

# SECTION **SBC**

## SEAT BELT CONTROL SYSTEM

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

### CONTENTS

<b>BASIC INSPECTION</b> .....	<b>SEAT BELT WARNING SYSTEM</b> .....	2	10
<b>DIAGNOSIS AND REPAIR WORK FLOW</b> .....	Wiring Diagram - SEAT BELT WARNING SYS-	2	10
Work Flow .....	TEM - .....	2	10
<b>SYSTEM DESCRIPTION</b> .....	<b>ECU DIAGNOSIS INFORMATION</b> .....	3	11
<b>SEAT BELT WARNING SYSTEM</b> .....	<b>DIAGNOSIS SENSOR UNIT</b> .....	3	11
System Diagram .....	List of ECU Reference .....	3	11
System Description .....	<b>SYMPTOM DIAGNOSIS</b> .....	3	12
Component Parts Location .....	<b>SEAT BELT WARNING LAMP DOES NOT</b>	4	12
Component Description .....	<b>TURN OFF</b> .....	4	12
<b>DTC/CIRCUIT DIAGNOSIS</b> .....	Diagnosis Procedure .....	5	12
<b>SEAT BELT BUCKLE SWITCH</b> .....	<b>SEAT BELT WARNING LAMP DOES NOT</b>	5	13
<b>DRIVER SIDE</b> .....	<b>TURN ON</b> .....	5	13
DRIVER SIDE : Description .....	Diagnosis Procedure .....	5	13
DRIVER SIDE : Component Function Check .....	<b>PRECAUTION</b> .....	5	14
DRIVER SIDE : Diagnosis Procedure .....	<b>PRECAUTIONS</b> .....	5	14
DRIVER SIDE : Component Inspection (Belt	<b>EXCEPT FOR MEXICO</b> .....	6	14
Buckle Switch) .....	EXCEPT FOR MEXICO : Precaution for Supple-	6	14
<b>PASSENGER SIDE</b> .....	mental Restraint System (SRS) "AIR BAG" and	6	14
PASSENGER SIDE : Description .....	"SEAT BELT PRE-TENSIONER" .....	6	14
PASSENGER SIDE : Component Function Check	EXCEPT FOR MEXICO : Precaution for Battery	7	14
.....	Service .....	7	14
PASSENGER SIDE : Diagnosis Procedure .....	<b>FOR MEXICO</b> .....	7	14
PASSENGER SIDE : Component Inspection (Belt	FOR MEXICO : Precaution for Supplemental Re-	7	14
Buckle Switch) .....	straint System (SRS) "AIR BAG" and "SEAT BELT	8	14
<b>SEAT BELT WARNING LAMP CIRCUIT</b> .....	PRE-TENSIONER" .....	9	14
Diagnosis Procedure .....	FOR MEXICO : Precaution for Battery Service .....	9	15

# DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000008192517

DETAILED FLOW

#### 1.OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain as much malfunction information (conditions and environment when the malfunction occurs) as possible when the customer brings the vehicle in.

>> GO TO 2.

#### 2.REPRODUCE THE MALFUNCTION INFORMATION

Check the malfunction on the vehicle that the customer describes.  
Inspect the relation of the symptoms and the condition when the symptoms occur.

>> GO TO 3.

#### 3.IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"

Use "Symptom diagnosis" from the symptom inspection result in step 2 and then identify where to start performing the diagnosis based on possible causes and symptoms.

>> GO TO 4.

#### 4.IDENTIFY THE MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"

Perform the diagnosis with "Component diagnosis" of the applicable system.

>> GO TO 5.

#### 5.REPAIR OR REPLACE THE MALFUNCTIONING PARTS

Repair or replace the specified malfunctioning parts.

>> GO TO 6.

#### 6.FINAL CHECK

Check that the malfunction is not reproduced, referring to the symptom inspection result in step 2.

Are the malfunctions corrected?

YES >> INSPECTION END  
NO >> GO TO 3.

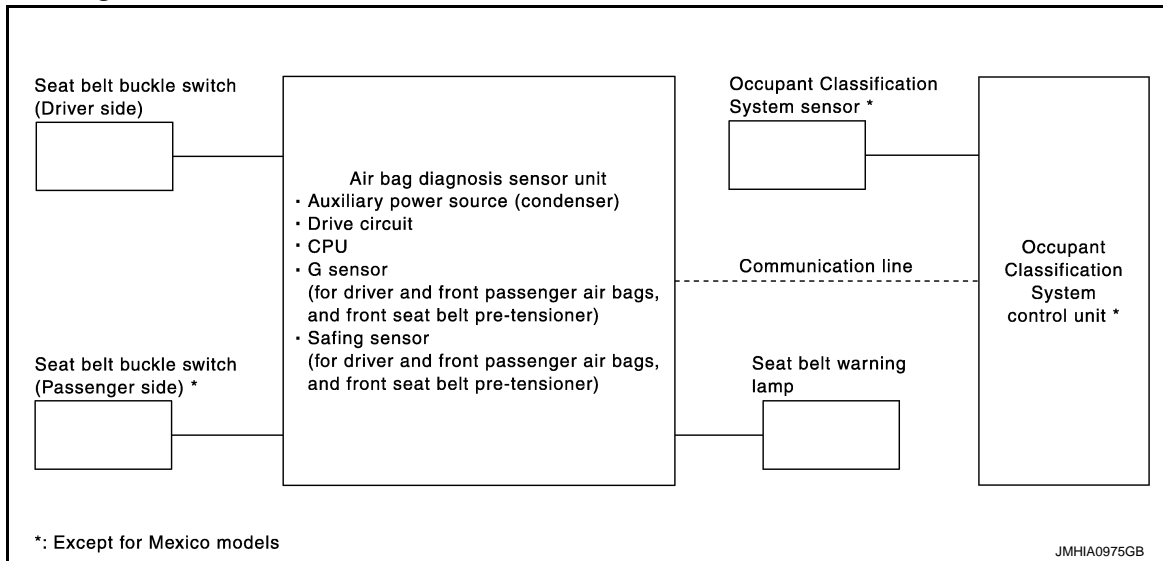
# SEAT BELT WARNING SYSTEM

< SYSTEM DESCRIPTION >

## SYSTEM DESCRIPTION

### SEAT BELT WARNING SYSTEM

#### System Diagram



#### System Description

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SBC

- Turns ON seat belt warning lamp, when the Occupant Classification System judges adult or child in the front passenger seat and the passenger seat belt buckle switch is OFF.\*<sup>1</sup>
- Operation of air bag diagnosis sensor unit when air bag diagnosis sensor unit receives information from Occupant Classification System.
- In addition, seat belt warning lamp illuminates, when the driver side seat belt is not fasten. This does not relate to the air bag diagnosis sensor unit.
- For driver seat belt function, refer to [MWI-6. "METER SYSTEM : System Diagram"](#)

Status (front passenger seat)* <sup>1</sup>	Seat belt warning lamp (When front passenger seat is unbuckled)* <sup>1</sup>
Empty	OFF
An object	OFF
Child/ child-seat	ON
Adult	ON
Malfunction	OFF

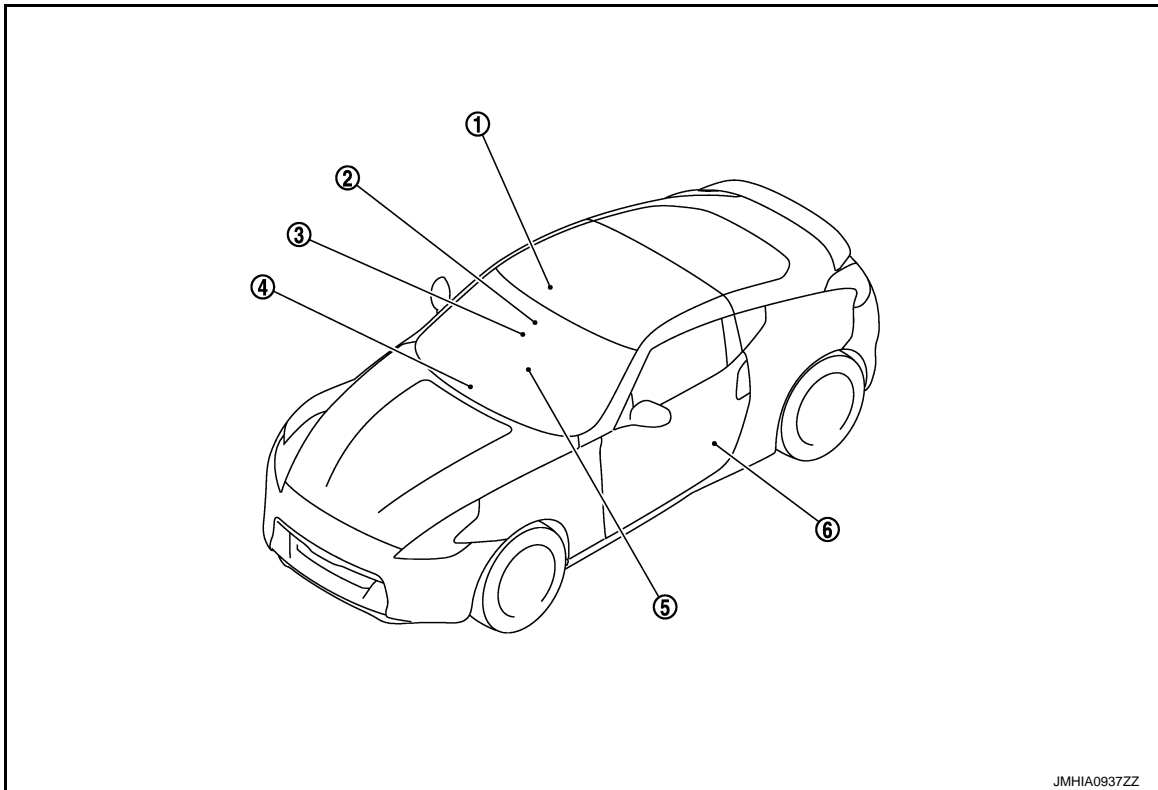
\*<sup>1</sup>: Except for Mexico

# SEAT BELT WARNING SYSTEM

< SYSTEM DESCRIPTION >

## Component Parts Location

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- |  |  |   |
|--|--|---|
| 1. Seat belt buckle switch (passenger side)  | 2. Occupant Classification System control unit *1<br>Refer to <a href="#">SRC-15, "Component Parts Location"</a> | 3. Occupant Classification System seat sensor *1<br>Refer to <a href="#">SRC-15, "Component Parts Location"</a> |
| 4. Front passenger air bag OFF indicator *1<br>Refer to <a href="#">SRC-15, "Component Parts Location"</a> | 5. Air bag diagnosis sensor unit<br>Refer to <a href="#">SRC-15, "Component Parts Location"</a>                  | 6. Seat belt buckle switch (driver side)  |

\*1: Except for Mexico

## Component Description

INFOID:000000008192521

Component parts	Outline of function
Seat belt buckle switch (Driver side)	Detects if the seat belt buckle switch (driver side) is fastened or unfastened
Seat belt buckle switch (Passenger side)	Detects if the seat belt buckle switch (passenger side) is fastened or unfastened
Seat belt warning lamp	Turns the seat belt warning lamp ON when the seat belt is unfastened
Occupant Classification System control unit *1	Judges the passenger seat condition based on the information from Occupant Classification System control unit
Occupant Classification System seat sensor *1	Detects if the passenger seat is empty or occupied
Air bag diagnosis sensor unit	Turns ON seat belt warning lamp based on the information from Occupant Classification System control unit
Front passenger air bag OFF indicator *1	Turns the front passenger air bag OFF indicator lamp ON when the front passenger seat is occupied by a child or a child seat

\*1: Except for Mexico

# SEAT BELT BUCKLE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

### SEAT BELT BUCKLE SWITCH DRIVER SIDE

#### DRIVER SIDE : Description

INFOID:000000008192522

- Performs the control of tension reducer according to the seat belt buckle switch ON/OFF.
- Detects whether or not the seat belt is fastened when the ignition switch turns ON. If the seat belt is not fastened, it illuminates the seat belt warning lamp on the combination meter.
- The seat belt buckle switch is installed in the seat belt buckle.

#### DRIVER SIDE : Component Function Check

INFOID:000000008192523

#### 1.CHECK SEAT BELT BUCKLE SWITCH

 With CONSULT

When checking "BUCKLE SW" in DATA MONITOR in METER/M&A, check that ON/OFF display changes synchronized with the insertion operation to the seat belt buckle.

Monitor item	Condition
BUCKLE SW	When driver side seat belt is not fastened: ON
	When driver side seat belt is fastened: OFF

Is the inspection result normal?

- YES >> Seat belt buckle switch (driver side) circuit is normal.  
NO >> Refer to [SBC-5. "DRIVER SIDE : Diagnosis Procedure"](#).

#### DRIVER SIDE : Diagnosis Procedure

INFOID:000000008192524

#### 1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between seat belt buckle switch (driver side) harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			
B13 <sup>*1</sup> B515 <sup>*2</sup>	1	Ground	When driver side seat belt is fastened	Battery voltage
			When driver side seat belt is not fastened	0

\*1:Without climate controlled seat

\*2:With climate controlled seat

Is the inspection result normal?

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

#### 2.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect combination meter and seat belt buckle switch (driver side) connector.
3. Check continuity between combination meter harness connector and seat belt buckle switch (driver side) harness connector.

Combination meter		Seat belt buckle switch (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M54	35	B13 <sup>*1</sup> B515 <sup>*2</sup>	1	Existed

\*1:Without climate controlled seat

# SEAT BELT BUCKLE SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

\*2:With climate controlled seat

- Check continuity between combination meter harness connector and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M54	35		Not existed

Is the inspection result normal?

YES >> Repair or replace combination meter. Refer to [MWI-92. "Removal and Installation"](#).

NO >> Repair or replace harness.

### 3.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check continuity between seat belt buckle switch (driver side) harness connector and ground.

Seat belt buckle switch (driver side)		Ground	Continuity
Connector	Terminal		
B13 <sup>*1</sup> B515 <sup>*2</sup>	2		Existed

\*1:Without climate controlled seat

\*2:With climate controlled seat

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

Check seat belt buckle switch (driver side). Refer to [SBC-6. "DRIVER SIDE : Component Inspection \(Belt Buckle Switch\)"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (driver side). Refer to [SB-10. "SEAT BELT BUCKLE : Removal and Installation"](#).

## DRIVER SIDE : Component Inspection (Belt Buckle Switch)

INFOID:000000008192525

### 1.CHECK SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

- Turn ignition switch OFF
- Disconnect seat belt buckle switch connector.
- Check continuity of seat belt buckle (driver side).

Seat belt buckle switch (driver side)		Condition	Continuity
Terminal			
1	2	When driver side seat belt is not fastened	Existed
		When driver side seat belt is fastened	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (driver side).

## PASSENGER SIDE

### PASSENGER SIDE : Description

INFOID:000000008192526

- Performs the control of tension reducer according to the seat belt buckle switch ON/OFF.
- Detects whether or not the seat belt is fastened when the ignition switch turns ON. If the seat belt switch is not fastened, it illuminates the seat belt warning lamp on the combination meter.
- The seat belt buckle switch is installed in the seat belt buckle.

# SEAT BELT BUCKLE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## PASSENGER SIDE : Component Function Check

INFOID:000000008192527

### 1. CHECK SEAT BELT WARNING FUNCTION

1. Sit down in passenger seat.
2. Check that seat belt warning lamp turns OFF when passenger seat belt is fastened, and then turns ON when passenger seat belt is unfastened.

Is the inspection result normal?

- YES >> Seat belt buckle switch (passenger side) circuit is normal.  
 NO >> Refer to [SBC-7, "PASSENGER SIDE : Diagnosis Procedure"](#).

## PASSENGER SIDE : Diagnosis Procedure

INFOID:000000008192528

### 1. CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) CIRCUIT

1. Turn ignition switch ON.
2. Check that voltage between seat belt buckle switch (passenger side) and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)
Seat belt buckle switch (passenger side)				
Connector	Terminal			
B213*1 B565*2	1	Ground	When passenger side seat belt is fastened	2.0 or more
			When passenger side seat belt is not fastened	0

\*1:Without climate controlled seat

\*2:With climate controlled seat

Is the inspection result normal?

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

### 2. CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect air bag diagnosis sensor unit connector and seat belt buckle switch (passenger side) connector.
3. Check continuity between air bag diagnosis sensor unit harness connector and seat belt buckle switch (passenger side) harness connector.

Air bag diagnosis sensor unit		Seat belt buckle switch (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
B215	29	B213*1 B565*2	1	Existed

\*1:Without climate controlled seat

\*2:With climate controlled seat

4. Check continuity between air bag diagnosis sensor unit harness connector and ground.

Air bag diagnosis sensor unit		Ground	Continuity
Connector	Terminal		
B215	29		Not existed

Is the inspection result normal?

- YES >> Replace air bag diagnosis sensor unit. Refer to [SR-30, "COUPE : Removal and Installation"](#).  
 NO >> Repair or replace harness between air bag diagnosis sensor unit and seat belt buckle switch (passenger side).

### 3. CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check continuity between seat belt buckle switch (passenger side) harness connector and ground.

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# SEAT BELT BUCKLE SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

Seat belt buckle switch (passenger side)		Ground	Continuity
Connector	Terminal		
B213*1 B565*2	2		Existed

\*1:Without climate controlled seat

\*2:With climate controlled seat

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

Check seat belt buckle switch (passenger side). Refer to [SBC-8, "PASSENGER SIDE : Component Inspection \(Belt Buckle Switch\)"](#).

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (passenger side). Refer to [SB-10, "SEAT BELT BUCKLE : Removal and Installation"](#).

## PASSENGER SIDE : Component Inspection (Belt Buckle Switch)

INFOID:000000008192529

## 1.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

1. Turn ignition switch OFF.
2. Disconnect seat belt buckle switch connector.
3. Check continuity of seat belt buckle (passenger side).

Seat belt buckle switch (passenger side)		Condition	Continuity
Terminal			
1	2	When driver side seat belt is not fastened	Existed
		When driver side seat belt is fastened	Not existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (passenger side). Refer to [SB-10, "SEAT BELT BUCKLE : Removal and Installation"](#).



# SEAT BELT WARNING LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## SEAT BELT WARNING LAMP CIRCUIT

### Diagnosis Procedure

INFOID:000000008192530

#### 1. CHECK SEAT BELT WARNING LAMP CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect combination meter connector.
3. Turn ignition switch ON.
4. Check that voltage between combination meter harness connector and ground.

combination meter		Ground	Voltage (V) (Approx.)
Connector	Terminal		Battery voltage
M53	36		

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace combination meter. Refer to [MWI-92, "Removal and Installation"](#).

#### 2. CHECK SEAT BELT WARNING LAMP CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect air bag diagnosis sensor unit connector.
3. Check continuity between combination meter harness connector and air bag diagnosis sensor unit harness connector.

Combination meter		Air bag diagnosis sensor unit		Continuity
Connector	Terminal	Connector	Terminal	
B53	36	M147	24	Existed

4. Check continuity between combination meter and ground.

Combination meter		Ground	Continuity
Connector	Terminal		Not existed
B53	36		

Is the inspection result normal?

YES >> Replace air bag diagnosis sensor unit. Refer to [SR-30, "COUPE : Removal and Installation"](#).

NO >> Repair or replace harness.


# SEAT BELT WARNING SYSTEM

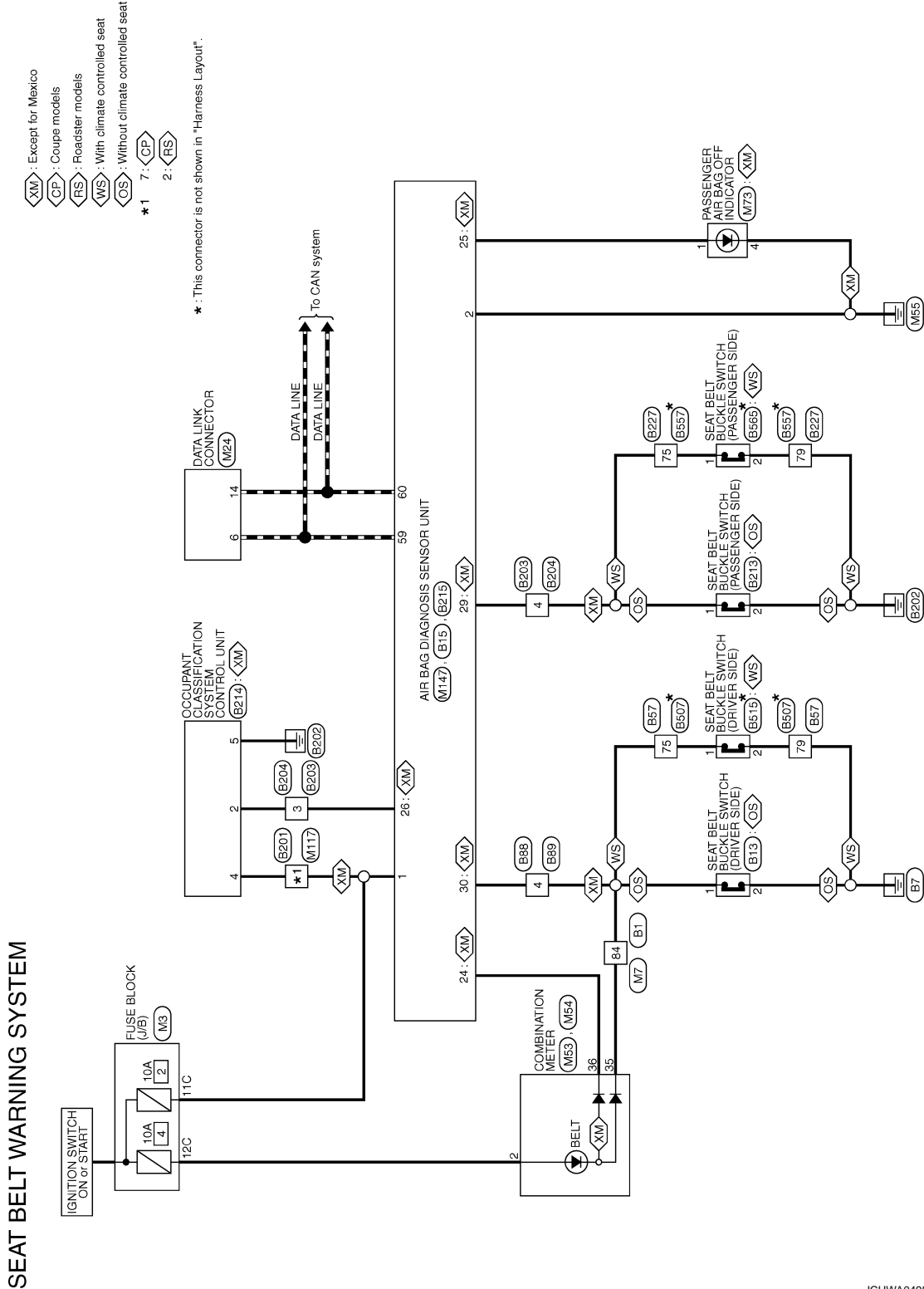
< DTC/CIRCUIT DIAGNOSIS >

## SEAT BELT WARNING SYSTEM

### Wiring Diagram - SEAT BELT WARNING SYSTEM -

INFOID:000000008192531

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).



# DIAGNOSIS SENSOR UNIT

< ECU DIAGNOSIS INFORMATION >

## ECU DIAGNOSIS INFORMATION

### DIAGNOSIS SENSOR UNIT

List of ECU Reference

INFOID:000000008192532

ECU	Body type	Reference
Diagnosis sensor unit	Coupe	<a href="#">SRC-170, "DTC Index"</a>
		<a href="#">SRC-174, "Wiring Diagram - SRS AIR BAG CONTROL SYSTEM -"</a>
	Roadster	<a href="#">SRC-348, "DTC Index"</a>
		<a href="#">SRC-352, "Wiring Diagram - SRS AIR BAG CONTROL SYSTEM -"</a>

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# SEAT BELT WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

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## SYMPTOM DIAGNOSIS

### SEAT BELT WARNING LAMP DOES NOT TURN OFF

#### Diagnosis Procedure

INFOID:000000008192533

#### 1. CHECK SEAT BELT BUCKLE SWITCH CIRCUIT (DRIVER SIDE)

---

Check seat belt buckle switch circuit (driver side). Refer to [SBC-5. "DRIVER SIDE : Component Function Check"](#)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

#### 2. CHECK SEAT BELT BUCKLE SWITCH CIRCUIT (PASSENGER SIDE)

---

Check seat belt buckle switch circuit (passenger side). Refer to [SBC-7. "PASSENGER SIDE : Component Function Check"](#)

#### NOTE:

Except for Mexico

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### 3. CHECK SEAT BELT WARNING LAMP CIRCUIT

---

Check seat belt warning lamp circuit. Refer to [SBC-9. "Diagnosis Procedure"](#)

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

#### 4. CONFIRM THE OPERATION

---

Confirm the operation again.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-45. "Intermittent Incident"](#).

NO >> GO TO 1.

# SEAT BELT WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

## SEAT BELT WARNING LAMP DOES NOT TURN ON

### Diagnosis Procedure

INFOID:000000008192534

#### 1.CHECK SELF DIAGNOSIS RESULT

Perform "COMBINATION METER" self diagnostic result. Refer to [MWI-34, "CONSULT Function \(METER/M&A\)"](#)

Is DTC detected?

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

#### 2.CHECK POWER SUPPLY

Check that fuses are not blown.

Check ignition power supply of combination meter. Refer to [MWI-45, "COMBINATION METER : Diagnosis Procedure"](#)

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

#### 3.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT (DRIVER SIDE)

Check seat belt buckle switch circuit (driver side). Refer to [SBC-5, "DRIVER SIDE : Component Function Check"](#)

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace the malfunctioning parts.

#### 4..CHECK SEAT BELT BUCKLE SWITCH CIRCUIT (PASSENGER SIDE)

Check seat belt buckle switch circuit (passenger side). Refer to [SBC-7, "PASSENGER SIDE : Component Function Check"](#)

#### **NOTE:**

Except for Mexico

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace the malfunctioning parts.

#### 5..CHECK SEAT BELT WARNING LAMP CIRCUIT

Check seat belt warning lamp circuit. Refer to [SBC-9, "Diagnosis Procedure"](#)

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Repair or replace the malfunctioning parts.

#### 6.CONFIRM THE OPERATION

Confirm the operation again.

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-45, "Intermittent Incident"](#).
- NO >> GO TO 1.

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# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

#### EXCEPT FOR MEXICO

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

INFOID:000000008192535

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

Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### **WARNING:**

**Always observe the following items for preventing accidental activation.**

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".**
- **Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

#### **WARNING:**

**Always observe the following items for preventing accidental activation.**

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

#### EXCEPT FOR MEXICO : Precaution for Battery Service

INFOID:000000008192536

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.

#### FOR MEXICO

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

INFOID:000000008192537

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

#### **WARNING:**

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- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**

# PRECAUTIONS

## < PRECAUTION >

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- **Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

### **WARNING:**

**Always observe the following items for preventing accidental activation.**

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

## FOR MEXICO : Precaution for Battery Service

INFOID:000000008192538

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.

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