

# SECTION **SBC**

## SEAT BELT CONTROL SYSTEM

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# DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000001182720

DETAILED FLOW

#### 1.OBTAIN INFORMATION ABOUT SYMPTOM

Interview the customer to obtain the malfunction information (conditions and environment when the malfunction occurred) as much 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. Then identify where to start performing the diagnosis based on possible causes and symptoms.

>> GO TO 4.

#### 4.IDENTIFY 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 malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 2.

Are all malfunctions corrected?

YES >> INSPECTION END

NO >> GO TO 3.

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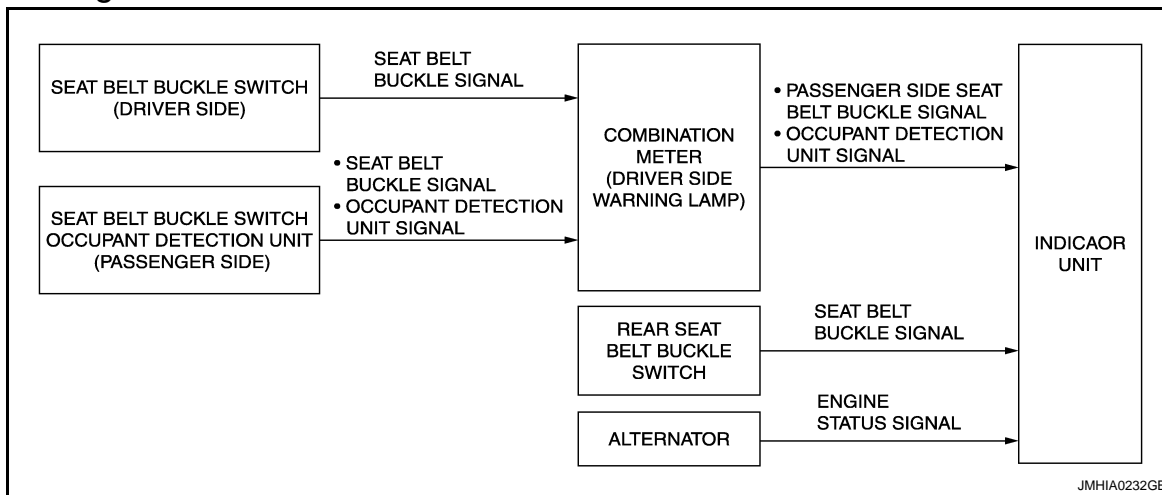
# SEAT BELT WARNING LAMP

< FUNCTION DIAGNOSIS >

## FUNCTION DIAGNOSIS

### SEAT BELT WARNING LAMP

#### System Diagram



#### System Description

INFOID:000000001182722

Seat belt warning lamp will light up if the driver has started the engine or turned ignition switch to ON position.

#### DRIVER SIDE SEAT BELT WARNING LAMP OPERATION

- Driver side seat belt warning lamp is built in combination meter.
- Warning lamp lights up if seat belt buckle switch is in OFF position (unbuckled).
- Warning lamp turns off if seat belt buckle switch is in ON position (buckled).

#### PASSENGER SIDE SEAT BELT WARNING LAMP OPERATION

- Passenger side seat belt warning lamp is located on center consol indicator unit.
- There is an occupant detection unit situated inside passenger seat. Note that passenger seat belt warning lamp will not light up if the seat is unoccupied.
- If passenger seat is occupied and seat belt buckle is in OFF position warning lamp will light up.
- If passenger seat is occupied and seat belt buckle is in ON position warning lamp will turn off.

#### REAR SEAT BELT WARNING LAMP OPERATION

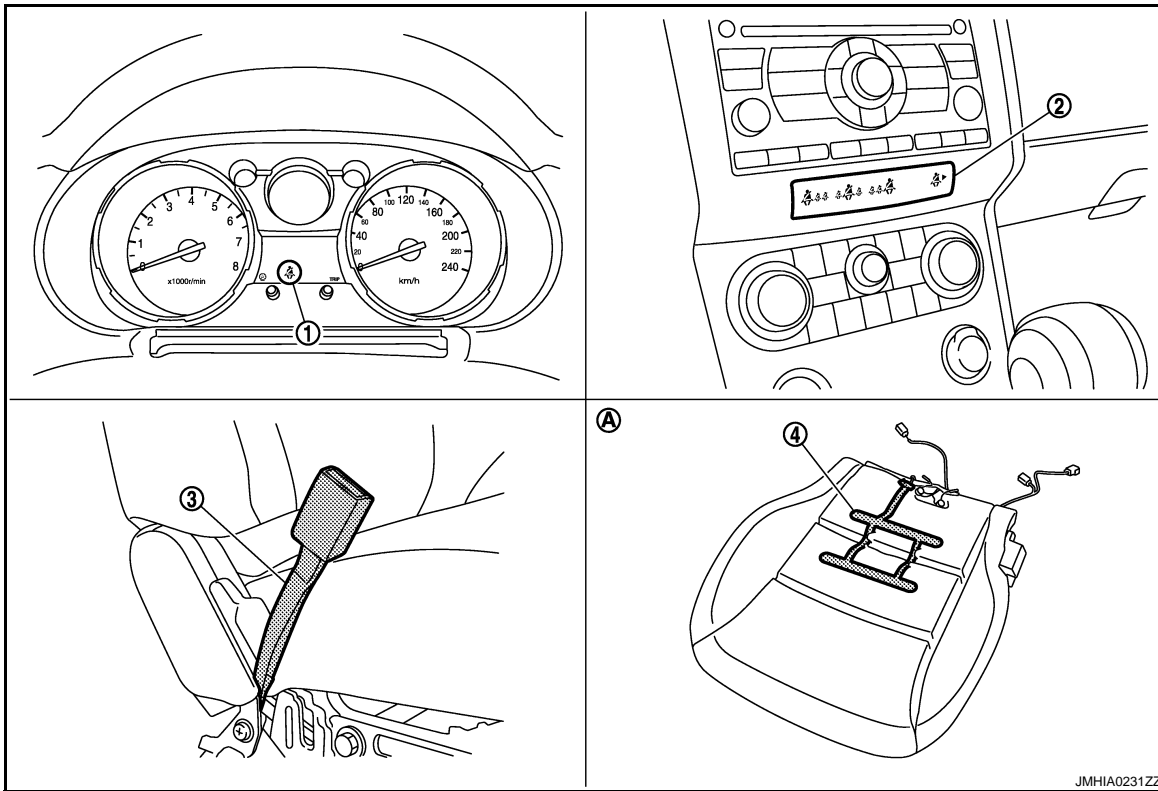
- Rear seat belt warning lamps are located on center consol indicator unit.
- After the engine has been started, the rear seat belt warning lights up for approximately 35 seconds if the seat belt is unfastened.
- After the engine has been started for approximately 35 seconds, all the rear seat belts warning lamps will turn OFF regardless of the seat belts status. Therefore if any of the rear seat belts are fastened/unfastened, the unfastened warning lamps will illuminate for 35 seconds.

# SEAT BELT WARNING LAMP

< FUNCTION DIAGNOSIS >

## Component Parts Location

INFOID:000000001182723



- 1. Seat belt warning lamp (built in combination meter M34)
- 2. Indicator unit M91
- 3. Front seat belt buckle switch (driver side) B22
- 4. Occupant detection unit B48
- A. Behind seat cushion trim

## Component Description

INFOID:000000001182724

Item	Function
Combination meter	<ul style="list-style-type: none"> <li>• Driver seat belt warning lamp is built in combination meter.</li> <li>• Detects the status of driver side, passenger side seat belt buckle switch and controls warning lamp operation.</li> </ul>
Indicator unit	<ul style="list-style-type: none"> <li>• Passenger side and rear seat belt warning lamps are built in indicator unit.</li> <li>• Detects the status of rear seat belt buckle switch and controls the warning lamp illumination.</li> <li>• Judges the status of engine by detection of the signal transmitted by alternator and performs the control of seat belt warning lamp ON/OFF function.</li> </ul>
Seat belt buckle switch (driver/passenger/rear)	Detects seat belt feature status transmits signal to combination meter or to indicator unit.
Occupant detection unit	Detects the seat status (occupied or unoccupied) and then transmits signal to combination meter or to indicator unit.

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# INDICATOR UNIT POWER SUPPLY CIRCUIT

< COMPONENT DIAGNOSIS >

## COMPONENT DIAGNOSIS

### INDICATOR UNIT POWER SUPPLY CIRCUIT

#### Component Function Check

INFOID:000000001182725

#### 1.CHECK INDICATOR UNIT FUNCTION

1. All seat belt buckle are unbuckle.
2. Turn ignition switch ON.
3. Check indicator unit operation.

Is the inspection results normal?

- YES >> Indicator unit power supply circuit is OK.  
NO >> Refer to [SBC-6. "Diagnosis Procedure"](#).

#### Diagnosis Procedure

INFOID:000000001182726

#### 1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check the following.
  - 10A fuse (No. 4 located in fuse block-junction box).

Is the inspection result normal?

- YES >> GO TO 2.  
NO >> Replace the blown fuse after repairing the affected if a fuse blown.

#### 2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between indicator unit harness connector and ground.

Indicator unit		Ground	Voltage (V) (Approx.)
Connector	Terminal		
M91	7	Ground	Battery voltage

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Repair or replace power supply circuit.

#### 3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#)

>> INSPECTION END

# FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

< COMPONENT DIAGNOSIS >

## FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

### Description

INFOID:000000001182727

- Detects if the seat belt is fastened or unfastened.
- Warning lamp turns OFF if the seat belt is fastened.

### Component Function Check

INFOID:000000001182728

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

Check "SEAT BELT W/L" in DATA MONITOR mode with CONSULT-III

**Driver seat belt is unfastened      SEAT BELT W/L : ON**  
**Driver seat belt is fastened        SEAT BELT W/L : OFF**

Is the inspection results normal?

- YES    >> Seat belt buckle switch (driver side) function is OK.  
 NO     >> Refer to [SBC-7, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000001182729

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

1. Turn ignition switch ON.
2. Check voltage between combination meter harness connector and ground.

Combination meter		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
M34	35	Ground	Driver seat belt is unfastened	0
			Driver seat belt is fastened	5

Is the inspection result normal?

- YES    >> GO TO 6.  
 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	
M34	35	B22	1	Existed

4. Check continuity between combination meter harness connector and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M34	35	Ground	Not existed

Is the inspection result normal?

- YES    >> GO TO 3.  
 NO     >> Repair or replace harness.

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

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

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# FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)

## < COMPONENT DIAGNOSIS >

Seat belt buckle switch (driver side)		Ground	Continuity
Connector	Terminal		
B22	2	Ground	Existed

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-8, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat belt buckle switch (driver side). Refer to [SB-9, "SEAT BELT BUCKLE : Removal and Installation"](#).

### 5.CHECK COMBINATION METER OUTPUT SIGNAL

1. Connect combination meter connector.
2. Turn ignition switch ON.
3. Check voltage between combination meter harness connector and ground.

Combination meter		Ground	Voltage (V) (Approx.)
Connector	Terminal		
M34	35	Ground	5

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace combination meter. Refer to [MWI-78, "Removal and Installation"](#).

### 6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#)

>> INSPECTION END

## Component Inspection

INFOID:000000001182730

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

Check continuity between seat belt buckle switch (driver side) connectors.

Seat belt buckle switch (driver side)		Condition	Continuity
Connector	Terminal		
B22	1	When seat belt is unfastened	Existed
	2		
	1	When seat belt is fastened	Not existed
	2		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (driver side). Refer to [SB-9, "SEAT BELT BUCKLE : Removal and Installation"](#).



# FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

< COMPONENT DIAGNOSIS >

## FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

### Description

INFOID:000000001182731

- Detects if the seat belt is fastened or unfastened.
- Warning lamp turns OFF if the seat belt is fastened.

### Component Function Check

INFOID:000000001182732

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

1. Turn ignition switch ON.
2. Sits in the passenger seat.
3. Fasten the passenger seat belt buckle.
4. Check if the warning lamp turns OFF as soon as the seat belt is fastened.

Is the inspection results normal?

- YES >> Seat belt buckle switch (passenger side) function is OK.  
NO >> Refer to [SBC-9, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000001182733

#### 1.CHECK COMBINATION METER INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between combination meter harness connector and ground.

Combination meter		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
M34	14	Ground	Passenger seat belt is unfastened	0
			Passenger seat belt is fastened	Battery voltage

Is the inspection result normal?

- OK >> GO TO 10.  
NO >> GO TO 2.

#### 2.CHECK INDICATOR UNIT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect indicator unit connector and combination meter connector.
3. Check continuity between indicator unit harness connector and combination meter harness connector.

Indicator unit		Combination meter		Continuity
Connector	Terminal	Connector	terminal	
M91	1	M34	14	Existed

4. Check continuity between indicator unit harness connector and ground.

Indicator unit		Ground	Continuity
Connector	Terminal		
M91	1	Ground	Not existed

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Repair or replace harness.

#### 3.CHECK SEAT BELT BUCKLE SWITCH (PASSENGER SIDE) FUNCTION

1. Connect combination meter connector.
2. Turn ignition switch ON.
3. Sits in the passenger seat.
4. Check voltage between combination meter harness connector and ground.

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# FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

## < COMPONENT DIAGNOSIS >

Combination meter		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
M34	36	Ground	Passenger seat belt is unfastened	0
			Passenger seat belt is fastened	Battery voltage

Is the inspection result normal?

YES >> GO TO 10.

NO >> GO TO 4.

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

- Turn ignition switch OFF.
- Disconnect seat belt buckle switch (passenger side) connector and combination meter connector.
- Check continuity between combination meter harness connector and seat belt buckle switch (passenger side) harness connector.

Combination meter		Seat belt buckle switch (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M34	36	B23	1	Existed

- Check continuity between combination meter harness connector and ground.

Combination meter		Ground	Continuity
Connector	Terminal		
M34	36	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

### 5. CHECK OCCUPANT DETECTION UNIT CIRCUIT

- Disconnect occupant detection unit connector.
- Check continuity between seat belt buckle switch (passenger side) harness connector and occupant detection unit harness connector.

Seat belt buckle switch (passenger side)		Occupant detection unit		Continuity
Connector	Terminal	Connector	Terminal	
B23	2	B48	1	Existed

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

Seat belt buckle switch (passenger side)		Ground	Continuity
Connector	Terminal		
B23	2	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

### 6. CHECK GROUND CIRCUIT

Check continuity between occupant detection unit harness connector and ground.

Occupant detection unit		Ground	Continuity
Connector	Terminal		
B48	2	Ground	Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

# FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

## < COMPONENT DIAGNOSIS >

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

Check seat belt buckle switch (passenger side).

Refer to [SBC-11, "Component Inspection \(seat belt buckle switch passenger side\)"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace seat belt buckle switch (passenger side). Refer to [SB-9, "SEAT BELT BUCKLE : Removal and Installation"](#).

### 8. CHECK OCCUPANT DETECTION UNIT

Check occupant detection unit.

Refer to [SBC-11, "Component Inspection \(occupant detection unit\)"](#).

Is the inspection result normal?

YES >> GO TO 9.

NO >> Replace occupant detection unit. Refer to [SE-15, "Disassembly and Assembly"](#).

### 9. CHECK COMBINATION METER OUTPUT SIGNAL

1. Connect combination meter connector.
2. Turn ignition switch ON.
3. Check voltage between combination meter harness connector and ground.

Combination meter		Ground	Voltage (V) (Approx.)
Connector	Terminal		
M34	36	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 10.

NO >> Replace combination meter. Refer to [MWI-78, "Removal and Installation"](#).

### 10. CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#)

>> INSPECTION END

## Component Inspection (seat belt buckle switch passenger side)

INFOID:000000001182734

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

Check continuity between seat belt buckle switch (passenger side) connectors.

Seat belt buckle switch (passenger side)		Condition	Continuity
Connector	Terminal		
B23	1	When seat belt is unfastened	Existed
	2		
	1	When seat belt is fastened	Not existed
	2		

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace seat belt buckle switch (passenger side). Refer to [SB-9, "SEAT BELT BUCKLE : Removal and Installation"](#).

## Component Inspection (occupant detection unit)

INFOID:000000001182735

### 1. CHECK OCCUPANT DETECTION UNIT

Check continuity between occupant detection unit connectors.

## FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)

### < COMPONENT DIAGNOSIS >

Occupant detection unit		Condition	Continuity
Connector	Terminal		
B48	1	When getting in the passenger seat	Existed
	2		
	1	Other than above	Not existed
	2		

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace occupant detection unit. Refer to [SE-15. "Disassembly and Assembly"](#).

# REAR SEAT BELT BUCKLE SWITCH

< COMPONENT DIAGNOSIS >

## REAR SEAT BELT BUCKLE SWITCH

### Description

INFOID:000000001182736

- Detects if the seat belt is fastened or unfastened.
- Warning lamp turns OFF if the seat belt is fastened.

### Component Function Check

INFOID:000000001182737

#### 1.CHECK REAR SEAT BELT BUCKLE SWITCH FUNCTION

1. Start engine.
2. Check that the LH, center and RH warning lamp illuminate after the engine has started.
3. Check if the warning lamp turns OFF as soon as the seat belt is fastened.

Is the inspection results normal?

- YES >> Rear seat belt buckle switch function is OK.  
 NO >> Refer to [SBC-13, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000001182738

#### 1.CHECK REAR SEAT BELT BUCKLE CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between rear seat belt buckle switch harness connector and ground.

Rear seat belt buckle switch		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
B63 (LH and center)	1	Ground	Rear seat belt (LH) is fastened	Battery voltage
			Rear seat belt (LH) is unfastened	0
	3		Rear seat belt (center) is fastened	Battery voltage
			Rear seat belt (center) is unfastened	0
B64 (RH and center)	1		Rear seat belt (RH) is fastened	Battery voltage
			Rear seat belt (RH) is unfastened	0
	3		Rear seat belt (center) is fastened	Battery voltage
			Rear seat belt (center) is unfastened	0

Is the inspection result normal?

- YES >> GO TO 6.  
 NO >> GO TO 2.

#### 2.CHECK INDICATOR UNIT OUTPUT SIGNAL

Check voltage between indicator unit harness connector and ground.

Indicator unit		Ground	Voltage (V) (Approx.)
Connector	Terminal		
M91	3	Ground	Battery voltage
	4		
	5		

Is the inspection result normal?

- YES >> GO TO 3.  
 NO >> Replace indicator unit. Refer to [SBC-35, "Removal and Installation"](#).

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

1. Turn ignition switch OFF.
2. Disconnect indicator unit and rear seat belt buckle switch connector.

# REAR SEAT BELT BUCKLE SWITCH

## < COMPONENT DIAGNOSIS >

3. Check continuity between indicator unit harness connector and rear seat belt buckle switch harness connector.

Indicator unit		Rear seat belt buckle switch		Continuity
Connector	Terminal	Connector	Terminal	
M91	3	B63 (LH and center)	1	Existed
	4		3	
	5	B64 (RH and center)	3	
	1			

4. Check continuity between indicator unit harness connector and ground.

Indicator unit		Ground	Continuity
Connector	Terminal		
M91	3	Ground	Not existed
	4		
	5		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4.CHECK GROUND CIRCUIT

Check continuity between rear seat belt buckle switch harness connector and ground.

Rear seat belt buckle switch		Ground	Continuity
Connector	Terminal		
B63 (LH and center)	2	Ground	Existed
	4		
B64 (RH and center)	2		
	4		

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

## 5.CHECK REAR SEAT BELT BUCKLE SWITCH

Check rear seat belt buckle switch.

Refer to [SBC-14. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace rear seat belt buckle switch. Refer to [SB-17. "SEAT BELT BUCKLE : Removal and Installation"](#).

## 6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#)

>> INSPECTION END

## Component Inspection

INFOID:000000001182739

## 1.CHECK SEAT BELT BUCKLE SWITCH

Check continuity between rear seat belt buckle switch connector.

# REAR SEAT BELT BUCKLE SWITCH

## < COMPONENT DIAGNOSIS >

Rear seat belt buckle switch		Condition	Continuity
Connector	Terminal		
B63 (LH and center)	1	2	Rear seat belt (LH) is unfastened Existed
		2	Rear seat belt (LH) is fastened Not existed
	3	4	Rear seat belt (center) is unfastened Existed
		4	Rear seat belt (center) is fastened Not existed
B64 (RH and center)	1	2	Rear seat belt (RH) is unfastened Existed
		2	Rear seat belt (RH) is fastened Not existed
	3	4	Rear seat belt (center) is unfastened Existed
		4	Rear seat belt (center) is fastened Not existed

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace seat belt buckle switch. Refer to [SB-17. "SEAT BELT BUCKLE : Removal and Installation"](#).

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# ALTERNATOR SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

## ALTERNATOR SIGNAL CIRCUIT

### Description

INFOID:000000001182740

Transmits the "engine started" signal to indicator unit.

### Component Function Check

INFOID:000000001182741

#### 1.CHECK ALTERNATOR SIGNAL CIRCUIT

Check if the warning lamp turns OFF, approximately 35 seconds after the engine has started.

Is the inspection results normal?

- YES >> Alternator signal circuit is OK.  
NO >> Refer to [SBC-16, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000001182742

#### 1.CHECK INDICATOR UNIT INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect indicator unit connector.
3. Turn ignition switch ON.
4. Check voltage between indicator unit harness connector and ground.

Indicator unit		Ground	Condition	Voltage (V) (Approx.)
Connector	Terminal			
M91	6	Ground	Engine running	Battery voltage
			Other than above	0

Is the inspection result normal?

- YES >> Replace indicator unit. Refer to [SBC-35, "Removal and Installation"](#).  
NO >> GO TO 2.

#### 2.CHECK ALTERNATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect alternator connector.
3. Check continuity between indicator unit harness connector and alternator harness connector.

Indicator unit		Alternator		Continuity
Connector	Terminal	Connector	terminal	
M91	6	F15* <sup>1</sup>	3* <sup>1</sup>	Existed
		F60* <sup>2</sup>	4* <sup>2</sup>	

\*<sup>1</sup> Except K9K engine

\*<sup>2</sup> With K9K engine

4. Check continuity between indicator unit harness connector and ground.

Indicator unit		Ground	Continuity
Connector	Terminal		
M91	6	Ground	Not existed

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Repair or replace harness.

#### 3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#)



# ALTERNATOR SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

---

>> INSPECTION END

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# COMBINATION METER

< ECU DIAGNOSIS >

## ECU DIAGNOSIS

### COMBINATION METER

Reference Value

INFOID:000000001555137

#### VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition		Value/Status
SPEED METER [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading <b>NOTE:</b> 655.35 is displayed when the malfunction signal is received
SPEED OUTPUT [km/h]	Ignition switch ON	While driving	Equivalent to speedometer reading <b>NOTE:</b> 655.35 is displayed when the malfunction signal is received
TACHO METER [rpm]	Ignition switch ON	While driving	Equivalent to tachometer reading <b>NOTE:</b> 8191.875 is displayed when the malfunction signal is received
W TEMP METER [°C]	Ignition switch ON	—	Values according to engine coolant temperature <b>NOTE:</b> 215 is displayed when the malfunction signal is input
FUEL METER [lit]	Ignition switch ON	—	Values according to fuel level
DISTANCE [km]	Ignition switch ON	—	Possible driving distance calculated by combination meter
FUEL W/L	Ignition switch ON	Low-fuel warning lamp ON	On
		Low-fuel warning lamp OFF	Off
C-ENG W/L	Ignition switch ON	Malfunction indicator lamp ON	On
		Malfunction indicator lamp OFF	Off
SEAT BELT W/L	Ignition switch ON	Seat belt warning lamp ON	On
		Seat belt warning lamp OFF	Off
BUZZER	Ignition switch ON	Buzzer ON	On
		Buzzer OFF	Off
C-ENG 2 W/L	Ignition switch ON	Malfunction indicator lamp 2 ON	On
		Malfunction indicator lamp 2 OFF	Off
GLOW IND	Ignition switch ON	Glow indicator lamp ON	On
		Glow indicator lamp OFF	Off
DOOR W/L	Ignition switch ON	Door warning lamp ON	On
		Door warning lamp OFF	Off
HI-BEAM IND	Ignition switch ON	High-beam indicator lamp ON	On
		High-beam indicator lamp OFF	Off
TURN IND	Ignition switch ON	Turn signal indicator lamp ON	On
		Turn signal indicator lamp OFF	Off
FR FOG IND	Ignition switch ON	Front fog lamp indicator lamp ON	On
		Front fog lamp indicator lamp OFF	Off
RR FOG IND	Ignition switch ON	Rear fog lamp indicator lamp ON	On
		Rear fog lamp indicator lamp OFF	Off

# COMBINATION METER

## < ECU DIAGNOSIS >

Monitor Item	Condition		Value/Status	
OIL W/L	Ignition switch ON	Oil pressure warning lamp ON	On	A
		Oil pressure warning lamp OFF	Off	
LIGHT IND	Ignition switch ON	Tail lamp indicator lamp ON	On	B
		Tail lamp indicator lamp OFF	Off	
DPF W/L	Ignition switch ON	DPF warning lamp ON	On	C
		DPF warning lamp OFF	Off	
AT TEMP W/L	Ignition switch ON	A/T TEMP warning lamp ON	On	D
		A/T TEMP warning lamp OFF	Off	
VDC/TCS IND	Ignition switch ON	ESP OFF indicator lamp ON	On	E
		ESP OFF indicator lamp OFF	Off	
ABS W/L	Ignition switch ON	ABS warning lamp ON	On	F
		ABS warning lamp OFF	Off	
SLIP IND	Ignition switch ON	SLIP Indicator lamp ON	On	G
		SLIP indicator lamp OFF	Off	
BRAKE W/L	Ignition switch ON	Brake warning lamp ON	On	
		Brake warning lamp OFF	Off	
OIL LEVEL IND	Ignition switch ON	Oil level 1 is detected	LEVEL1	
		Oil level 2 is detected	LEVEL2	
		Oil level 3 is detected	LEVEL3	
		Oil level 4 is detected	LEVEL4	
		Oil level 5 is detected	LEVEL5	
		OIL LOW is detected	On	
		Oil level is not detected	CR NG	
KEY G W/L	Ignition switch ON	KEY warning lamp (green) ON	On	J
		KEY warning lamp (green) OFF	Off	
KEY R W/L	Ignition switch ON	KEY warning lamp (red) ON	On	K
		KEY warning lamp (red) OFF	Off	
KEY KNOB W/L	Ignition switch ON	LOCK warning lamp ON	On	L
		LOCK warning lamp OFF	Off	
M RANGE SW	Ignition switch ON	Manual mode	On	
		Other than the above	Off	M
NM RANGE SW	Ignition switch ON	Manual mode	Off	
		Other than the above	On	
AT SFT UP SW	Ignition switch ON	Selector lever (+) position	On	N
		Other than the above	Off	
AT SFT DWN SW	Ignition switch ON	Selector lever (-) position	On	O
		Other than the above	Off	
P RANGE IND	Ignition switch ON	Selector lever in P position	On	
		Other than the above	Off	P
R RANGE IND	Ignition switch ON	Selector lever in R position	On	
		Other than the above	Off	
N RANGE IND	Ignition switch ON	Selector lever in N position	On	
		Other than the above	Off	

SBC

# COMBINATION METER

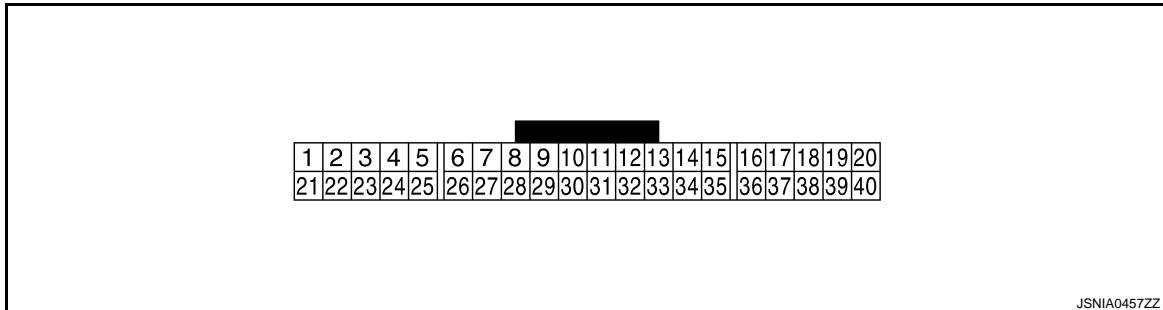
## < ECU DIAGNOSIS >

Monitor Item	Condition		Value/Status
D RANGE IND	Ignition switch ON	Selector lever in D position	On
		Other than the above	Off
4 RANGE IND	Ignition switch ON	Shift indicator 4 is displayed	On
		Other than the above	Off
3 RANGE IND	Ignition switch ON	Shift indicator 3 is displayed	On
		Other than the above	Off
2 RANGE IND	Ignition switch ON	Shift indicator 2 is displayed	On
		Other than the above	Off
1 RANGE IND	Ignition switch ON	Shift indicator 1 is displayed	On
		Other than the above	Off
AT CHECK-W/L	Ignition switch ON	TCM electronic control system warning lamp ON	On
		TCM electronic control system warning lamp OFF	Off
CVT IND	Ignition switch ON	CVT indicator lamp ON	On
		CVT indicator lamp OFF	Off
CRUISE IND	Ignition switch ON	Cruise indicator lamp ON	On
		Cruise indicator lamp OFF	Off
SET IND	Ignition switch ON	SET indicator lamp ON	On
		SET indicator lamp OFF	Off
4WD LOCK SW	Ignition switch ON	4WD LOCK switch ON	On
		4WD LOCK switch OFF	Off
4WD LOCK IND	Ignition switch ON	4WD LOCK indicator lamp ON	On
		4WD LOCK indicator lamp OFF	Off
4WD W/L	Ignition switch ON	4WD warning lamp ON	On
		4WD warning lamp OFF	Off
EPS W/L	Ignition switch ON	EPS warning lamp ON	On
		EPS warning lamp OFF	Off

**NOTE:**

Some items are not available according to vehicle specification.

## TERMINAL LAYOUT

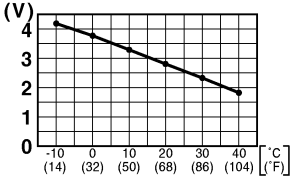


JSNIA0457ZZ

## PHYSICAL VALUES

# COMBINATION METER

## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
1 (Y)	Ground	Battery power supply	Input	Ignition switch OFF	—	Battery voltage
2 (GR)	Ground	IGN signal	Input	Ignition switch ON	—	Battery voltage
3 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
11 (B)*1 (R)*2	Ground	Steering switch (trip com- puter) signal	Input	Ignition switch ON	Press the steering switch (trip computer)	0 V
					Other than the above	5 V
15 (W)	Ground	Air bag signal	Input	Ignition switch ON	Air bag warning lamp ON	4 V
					Air bag warning lamp OFF	0 V
19 (V)	Ground	OAT sensor signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">JSNIA0014GB</p>
20 (L/O)	Ground	OAT sensor ground	—	Ignition switch ON	—	0 V
21 (L)	—	CAN-H	—	—	—	—
22 (P)	—	CAN-L	—	—	—	—
23 (B)	Ground	Ground	—	Ignition switch ON	—	0 V
24 (G)	Ground	Fuel level sensor signal ground	—	Ignition switch ON	—	0 V
25 (L)	Ground	Alternator signal	Input	Ignition switch ON	Charge warning lamp ON	0 V
					Charge warning lamp OFF	12 V
26 (V)	Ground	Parking brake switch signal	Input	Ignition switch ON	Parking brake ON	0 V
					Parking brake OFF	5 V
27 (BR)	Ground	Brake fluid level switch sig- nal	Input	Ignition switch ON	Brake fluid level is normal	5 V
					Brake fluid level is less than LOW level	0 V
28 (SB)	Ground	Security signal	Input	Ignition switch ON	Security warning lamp ON	0 V
					Security warning lamp OFF	12 V

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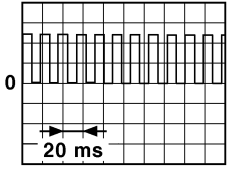
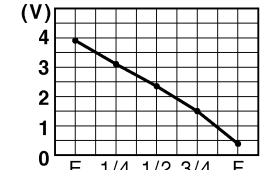
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# COMBINATION METER

## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
31 (Y)	Ground	Vehicle speed signal (8 pulse)	Output	Ignition switch ON	Vehicle speed is approx. 40 km/h (25 MPH)	<p><b>NOTE:</b> The maximum voltage varies depending on the specification (destination unit).</p>  <p style="text-align: right; font-size: small;">JSNIA0012GB</p>
32 (Y)	Ground	Oil level sensor signal	Input	Ignition switch ON	—	<p>Refer to <a href="#">MWI-32. "Component Inspection (HR16DE Engine Models)"</a> or <a href="#">MWI-33. "Component Inspection (Except HR16DE Engine Models)"</a>.</p> <p><b>NOTE:</b> The measurement cannot be performed because the signal is input for a moment with the ignition switch ON.</p>
33 (P)	Ground	Oil level sensor signal ground	—	Ignition switch ON	—	0 V
34 (B)	Ground	Fuel level sensor signal	Input	Ignition switch ON	—	 <p style="text-align: right; font-size: small;">JSNIA0322GB</p>
35 (O)	Ground	Seat belt buckle switch signal (driver side)	Input	Ignition switch ON	When driver seat belt is fastened	5 V
					When driver seat belt is unfastened	0 V
36 (GR)	Ground	Seat belt buckle switch signal (passenger side)	Input	Ignition switch ON	<ul style="list-style-type: none"> <li>When getting in the passenger seat</li> <li>When passenger seat belt is fastened</li> </ul>	12 V
					<ul style="list-style-type: none"> <li>When getting in the passenger seat</li> <li>When passenger seat belt is not fastened</li> </ul>	0 V
37 (R)	Ground	Not manual mode signal	Input	Ignition switch ON	Manual mode	12 V
					Other than the above	0 V
38 (LG)	Ground	Manual mode shift down signal	Input	Ignition switch ON	Selector lever (-) position	0 V
					Other than the above	12 V
39 (W)	Ground	Manual mode shift up signal	Input	Ignition switch ON	Selector lever (+) position	0 V
					Other than the above	12 V

# COMBINATION METER

## < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
40 (L)	Ground	Manual mode signal	Input	Ignition switch ON	Manual mode	0 V
					Other than the above	12 V

\*1: With NAVI

\*2: Without NAVI

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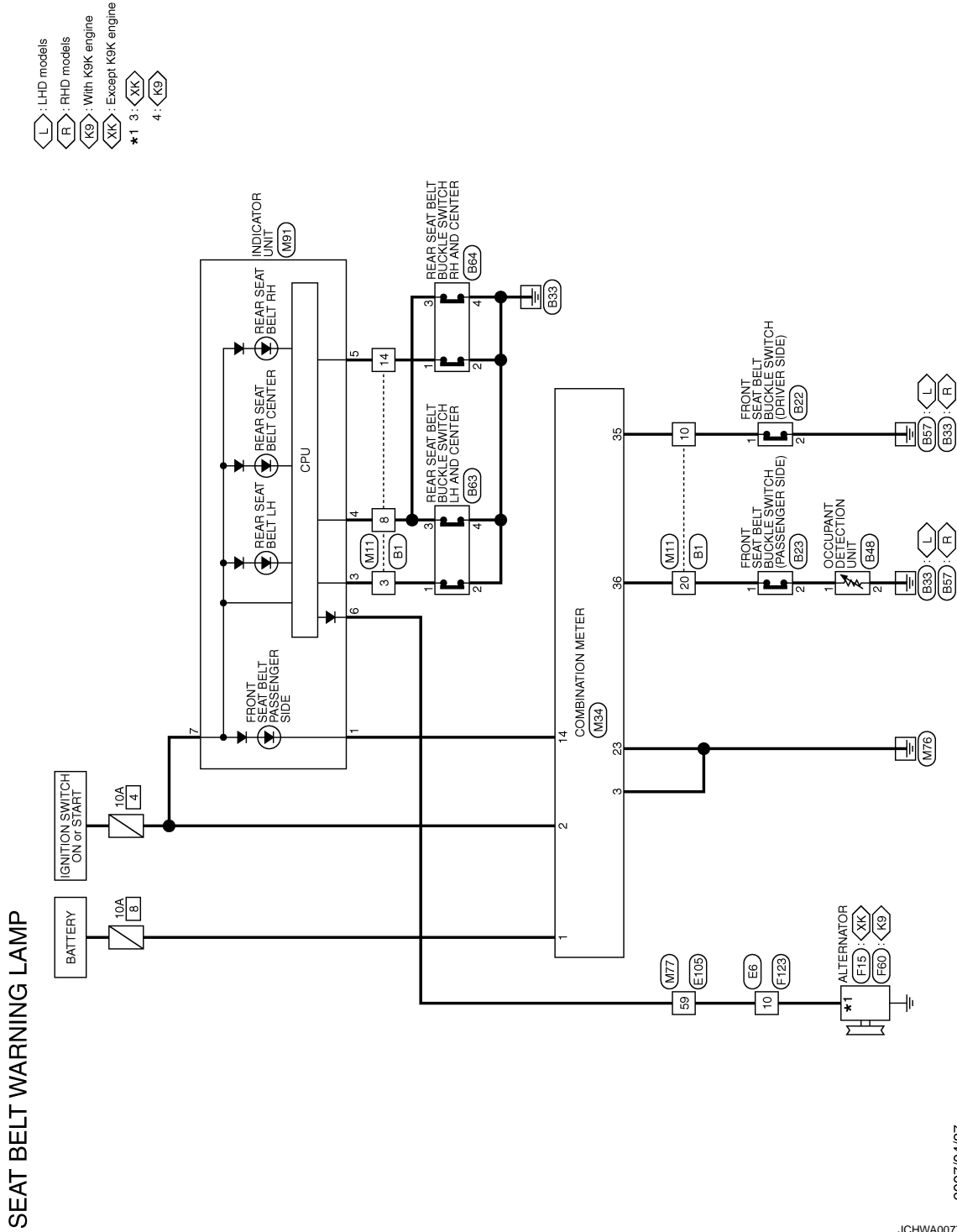
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# COMBINATION METER

< ECU DIAGNOSIS >

## Wiring Diagram - SEAT BELT WARNING LAMP CONTROL SYSTEM -

INFOID:000000001182744



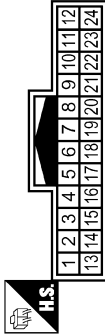


# COMBINATION METER

< ECU DIAGNOSIS >

## SEAT BELT WARNING LAMP

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-
8	Y	-
10	O	-
14	GR	-
20	GR	-

Connector No.	B22
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
Connector Type	Q32FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	B	-

Connector No.	B23
Connector Name	FRONT SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	Q32FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	LG	-

Connector No.	B48
Connector Name	OCCUPANT DETECTION UNIT
Connector Type	S32FW



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

Connector No.	B63
Connector Name	REAR SEAT BELT BUCKLE SWITCH LH AND CENTER
Connector Type	TH10FW



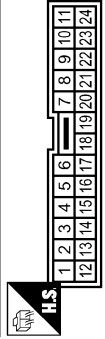
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	B	-
3	Y	-
4	B	-

Connector No.	B64
Connector Name	REAR SEAT BELT BUCKLE SWITCH RH AND CENTER
Connector Type	TH10FW



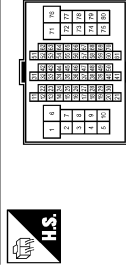
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	B	-
3	Y	-
4	B	-

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK24MW-1V



Terminal No.	Color of Wire	Signal Name [Specification]
10	L	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
59	L	-

JCHWA0078GE

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# COMBINATION METER

< ECU DIAGNOSIS >

## SEAT BELT WARNING LAMP

Connector No.	F15
Connector Name	ALTERNATOR
Connector Type	HS03FB



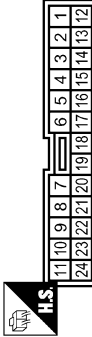
Terminal No.	Color of Wire	Signal Name [Specification]
3	L	L

Connector No.	F60
Connector Name	ALTERNATOR
Connector Type	FEA02FB



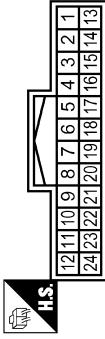
Terminal No.	Color of Wire	Signal Name [Specification]
4	L	L

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V



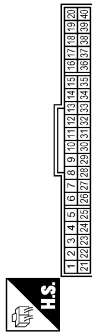
Terminal No.	Color of Wire	Signal Name [Specification]
10	L	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-
8	Y	-
10	O	-
14	GR	-
20	GR	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	BAT
2	GR	IGN
3	B	GND
14	O	AS BELT REMIND
23	B	GND
35	O	SEAT BELT BUCKLE SW (DRIVER SIDE)
36	GR	SEAT BELT BUCKLE SW (PASSENGER SIDE)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH03FW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
58	L	-

Connector No.	M81
Connector Name	INDICATOR UNIT
Connector Type	TH08FW-1V



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
3	O	-
4	Y	-
5	GR	-
6	GR	-
7	W/L	-

## Fail Safe

The combination meter activates the fail-safe control if the CAN communication lines between each unit are malfunctioning.

JCHWA0079GE

INFOID:000000001555140

# COMBINATION METER

## < ECU DIAGNOSIS >

Function	Specifications	
Speedometer	Reset to zero by suspending communication.	
Tachometer		
Meter illumination control	Changed to nighttime mode.	
Buzzer	Turned off by suspending communication.	
Warning lamp/indicator lamp	ABS warning lamp	Turned on by suspending communication.
	Brake warning lamp	
	EPS OFF indicator lamp	
	VDC OFF indicator lamp	
	SLIP indicator lamp	
	CVT indicator lamp	Turned off by suspending communication.
	AT CHECK warning lamp	
	Oil pressure warning lamp	
	Door warning lamp	
	Malfunction indicator lamp	
	CRUISE indicator lamp	
	Tail lamp indicator lamp	
	Front fog indicator lamp	
	Rear fog indicator lamp	
	Glow indicator lamp	
	DPF warning lamp	
	Malfunction indicator lamp 2	
	Trailer indicator lamp	
KEY R/G warning lamp		
KEY LOCK warning lamp		
High beam indicator lamp		
Turn signal indicator lamp		

## DTC Index

INFOID:000000001555141

Display contents of CONSULT-III	Time	Diagnostic item is detected when ...	Refer to
CAN COMM CIRCUIT [U1000]	CRNT, 1 - 39	Combination meter is not transmitting or receiving CAN communication signal for 2 seconds or more.	<a href="#">MWI-30</a>
VEHICLE SPEED [B2205]	CRNT, 1 - 39	The abnormal vehicle speed signal is input from ABS actuator and electric unit (control unit) for 2 seconds or more.	<a href="#">MWI-31</a>
OIL LEV SEN OPEN [B2321]	CRNT, 1 - 39	Combination meter judged that the oil level sensor signal circuit is open-circuited for 1 second or more.	<a href="#">MWI-32</a> (HR16DE) <a href="#">MWI-32</a> (Except HR16DE)
OIL LEV SEN SHORT [B2322]	CRNT, 1 - 39	Combination meter judged that the oil level sensor signal circuit is short-circuited for 1 second or more.	

# DRIVER SIDE SEAT BELT WARNING LAMP DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

---

## SYMPTOM DIAGNOSIS

### DRIVER SIDE SEAT BELT WARNING LAMP DOES NOT OPERATE

#### Diagnosis Procedure

INFOID:000000001182747

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

---

Check front seat belt buckle switch (driver side).

Refer to [SBC-7, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

#### 2. CHECK COMBINATION METER

---

Check combination meter.

Refer to [MWI-4, "Work Flow"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### 3. CONFIRM THE OPERATION

---

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#)

NO >> GO TO 1.

# PASSENGER SIDE SEAT BELT WARNING LAMP DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

## PASSENGER SIDE SEAT BELT WARNING LAMP DOES NOT OPERATE

### Diagnosis Procedure

INFOID:000000001182748

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

Check front seat belt buckle switch (passenger side).  
Refer to [SBC-9. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

#### 2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#)

NO >> GO TO 1.

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SBC

# REAR SEAT BELT WARNING LAMP DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

---

## REAR SEAT BELT WARNING LAMP DOES NOT OPERATE

### Diagnosis Procedure

INFOID:000000001182749

#### 1. CHECK REAR SEAT BELT BUCKLE SWITCH

---

Check rear seat belt buckle switch.

Refer to [SBC-13, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

#### 2. CONFIRM THE OPERATION

---

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#)

NO >> GO TO 1.

# WARNING LAMP DOES NOT OPERATE EXCEPT FOR DRIVER SIDE

< SYMPTOM DIAGNOSIS >

## WARNING LAMP DOES NOT OPERATE EXCEPT FOR DRIVER SIDE

### Diagnosis Procedure

INFOID:000000001182750

#### 1. CHECK INDICATOR UNIT POWER SUPPLY CIRCUIT

Check indicator unit power supply circuit.

Refer to [SBC-6. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

#### 2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#)

NO >> GO TO 1.

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# REAR SEAT BELT WARNING LAMP DOES NOT TURN OFF AFTER A LAPSE OF SPECIFIED TIME

< SYMPTOM DIAGNOSIS >

---

## REAR SEAT BELT WARNING LAMP DOES NOT TURN OFF AFTER A LAPSE OF SPECIFIED TIME

### Diagnosis Procedure

INFOID:000000001182754

#### 1. CHECK ALTERNATOR SIGNAL CIRCUIT

---

Check alternator signal circuit.

Refer to [SBC-16, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

#### 2. CONFIRM THE OPERATION

---

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#)

NO >> GO TO 1.



# PASSENGER SEAT IS OCCUPIED BUT SEAT BELT WARNING LAMP DOES NOT LIGHT UP

< SYMPTOM DIAGNOSIS >

## PASSENGER SEAT IS OCCUPIED BUT SEAT BELT WARNING LAMP DOES NOT LIGHT UP

### Diagnosis Procedure

INFOID:000000001182755

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

Check front seat belt buckle switch (passenger side).

Refer to [SBC-9, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

#### 2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#)

NO >> GO TO 1.

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# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

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

INFOID:000000001572056

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 AIRBAG" and "SEAT BELT" 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 "SRS AIRBAG".**
- **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.**

# INDICATOR UNIT

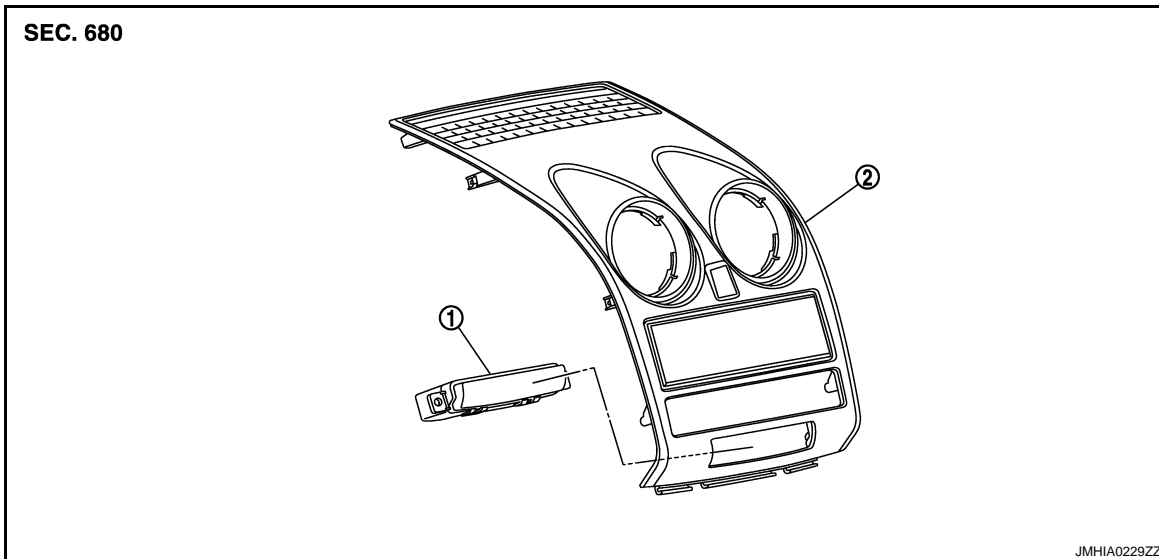
< ON-VEHICLE REPAIR >

## ON-VEHICLE REPAIR

### INDICATOR UNIT

Exploded View

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1. Indicator unit
2. Cluster lid C

### Removal and Installation

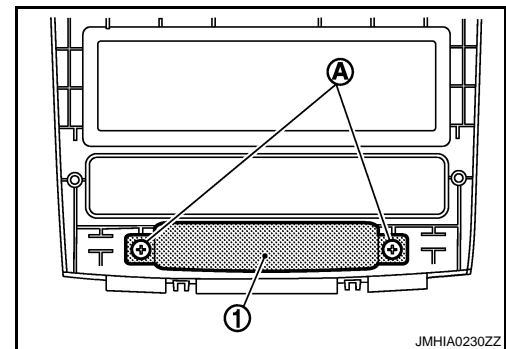
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#### REMOVAL

##### CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

1. Remove the battery negative terminal.
2. Remove the cluster lid C. Refer to [IP-12. "Removal and Installation"](#).
3. Remove the screws (A).
4. Remove indicator unit (1).



#### INSTALLATION

Install in the reverse order of removal.

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