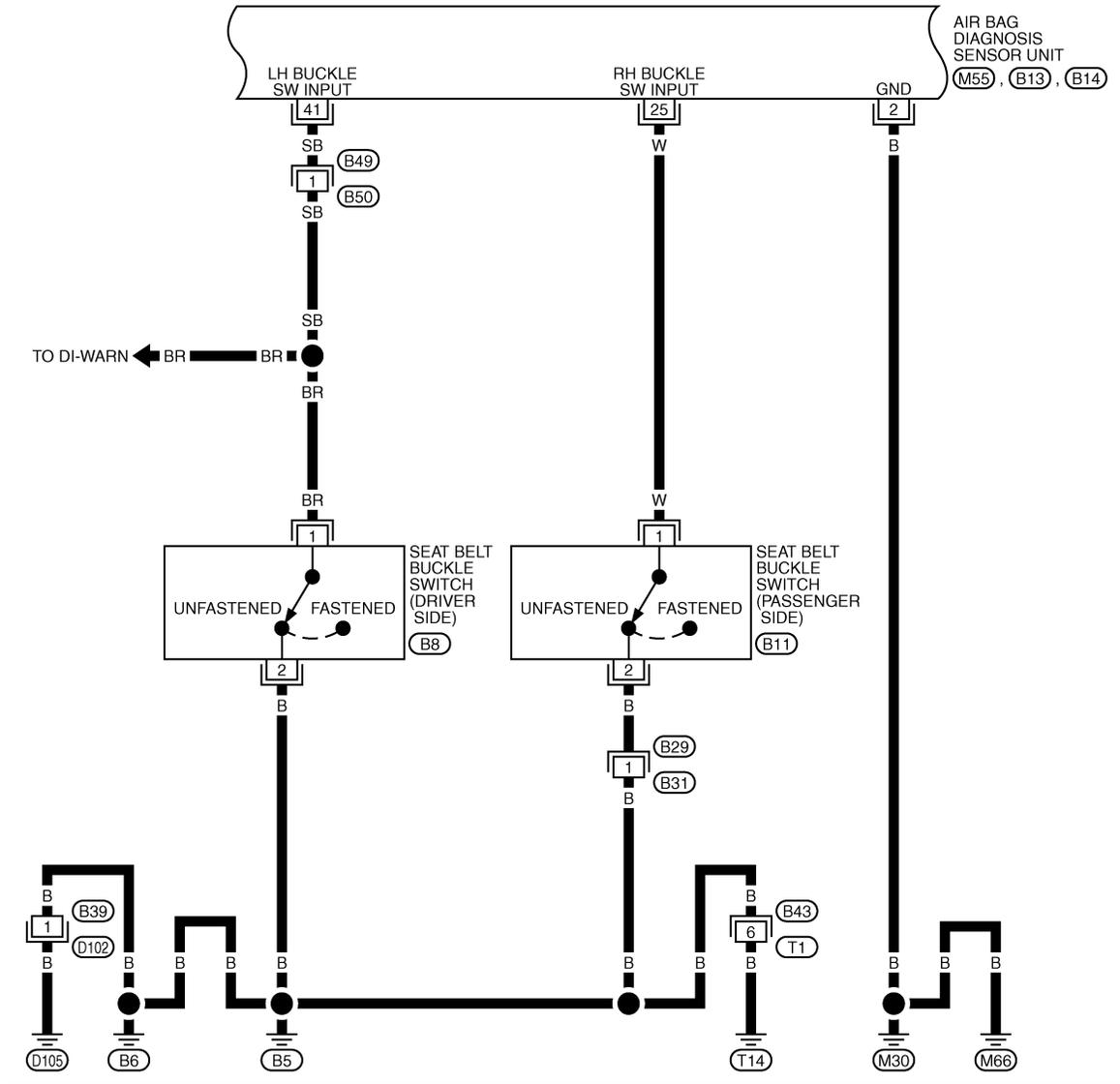
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SRS

# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >

SRS-SRS-02

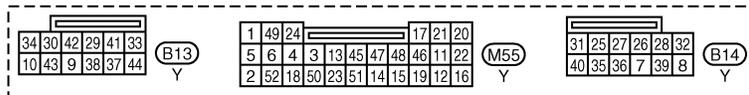
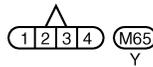
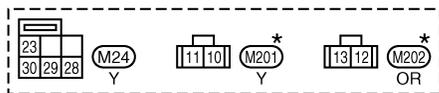
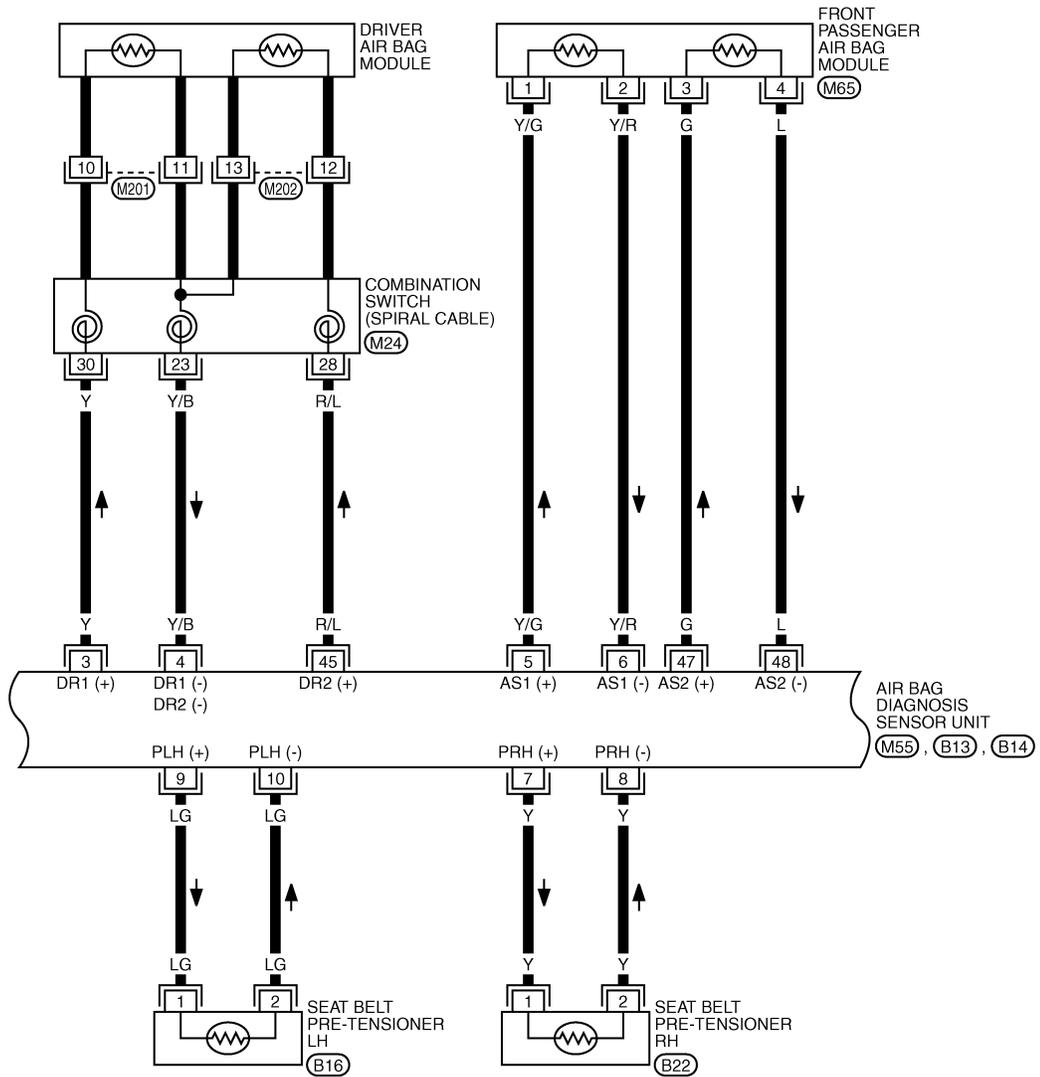


THWT0258E

# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >

SRS-SRS-03



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

THWT0165E

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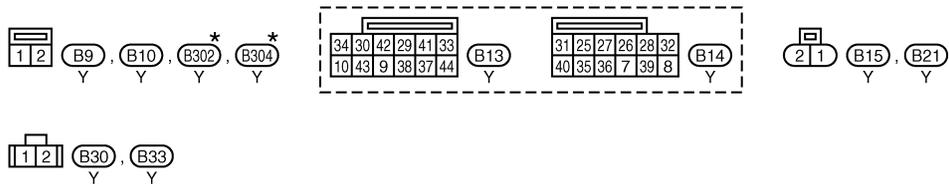
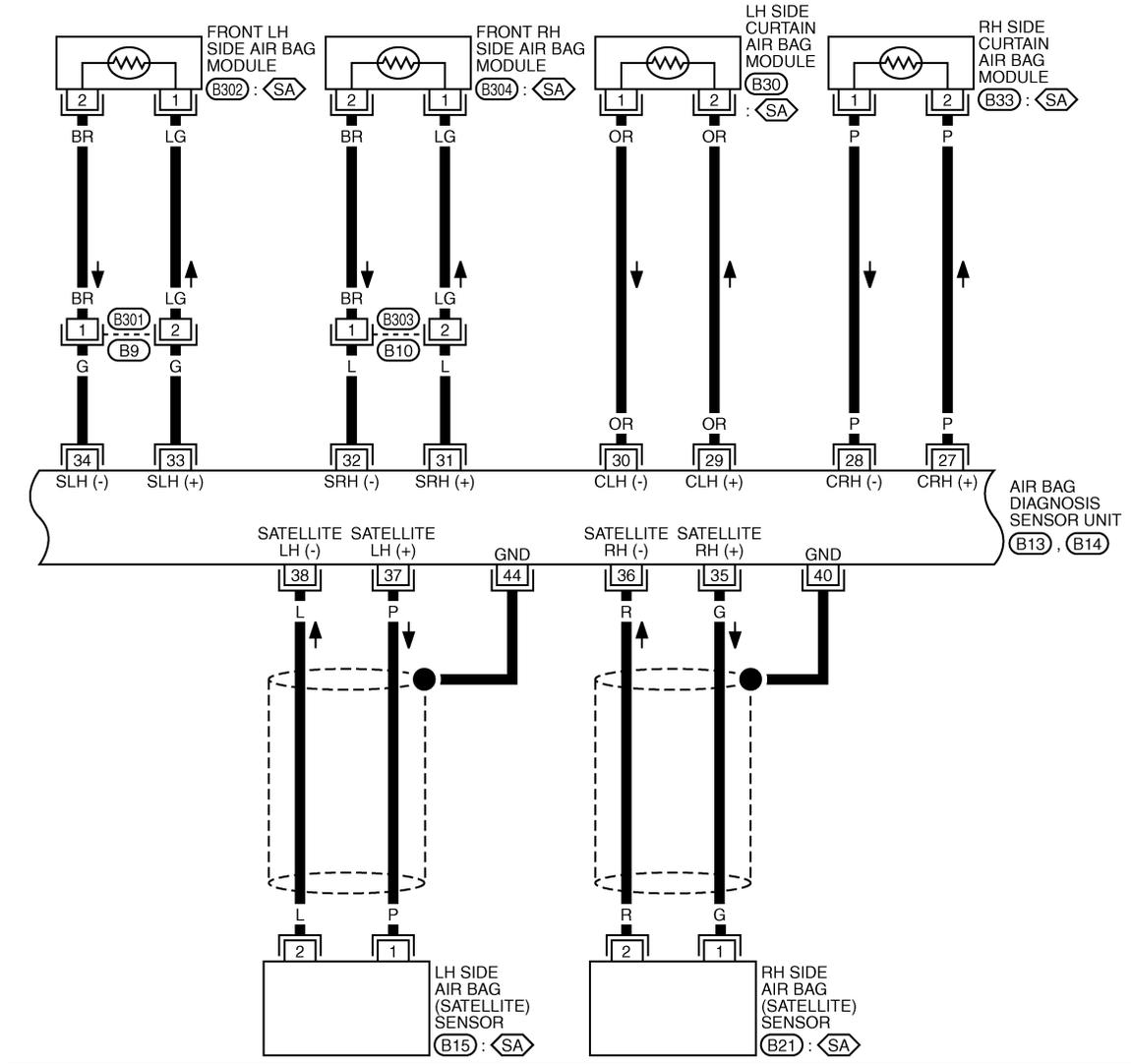
SRS

# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >

## SRS-SRS-04

(SA) : WITH SIDE AIR BAG



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNES LAYOUT", PG SECTION.

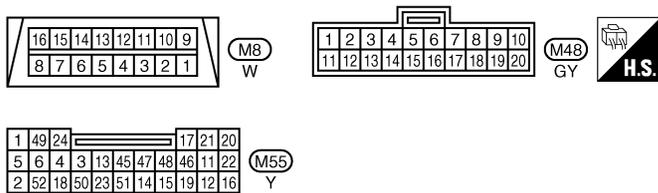
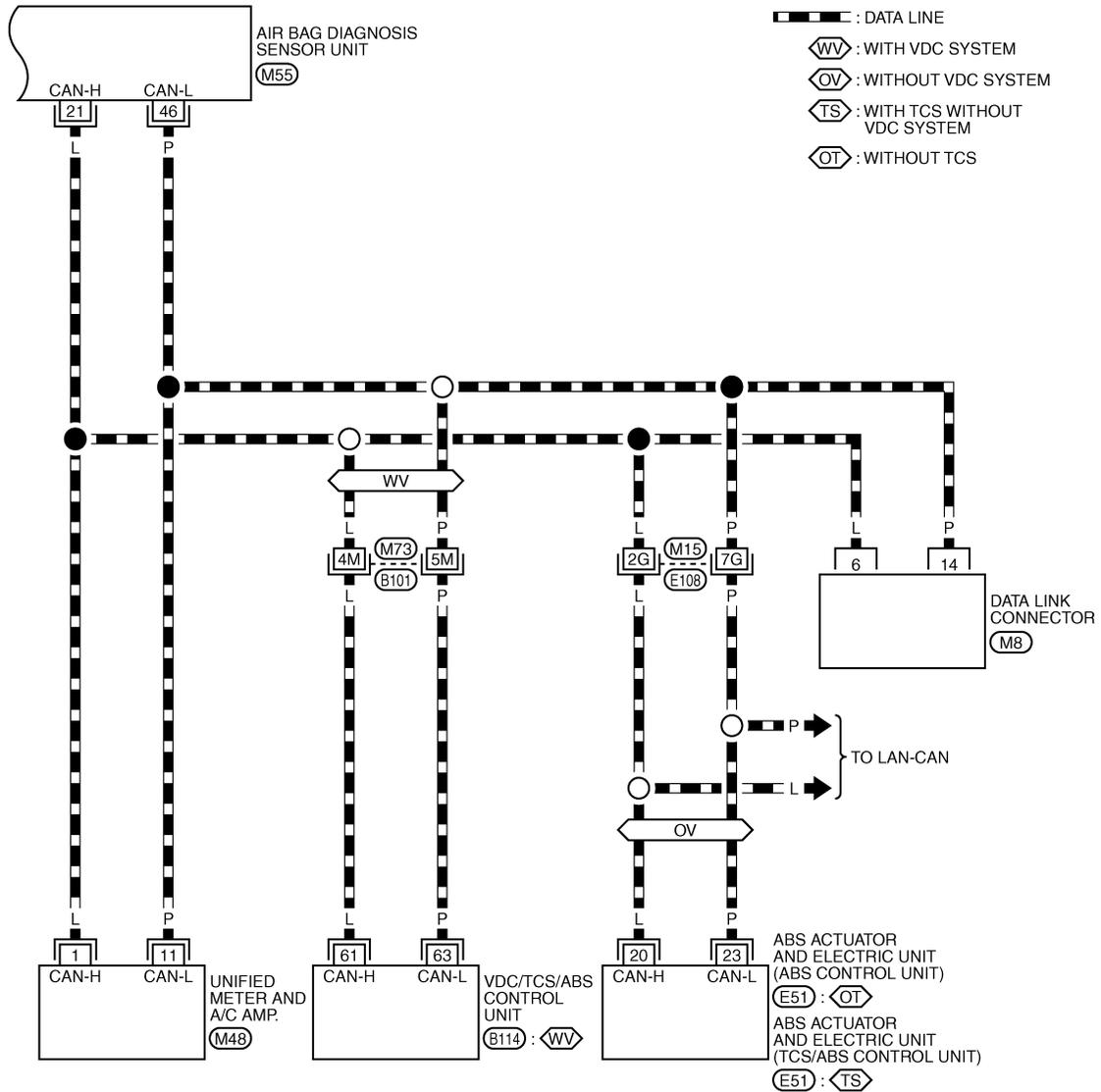
THWT0259E



# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >

SRS-SRS-06



REFER TO THE FOLLOWING.  
 (E108), (B101) -SUPER MULTIPLE JUNCTION (SMJ)  
 (E51), (B114) -ELECTRICAL UNITS

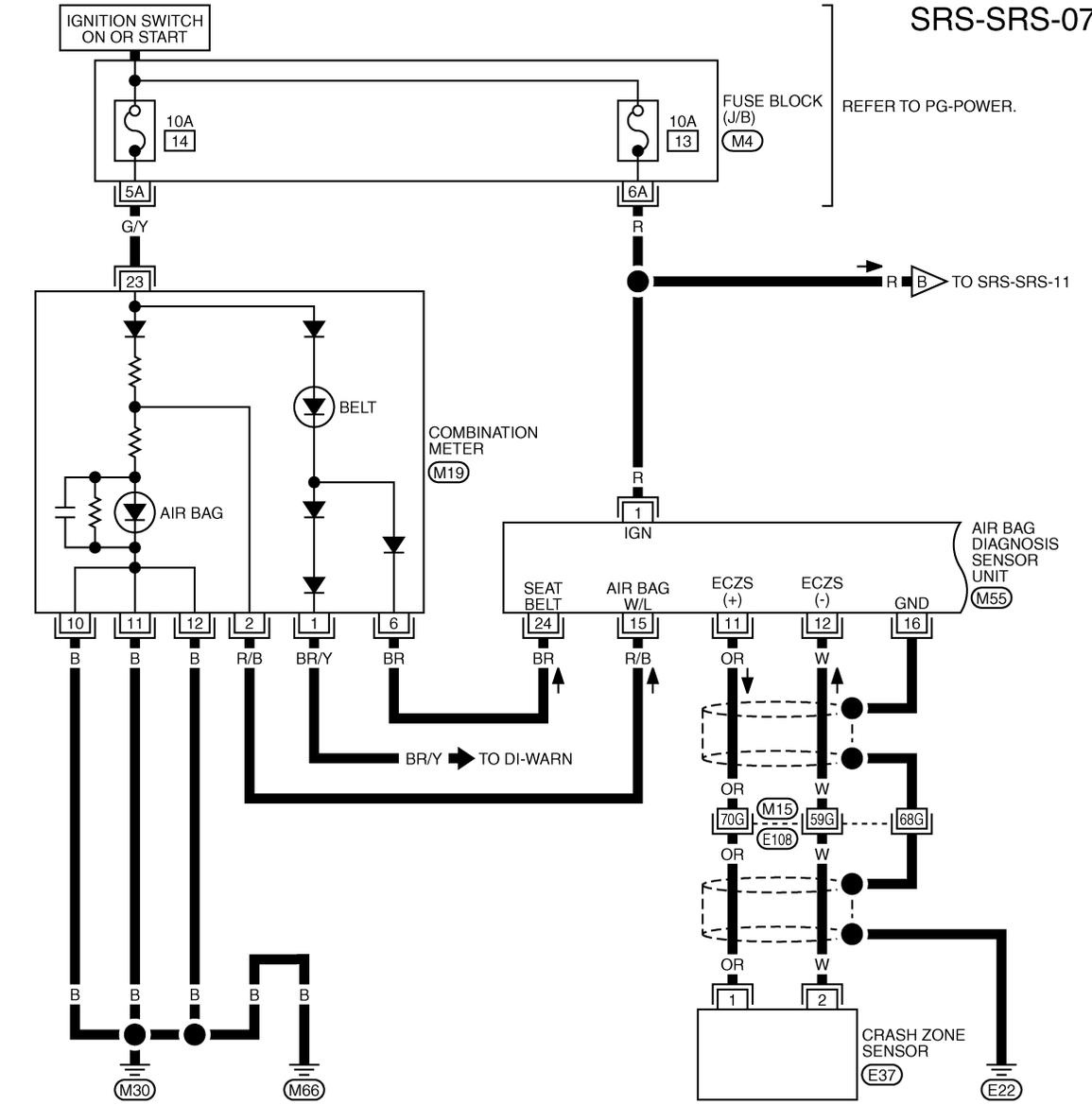
THWT0273E

# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >

## Wiring Diagram - SRS -/For Roadster

INFOID:000000004657157



|    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 12 | 11 | 10 | 9  | 8  | 7  | 6  | 5  | 4  | 3  | 2  | 1  |
| 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 |

(M19) W

|   |    |    |    |    |    |    |    |    |    |    |
|---|----|----|----|----|----|----|----|----|----|----|
| 1 | 49 | 24 |    |    |    |    | 17 | 21 | 20 |    |
| 5 | 6  | 4  | 3  | 13 | 45 | 47 | 48 | 46 | 11 | 22 |
| 2 | 52 | 18 | 50 | 23 | 51 | 14 | 15 | 19 | 12 | 16 |

(M55) Y

|   |   |
|---|---|
| 2 | 1 |
|---|---|

(E37) Y

REFER TO THE FOLLOWING.  
 (E108) -SUPER MULTIPLE JUNCTION (SMJ)  
 (M4) -FUSE BLOCK-JUNCTION BOX (J/B)

THWT0274E

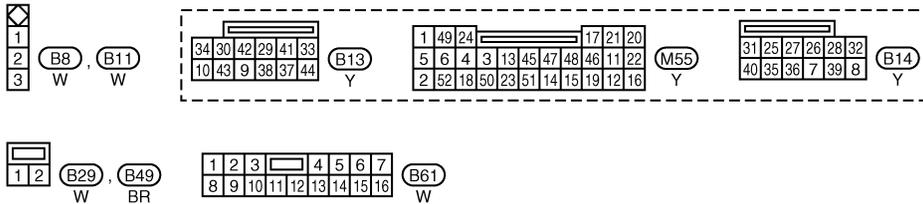
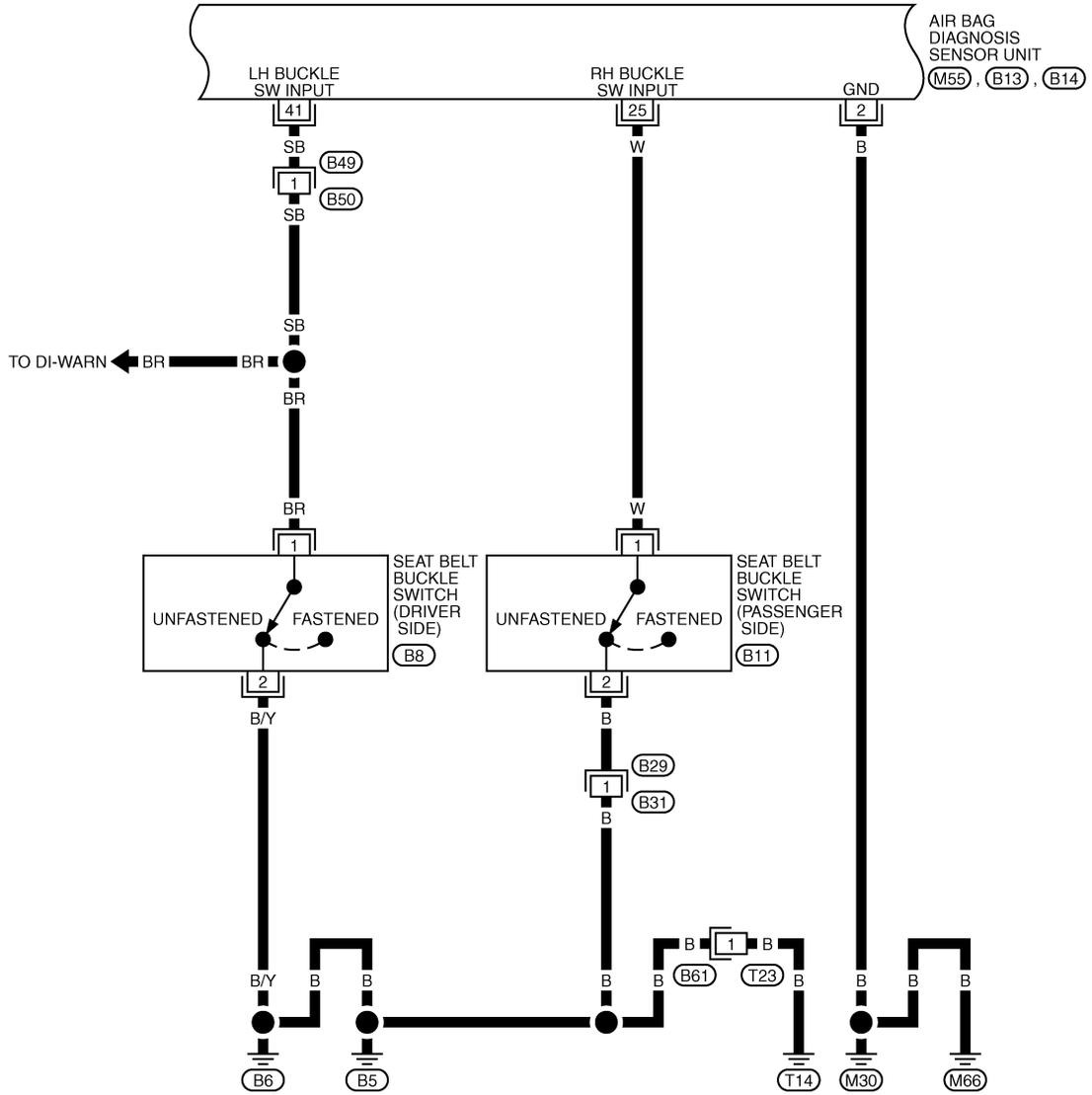
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SRS

# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >

SRS-SRS-08

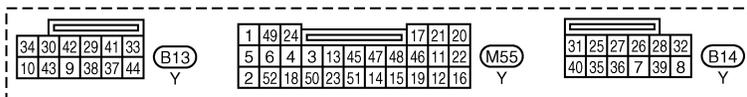
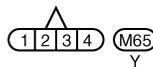
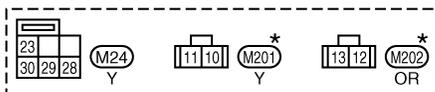
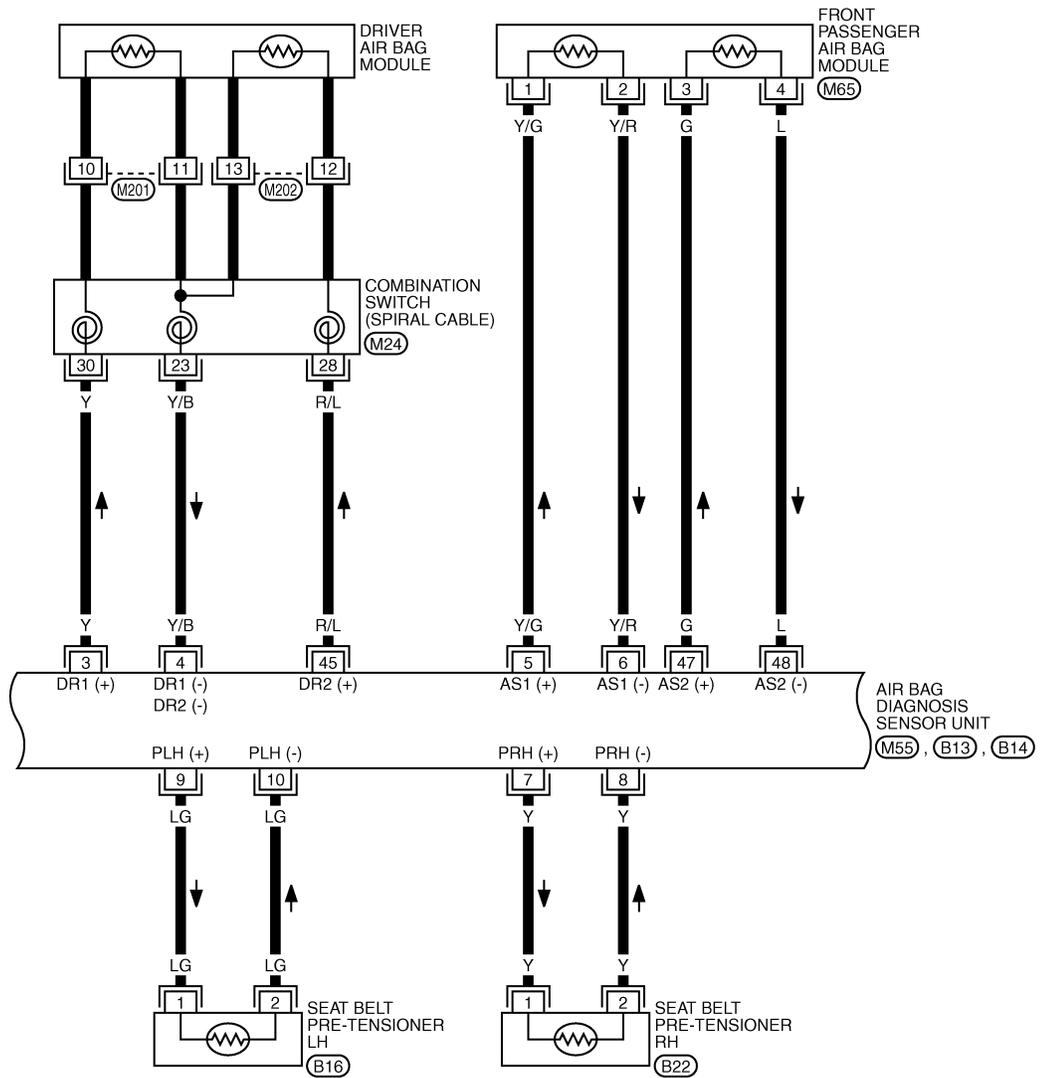


THWT0275E

# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >

SRS-SRS-09



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

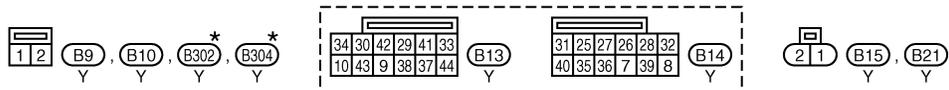
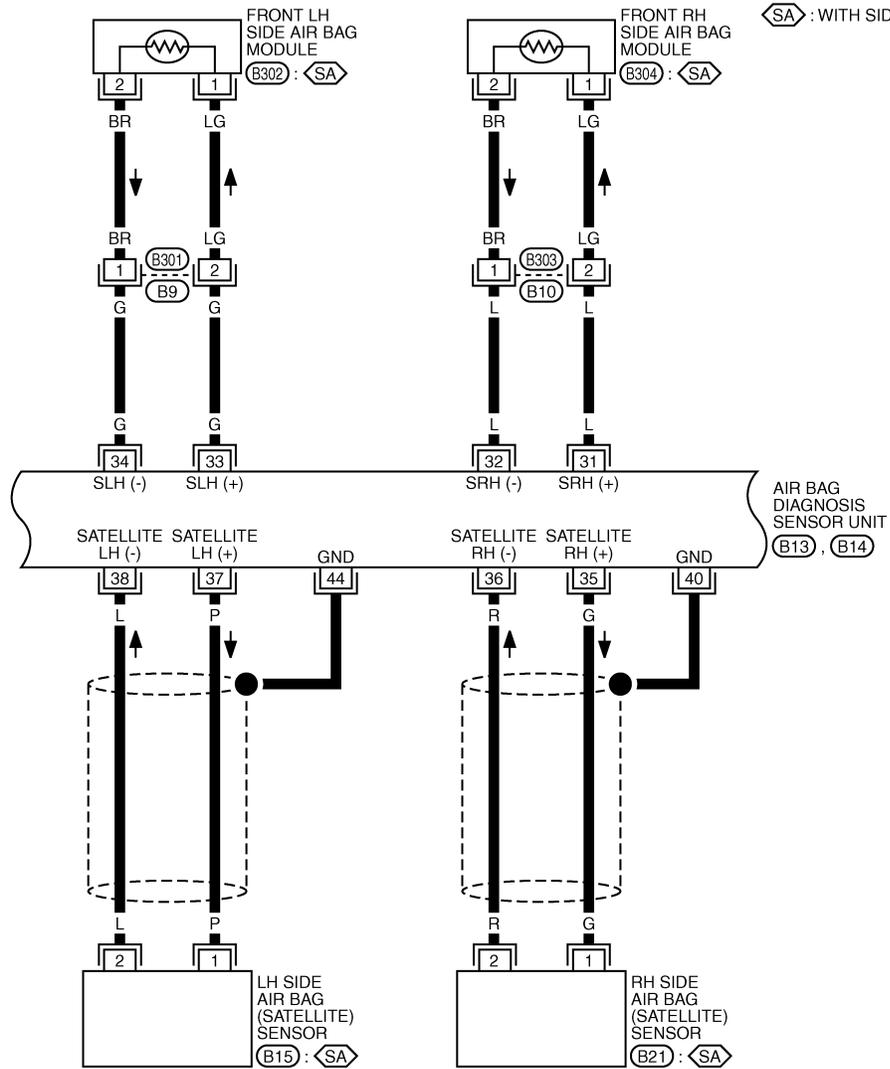
THWT0276E

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# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >

SRS-SRS-10



\*: THIS CONNECTOR IS NOT SHOWN IN "HARNES LAYOUT", PG SECTION.

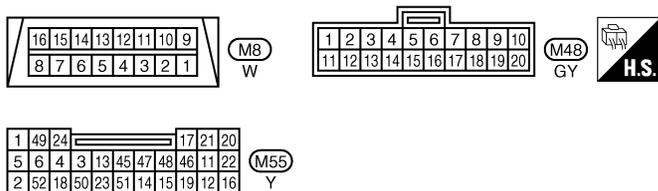
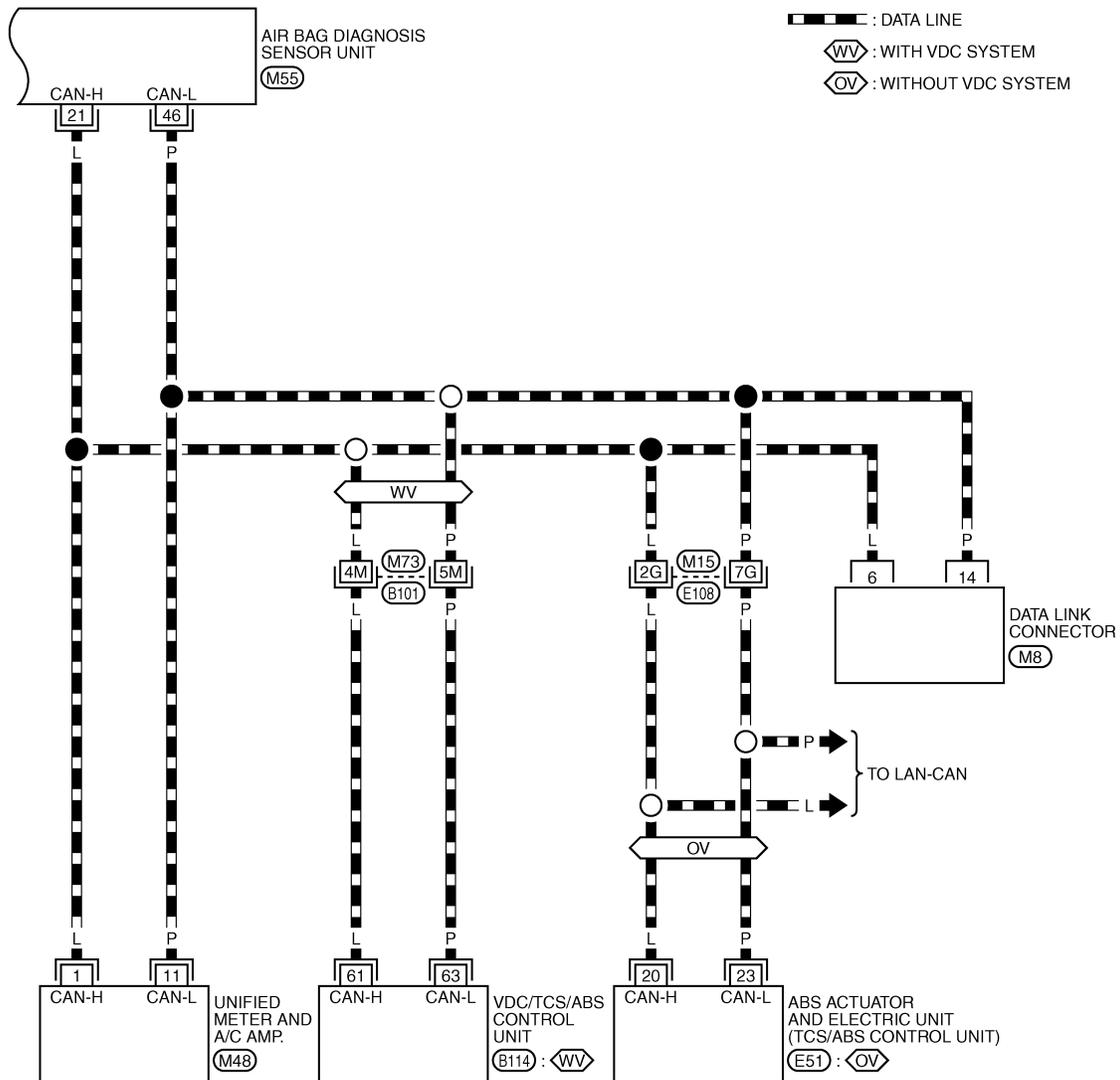
THWT0277E



# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >

SRS-SRS-12



REFER TO THE FOLLOWING.  
 (E108), (B101) -SUPER MULTIPLE JUNCTION (SMJ)  
 (E51), (B114) -ELECTRICAL UNITS

THWT0279E

INFOID:000000004657158

## CONSULT-III Function

### DIAGNOSIS MODE FOR CONSULT-III

- “SELF-DIAG [CURRENT]”  
 A current self-diagnostic results (also indicated by the number of warning lamp flashes in the Diagnosis mode) is displayed on the CONSULT-III screen in real time. This refers to a malfunctioning part requiring repairs.
- “SELF-DIAG [PAST]”

# TROUBLE DIAGNOSIS

## < SERVICE INFORMATION >

Self-diagnostic results previously stored in the memory are displayed on the CONSULT-III screen. The stored results are not erased until memory erasing is performed.

- “TROUBLE DIAG RECORD”  
With TROUBLE DIAG RECORD, diagnostic results previously erased by a reset operation can be displayed on the CONSULT-III screen.
- “ECU DISCRIMINATED NO.”  
Air bag diagnosis sensor unit ECU discriminated number (identification number) is displayed. Air bag diagnosis sensor unit has individual ECU discriminated number (identification number) based on model and equipment.

### HOW TO CHANGE SELF-DIAGNOSIS MODE WITH CONSULT-III

From User Mode to Diagnosis Mode

After selecting “AIR BAG” on the “SELECT SYSTEM” screen, User mode automatically changes to Diagnosis mode.

From Diagnosis Mode to User Mode

To return to User mode from Diagnosis mode, touch “BACK” key of CONSULT-III until “SELECT SYSTEM” appears, then diagnosis mode automatically changes to User mode.

### HOW TO ERASE SELF-DIAGNOSTIC RESULTS

- “SELF-DIAG [CURRENT]”  
A current self-diagnostic result is displayed on the CONSULT-III screen in real time. After the malfunction is repaired completely, no malfunction is detected on “SELF-DIAG [CURRENT]”.
- “SELF-DIAG [PAST]”  
Return to the “SELF-DIAG [CURRENT]” CONSULT-III screen by touching “BACK” key of CONSULT-III and select “SELF-DIAG [CURRENT]” in SELECT DIAG MODE. Touch “ERASE” in “SELF-DIAG [CURRENT]” mode.

#### NOTE:

If the memory of the malfunction in “SELF-DIAG [PAST]” is not erased, the User mode shows the system malfunction by the operation of the warning lamp even if the malfunction is repaired completely.

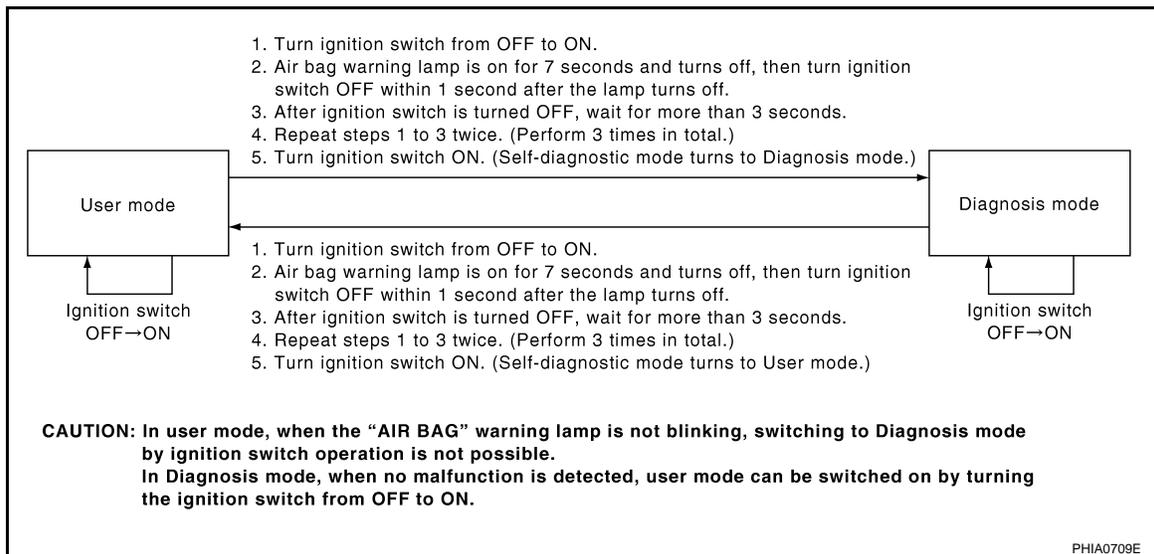
- “TROUBLE DIAG RECORD”  
The memory of “TROUBLE DIAG RECORD” cannot be erased.

### Self-Diagnosis Function (Without CONSULT-III)

INFOID:000000004657159

- The reading of these results is accomplished “User mode” and “Diagnosis mode”.
- After a malfunction is repaired, turn ignition switch ON. Diagnosis mode returns to the User mode. At that time, the self-diagnostic result is cleared.

### HOW TO CHANGE SELF-DIAGNOSTIC MODE WITHOUT CONSULT-III



### HOW TO ERASE SELF-DIAGNOSTIC RESULTS

After a malfunction is repaired, turn the ignition switch OFF for at least one second, then back ON. Diagnosis mode returns to the User mode. At that time, the self-diagnostic results are cleared.

# TROUBLE DIAGNOSIS

< SERVICE INFORMATION >

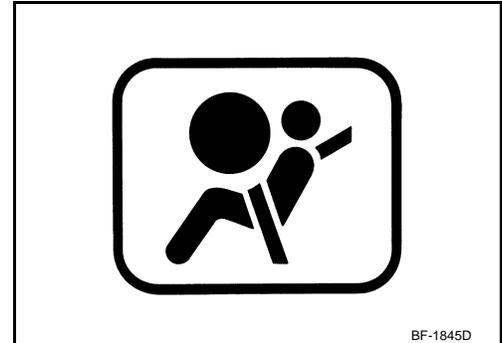
## SRS Operation Check (USER MODE)

INFOID:000000004657160

### DIAGNOSTIC PROCEDURE

Checking Air Bag Operation by Using "AIR BAG" Warning Lamp—User Mode

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

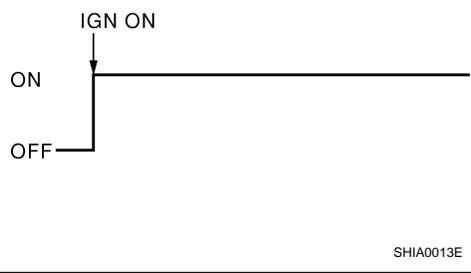
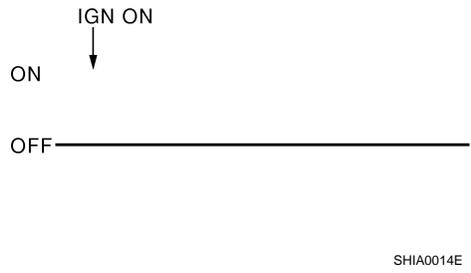
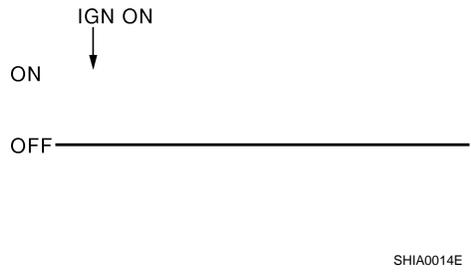


Warning lamp examples

| "AIR BAG" warning lamp operation-User mode- | SRS condition  | Reference item  |
|---|--|---|
| <p>SHIA0011E</p>                            | <ul style="list-style-type: none"> <li>• No malfunction is detected.</li> <li>• No further action is necessary.</li> </ul> | <p>—</p>  |
| <p>SHIA0012E</p>                            | <ul style="list-style-type: none"> <li>• The system is malfunctioning and needs to be repaired as indicated.</li> </ul>    | <p>Go to <a href="#">SRS-33, "Trouble Diagnosis with CONSULT-III"</a> or <a href="#">SRS-37, "Trouble Diagnosis without CONSULT-III"</a>.</p> |

# TROUBLE DIAGNOSIS

## < SERVICE INFORMATION >

| "AIR BAG" warning lamp operation-User mode-  | SRS condition  | Reference item   |
|--|--|--|
|  <p style="text-align: center; font-size: small;">SHIA0013E</p> | <ul style="list-style-type: none"> <li>Air bag is deployed.</li> <li>Seat belt pre-tensioner is deployed.</li> </ul>   | <p>Go to <a href="#">SRS-57, "FOR FRONTAL COLLISION : When SRS is activated in a collision"</a>.</p> |
|  <p style="text-align: center; font-size: small;">SHIA0014E</p> | <ul style="list-style-type: none"> <li>Diagnosis sensor unit is malfunctioning.</li> <li>Air bag power supply circuit is malfunctioning.</li> <li>SRS air bag warning lamp circuit is malfunctioning.</li> </ul> | <p>Go to <a href="#">SRS-40, "Trouble Diagnosis: "AIR BAG" Warning Lamp Does Not Turn OFF"</a>.</p>  |
|  <p style="text-align: center; font-size: small;">SHIA0014E</p> | <ul style="list-style-type: none"> <li>Diagnosis sensor unit is malfunctioning.</li> <li>Air bag warning lamp circuit is malfunctioning.</li> </ul>  | <p>Go to <a href="#">SRS-41, "Trouble Diagnosis: "AIR BAG" Warning Lamp Does Not Turn ON"</a>.</p>   |

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SRS

## Trouble Diagnosis with CONSULT-III

INFOID:000000004657161

### DIAGNOSTIC PROCEDURE

| Diagnosis mode        | Description  |
|-----------------------|--|
| SELF-DIAG RESULT      | The self-diagnosis result is displayed. (SELF-DIAG [CURRENT], [PAST], [RECORRD]). Refer to "DTC No. Index ("SELF-DIAG [CURRENT]" "SELF-DIAG [PAST]" or TROUBLE DIAG RECORD )". |
| ECU DISCRIMINATED No. | The parts number of diagnosis sensor unit is displayed.  |

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### DTC No. Index ("SELF-DIAG [CURRENT]" "SELF-DIAG [PAST]" or TROUBLE DIAG RECORD )

| Diagnostic item                                       | Explanation   | Repair order<br>"Recheck SRS at each replacement" |
|---|---|---|
| NO DTC IS DETECTED.                                   | When malfunction is indicated by the "AIR BAG" warning lamp in User mode. <ul style="list-style-type: none"> <li>Low battery voltage (Less than 9V)</li> <li>Self-diagnostic results "SELF-DIAG [PAST]" (previously stored in the memory) might not be erased after repair.</li> <li>Intermittent malfunction has been detected in the past.</li> </ul> | —   |
|   | <ul style="list-style-type: none"> <li>No malfunction is detected.</li> </ul>   | —   |
| CONTROL UNIT [B1001-B1015]                            | <ul style="list-style-type: none"> <li>Diagnosis sensor unit is malfunctioning.</li> </ul>  | Replace diagnosis sensor unit.                    |
| OCCUPANT SENS C/U [UNIT FAIL] [B1017] [B1020] [B1021] | <ul style="list-style-type: none"> <li>Trouble occurs in Occupant Classification System-CU.</li> </ul>  | Replace passenger side seat cushion assembly.     |

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# TROUBLE DIAGNOSIS

## < SERVICE INFORMATION >

| Diagnostic item   | Explanation   | Repair order<br>"Recheck SRS at each replacement"   |
|---|---|---|
| OCCUPANT SENS<br>[UNIT FAIL]<br>[B1018]   | <ul style="list-style-type: none"> <li>• Trouble occurs in Occupant Classification System-SENS.</li> </ul>  | Replace passenger side seat cushion assembly.   |
| OCCUPANT SENS C/U<br>[COMM FAIL]<br>[B1022]   | <ul style="list-style-type: none"> <li>• Trouble occurs in Occupant Classification System-CU, circuit of Occupant Classification System-CU—Diagnosis Sensor Unit or Diagnosis Sensor Unit.</li> </ul> | <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace passenger side seat cushion assembly.</li> <li>4. Replace the diagnosis sensor unit.</li> </ol> |
| PASS A/B INDCTR CKT<br>[B1023]  | <ul style="list-style-type: none"> <li>• Cutoff telltale circuit is open or shorted to grand or the circuits are shorted each other.</li> </ul>   | <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace cutoff telltale.</li> <li>4. Replace the diagnosis sensor unit.</li> </ol>                      |
| CONTROL UNIT<br>[B1026-B1031]   | <ul style="list-style-type: none"> <li>• Diagnosis sensor unit is malfunctioning.</li> </ul>  | Replace diagnosis sensor unit.  |
| CRASH ZONE SEN<br>[UNIT FAIL]<br>[B1033]<br>[B1034]<br>CRASH ZONE SEN<br>[COMM FAIL]<br>[B1035]<br>CRASH ZONE SEN<br>[UNMATCH]<br>[B1036]<br><br>[OPEN/UPR-VB-SHORT]<br>[B1038]<br><br>[SHORT/UPR-GND-SHORT]<br>[B1040] | <ul style="list-style-type: none"> <li>• Crash zone sensor</li> </ul>   | <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace the crash zone sensor.</li> <li>4. Replace the diagnosis sensor unit.</li> </ol>                |
| CONTROL UNIT<br>[B1042-B1047]   | <ul style="list-style-type: none"> <li>• Diagnosis sensor unit is malfunctioning.</li> </ul>  | Replace diagnosis sensor unit.  |
| DRIVER AIRBAG MOD-<br>ULE<br>[OPEN]<br>[B1049] [B1054]  | <ul style="list-style-type: none"> <li>• Driver air bag module circuit is open (including the spiral cable).</li> </ul>   | <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> </ol>  |
| DRIVER AIRBAG MOD-<br>ULE<br>[VB-SHORT]<br>[B1050] [B1055]  | <ul style="list-style-type: none"> <li>• Driver air bag module circuit is shorted to a power supply circuit (including the spiral cable).</li> </ul>  | <ol style="list-style-type: none"> <li>3. Replace driver air bag module.</li> <li>4. Replace the spiral cable.</li> <li>5. Replace the diagnosis sensor unit.</li> </ol>  |
| DRIVER AIRBAG MOD-<br>ULE<br>[GND-SHORT]<br>[B1051] [B1056]   | <ul style="list-style-type: none"> <li>• Driver air bag module circuit is shorted to ground (including the spiral cable).</li> </ul>  |   |
| DRIVER AIRBAG MOD-<br>ULE<br>[SHORT]<br>[B1052] [B1057]   | <ul style="list-style-type: none"> <li>• Driver air bag module circuit is shorted between lines.</li> </ul>   |   |

# TROUBLE DIAGNOSIS

## < SERVICE INFORMATION >

| Diagnostic item  | Explanation  | Repair order<br>"Recheck SRS at each replacement"   | A   |
|--|--|---|-----|
| CONTROL UNIT<br>[B1058-B1063]  | <ul style="list-style-type: none"> <li>Diagnosis sensor unit is malfunctioning.</li> </ul>                                     | Replace diagnosis sensor unit.  | A   |
| ASSIST A/B MODULE<br>[VB-SHORT]<br>[B1065] [B1070]   | <ul style="list-style-type: none"> <li>Front passenger air bag module circuit is shorted to a power supply circuit.</li> </ul> | <ol style="list-style-type: none"> <li>Visually check the wiring harness connection.</li> <li>Replace the harness if it has visible damage.</li> <li>Replace front passenger air bag module.</li> <li>Replace the diagnosis sensor unit.</li> </ol>         | B   |
| ASSIST A/B MODULE<br>[OPEN]<br>[B1066] [B1071]   | <ul style="list-style-type: none"> <li>Front passenger air bag module circuit is open.</li> </ul>                              |   | C   |
| ASSIST A/B MODULE<br>[GND-SHORT]<br>[B1067] [B1072]  | <ul style="list-style-type: none"> <li>Front passenger air bag module circuit is shorted to ground.</li> </ul>                 |   | D   |
| ASSIST A/B MODULE<br>[SHORT]<br>[B1068] [B1073]  | <ul style="list-style-type: none"> <li>Front passenger air bag module circuit is shorted between lines.</li> </ul>             |   | E   |
| CONTROL UNIT<br>[B1074-B1079]  | <ul style="list-style-type: none"> <li>Diagnosis sensor unit is malfunctioning.</li> </ul>                                     | Replace diagnosis sensor unit.  | F   |
| PRE-TEN FRONT RH<br>[OPEN]<br>[B1081]  | <ul style="list-style-type: none"> <li>Front RH pre-tensioner circuit is shorted to a power supply circuit.</li> </ul>         | <ol style="list-style-type: none"> <li>Visually check the wiring harness connections.</li> <li>Replace the harness if it has visible damage.</li> <li>Replace front RH seat belt.</li> <li>Replace the diagnosis sensor unit.</li> </ol>                    | G   |
| PRE-TEN FRONT RH<br>[VB-SHORT]<br>[B1082]  | <ul style="list-style-type: none"> <li>Front RH pre-tensioner is shorted to a power supply circuit.</li> </ul>                 |   | SRS |
| PRE-TEN FRONT RH<br>[GND-SHORT]<br>[B1083]   | <ul style="list-style-type: none"> <li>Front RH pre-tensioner circuit is shorted to ground.</li> </ul>                         |   | I   |
| PRE-TEN FRONT RH<br>[SHORT]<br>[B1084]   | <ul style="list-style-type: none"> <li>Front RH pre-tensioner circuit is shorted between lines.</li> </ul>                     |   | J   |
| PRE-TEN FRONT LH<br>[OPEN]<br>[B1086]  | <ul style="list-style-type: none"> <li>Front LH pre-tensioner circuit is open.</li> </ul>                                      | <ol style="list-style-type: none"> <li>Visually check the wiring harness connections.</li> <li>Replace the harness if it has visible damage.</li> <li>Replace front LH seat belt.</li> <li>Replace the diagnosis sensor unit.</li> </ol>                    | K   |
| PRE-TEN FRONT LH<br>[VB-SHORT]<br>[B1087]  | <ul style="list-style-type: none"> <li>Front LH pre-tensioner circuit is shorted to a power supply circuit.</li> </ul>         |   | L   |
| PRE-TEN FRONT LH<br>[GND-SHORT]<br>[B1088]   | <ul style="list-style-type: none"> <li>Front LH pre-tensioner circuit is shorted to ground.</li> </ul>                         |   | M   |
| PRE-TEN FRONT LH<br>[SHORT]<br>[B1089]   | <ul style="list-style-type: none"> <li>Front LH pre-tensioner circuit is shorted between lines.</li> </ul>                     |   | N   |
| CONTROL UNIT<br>[B1106-B1111]  | <ul style="list-style-type: none"> <li>Diagnosis sensor unit is malfunctioning.</li> </ul>                                     | Replace diagnosis sensor unit.  | O   |
| SATELLITE SENS RH<br>[UNIT FAIL]<br>[B1113]<br>[B1114]<br>SATELLITE SENS RH<br>[COMM FAIL]<br>[B1115]<br>SATELLITE SENS RH<br>[UNMATCH]<br>[B1116] | <ul style="list-style-type: none"> <li>RH side air bag (Satellite) sensor</li> </ul>   | <ol style="list-style-type: none"> <li>Visually check the wiring harness connection.</li> <li>Replace the harness if it has visible damage.</li> <li>Replace the RH side air bag (Satellite) sensor.</li> <li>Replace the diagnosis sensor unit.</li> </ol> | P   |

# TROUBLE DIAGNOSIS

## < SERVICE INFORMATION >

| Diagnostic item  | Explanation   | Repair order<br>"Recheck SRS at each replacement"   |
|--|---|---|
| SATELLITE SENS LH<br>[UNIT FAIL]<br>[B1118]<br>[B1119]<br>SATELLITE SENS LH<br>[COMM FAIL]<br>[B1120]<br>SATELLITE SENS LH<br>[UNMATCH]<br>[B1121] | <ul style="list-style-type: none"> <li>LH side air bag (Satellite) sensor</li> </ul>  | <ol style="list-style-type: none"> <li>Visually check the wiring harness connection.</li> <li>Replace the harness if it has visible damage.</li> <li>Replace the LH side air bag (Satellite) sensor.</li> <li>Replace the diagnosis sensor unit.</li> </ol> |
| CONTROL UNIT<br>[B1122-B1127]  | <ul style="list-style-type: none"> <li>Diagnosis sensor unit is malfunctioning.</li> </ul>                                      | Replace diagnosis sensor unit.  |
| SIDE MODULE RH<br>[OPEN]<br>[B1129]  | <ul style="list-style-type: none"> <li>Front RH side air bag module circuit is open.</li> </ul>                                 | <ol style="list-style-type: none"> <li>Visually check the wiring harness connection.</li> <li>Replace the harness if it has visible damage.</li> </ol>  |
| SIDE MODULE RH<br>[VB-SHORT]<br>[B1130]  | <ul style="list-style-type: none"> <li>Front RH side air bag module circuit is shorted to some power supply circuit.</li> </ul> | <ol style="list-style-type: none"> <li>Replace front RH side air bag module.</li> <li>Replace the diagnosis sensor unit.</li> </ol>   |
| SIDE MODULE RH<br>[GND-SHORT]<br>[B1131]   | <ul style="list-style-type: none"> <li>Front RH side air bag module circuit is shorted to ground.</li> </ul>                    |   |
| SIDE MODULE RH<br>[SHORT]<br>[B1132]   | <ul style="list-style-type: none"> <li>Front RH side air bag module circuit is shorted between lines.</li> </ul>                |   |
| SIDE MODULE LH<br>[OPEN]<br>[B1134]  | <ul style="list-style-type: none"> <li>Front LH side air bag module circuit is open.</li> </ul>                                 | <ol style="list-style-type: none"> <li>Visually check the wiring harness connection.</li> <li>Replace the harness if it has visible damage.</li> </ol>  |
| SIDE MODULE LH<br>[VB-SHORT]<br>[B1135]  | <ul style="list-style-type: none"> <li>Front LH side air bag module circuit is shorted to a power supply circuit.</li> </ul>    | <ol style="list-style-type: none"> <li>Replace front LH side air bag module.</li> <li>Replace the diagnosis sensor unit.</li> </ol>   |
| SIDE MODULE LH<br>[GND-SHORT]<br>[B1136]   | <ul style="list-style-type: none"> <li>Front LH side air bag module circuit is shorted to ground.</li> </ul>                    |   |
| SIDE MODULE LH<br>[SHORT]<br>[B1137]   | <ul style="list-style-type: none"> <li>Front LH side air bag module circuit is shorted between lines.</li> </ul>                |   |
| CONTROL UNIT<br>[B1138-B1143]  | <ul style="list-style-type: none"> <li>Diagnosis sensor unit is malfunctioning.</li> </ul>                                      | Replace diagnosis sensor unit.  |
| CURTAIN MODULE RH*<br>[OPEN]<br>[B1145]  | <ul style="list-style-type: none"> <li>RH side curtain air bag module circuit is open.</li> </ul>                               | <ol style="list-style-type: none"> <li>Visually check the wiring harness connection.</li> <li>Replace the harness if it has visible damage.</li> </ol>  |
| CURTAIN MODULE RH*<br>[VB-SHORT]<br>[B1146]  | <ul style="list-style-type: none"> <li>RH side curtain air bag module circuit is shorted to a power supply circuit.</li> </ul>  | <ol style="list-style-type: none"> <li>Replace RH side curtain air bag module.</li> <li>Replace the diagnosis sensor unit.</li> </ol>   |
| CURTAIN MODULE RH*<br>[GND-SHORT]<br>[B1147]   | <ul style="list-style-type: none"> <li>RH side curtain air bag module circuit is shorted to ground.</li> </ul>                  |   |
| CURTAIN MODULE RH*<br>[SHORT]<br>[B1148]   | <ul style="list-style-type: none"> <li>RH side curtain air bag module circuit is shorted between lines.</li> </ul>              |   |

# TROUBLE DIAGNOSIS

## < SERVICE INFORMATION >

| Diagnostic item                              | Explanation  | Repair order<br>"Recheck SRS at each replacement"   |
|--|--|---|
| CURTAIN MODULE LH*<br>[OPEN]<br>[B1150]      | • LH side curtain air bag module circuit is open.                                  | 1. Visually check the wiring harness connection.<br>2. Replace the harness if it has visible damage.<br>3. Replace LH side curtain air bag module.<br>4. Replace the diagnosis sensor unit. |
| CURTAIN MODULE LH*<br>[VB-SHORT]<br>[B1151]  | • LH side curtain air bag module circuit is shorted to some power supply circuits. |   |
| CURTAIN MODULE LH*<br>[GND-SHORT]<br>[B1152] | • LH side curtain air bag module circuit is shorted to ground.                     |   |
| CURTAIN MODULE LH*<br>[SHORT]<br>[B1153]     | • LH side curtain air bag module circuit is shorted between lines.                 |   |
| CONTROL UNIT<br>[B1202-B1207]                | • Diagnosis sensor unit is malfunctioning.   | Replace the diagnosis sensor unit.  |
| FRONTAL COLLISION DETECTION<br>[B1209]       | • Seat belt pre-tensioner and front air bag are deployed.                          | Go to <a href="#">SRS-57, "FOR FRONTAL COLLISION : When SRS is activated in a collision"</a> .  |
| SIDE COLLISION DETECTION<br>[B1210]          | • Side air bag and curtain air bag is deployed.                                    | Go to <a href="#">SRS-59, "FOR SIDE AND ROLL-OVER COLLISION : When SRS is activated in a collision"</a> .   |

\*: For coupe

### NOTE:

Follow the procedures in numerical order when repairing malfunctioning parts. Confirm whether malfunction is eliminated using air bag warning lamp or CONSULT-III 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.

## Trouble Diagnosis without CONSULT-III

INFOID:000000004657162

### DIAGNOSTIC PROCEDURE

Inspecting SRS Malfunctioning Parts by Using "AIR BAG" Warning Lamp — Diagnosis Mode

### NOTE:

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

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

SRS is now in Diagnosis mode.

"AIR BAG" warning lamp operates in Diagnosis mode as follows:

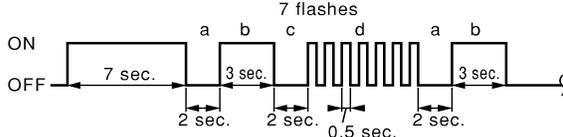
### WARNING LAMP FLASH CODE CHART

| Flash pattern   | Repair order   |
|---|--|
| <p>&lt;Diagnosis results (previously stored in the memory) might not be erased after repair or intermittent malfunctions have been detected in the past.&gt;</p> <p>a through b are repeated.</p> | <ol style="list-style-type: none"> <li>1. Erase memory. (Once key switch is turned from OFF to ON, TROUBLE DIAG RECORD will be erased.)</li> </ol> |

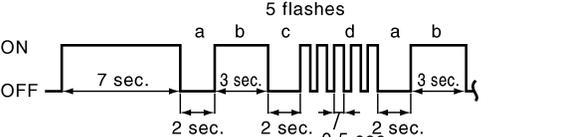
PHIA0532E

# TROUBLE DIAGNOSIS

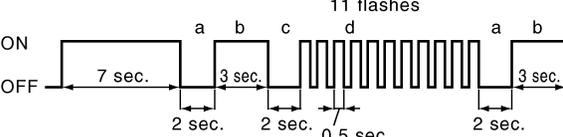
## < SERVICE INFORMATION >

| <Diagnosis sensor unit>  |   |
|--|---|
| Flash pattern  | Repair order  |
| <p>a through d are repeated.<br/>d: Seven flashes indicate malfunctioning diagnosis sensor unit circuit.</p>  | <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connections.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace the diagnosis sensor unit.</li> <li>4. Replace the related harness.</li> </ol> |

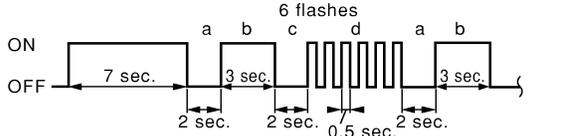
SHIA0028E

| <Occupant classification system>   |  |
|--|--|
| Flash pattern  | Repair order   |
| <p>a through d are repeated.<br/>d: Five flashes indicate malfunctioning OCS control unit.</p>  | <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace front passenger seat cushion and occupant classification system control unit as an assembly.</li> <li>4. Replace the diagnosis sensor unit.</li> </ol> |

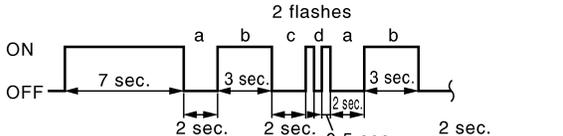
PHIA1242E

| <Front passenger air bag off indicator>   |  |
|---|--|
| Flash pattern   | Repair order   |
| <p>a through d are repeated.<br/>d: Eleven flashes indicate malfunctioning front passenger air bag off indicator.</p>  | <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace front passenger air bag off indicator unit.</li> <li>4. Replace the diagnosis sensor unit.</li> <li>5. Replace the related harness.</li> </ol> |

PHIA1243E

| <Crash zone sensor>  |   |
|--|---|
| Flash pattern  | Repair order  |
| <p>a through d are repeated.<br/>d: Six flashes indicate malfunctioning crash zone sensor circuit.</p>  | <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace the crash zone sensor.</li> <li>4. Replace the diagnosis sensor unit.</li> <li>5. Replace the related harness.</li> </ol> |

SHIA0083E

| <Driver air bag module>  |   |
|--|---|
| Flash pattern  | Repair order  |
| <p>a through d are repeated.<br/>d: Two flashes indicate malfunctioning driver air bag module circuit.</p>  | <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace the spiral cable.</li> <li>4. Replace the related harness.</li> </ol> |

PHIA1233E

# TROUBLE DIAGNOSIS

## < SERVICE INFORMATION >

|   |   |
|---|---|
| <Front passenger air bag module>  |   |
| <p><b>Flash pattern</b></p> <p>a through d are repeated.<br/>d: Eight flashes indicate malfunctioning front passenger air bag module circuit.</p>     | <p><b>Repair order</b></p> <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace the related harness.</li> </ol>  |
| PHIA1234E   |   |
| <Front RH seat belt pre-tensioner>  |   |
| <p><b>Flash pattern</b></p> <p>a through d are repeated.<br/>d: One flash indicates malfunctioning front RH seat belt pre-tensioner circuit.</p>      | <p><b>Repair order</b></p> <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connections.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace the related harness.</li> </ol>   |
| PHIA1235E   |   |
| <Front LH seat belt pre-tensioner>  |   |
| <p><b>Flash pattern</b></p> <p>a through d are repeated.<br/>d: Three flashes indicate malfunctioning front LH seat belt pre-tensioner circuit.</p>   | <p><b>Repair order</b></p> <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connections.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace the related harness.</li> </ol>   |
| PHIA1236E   |   |
| <RH side air bag (Satellite) sensor>  |   |
| <p><b>Flash pattern</b></p> <p>a through f are repeated.<br/>f: Three flashes indicate malfunctioning RH side air bag (Satellite) sensor circuit.</p> | <p><b>Repair order</b></p> <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace the RH side air bag (Satellite) sensor.</li> <li>4. Replace the diagnosis sensor unit.</li> <li>5. Replace the related harness.</li> </ol> |
| SHIA0032E   |   |
| <LH side air bag (Satellite) sensor>  |   |
| <p><b>Flash pattern</b></p> <p>a through f are repeated.<br/>f: Four flashes indicate malfunctioning LH side air bag (Satellite) sensor.</p>          | <p><b>Repair order</b></p> <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace the LH side air bag (Satellite) sensor.</li> <li>4. Replace the diagnosis sensor unit.</li> <li>5. Replace the related harness.</li> </ol> |
| SHIA0033E   |   |

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# TROUBLE DIAGNOSIS

## < SERVICE INFORMATION >

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| <Front RH side air bag module>  |   |
| <p>Flash pattern</p> <p>a through f are repeated.<br/>f: One flash indicates malfunctioning front RH side air bag module circuit.</p>     | <p>Repair order</p> <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace the related harness.</li> </ol> |
| PHIA1237E   |   |
| <Front LH side air bag module>  |   |
| <p>Flash pattern</p> <p>a through f are repeated.<br/>f: Two flashes indicate malfunctioning front LH side air bag module circuit.</p>    | <p>Repair order</p> <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace the related harness.</li> </ol> |
| PHIA1238E   |   |
| <RH side curtain air bag module>  |   |
| <p>Flash pattern</p> <p>a through f are repeated.<br/>f: Five flashes indicate malfunctioning RH side curtain air bag module circuit.</p> | <p>Repair order</p> <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace the related harness.</li> </ol> |
| PHIA1240E   |   |
| <LH side curtain air bag module>  |   |
| <p>Flash pattern</p> <p>a through f are repeated.<br/>f: Six flashes indicate malfunctioning LH side curtain air bag module circuit.</p>  | <p>Repair order</p> <ol style="list-style-type: none"> <li>1. Visually check the wiring harness connection.</li> <li>2. Replace the harness if it has visible damage.</li> <li>3. Replace the related harness.</li> </ol> |
| PHIA1241E   |   |

## Trouble Diagnosis: "AIR BAG" Warning Lamp Does Not Turn OFF

INFOID:000000004657163

### DIAGNOSTIC PROCEDURE

#### 1. CHECK FRONT AIR BAG MODULE

Check the deployment of front air bag module.

Is air bag module deployed?

YES >> Refer to [SRS-57, "FOR FRONTAL COLLISION : When SRS is activated in a collision"](#) or [SRS-59, "FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision"](#).

NO >> GO TO 2.

#### 2. CHECK AIR BAG FUSE

Check 10A fuse [No.13, located in fuse block (J/B)].

Refer to [PG-15, "Fuse"](#).

# TROUBLE DIAGNOSIS

## < SERVICE INFORMATION >

### Is the inspection result normal?

- YES >> GO TO 4.  
NO >> GO TO 3.

### 3.CHECK AIR BAG FUSE AGAIN

Replace air bag fuse and turn ignition switch ON.

### Did the air bag fuse blow again?

- YES >> Repair or replace main harness.  
NO >> **INSPECTION END**

### 4.CHECK DIAGNOSIS SENSOR UNIT

Check the screen of CONSULT-III.

### Is the inspection result normal?

- YES >> GO TO 5.  
NO >> Replace diagnosis sensor unit.

### 5.CHECK HARNESS CONNECTION

Check harness connection between warning lamp and diagnosis sensor unit.

### Is the inspection result normal?

- YES >> Check the intermittent incident.  
NO >> Replace wiring harness connector.

## Trouble Diagnosis: "AIR BAG" Warning Lamp Does Not Turn ON

INFOID:000000004657164

### DIAGNOSTIC PROCEDURE

### 1.CHECK METER FUSE

Check the meter fuse. Refer to [PG-15. "Fuse"](#).

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

- YES >> GO TO 3.  
NO >> GO TO 2.

### 2.CHECK "METER" FUSE AGAIN

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

### Does the meter fuse blow again?

- YES >> Repair or replace the related harness.  
NO >> **INSPECTION END**

### 3.CHECK HARNESS CONNECTION BETWEEN DIAGNOSIS SENSOR UNIT AND COMBINATION METER

Disconnect diagnosis sensor unit connector and turn ignition switch ON.

### Does air bag warning lamp turn ON?

- YES >> Replace diagnosis sensor unit.  
NO >> Replace combination meter assembly.

## Trouble Diagnosis: Passenger Seat belt Warning System

INFOID:000000004657165

### 1.CHECK THE SYSTEM 1

Check seat belt warning lamp function.

Seat belt warning lamp turns ON in the following conditions.

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

### Is the inspection result normal?

- YES >> GO TO 2.

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## TROUBLE DIAGNOSIS

### < SERVICE INFORMATION >

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- NO >> Check the followings.
- Harness between air bag diagnosis sensor unit and combination meter.
  - Seat belt buckle switch (passenger side) circuit.
  - Seat belt buckle switch (passenger side).
- If these are OK, replace air bag diagnosis sensor unit.

## 2.CHECK THE SYSTEM 2

---

Check seat belt warning lamp function.

Seat belt warning lamp turns OFF in the following conditions.

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

### Is the inspection result normal?

- YES >> System is OK.
- NO >> Check the followings.
- Seat belt buckle switch (passenger side) circuit.
  - Seat belt buckle switch (passenger side).
- If these are OK, replace air bag diagnosis sensor unit.

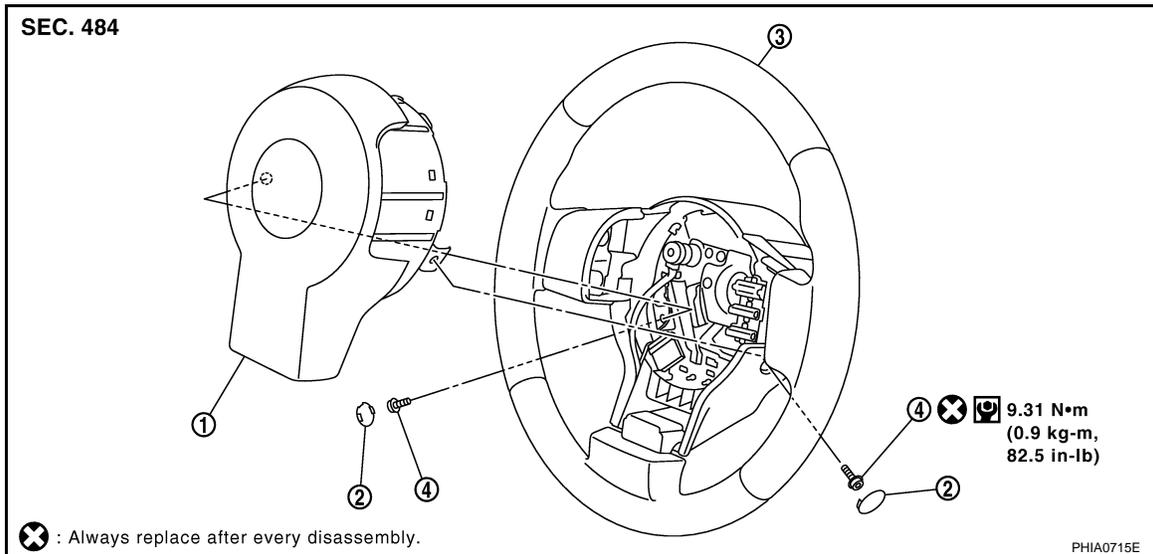
# DRIVER AIR BAG MODULE

< SERVICE INFORMATION >

## DRIVER AIR BAG MODULE

### Removal and Installation

INFOID:000000004657166



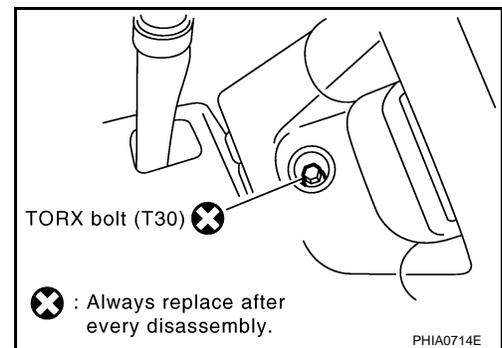
1. Driver air bag module
2. Side lid (LH/RH)
3. Steering wheel
4. TORX bolt (LH/RH)

#### WARNING:

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Always work from the side of air bag module. Never work in front of it.
- Never use the air tools or electric tools for servicing.

#### REMOVAL

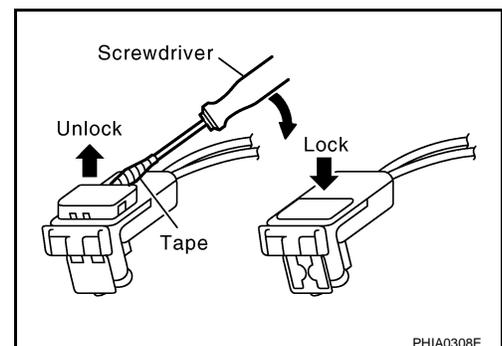
1. Remove the side lids (RH/LH).
2. Using Tamper resistant TORX bit, remove the TORX bolt (LH/RH).



3. Disconnect the steering wheel switch sub-harness connector.
4. Disconnect the air bag harness connector, and remove the driver air bag module.

#### CAUTION:

- For installing / removing driver air bag module connector, insert thin screwdriver wrapped in tape into notch, lift lock and remove connector.
- Install connector with lock raised, and push lock into connector.
- After installing the connector, make sure that the lock is pushed securely into it.



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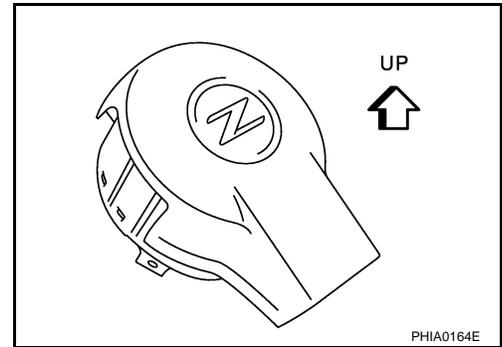
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# DRIVER AIR BAG MODULE

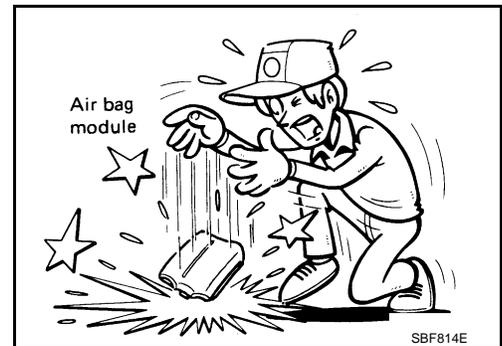
## < SERVICE INFORMATION >

### CAUTION:

- Always place driver air bag module with pad side facing upward.



- Never impact the driver air bag module.
- Replace driver air bag module if it has been dropped or sustained an impact.



- Never insert any foreign objects (screwdriver, etc.) into the driver air bag module.
- Never disassemble the driver air bag module.
- Never expose the driver air bag module to temperatures exceeding 90°C (194°F).
- Never allow oil, grease, detergent, or water to come in contact with the driver air bag module.

## INSTALLATION

Install in the reverse order of removal.

### CAUTION:

- Never use the old bolts after removal, replace with the new bolts.
- Tighten the TORX bolts after completely adjusting the centers of fixing holes on the driver air bag module side and the steering wheel side. If the holes are misaligned, the bolt threads are damaged and the module is not installed securely.
- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRS-30. "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

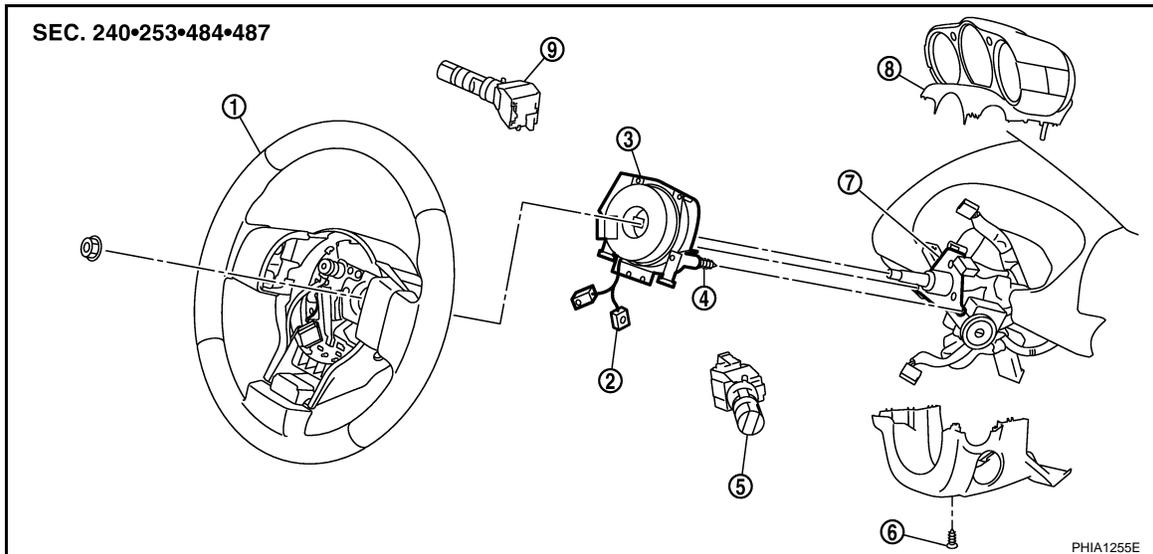
# SPIRAL CABLE

< SERVICE INFORMATION >

## SPIRAL CABLE

### Removal and Installation

INFOID:000000004657167



- |                             |                                     |                                    |
|-----------------------------|-------------------------------------|------------------------------------|
| 1. Steering wheel           | 2. Driver air bag harness connector | 3. Spiral cable                    |
| 4. Screw (Do not remove)    | 5. Wiper and washer switch          | 6. Screw                           |
| 7. Steering column assembly | 8. Combination meter                | 9. Lighting and turn signal switch |

#### WARNING:

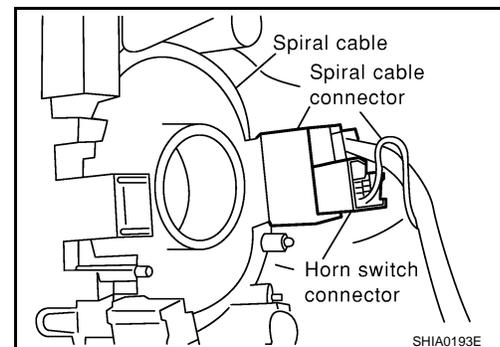
- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Never use the air tools or the electric tools for servicing.

#### REMOVAL

1. Remove driver air bag module. Refer to [SRS-43, "Removal and Installation"](#).
2. Disconnect horn switch harness connector.
3. Set the steering wheel in the neutral position.
4. Remove steering wheel. Refer to [PS-7](#).
5. Remove combination meter assembly. Refer to [DI-22, "Removal and Installation for Combination Meter"](#).
6. Loosen the spiral cable fixing screws, and then remove the spiral cable.
7. Remove the horn switch connector and then remove spiral cable connector.

#### CAUTION:

Also, with the steering linkage disconnected the cable may snap by turning the steering wheel beyond the limited number of turns.



#### CAUTION:

# SPIRAL CABLE

## < SERVICE INFORMATION >

- Never impact the spiral cable.
- Replace the spiral cable if it has been dropped or sustained an impact.



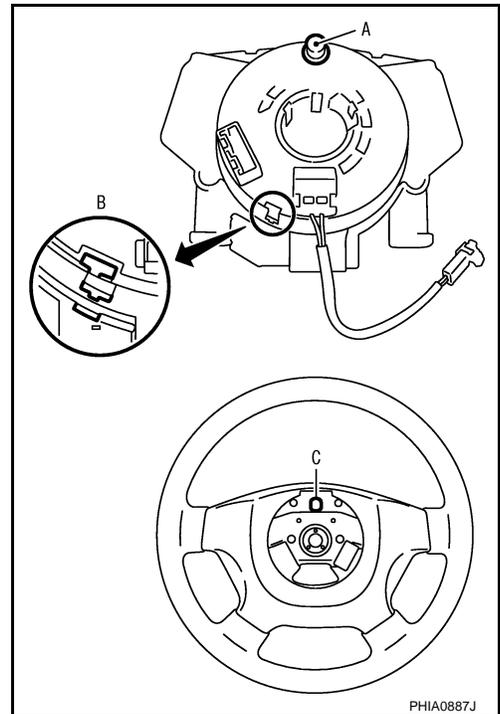
- Never disassemble spiral cable.
- Never apply lubricant to the spiral cable.
- Never allow oil, grease, detergent, or water to come in contact with the spiral cable.

## INSTALLATION

Install in the reverse order of removal.

### CAUTION:

- The spiral cable may snap by steering operation if the cable is installed in an improper position.
- The neutral position is set as follows.  
Turn quietly the spiral cable clockwise to the end position. Then turn it counterclockwise (about 2 and half turns) and stop turning at the point on which the stopper insertion holes are in the same position.  
The service part is installed in the neutral position by the stopper and can be set without adjusting after the stopper is removed.
- Never turn the spiral cable rashly and also beyond the limit number of turns. (These will cause cable snap.)
- Adjust the spiral cable locating pin (showed as A in the figure) to the steering wheel locating pin hole (showed as C in the figure).



- Secure the air bag harness with the harness fixing hook.
- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRS-30. "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

# FRONT PASSENGER AIR BAG MODULE

< SERVICE INFORMATION >

## FRONT PASSENGER AIR BAG MODULE

### Removal and Installation

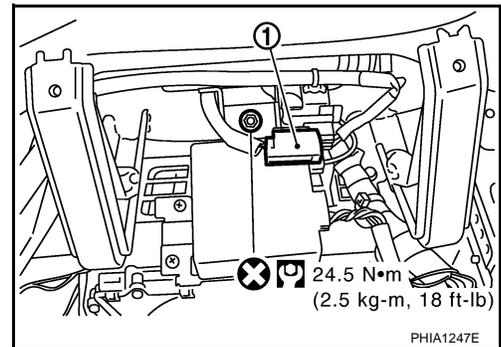
INFOID:000000004657168

#### WARNING:

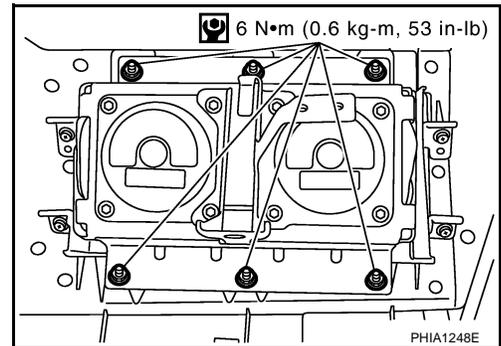
- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Always work from the side of air bag module. Never work in front of it.
- Never use the air tools or the electric tools for servicing.

#### REMOVAL

1. Remove cluster lid C. Refer to [IP-13, "Removal and Installation"](#).
2. Remove instrument passenger panel lower and knee protector (RH). Refer to [IP-13, "Removal and Installation"](#).
3. Disconnect passenger air bag harness connector (1).
4. Remove hexagon bolt, and then remove instrument passenger panel upper assembly.



5. Remove fixing nuts, and then remove front passenger air bag module.



#### CAUTION:

- Never impact the passenger air bag module.
- Replace front passenger air bag module if it has been dropped or sustained an impact.



- Always place front passenger air bag module with caution label side facing upward.
- Never insert any foreign objects (screwdriver, etc.) into the front passenger air bag module.
- Never disassemble the front passenger air bag module.
- Never expose the front passenger air bag module to temperatures exceeding 90°C (194°F).
- Never allow oil, grease, detergent, or water to come in contact with the passenger air bag module.

#### INSTALLATION

Install in the reverse order of removal.

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## FRONT PASSENGER AIR BAG MODULE

< SERVICE INFORMATION >

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**CAUTION:**

- After front passenger air bag module inflates, the instrument panel assembly should be replaced.
- Never use the old bolts after removal, replace with the new bolts.
- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRS-30, "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

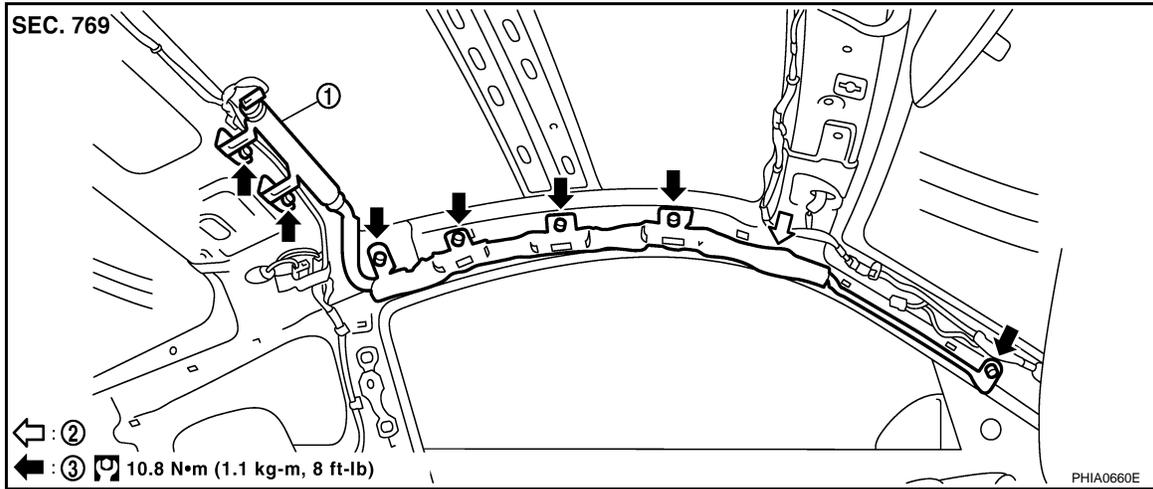
# SIDE CURTAIN AIR BAG MODULE (FOR COUPE)

< SERVICE INFORMATION >

## SIDE CURTAIN AIR BAG MODULE (FOR COUPE)

### Removal and Installation

INFOID:000000004657169



1. Side curtain air bag module
2. Clip
3. Bolt

#### WARNING:

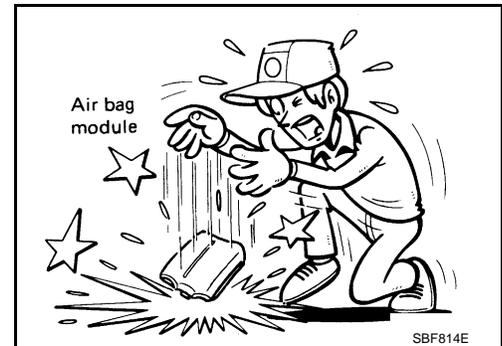
- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Never use the air tools or electric tools for servicing.

#### REMOVAL

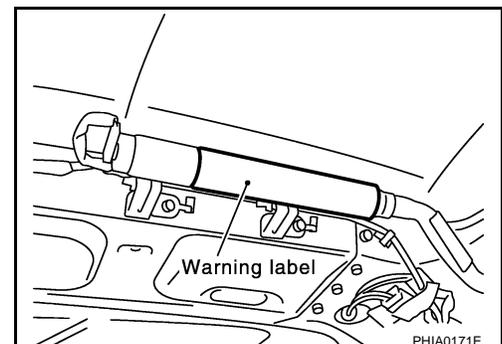
1. Remove headlining. Refer to [EI-39. "Removal and Installation \(for Coupe Models\)"](#).
2. Disconnect side curtain air bag harness connector.
3. Remove side curtain air bag module fixing bolts and clip.
4. Remove the side curtain air bag module.

#### CAUTION:

- Never impact the side curtain air bag module.
- Replace side curtain air bag module if it has been dropped or sustained an impact.



- Always place the side curtain air bag module with the warning label facing upward.



## SIDE CURTAIN AIR BAG MODULE (FOR COUPE)

### < SERVICE INFORMATION >

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- Never disassemble side curtain air bag module.
- Never insert any foreign objects (screwdriver, etc.) into the air bag module connector.
- Never expose the air bag module to temperatures exceeding 90°C(194°F).
- Never allow oil, grease or water to come in contact with the side curtain air bag module.

### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRS-32. "SRS Operation Check \(USER MODE\)"](#).
- After the work is complete, check that no system malfunction is detected by air bag warning lamp.

# CRASH ZONE SENSOR

< SERVICE INFORMATION >

## CRASH ZONE SENSOR

### Removal and Installation

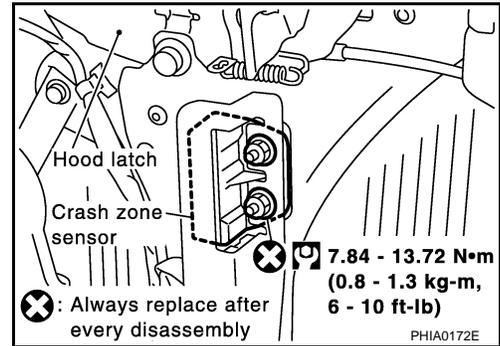
INFOID:000000004657170

#### **WARNING:**

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Never use the air tools or electric tools for servicing.

#### REMOVAL

1. Remove crash zone sensor harness connector.
2. Remove crash zone sensor fixing nuts.



#### **CAUTION:**

- Never impact the crash zone sensor.
- Replace the crash zone sensor if it has been dropped or sustained an impact.



- Never disassemble the crash zone sensor.
- Replace the crash zone sensor of deployed SRS driver air bag and deployed SRS front passenger air bag.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRS-30, "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

# SIDE AIR BAG (SATELLITE) SENSOR

< SERVICE INFORMATION >

## SIDE AIR BAG (SATELLITE) SENSOR

### Removal and Installation

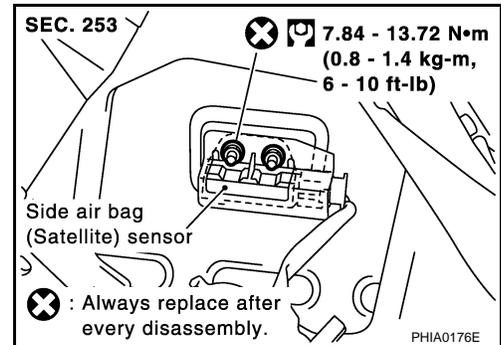
INFOID:000000004657171

#### **WARNING:**

- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Never use the air tools or electric tools for servicing.

#### REMOVAL

1. Remove seat belt pre-tensioner.
  - Coupe: Refer to [SB-4. "Removal and Installation of Seat Belt \(Coupe\)"](#).
  - Roadster: Refer to [SB-6. "Removal and Installation of Seat Belt \(Roadster\)"](#).
2. Remove side air bag (Satellite) sensor fixing nuts.
3. Remove the side air bag (Satellite) sensor harness connector.



#### **CAUTION:**

- Never impact the side air bag (satellite) sensor.
- Replace the side air bag (satellite) sensor if it has been dropped or sustained an impact.



- Never disassemble the side air bag (satellite) sensor.
- Replace the side air bag (satellite) sensor of deployed SRS front side air bag module and deployed SRS side curtain air bag module.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

- Never use the old fixing nut after removal, replace with the new nut.
- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRS-30. "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

# FRONT SEAT BELT PRE-TENSIONER

< SERVICE INFORMATION >

## FRONT SEAT BELT PRE-TENSIONER

### Removal and Installation

INFOID:000000004657172

For removal and installation procedures, refer to [SB-4. "Removal and Installation of Seat Belt \(Coupe\)"](#) or [SB-6. "Removal and Installation of Seat Belt \(Roadster\)"](#).

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# DIAGNOSIS SENSOR UNIT

< SERVICE INFORMATION >

## DIAGNOSIS SENSOR UNIT

### Removal and Installation

INFOID:000000004657173

#### WARNING:

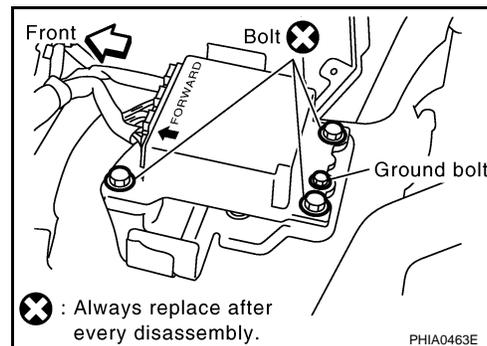
- Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.
- Before disconnecting the air bag sensor unit harness connector, be sure to disconnect the each harness connector of the air bag module and pre-tensioner seat belt to prevent air bag deployment by static electricity and pre-tensioner seat belt operation.
- Never use the air tools or electric tools for servicing.
- When replacing the air bag diagnosis sensor unit, always check with the parts department for the latest parts information. Installing an incorrect air bag diagnosis sensor unit may or may not cause the air bag warning lamp to illuminate and may cause incorrect deployment of the supplemental air bags and seat belt pre-tensioners in a collision resulting in serious personal injury or death.

#### REMOVAL

1. Always check the air bag diagnosis sensor unit ECU discriminated number (identification number) using CONSULT-III.
2. Disconnect each harness connector for the air bag module and seat belt pre-tensioner.
3. Remove center console. Refer to [IP-13, "Removal and Installation"](#).
4. Disconnect diagnosis sensor unit harness connector.
5. Remove fixing bolts, and then remove the diagnosis sensor unit.

Hex bolt:  24.5 N·m (2.5 kg·m, 18 ft·lb)

Ground bolt:  6.9 N·m (0.7 kg·m, 61 in·lb)



#### CAUTION:

- Never impact the diagnosis sensor unit.
- Replace the diagnosis sensor unit if it has been dropped or sustained an impact.



- Replace the diagnosis sensor unit of deployed SRS air bag and deployed SRS front seat belt pre-tensioner.

#### INSTALLATION

Install air bag diagnosis sensor unit in the reverse order of removal.

#### CAUTION:

- Never use the old bolts after removal, replace with the new bolts.
- Never damage the harness while installing.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT-III. Refer to [SRS-30, "CONSULT-III Function"](#).
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

# DIAGNOSIS SENSOR UNIT

## < SERVICE INFORMATION >

- After replacing the air bag diagnosis sensor unit, confirm using CONSULT-III that the ECU discriminated number (identification number) of the new replacement air bag sensor unit matches the ECU discriminated number (identification number) of the replaced (old) air bag diagnosis sensor unit.

### NOTE:

If the ECU discriminated number of the new replacement air bag diagnosis sensor unit differs from the ECU discriminated number of the replaced air bag diagnosis sensor unit, reconfirm the parts information and verify that the correct air bag diagnosis sensor unit was installed.

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# OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

< SERVICE INFORMATION >

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## OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT

### Removal and Installation

INFOID:000000004657174

The occupant classification system control unit, seat pressure sensor, and bladder are an integral part of the front passenger seat cushion and are replaced as an assembly. Refer to [SE-63, "Removal and Installation"](#).

# COLLISION DIAGNOSIS

< SERVICE INFORMATION >

## COLLISION DIAGNOSIS FOR FRONTAL COLLISION

FOR FRONTAL COLLISION : When SRS is activated in a collision

INFOID:000000005786122

**CAUTION:**

**Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.**

### WORK PROCEDURE

1. Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
2. Replace the diagnosis sensor unit.
3. Remove the front air bag modules, crash zone sensor, bracket and seat belt pre-tensioner assemblies.
4. Check the SRS components using the table below:  
Replace any SRS components showing visible signs of damage. (dents, cracks and deformation, etc.)
5. Install new front air bag modules, crash zone sensor assembly, bracket and seat belt pre-tensioner assemblies.
6. Perform self-diagnosis using CONSULT-III or air bag warning lamp. Refer to [SRS-30. "CONSULT-III Function"](#) or [SRS-31. "Self-Diagnosis Function \(Without CONSULT-III\)"](#) for details. Ensure entire SRS operates properly.
7. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRS-30. "CONSULT-III Function"](#).

### SRS INSPECTION (FOR FRONTAL COLLISION)

SRS

| Part   | Inspection   |
|--|--|
| Driver air bag module  | If the driver air bag has deployed:<br><b>REPLACE</b><br>Install with new fasteners.   |
| Front passenger air bag module (if equipped)   | If the front passenger air bag has deployed:<br><b>REPLACE</b><br>Install with new fasteners.  |
| Crash zone sensor  | If any of the front air bags or seat belt pre-tensioners* have been activated:<br><b>REPLACE</b> the crash zone sensor and bracket with new fasteners.<br>*: Confirm seat belt pre-tensioner activation using CONSULT-III only.  |
| Seat belt pre-tensioner assemblies<br>(All applicable locations: buckle, retractor, lap outer) | If either the driver or passenger seat belt pre-tensioner* has been activated:<br><b>REPLACE</b> all seat belt pre-tensioner assemblies with new fasteners.<br>*: Confirm seat belt pre-tensioner activation using CONSULT-III only.   |
| Diagnosis sensor unit  | If any of the SRS components have been activated:<br><b>REPLACE</b> the diagnosis sensor unit.<br>Install with new fasteners.  |
| Steering wheel   | <ol style="list-style-type: none"> <li>1. Visually check steering wheel for deformities.</li> <li>2. Check harness (built into steering wheel) and connectors for damage, and terminals for deformities.</li> <li>3. Install driver air bag module into the steering wheel to check fit and alignment with the wheel.</li> <li>4. Check steering wheel for excessive free play.</li> <li>5. If no damage is found, reinstall.</li> <li>6. If damaged – <b>REPLACE</b>.</li> </ol>          |
| Spiral cable   | If the driver front air bag has deployed:<br><b>REPLACE</b> the spiral cable.  |
| Occupant classification system (Passenger seat)  | <ol style="list-style-type: none"> <li>1. Remove passenger seat assembly.</li> <li>2. Check control unit case for dents, cracks or deformities.</li> <li>3. Check connectors and pressure sensor tube for damage, and terminals for deformities.</li> <li>4. Check seat frame and cushion pan for dents or deformities.</li> <li>5. If no damage is found, reinstall seat with new fasteners.</li> <li>6. If damaged – <b>REPLACE</b> seat cushion assembly with new fasteners.</li> </ol> |

# COLLISION DIAGNOSIS

## < SERVICE INFORMATION >

| Part                      | Inspection   |
|---------------------------|--|
| Harness and connectors    | <ol style="list-style-type: none"> <li>1. Check connectors for poor connection, damage, and terminals for deformities.</li> <li>2. Check harness for binding, chafing, cuts, or deformities.</li> <li>3. If no damage is found, reinstall the harness and connectors.</li> <li>4. If damaged – REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness.</li> </ol> |
| Instrument panel assembly | If the front passenger air bag has deployed:<br>REPLACE the instrument panel assembly. (integrated type)   |

### FOR FRONTAL COLLISION : When SRS is not activated in a collision

INFOID:000000005786123

#### CAUTION:

**Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.**

#### WORK PROCEDURE

1. Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
2. Check the SRS components using the table below:  
Replace any SRS components showing visible signs of damage. (dents, cracks and deformation, etc.)
3. Perform self-diagnosis using CONSULT-III or air bag warning lamp. Refer to [SRS-30. "CONSULT-III Function"](#) or [SRS-31. "Self-Diagnosis Function \(Without CONSULT-III\)"](#) for details. Ensure entire SRS operates properly.
4. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRS-30. "CONSULT-III Function"](#).

#### SRS INSPECTION (FOR FRONTAL COLLISION)

| Part   | Inspection   |
|--|--|
| Driver air bag module  | <p>If the driver air bag has NOT been deployed:</p> <ol style="list-style-type: none"> <li>1. Remove driver air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding.</li> <li>2. Install driver air bag module into the steering wheel to check fit and alignment with the wheel.</li> <li>3. If no damage is found, reinstall with new fasteners.</li> <li>4. If damaged – REPLACE. Install driver air bag module with new fasteners.</li> </ol>  |
| Front passenger air bag module (if equipped)   | <p>If the front passenger air bag has NOT been deployed:</p> <ol style="list-style-type: none"> <li>1. Remove front passenger air bag module. Check harness cover and connectors for damage, terminals for deformities, and harness for binding.</li> <li>2. Install front passenger air bag module into the instrument panel to check fit with the instrument panel.</li> <li>3. If no damage is found, reinstall with new fasteners.</li> <li>4. If damaged – REPLACE. Install front passenger air bag modules with new fasteners.</li> </ol>  |
| Crash zone sensor  | <p>If the front air bags or seat belt pre-tensioners have NOT been activated:</p> <ol style="list-style-type: none"> <li>1. Remove the crash zone sensor. Check harness connectors for damage, terminals for deformities, and harness for binding.</li> <li>2. Check for visible signs of damage (dents, cracks, deformation, etc.) of the crash zone sensor and bracket.</li> <li>3. Install the crash zone sensor to check fit.</li> <li>4. If no damage is found, reinstall with new fasteners.</li> <li>5. If damaged – REPLACE the crash zone sensor and bracket with new fasteners.</li> </ol>   |
| Seat belt pre-tensioner assemblies<br>(All applicable locations: buckle, retractor, lap outer) | <p>If the pre-tensioners have NOT been activated:</p> <ol style="list-style-type: none"> <li>1. Remove seat belt pre-tensioners.<br/>Check harness cover and connectors for damage, terminals for deformities, and harness for binding.</li> <li>2. Check belts for damage and anchors for loose mounting.</li> <li>3. Check retractor for smooth operation.</li> <li>4. Check seat belt adjuster for damage.</li> <li>5. Check for deformities of the center pillar inner.</li> <li>6. If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly.</li> <li>7. If no damage is found, reinstall seat belt pre-tensioner assembly.</li> <li>8. If damaged – REPLACE. Install the seat belt pre-tensioners with new fasteners.</li> </ol> |

# COLLISION DIAGNOSIS

## < SERVICE INFORMATION >

| Part  | Inspection  |
|---|---|
| Diagnosis sensor unit                           | If none of the SRS components have been activated:<br>1. Check case for dents, cracks or deformities.<br>2. Check connectors for damage, and terminals for deformities.<br>3. If no damage is found, reinstall with new fasteners.<br>4. If damaged – REPLACE. Install diagnosis sensor unit with new fasteners.  |
| Steering wheel                                  | 1. Visually check steering wheel for deformities.<br>2. Check harness (built into steering wheel) and connectors for damage, and terminals for deformities.<br>3. Install driver air bag module into the steering wheel to check fit and alignment with the wheel.<br>4. Check steering wheel for excessive free play.<br>5. If no damage is found, reinstall.<br>6. If damaged – REPLACE.          |
| Spiral cable                                    | If the driver front air bag has not deployed:<br>1. Visually check spiral cable and combination switch for damage.<br>2. Check connectors and protective tape for damage.<br>3. Check steering wheel for noise, binding or heavy operation.<br>4. If no damage is found, reinstall.<br>5. If damaged – REPLACE.   |
| Occupant classification system (Passenger seat) | 1. Remove passenger seat assembly.<br>2. Check control unit case for dents, cracks or deformities.<br>3. Check connectors and pressure sensor tube for damage, and terminals for deformities.<br>4. Check seat frame and cushion pan for dents or deformities.<br>5. If no damage is found, reinstall seat with new fasteners.<br>6. If damaged – REPLACE seat cushion assembly with new fasteners. |
| Harness and connectors                          | 1. Check connectors for poor connection, damage, and terminals for deformities.<br>2. Check harness for binding, chafing, cuts, or deformities.<br>3. If no damage is found, reinstall the harness and connectors.<br>4. If damaged – REPLACE the damaged harness. Do not attempt to repair, splice or modify any SRS harness.  |
| Instrument panel assembly                       | If the front passenger air bag has NOT deployed:<br>1. Visually check instrument panel assembly for damage.<br>2. If no damage is found, reinstall the instrument panel assembly.<br>3. If damaged – REPLACE the instrument panel assembly.   |

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SRS

## FOR SIDE AND ROLLOVER COLLISION

### FOR SIDE AND ROLLOVER COLLISION : When SRS is activated in a collision

INFOID:000000005786124

**CAUTION:**

**Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.**

#### WORK PROCEDURE

1. Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
2. Replace the following components:
  - Front seat back assembly (on the side on which side air bag is activated)
  - Door finisher (on the side on which door-mounted curtain air bag is activated)
  - Pop-up roll bar assemblies and pop-up roll bar covers
  - Side air bag (satellite) sensor LH/RH (on the side on which side air bag is activated)
  - Diagnosis sensor unit
  - Seat belt pre-tensioner assemblies
3. Check the SRS components and the related parts using the following table. Replace any SRS components and the related parts showing visible signs of damage. (dents, cracks, deformation, etc.)
4. Perform self-diagnosis using CONSULT-III and "AIR BAG" warning lamp. Refer to [SRS-30. "CONSULT-III Function"](#) or [SRS-31. "Self-Diagnosis Function \(Without CONSULT-III\)"](#) for details. Make sure entire SRS operates properly.
5. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRS-30. "CONSULT-III Function"](#).

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# COLLISION DIAGNOSIS

## < SERVICE INFORMATION >

### SRS INSPECTION (FOR SIDE AND ROLLOVER COLLISION)

| Part   | Inspection  |
|--|---|
| Side curtain air bag module LH   | If the side curtain air bag LH has deployed:<br>REPLACE the side curtain air bag module LH.<br>Install with new fasteners.  |
| Side curtain air bag module RH   | If the side curtain air bag RH has deployed:<br>REPLACE the side curtain air bag module RH.<br>Install with new fasteners.  |
| Front side air bag module LH   | If the front side air bag LH has deployed:<br>REPLACE front seatback assembly LH.   |
| Front side air bag module RH   | If the front side air bag RH has deployed:<br>REPLACE front seatback assembly RH.   |
| Side air bag (satellite) sensor (LH or RH)   | If any of the SRS components have deployed:<br>REPLACE the side air bag (satellite) sensor on the collision side with new fasteners.  |
| Diagnosis sensor unit  | If any of the SRS components have deployed:<br>REPLACE the diagnosis sensor unit with new fasteners.  |
| Seat belt pre-tensioner assemblies<br>(All applicable locations: buckle, retractor, lap outer) | If either the driver or passenger seat belt pre-tensioner* has been activated:<br>REPLACE all seat belt pre-tensioner assemblies with new fasteners.<br>*: Confirm seat belt pre-tensioner activation using CONSULT-III only. |
| Center inner pillar  | 1. Check the center inner pillar on the collision side for damage (dents, cracks, deformation, etc.).<br>2. If damaged – REPAIR the center inner pillar.  |
| Trim/headlining  | 1. Check for visible signs of damage (dents, cracks, deformation, etc.) of the interior trim on the collision side.<br>2. If damaged – REPLACE the damaged trim parts.  |
| Door-mounted curtain air bag module LH   | If the door-mounted curtain air bag module LH has deployed:<br>REPLACE the door finisher LH and door-mounted curtain air bag module.<br>Install with new fasteners.   |
| Door-mounted curtain air bag module RH   | If the door-mounted curtain air bag module RH has deployed:<br>REPLACE the door finisher RH and door-mounted curtain air bag module.<br>Install with new fasteners.   |
| Pop-up roll bar assemblies   | If the pop-up roll bar has deployed:<br>REPLACE pop-up roll bar assemblies and pop-up roll bar covers.<br>Install with new fasteners.   |

### FOR SIDE AND ROLLOVER COLLISION : When SRS is not activated in a collision

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#### **CAUTION:**

**Due to varying models and option levels, not all parts listed in the chart below apply to all vehicles.**

#### WORK PROCEDURE

1. Before performing any of the following steps, ensure that all vehicle body and structural repairs have been completed.
2. Check the SRS components and the related parts using the following table.
  - If the front seat back assembly is damaged, the front seat back assembly must be replaced.
  - If the door finisher assembly is damaged, the door finisher assembly and door-mounted curtain air bag module must be replaced.
3. Perform self-diagnosis using CONSULT-III and "AIR BAG" warning lamp. Refer to [SRS-30, "CONSULT-III Function"](#) or [SRS-31, "Self-Diagnosis Function \(Without CONSULT-III\)"](#) for details. Make sure entire SRS operates properly.
4. After the work is completed, perform self-diagnosis to check that no malfunction is detected. Refer to [SRS-30, "CONSULT-III Function"](#).

### SRS INSPECTION (FOR SIDE AND ROLLOVER COLLISION)

# COLLISION DIAGNOSIS

## < SERVICE INFORMATION >

| Part   | Inspection  | A           |
|--|---|-------------|
| Side curtain air bag module LH   | If the side curtain air bag LH has NOT deployed:<br>1. Check for visible signs of damage (dents, tears, deformation, etc.) of the center pillar on the collision side.<br>2. If damaged – Remove the side curtain air bag module LH.<br>3. Check for visible signs of damage (tears etc.) of the side curtain air bag module LH.<br>4. Check harness and connectors for damage, and terminals for deformities.<br>5. If no damage is found, reinstall the side curtain air bag module LH with new fasteners.<br>6. If damaged – REPLACE the side curtain air bag module LH with new fasteners.  | B<br>C      |
| Side curtain air bag module RH   | If the side curtain air bag RH has NOT deployed:<br>1. Check for visible signs of damage (dents, tears, deformation, etc.) of the center pillar on the collision side.<br>2. If damaged – Remove the side curtain air bag module RH.<br>3. Check for visible signs of damage (tears etc.) of the side curtain air bag module RH.<br>4. Check harness and connectors for damage, and terminals for deformities.<br>5. If no damage is found, reinstall the side curtain air bag module RH with new fasteners.<br>6. If damaged – REPLACE the side curtain air bag module RH with new fasteners.  | D<br>E      |
| Front side air bag module LH   | If the front side air bag LH has NOT deployed:<br>1. Check for visible signs of damage (dents, tears, deformation, etc.) of the seat back on the collision side.<br>2. Check harness and connectors for damage, and terminals for deformities.<br>3. If damaged – REPLACE the front seatback assembly LH.   | F<br>G      |
| Front side air bag module RH   | If the front side air bag RH has NOT deployed:<br>1. Check for visible signs of damage (dents, tears, deformation, etc.) of the seat back on the collision side.<br>2. Check harness and connectors for damage, and terminals for deformities.<br>3. If damaged – REPLACE the front seatback assembly RH.   | F<br>G      |
| Side air bag (satellite) sensor (LH or RH)   | If none of the SRS components have been activated:<br>1. Remove the side air bag (satellite) sensor (LH or RH) on the collision side. Check harness connectors for damage, terminals for deformities, and harness for binding.<br>2. Check for visible signs of damage (dents, cracks, deformation, etc.) of the side air bag (satellite) sensor (LH or RH).<br>3. Install the side air bag (satellite) sensor (LH or RH) to check fit.<br>4. If no damage is found, reinstall the side air bag (satellite) sensor (LH or RH) with new fasteners.<br>5. If damaged – REPLACE the side air bag (satellite) sensor (LH or RH) with new fasteners.                     | I<br>J      |
| Diagnosis sensor unit  | If none of the SRS components have been activated:<br>1. Check case and bracket for dents, cracks or deformities.<br>2. Check connectors for damage, and terminals for deformities.<br>3. If no damage is found, reinstall the diagnosis sensor unit with new fasteners.<br>4. If damaged – REPLACE the diagnosis sensor unit with new fasteners.   | K<br>L      |
| Seat belt pre-tensioner assemblies<br>(All applicable locations: buckle, retractor, lap outer) | If the pre-tensioners have NOT been activated:<br>1. Remove seat belt pre-tensioners.<br>Check harness cover and connectors for damage, terminals for deformities, and harness for binding.<br>2. Check belts for damage and anchors for loose mounting.<br>3. Check retractor for smooth operation.<br>4. Check seat belt adjuster for damage.<br>5. Check for deformities of the center pillar inner.<br>6. If the center pillar inner has no damage, REPLACE the seat belt pre-tensioner assembly.<br>7. If no damage is found, reinstall seat belt pre-tensioner assembly.<br>8. If damaged – REPLACE. Install the seat belt pre-tensioners with new fasteners. | M<br>N<br>O |
| Seat (with front side air bag)   | If the front LH or front RH side air bag modules have NOT deployed:<br>1. Visually check the seat on the collision side.<br>2. Remove the seat on the collision side and check the following for damage and deformities.<br>- Harness, connectors and terminals<br>- Frame and recliner (for front and rear seat), and also adjuster and slides (for front seat)<br>3. If no damage is found, reinstall the seat.<br>4. If damaged – REPLACE the damaged seat parts using new fasteners. If the front seat back is damaged, the front seat back assembly must be replaced.  | P           |
| Center inner pillar  | 1. Check the center inner pillar on the collision side for damage (dents, cracks, deformation, etc.).<br>2. If damaged – REPAIR the center inner pillar.  |             |

SRS

# COLLISION DIAGNOSIS

## < SERVICE INFORMATION >

| Part                                   | Inspection   |
|--|--|
| Trim/headlining                        | <ol style="list-style-type: none"> <li>1. Check for visible signs of damage (dents, cracks, deformation, etc.) of the interior trim on the collision side.</li> <li>2. If damaged – REPLACE the damaged trim parts.</li> </ol>   |
| Door-mounted curtain air bag module LH | <p>If the door-mounted curtain air bag LH has NOT deployed:</p> <ol style="list-style-type: none"> <li>1. Check for visible signs of damage (dents, tears, deformation, etc.) of the door finisher on the collision side.</li> <li>2. If damaged – REPLACE the door finisher LH with new fasteners.</li> <li>3. Check for visible signs of damaged (tears etc.) of the door-mounted curtain air bag module LH.</li> <li>4. Check harness and connectors for damage, and terminals for deformities.</li> <li>5. If no damage is found, reinstall door finisher.<br/><b>CAUTION:</b><br/><b>When removing door-mounted curtain air bag module from door finisher, never reuse door finisher.</b></li> <li>6. If damaged – REPLACE the door finisher LH and door-mounted curtain air bag module LH with new fasteners.</li> </ol> |
| Door-mounted curtain air bag module RH | <p>If the door-mounted curtain air bag RH has NOT deployed:</p> <ol style="list-style-type: none"> <li>1. Check for visible signs of damage (dents, tears, deformation, etc.) of the door finisher on the collision side.</li> <li>2. If damaged – REPLACE the door finisher RH with new fasteners.</li> <li>3. Check for visible signs of damage (tears etc.) of the door-mounted curtain air bag module RH.</li> <li>4. Check harness and connectors for damage, and terminals for deformities.</li> <li>5. If no damage is found, reinstall door finisher.<br/><b>CAUTION:</b><br/><b>When removing door-mounted curtain air bag module from door finisher, never reuse door finisher.</b></li> <li>6. If damaged – REPLACE the door finisher RH and door-mounted curtain air bag module RH with new fasteners.</li> </ol>  |
| Pop-up roll bar                        | <p>If the pop-up roll bar has NOT deployed:</p> <ol style="list-style-type: none"> <li>1. Check for visible signs of damage (dents, tears, deformation, etc.) of the pop-up roll bar.</li> <li>2. If damaged – REPLACE the pop-up roll bar with new fasteners.</li> <li>3. Check harness and connectors for damage, and terminals for deformities.</li> <li>4. If no damage is found, reinstall the pop-up roll bar with new fasteners.</li> <li>5. Check for visible signs of damage (dents, cracks, deformation, etc.) of the seatback support brace assembly.</li> <li>6. If damaged – REPAIR the seatback support brace assembly.</li> </ol>   |