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# WT

## SECTION

### ROAD WHEELS & TIRES

WT

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# DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORK FLOW

#### Work Flow

INFOID:0000000010581116

#### DETAILED FLOW

#### 1. COLLECT THE INFORMATION FROM THE CUSTOMER

It is also important to clarify customer concerns before starting the inspection. Reproduce the symptom, and understand it fully. Interview the customer about the concerns carefully. In some cases, it is necessary to check the symptoms by driving the vehicle with the customer.

#### **CAUTION:**

**Customers are not professionals. Never assume “maybe the customer means...” or “maybe the customer mentioned this symptom.”**

>> GO TO 2.

#### 2. BASIC INSPECTION

1. Turn the ignition switch ON.

#### **CAUTION:**

**Never start the engine.**

2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-71, "Tire Air Pressure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Inspect or repair the tires or wheels.

#### 3. CHECK LOW TIRE PRESSURE WARNING LAMP

Check low tire pressure warning lamp display.

Does not low tire pressure warning lamp turn OFF?

YES >> GO TO 4.

NO >> INSPECTION END

#### 4. CRUISE TEST

Start the engine and drive the vehicle.

>> GO TO 5.

#### 5. PERFORM SELF-DIAGNOSIS

 **With CONSULT**

Perform self-diagnosis.

Is any DTC detected?

YES >> Record or print DTC and freeze frame data (FFD). GO TO 7.

NO >> GO TO 6.

#### 6. CHECK SYMPTOM

Perform trouble diagnosis for the applicable symptom. Refer to [WT-52, "Symptom Table"](#).

Is the cause of the malfunction detected?

YES >> GO TO 8.

NO >> GO TO 10.

#### 7. CIRCUIT DIAGNOSIS

Inspect the malfunctioning system indicated by the DTC code that is detected during self-diagnosis. Refer to [WT-50, "DTC Index"](#).

>> GO TO 8.

## DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

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### 8. REPAIR WORK

---

Repair or replace the malfunctioning part.

>> GO TO 9.

### 9. PERFORM SELF-DIAGNOSIS

---

1. Select "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR".
2. Touch "ERASE" on CONSULT screen to erase memory of the low tire pressure warning control unit.
3. Drive the vehicle.
4. Perform "AIR PRESSURE MONITOR" of self-diagnosis.

Is any DTC detected?

- YES >> GO TO 7.  
NO >> GO TO 10.

### 10. FINAL CHECK

---

1. Perform a cruise test.
2. Check that the low tire pressure warning lamp turn OFF.

Does the tire pressure warning lamp turn OFF?

- YES >> INSPECTION END  
NO >> GO TO 2.

# TIRE PRESSURE SENSOR WAKE UP OPERATION

< BASIC INSPECTION >

## TIRE PRESSURE SENSOR WAKE UP OPERATION

### Description

INFOID:000000010581117

This procedure must be done after replacement of a tire pressure sensor. Refer to [WT-5, "Work Procedure"](#).

### Work Procedure

INFOID:000000010581118

#### 1. TIRE PRESSURE SENSOR WAKE-UP PROCEDURE

1. Turn the ignition switch ON.

**CAUTION:**

**Never start the engine.**

**NOTE:**

The position of an inactive tire pressure sensor can be identified by checking the blinking timing of the low tire pressure warning lamp.

Low tire pressure warning lamp blinking timing		Activation tire position
ON OFF		Front LH
ON OFF		Front RH
ON OFF		Rear RH
ON OFF		Rear LH
ON OFF		All tires

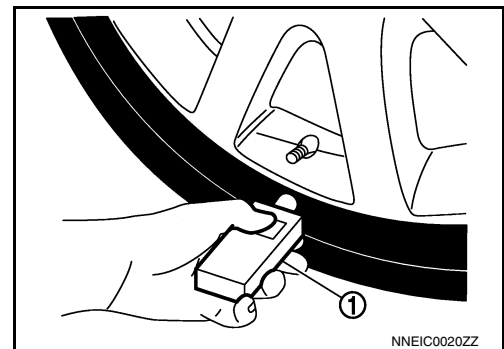
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2. Contact the tire pressure sensor activation tool (J-50190 or J-45295-A) (1) to the side of the tire at the location to the tire pressure sensor.
3. Press and hold the tire pressure sensor activation tool button while pushing the tool to the tire surface. (approximately for 5 seconds)

**CAUTION:**

**Perform the wake-up procedure starting from the vehicle front left wheel, then repeat the procedure in the order of the front right wheel, rear right wheel, and rear left wheel.**

4. Check that the turn signal lamps blink twice when the tire pressure sensor wake-up procedure for all wheels is completed.
5. Check that the low tire pressure warning lamp turns OFF, after the tire pressure sensor wake-up procedure is completed for all wheels and turns OFF.



NNEIC0020ZZ

Is the tire pressure sensor wake-up procedure completed?

- YES >> Perform the tire pressure sensor ID registration procedure. Refer to [WT-6, "Description"](#).  
 NO >> Perform trouble diagnosis for the tire pressure sensor. Refer to [WT-14, "Diagnosis Procedure"](#).

# TIRE PRESSURE SENSOR ID REGISTRATION

< BASIC INSPECTION >

## TIRE PRESSURE SENSOR ID REGISTRATION

### Description

INFOID:000000010581119

This procedure must be done after replacement of a tire pressure sensor, low tire pressure warning control unit, or rotation of wheels. Refer to [WT-6. "Work Procedure"](#).

### Work Procedure

INFOID:000000010581120

#### 1. TIRE PRESSURE SENSOR ID REGISTRATION PROCEDURE

##### CAUTION:

To perform ID registration, observe the following points:

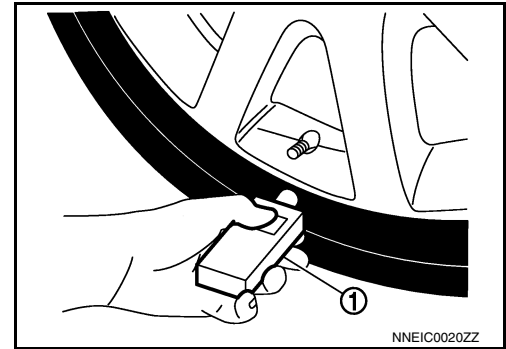
- Never register ID in a place where radio waves are interfered (e.g. radio tower).
- Never register ID in a place close to vehicles including TPMS.

Ⓟ With CONSULT

1. Turn ignition switch ON.
2. Display the "WORK SUPPORT" screen and select "ID REGIST".
3. Select the start button on the "ID REGIST" screen.
4. Contact the tire pressure sensor activation tool (J-50190 or J-45295-A) (1) to the side of the tire at the location to the tire pressure sensor.
5. Press and hold the tire pressure sensor activation tool button while pushing the tool to the tire surface. (approximately for 5 seconds)

##### CAUTION:

Perform the ID registration procedure starting from the vehicle front left wheel, then repeat the procedure in the order of the front right wheel, rear right wheel, and rear left wheel.



6. When ID registration is completed, check the following pattern at each wheel.

Sequence	ID registration position	Hazard warning lamp	CONSULT
1	Front left wheel	2 blinks	"Red" ↓ "Green"
2	Front right wheel		
3	Rear right wheel		
4	Rear left wheel		

7. After the ID registration procedure for all wheels is completed, press "End" to end ID registration, and check that ID registration for all wheels is completed.

Is the check result normal?

- YES >> ID registration END.  
 NO >> Refer to [WT-58. "Diagnosis Procedure"](#).

# SYSTEM

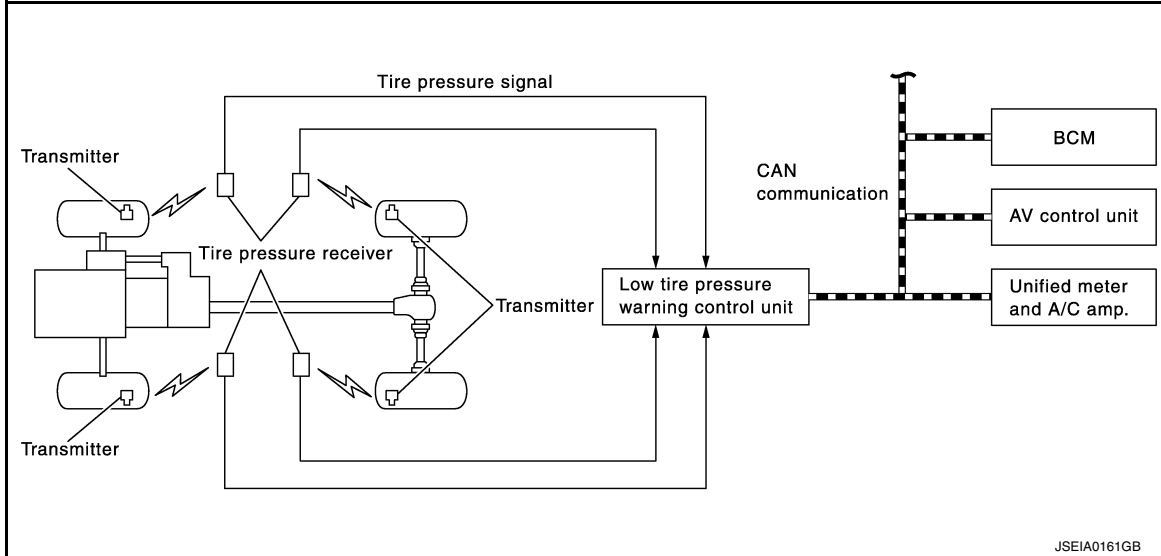
< SYSTEM DESCRIPTION >

## SYSTEM DESCRIPTION

### SYSTEM

#### System Diagram

INFOID:000000010581121



#### System Description

INFOID:000000010581122

- If the tire pressure is less than the specified value, the low tire pressure warning lamp illuminates that the tire pressure is less than the specified value.
- The signal from each control unit is communicated via CAN communication.

Control unit	Signal status
Low tire pressure warning control unit	The low tire pressure warning lamp signal is transmitted to the BCM via CAN communication.
BCM	The low tire pressure warning lamp signal is transmitted to the unified meter and A/C amp. via CAN communication.
AV control unit	The tire pressure signal is received from the low tire pressure warning control unit via CAN communication.
ABS actuator and electric unit (control unit)	The vehicle speed signal (ABS) is received from the low tire pressure warning control unit via CAN communication.

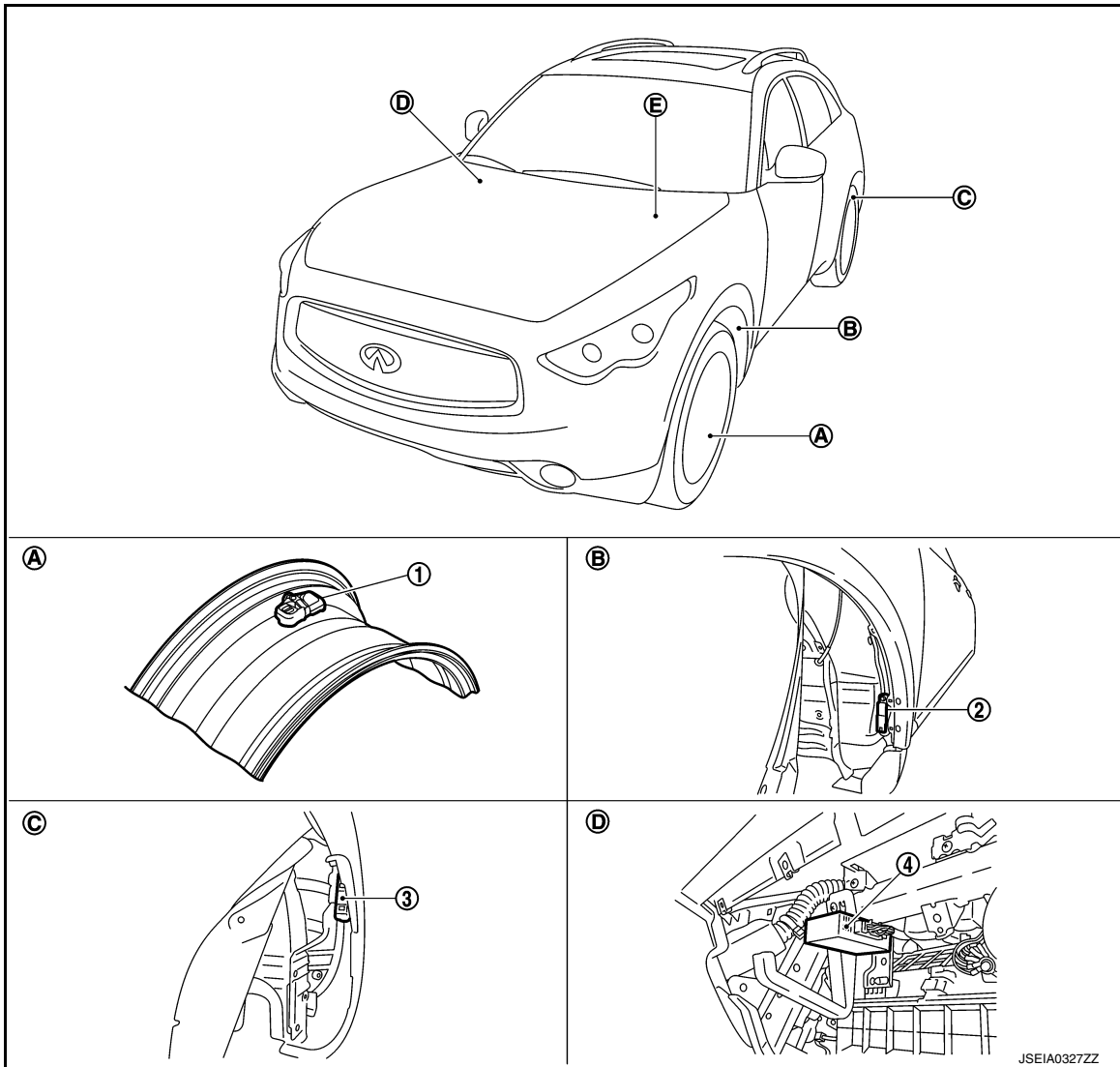
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# SYSTEM

< SYSTEM DESCRIPTION >

## Component Parts Location

INFOID:000000010581123



- |   |   |                                      |
|---|---|--------------------------------------|
| 1. Tire pressure sensor                   | 2. Front tire pressure receiver   | 3. Rear tire pressure receiver       |
| 4. Low tire pressure warning control unit |   |                                      |
| A. Wheel                                  | B. Fender protector (rear side)   | C. Inside rear wheel house protector |
| D. Glove box assembly removed             | E. Low tire pressure warning lamp, information display (In combination meter) |                                      |

## Component Description

INFOID:000000010581124

Component parts	Function
Tire pressure sensor	<a href="#">WT-14. "Description".</a>
Tire pressure receiver	<a href="#">WT-28. "Description".</a>
Low tire pressure warning control unit	<a href="#">WT-30. "Description".</a>
Unified meter and A/C amp.	Transmits the vehicle speed signal via CAN communication to BCM.
	Receives the following signals via CAN communication for BCM. <ul style="list-style-type: none"> <li>• Low tire pressure warning lamp signal</li> <li>• TPMS malfunction warning lamp signal</li> </ul>



# SYSTEM

## < SYSTEM DESCRIPTION >

Component parts	Function
Low tire pressure warning lamp	<a href="#">WT-39. "Description"</a> .
Information display	<a href="#">WT-9. "Information Display"</a> .

### Information Display

INFOID:0000000010581125

The vehicle information display is shown when a low tire pressure warning lamp signal is transmitted from BCM to Unified meter and A/C amp. via CAN communication.

Condition	Vehicle information display
Ignition switch OFF	Non-indication
Low tire pressure	Indication

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# DIAGNOSIS SYSTEM (LOW TIRE PRESSURE WARNING CONTROL UNIT)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (LOW TIRE PRESSURE WARNING CONTROL UNIT)

### CONSULT Function

INFOID:000000010581126

#### FUNCTION

The diagnosis functions (main functions) include the following: "WORK SUPPORT", "SELF DIAGNOSTIC RESULT", "DATA MONITOR", "ACTIVE TEST", and "ECU IDENTIFICATION".

Mode	FUNCTION DESCRIPTION
Work Support	In this mode, it is possible to make quick and accurate adjustments by following the instructions on the CONSULT display.
Self Diagnostic Result	Receives self-diagnosis results from the low tire pressure warning control unit, and indicates DTCs and the number of malfunctions.
Data Monitor	Receives input/output signals from the low tire pressure warning control unit and indicates and stores them to facilitate locating the causes of malfunctions.
Active Test	Sends command to the low tire pressure warning control unit to change output signals and check operation of output system.
ECU identification	Displays the part number of the low tire pressure warning control unit.

#### WORK SUPPORT

Refer to [WT-6, "Description"](#).

#### SELF-DIAGNOSTIC RESULT

Operation procedure

Before starting self-diagnosis, start the engine and drive the vehicle at faster than 40 km/h (25 MPH) for longer than 3 minutes.

Display Item List

Refer to [WT-50, "DTC Index"](#).

#### DATA MONITOR

Display Item List

##### NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item (Unit)	Remarks
VHCL SPEED SE (km/h) or (MPH)	Vehicle speed
AIR PRESS FL (kPa), (kg/cm <sup>2</sup> ) or (Psi)	Air pressure of tires
AIR PRESS FR (kPa), (kg/cm <sup>2</sup> ) or (Psi)	
AIR PRESS RR (kPa), (kg/cm <sup>2</sup> ) or (Psi)	
AIR PRESS RL (kPa), (kg/cm <sup>2</sup> ) or (Psi)	
ID REGST FL1	ID is registered: Done ID is not registered: Yet
ID REGST FR1	
ID REGST RR1	
ID REGST RL1	
WARNING LAMP	Low tire pressure warning lamp ON: On Low tire pressure warning lamp OFF: Off
BUZZER	Combination meter buzzer ON: On Combination meter buzzer OFF: Off

#### ACTIVE TEST

After completing the work below, perform an active test.

- Before performing self-diagnosis, register the tire pressure sensor IDs.

# DIAGNOSIS SYSTEM (LOW TIRE PRESSURE WARNING CONTROL UNIT)

## < SYSTEM DESCRIPTION >

- Erase the self-diagnosis result history.

### Test item list

Test item	Condition	Details
BUZZER	Vehicle stopped	Check that the buzzer operates correctly.
WARN LAMP	The system is normal	Perform a test to check that the low tire pressure warning lamp illuminates correctly.

### ECU IDENTIFICATION

Low tire pressure warning control unit part number can be read.

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# C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

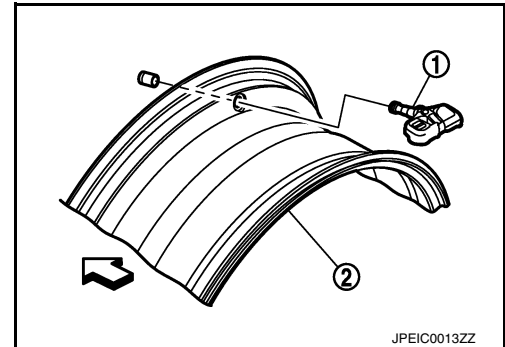
### C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

#### Description

INFOID:000000010581127

The tire pressure sensor (1) is installed at the position of the air valve on the road wheel (2). It measures the tire pressure and transmits the tire pressure information by radio waves.

⇐ :Outside



#### DTC Logic

INFOID:000000010581128

#### DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1704	LOW PRESSURE FL	Front LH wheel pressure is or Less 182 kPa (1.86 kg/cm <sup>2</sup> , 26.4 psi) or less	Low tire pressure
C1705	LOW PRESSURE FR	Front RH wheel pressure is or less 182 kPa (1.86 kg/cm <sup>2</sup> , 26.4 psi) or less	
C1706	LOW PRESSURE RR	Rear RH wheel pressure is or less 182 kPa (1.86 kg/cm <sup>2</sup> , 26.4 psi) or less	
C1707	LOW PRESSURE RL	Rear LH wheel pressure is or less 182 kPa (1.86 kg/cm <sup>2</sup> , 26.4 psi) or less	

#### DTC REPRODUCTION PROCEDURE

##### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT

1. Turn the ignition switch ON.

**CAUTION:**

**Never start the engine.**

2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-71, "Tire Air Pressure"](#).

3. Perform "AIR PRESSURE MONITOR" of self-diagnosis.

Is DTC "C1704", "C1705", "C1706", or "C1707" detected?

YES >> Perform trouble diagnosis. Refer to [WT-12, "Diagnosis Procedure"](#).

NO >> INSPECTION END

#### Diagnosis Procedure

INFOID:000000010581129

##### 1. CHECK TIRE PRESSURE

Check the air pressure of all wheels. Refer to [WT-71, "Tire Air Pressure"](#).

Is the inspection result normal?

YES >> Replace any malfunctioning tire pressure sensors.

NO >> After adjusting the air pressure, GO TO 2.

##### 2. CHECK TIRE PRESSURE SIGNAL

Ⓜ With CONSULT

## C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

### < DTC/CIRCUIT DIAGNOSIS >

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Within 5 minutes, select "DATA MONITOR" of "AIR PRESSURE MONITOR" and display the tire pressure for all wheels.
3. Check that the tire pressures match the standard value.

Monitor item	Condition	Displayed value
AIR PRESS FL	Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.	Air pressure of tires
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

#### Is the inspection result normal?

- YES >> INSPECTION END  
 NO >> Repair or replace error-detected parts.

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# C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

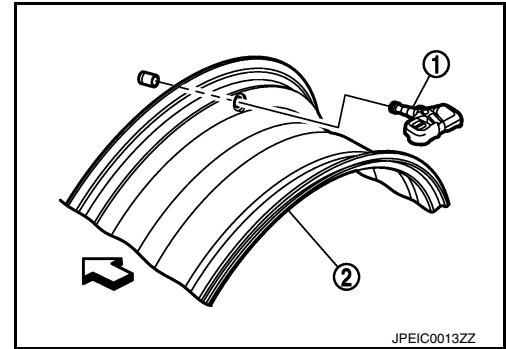
## C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

### Description

INFOID:000000010581130

The tire pressure sensor (1) is installed at the position of the air valve on the road wheel (2). It measures the tire pressure and transmits the tire pressure information by radio waves.

⇐ :Outside



### DTC Logic

INFOID:000000010581131

#### DTC logic

DTC	Display Item	Malfunction detected condition	Possible causes
C1708	[NO DATA] FL	Tire pressure data signal from the front LH wheel tire pressure sensor cannot be detected.	<ul style="list-style-type: none"> <li>• Harness or connector connection malfunction (Tire pressure receiver, low tire pressure warning control unit)</li> <li>• Tire pressure sensor ID registration incomplete</li> <li>• Tire pressure sensor error</li> <li>• Low tire pressure sensor battery voltage</li> </ul>
C1709	[NO DATA] FR	Tire pressure data signal from the front RH wheel tire pressure sensor cannot be detected.	
C1710	[NO DATA] RR	Tire pressure data signal from the rear RH wheel tire pressure sensor cannot be detected.	
C1711	[NO DATA] RL	Tire pressure data signal from the rear LH wheel tire pressure sensor cannot be detected.	

### DTC REPRODUCTION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Perform "AIR PRESSURE MONITOR" self-diagnosis.

Is DTC "C1708", "C1709", "C1710" or "C1711" detected?

- YES >> Perform trouble diagnosis. Refer to [WT-14, "Diagnosis Procedure"](#).  
 NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000010581132

#### 1. CHECK TIRE PRESSURE SIGNAL

Ⓜ With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Within 5 minutes, select "DATA MONITOR" of "AIR PRESSURE MONITOR".
3. Read the values that are displayed for "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR", and "AIR PRESS RL".

Monitor item	condition	Displayed value
AIR PRESS FL	Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.	Air pressure of tires
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

Is a tire pressure of 0 kPa (psi) displayed for all wheels?

# C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

## < DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 2.

NO >> GO TO 4.

### 2. CHECK RECEIVER CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect the low tire pressure warning control unit harness connector and tire pressure receiver harness connector.
3. Check the continuity between the harness connector terminals of the low tire pressure warning control unit and tire pressure receiver.

#### CHECK RECEIVER POWER CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M96	10	E53 (Front LH)	1	Existed
	9	E19 (Front RH)		
	8	B43 (Rear LH)		
	7	B251 (Rear RH)		

#### CHECK RECEIVER SIGNAL CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M96	6	E53 (Front LH)	3	Existed
	5	E19 (Front RH)		
	4	B43 (Rear LH)		
	3	B251 (Rear RH)		

#### CHECK RECEIVER SIGNAL (SENSITIVITY) CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M96	22	E53 (Front LH)	2	Existed
	21	E19 (Front RH)		
	20	B43 (Rear LH)		
	19	B251 (Rear RH)		

#### CHECK RECEIVER GROUND CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M96	26	E53 (Front LH)	4	Existed
	25	E19 (Front RH)		
	24	B43 (Rear LH)		
	23	B251 (Rear RH)		

4. Check the continuity between the low tire pressure warning control unit harness connector and the ground.

#### CHECK RECEIVER POWER CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M96	10	Ground	Not existed
	9		
	8		
	7		

# C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

## < DTC/CIRCUIT DIAGNOSIS >

### CHECK RECEIVER SIGNAL CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M96	6	Ground	Not existed
	5		
	4		
	3		

### CHECK RECEIVER SIGNAL (SENSITIVITY) CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M96	22	Ground	Not existed
	21		
	20		
	19		

### CHECK RECEIVER GROUND CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M96	26	Ground	Not existed
	25		
	24		
	23		

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace error-detected parts.

### 3. CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

1. Connect the low tire pressure warning control unit harness connector.
2. Turn the ignition switch ON.

#### **CAUTION:**

**Never start the engine.**

3. Check the voltage between the tire pressure receiver harness connector and ground.

Tire pressure receiver		—	Voltage
Connector	Terminal		
E53 (Front LH)	1	Ground	9 - 16 V
E19 (Front RH)			
B43 (Rear LH)			
B251 (Rear RH)			

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace the tire pressure receiver.

### 4. REGISTER THE TIRE PRESSURE SENSOR ID

Perform tire pressure sensor ID registration. Refer to [WT-6. "Description"](#).

#### Is tire pressure sensor ID registration completed?

YES >> GO TO 5.

NO >> Replace the tire pressure sensor. Refer to [WT-68. "Removal and Installation"](#).

### 5. CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT

Ⓟ With CONSULT

1. Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle.



# C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

## < DTC/CIRCUIT DIAGNOSIS >

2. Within 15 minutes, select "AIR PRESSURE MONITOR" of "DATA MONITOR" and display the tire pressure for all wheels.
3. Check that the tire pressure is the specified value.

Monitor item	Condition	Displayed value
AIR PRESS FL	Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle.	Air pressure of tire pressure
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace the low tire pressure warning control unit. Refer to [WT-67, "Removal and Installation"](#).

## Special Repair Requirement

INFOID:0000000010581133

WT

### 1. CHECK TIRE PRESSURE

Check the tire pressure of all wheels. Refer to [WT-71, "Tire Air Pressure"](#).

#### Does the tire pressure match the specified value?

YES >> GO TO 2.

NO >> Check the road wheels and tires. Adjust the tire pressures to the specified values.

### 2. REGISTER TIRE PRESSURE SENSOR ID

Perform tire pressure sensor ID registration. Refer to [WT-6, "Description"](#).

>> END

# C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

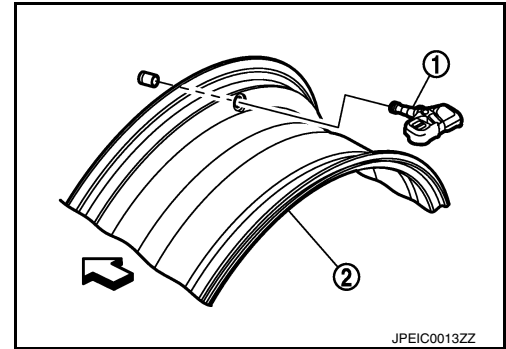
## C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

### Description

INFOID:000000010581134

The tire pressure sensor (1) is installed at the position of the air valve on the road wheel (2). It measures the tire pressure and transmits the tire pressure information by radio waves.

↔ :Outside



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### DTC Logic

INFOID:000000010581135

#### DTC logic

DTC	Display Item	Malfunction detected condition	Possible causes
C1716	[PRESSDATA ERR] FL	The tire pressure data from the front LH wheel is malfunction.	<ul style="list-style-type: none"> <li>• Tire Pressure Sensor ID registration incomplete</li> <li>• Tire Pressure Sensor malfunction</li> </ul>
C1717	[PRESSDATA ERR] FR	The tire pressure data from the front RH wheel is malfunction.	
C1718	[PRESSDATA ERR] RR	The tire pressure data from the rear RH wheel is malfunction.	
C1719	[PRESSDATA ERR] RL	The tire pressure data from the rear LH wheel is malfunction.	

### DTC REPRODUCTION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

Ⓟ With CONSULT

1. Turn the ignition switch ON.

**CAUTION:**

**Never start the engine.**

2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-71, "Tire Air Pressure"](#).

3. Perform "AIR PRESSURE MONITOR" self-diagnosis.

Is DTC "C1716", "C1717", "C1718", or "C1719" detected?

YES >> Perform trouble diagnosis. Refer to [WT-18, "Diagnosis Procedure"](#).

NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000010581136

#### 1. CHECK TIRE PRESSURE SIGNAL

Ⓟ With CONSULT

1. Check and adjust the tire pressure for all wheels. Refer to [WT-71, "Tire Air Pressure"](#).

2. Perform tire pressure sensor ID registration for all wheels. Refer to [WT-6, "Description"](#).

3. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.

4. Stop the vehicle and within 15 minutes select "DATA MONITOR" of "AIR PRESSURE MONITOR" and read the tire pressure for all wheels.

5. Check that "DATA MONITOR" displays a tire pressure of 438.60 kPa (4.47 kg/cm<sup>2</sup>, 63.60 psi).

Is the inspection result normal?

YES >> Replace the malfunctioning tire pressure sensor.

# C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

## < DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 2.

### 2.CHECK TPMS

Check the tire pressure sensors. Refer to [WT-19, "Component Inspection"](#).

Is the inspection result normal?


YES >> INSPECTION END

NO >> Perform trouble diagnosis of the low tire pressure warning control unit. Refer to [WT-30, "Diagnosis Procedure"](#).

## Component Inspection

INFOID:0000000010581137

### 1.CHECK TIRE PRESSURE SENSORS

 With CONSULT

1. Adjust the tire pressures to the specified value for all wheels. Refer to [WT-71, "Tire Air Pressure"](#).
2. Perform tire pressure sensor ID registration for all wheels. Refer to [WT-6, "Description"](#).
3. Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle.
4. Within 15 minutes, select "DATA MONITOR" of "AIR PRESSURE MONITOR" to display the tire pressure for all wheels.
5. Check that "DATA MONITOR" displays a tire pressure of 438.60 kPa (4.47 kg/cm<sup>2</sup>, 63.60 psi).

Monitor item	condition	Displayed value
AIR PRESS FL	Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle.	Air pressure of tire pressure
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

Is the inspection result normal?

YES >> Replace the malfunctioning tire pressure sensor.

NO >> INSPECTION END

## Special Repair Requirement

INFOID:0000000010581138

### 1.CHECK TIRE PRESSURE

Check the tire pressure of all wheels. Refer to [WT-71, "Tire Air Pressure"](#).

Does the tire pressure match the specified value?

YES >> GO TO 2.

NO >> Check the road wheels and tires. Adjust the tire pressures to the specified values.

### 2.REGISTER TIRE PRESSURE SENSOR ID

Perform tire pressure sensor ID registration. Refer to [WT-6, "Description"](#).

>> END

# C1720, C1721, C1722, C1723 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

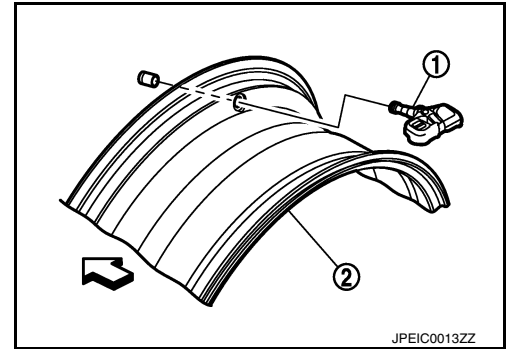
## C1720, C1721, C1722, C1723 TIRE PRESSURE SENSOR

### Description

INFOID:0000000010581139

The tire pressure sensor (1) is installed at the position of the air valve on the road wheel (2). It measures the tire pressure and transmits the tire pressure information by radio waves.

↔ :Outside



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### DTC Logic

INFOID:0000000010581140

#### DTC logic

DTC	Display Item	Malfunction detected condition	Possible causes
C1720	[CODE ERR] FL	Checksum data from front LH tire pressure sensor is malfunctioning.	<ul style="list-style-type: none"> <li>• Tire pressure receiver malfunction</li> <li>• Tire pressure sensor error</li> <li>• Low tire pressure warning control unit malfunction</li> </ul>
C1721	[CODE ERR] FR	Checksum data from front RH tire pressure sensor is malfunctioning.	
C1722	[CODE ERR] RR	Checksum data from rear RH tire pressure sensor is malfunctioning.	
C1723	[CODE ERR] RL	Checksum data from rear LH tire pressure sensor is malfunctioning.	

### DTC REPRODUCTION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

Ⓟ With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Perform "AIR PRESSURE MONITOR" self-diagnosis.

Is DTC "C1720", "C1721", "C1722" or "C1723" detected?

- YES >> Perform trouble diagnosis. Refer to [WT-20, "Diagnosis Procedure"](#).  
 NO >> INSPECTION END

### Diagnosis Procedure

INFOID:0000000010581141

#### 1. CHECK TIRE PRESSURE SIGNAL

Ⓟ With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Within 5 minutes, select "DATA MONITOR" of "AIR PRESSURE MONITOR".
3. Read the values that are displayed for "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR", and "AIR PRESS RL".

Display Item	Condition	Displayed value
AIR PRESS FL	Drive for 3 minutes at a speed of 40 km/h (25MPH) or more, then drive normally for 10 minutes.	Air pressure of tire pressure
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

Is the tire pressure of 0 kPa displayed for all wheels?

- YES >> GO TO 2.

# C1720, C1721, C1722, C1723 TIRE PRESSURE SENSOR

## < DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 4.

### 2. CHECK HARNESS BETWEEN LOW TIRE PRESSURE WARNING CONTROL UNIT AND TIRE PRESSURE RECEIVER

1. Turn the ignition switch OFF.
2. Disconnect low tire pressure warning control unit harness connector and tire pressure receiver harness connector.
3. Check the continuity between low tire pressure warning control unit harness connector and tire pressure receiver harness connector.

#### CHECK RECEIVER POWER CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M96	10	E53 (Front LH)	1	Existed
	9	E19 (Front RH)		
	8	B43 (Rear LH)		
	7	B251 (Rear RH)		

#### CHECK RECEIVER SIGNAL CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M96	6	E53 (Front LH)	3	Existed
	5	E19 (Front RH)		
	4	B43 (Rear LH)		
	3	B251 (Rear RH)		

#### CHECK RECEIVER SIGNAL (SENSITIVITY) CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M96	22	E53 (Front LH)	2	Existed
	21	E19 (Front RH)		
	20	B43 (Rear LH)		
	19	B251 (Rear RH)		

#### CHECK RECEIVER GROUND CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M96	26	E53 (Front LH)	4	Existed
	25	E19 (Front RH)		
	24	B43 (Rear LH)		
	23	B251 (Rear RH)		

4. Check the continuity between low tire pressure warning control unit harness connector and ground.

#### CHECK RECEIVER POWER CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M96	10	Ground	Not existed
	9		
	8		
	7		

# C1720, C1721, C1722, C1723 TIRE PRESSURE SENSOR

## < DTC/CIRCUIT DIAGNOSIS >

### CHECK RECEIVER SIGNAL CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M96	6	Ground	Not existed
	5		
	4		
	3		

### CHECK RECEIVER SIGNAL (SENSITIVITY) CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M96	22	Ground	Not existed
	21		
	20		
	19		

### CHECK RECEIVER GROUND CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M96	26	Ground	Not existed
	25		
	24		
	23		

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace error-detected parts.

### 3. CHECK TIRE PRESSURE RECEIVER

Check the tire pressure receivers. Refer to [WT-24, "Diagnosis Procedure"](#).

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace the tire pressure receiver.

### 4. CHECK TIRE PRESSURE MONITORING CONTROL SYSTEM

Check the Tire Pressure Monitoring System (TPMS). Refer to [WT-30, "Diagnosis Procedure"](#).

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace the low tire pressure warning control unit.

### 5. CHECK TIRE PRESSURE SENSORS

1. Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle.
2. Within 15 minutes, select "DATA MONITOR" of "AIR PRESSURE MONITOR" and display the tire pressure for all wheels.
3. Check that the tire pressures is the specified value.

Display Item	Condition	Displayed value
AIR PRESS FL	Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle.	Air pressure of tire pressure
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace the tire pressure sensor. Refer to [WT-68, "Removal and Installation"](#).

# C1720, C1721, C1722, C1723 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

## Special Repair Requirement

INFOID:000000010581142

### 1.CHECK TIRE PRESSURE

Check the tire pressure of all wheels. Refer to [WT-71, "Tire Air Pressure"](#).

Does the tire pressure match the specified value?

YES >> GO TO 2.

NO >> Check the road wheels and tires. Adjust the tire pressures to the specified values.

### 2.REGISTER TIRE PRESSURE SENSOR ID

Perform tire pressure sensor ID registration. Refer to [WT-6, "Description"](#).

>> END

A  
B  
C  
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F  
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J  
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P

WT

# C1728 RECEIVER ID

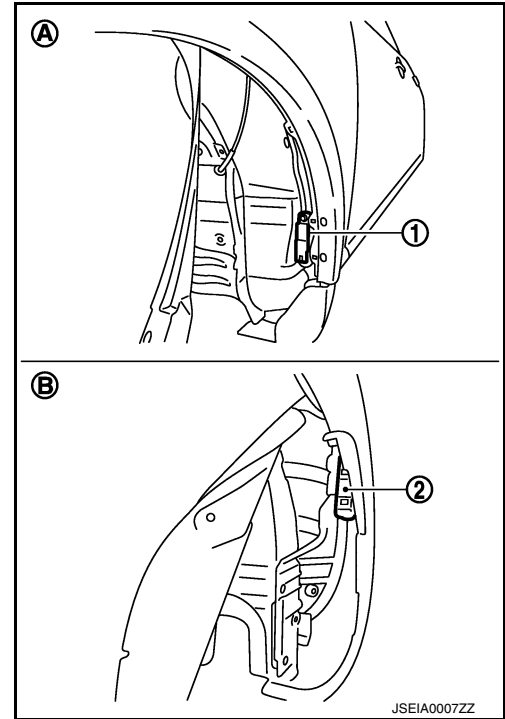
< DTC/CIRCUIT DIAGNOSIS >

## C1728 RECEIVER ID

### Description

INFOID:000000010581143

The front (A) tire pressure receiver (1) and rear (B) tire pressure receiver (2) receive the tire pressure signal by radio waves from the tire pressure sensor at each wheel, and transmit the tire pressure signal to the low tire pressure warning control unit.



### DTC Logic

INFOID:000000010581144

### DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1728	RECEIVER ID NO REG	Receiver ID registration cannot be performed.	<ul style="list-style-type: none"><li>• Tire pressure receiver malfunction</li><li>• Low tire pressure warning control unit malfunction</li></ul>

### DTC REPRODUCTION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Perform "AIR PRESSURE MONITOR" self-diagnosis.

Is DTC "C1728" detected?

- YES >> Perform trouble diagnosis. Refer to [WT-24, "Diagnosis Procedure"](#).  
NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000010581145

#### 1. CHECK RECEIVER INPUT SIGNAL

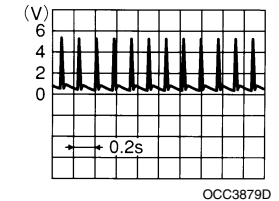
1. Turn the ignition switch ON.  
**CAUTION:**  
**Never start engine.**
2. Use an oscilloscope and check the input signal waveform between the low tire pressure warning control unit harness connector terminals and the ground. Refer to [WT-41, "Reference Value"](#).



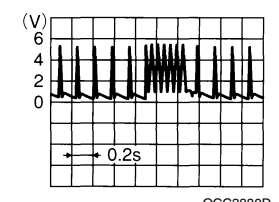
# C1728 RECEIVER ID

## < DTC/CIRCUIT DIAGNOSIS >

Connector	Terminal	—	Standard
M96	3	Ground	Stand by status (Approx. 4.5 V)
	4		
	5		
	6		



Connector	Terminal	—	Standard
M96	3	Ground	When signal is received (Approx. 4.5 V)
	4		
	5		
	6		



Is the inspection result normal?

- YES >> INSPECTION END
- NO >> GO TO 2.

### 2. CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

1. Disconnect the tire pressure receiver harness connector.
2. Check the voltage between the tire pressure receiver harness connector and ground.

Tire pressure receiver		—	Voltage
Connector	Terminal	Ground	7 - 16 V
E53 (Front LH)	1		
E19 (Front RH)			
B43 (Rear LH)			
B251 (Rear RH)			

Is the inspection result normal?

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

### 3. CHECK TIRE PRESSURE RECEIVER GROUND CIRCUIT

1. Disconnect the low tire pressure warning control unit harness connector.
2. Check the continuity between the low tire pressure warning control unit harness connector and tire pressure receiver harness connector.

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M96	26	E53 (Front LH)	4	Existed
	25	E19 (Front RH)		
	24	B43 (Rear LH)		
	23	B251 (Rear RH)		

Is the inspection result normal?

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

### 4. CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT CIRCUIT

Check the low tire pressure warning control unit circuit. Refer to [WT-30, "Diagnosis Procedure"](#).

## C1728 RECEIVER ID

< DTC/CIRCUIT DIAGNOSIS >

---

Is the low tire pressure warning control unit circuit normal?

- YES >> Replace the tire pressure receiver.
- NO >> Repair or replace error-detected parts.

# C1729 VEHICLE SPEED SIG ERR

< DTC/CIRCUIT DIAGNOSIS >

## C1729 VEHICLE SPEED SIG ERR

### Description

INFOID:0000000010581146

Uses CAN communications from the ABS actuator and electric unit (control unit) to receive the vehicle speed signal, and activates the Tire Pressure Monitoring System (TPMS) when the vehicle speed is 40 km/h (25MPH) or more.

### DTC Logic

INFOID:0000000010581147

### DTC logic

DTC	Display Item	Malfunction detected condition	Possible causes
C1729	VHCL SPEED SIG ERR	Speed signal is not detected.	<ul style="list-style-type: none"><li>• CAN communication malfunction</li><li>• Low tire pressure warning control unit malfunction</li><li>• ABS actuator and electric unit (control unit) malfunction</li></ul>

### DTC REPRODUCTION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

④ With CONSULT

1. Drive for several minutes at a speed of 40 km/h (25MPH) or more, then stop the vehicle.
2. Perform "AIR PRESSURE MONITOR self-diagnosis".

Is DTC "C1729" detected?

- YES >> Perform trouble diagnosis. Refer to [WT-27, "Diagnosis Procedure"](#).  
NO >> INSPECTION END

### Diagnosis Procedure

INFOID:0000000010581148

#### 1. PERFORM ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF-DIAGNOSIS

④ With CONSULT

Perform "ABS" self-diagnosis.

Is DTC detected?

- YES >> Check malfunctioning circuit.  
NO >> GO TO 2.

#### 2. PERFORM THE SELF-DIAGNOSIS

④ With CONSULT

Perform "AIR PRESSURE MONITOR" self-diagnosis.

Is DTC "C1729" detected?

- YES >> Replace the low tire pressure warning control unit.  
NO >> GO TO 3.

#### 3. CHECK INFORMATION

④ With CONSULT

Select "DATA MONITOR" of "AIR PRESSURE MONITOR" and check the input/output values. Refer to [WT-41, "Reference Value"](#).

Is the inspection result normal?

- YES >> Check pin terminal and connection of each harness connector for malfunctioning conditions.  
NO >> Replace the low tire pressure warning control unit.

# C1750, C1751, C1752, C1753 RECEIVER

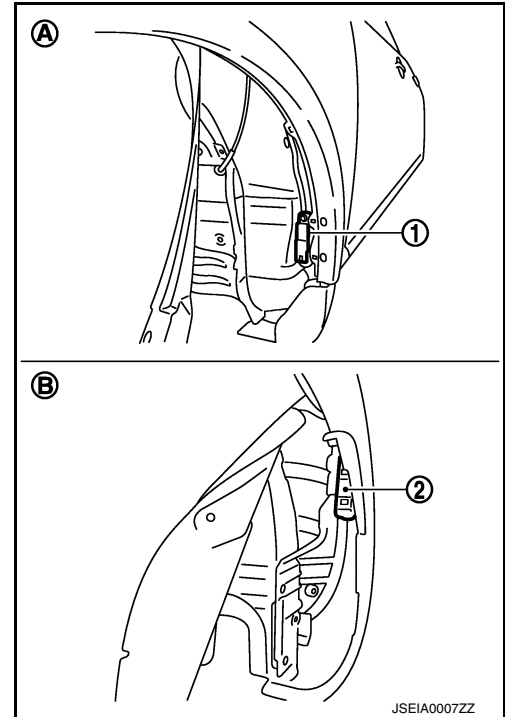
< DTC/CIRCUIT DIAGNOSIS >

## C1750, C1751, C1752, C1753 RECEIVER

### Description

INFOID:000000010581149

The front (A) tire pressure receiver (1) and rear (B) tire pressure receiver (2) receive the tire pressure signal by radio waves from the tire pressure sensor at each wheel, and transmit the tire pressure signal to the low tire pressure warning control unit.



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### DTC Logic

INFOID:000000010581150

### DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1750	[RECEIVER ERR] FL	The front LH tire pressure receiver dose not receive a signal.	Tire pressure receiver malfunction
C1751	[RECEIVER ERR] FR	The front RH tire pressure receiver dose not receive a signal.	
C1752	[RECEIVER ERR] RR	The rear RH tire pressure receiver dose not receive a signal.	
C1753	[RECEIVER ERR] RL	The rear LH tire pressure receiver dose not receive a signal.	

### DTC REPRODUCTION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Perform "AIR PRESSURE MONITOR" self-diagnosis.

Is DTC "C1750", "C1751", "C1752", or "C1753" detected?

- YES >> Perform trouble diagnosis. Refer to [WT-28, "Diagnosis Procedure"](#).  
 NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000010581151

#### 1. CHECK TIRE PRESSURE RECEIVER INPUT SIGNAL

1. Turn the ignition switch ON.

**CAUTION:**

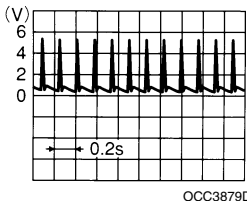
**Never start engine.**

# C1750, C1751, C1752, C1753 RECEIVER

## < DTC/CIRCUIT DIAGNOSIS >

- Use an oscilloscope and check the input signal waveform between the low tire pressure warning control unit harness connector terminals and ground. Refer to [WT-41, "Reference Value"](#).

Connector	Terminal	—	Standard
M96	3	Ground	Stand by status (Approx. 4.5 V)
	4		
	5		
	6		



Is the inspection result normal?

- YES >> INSPECTION END  
NO >> GO TO 2.

### 2. CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

- Disconnect the tire pressure receiver harness connector.
- Check the voltage between the tire pressure receiver harness connector and ground.

Connector	Terminal	—	Voltage
E53 (Front LH)	1	Ground	7 - 16 V
E19 (Front RH)			
B43 (Rear LH)			
B251 (Rear RH)			

Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Repair or replace error-detected part.

### 3. CHECK TIRE PRESSURE RECEIVER GROUND CIRCUIT

- Disconnect the low tire pressure warning control unit harness connector and tire pressure receiver harness connector.
- Check the continuity between the low tire pressure warning control unit harness connector and tire pressure receiver harness connector.

Low tire pressure warning control unit	Tire pressure receiver		Continuity
M96	26	E53 (Front LH)	Existed
	25	E19 (Front RH)	
	24	B43 (Rear LH)	
	23	B251 (Rear RH)	

Is the inspection result normal?

- YES >> GO TO 4.  
NO >> Repair or replace error-detected part.

### 4. CHECK FOR CHANGE TO THE TIRE PRESSURE RECEIVER INSTALLATION POSITION. (EXAMPLE: FRONT LH RECEIVER OK/NG JUDGMENT)

☑ With CONSULT

- Exchange the front LH tire pressure receiver with the front RH tire pressure receivers.
- Perform "AIR PRESSURE MONITOR" self-diagnosis.

Is DTC "C1751" detected?

- YES >> Replace the front RH tire pressure receiver.  
NO >> Perform trouble diagnosis of the low tire pressure warning control unit. Refer to [WT-30, "Diagnosis Procedure"](#).

# C1754 LOW TIRE PRESSURE WARNING CONTROL UNIT

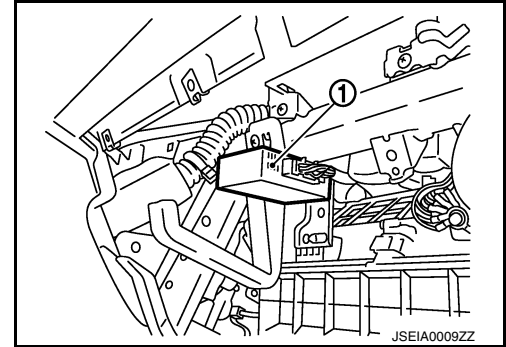
< DTC/CIRCUIT DIAGNOSIS >

## C1754 LOW TIRE PRESSURE WARNING CONTROL UNIT

### Description

INFOID:000000010581152

- After the low tire pressure warning control unit (1) receives the tire pressure signal from the tire pressure receiver, it controls the operation of the low tire pressure warning lamp and buzzer.
- Performs self-diagnosis of the Tire Pressure Monitoring System (TPMS).



### DTC Logic

INFOID:000000010581153

#### DTC logic

DTC	Display Item	Malfunction detected condition	Possible causes
C1754	CONT UNIT (EEPROM)	Tire Pressure Monitoring System (TPMS) malfunction in the low tire pressure warning control unit	Low tire pressure warning control unit malfunction

### DTC REPRODUCTION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT

1. Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle.
2. Stop the vehicle and perform "AIR PRESSURE MONITOR" self-diagnosis.

Is DTC "C1754" detected?

- YES >> Perform trouble diagnosis. Refer to [WT-30, "Diagnosis Procedure"](#).  
 NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000010581154

#### 1. CHECK POWER VOLTAGE

1. Turn the ignition switch OFF.
2. Disconnect the low tire pressure warning control unit harness connector.
3. Check the voltage between the harness connectors of the low tire pressure warning control unit and the ground.

Low tire pressure warning control unit		—	Voltage
Connector	Terminal		
M96	15	Ground	Battery voltage

Is the inspection result normal?

- YES >> GO TO 2.  
 NO >> If the results of any of the following check items are not normal, repair or replace the malfunctioning part.
- 10A fuse [No. 3 in fuse block (J/B)]
  - Harness open circuit or short circuit between the ignition switch and harness connector terminal 15 of the low tire pressure warning control unit.
  - Check battery voltage.

#### 2. CHECK GROUND CIRCUIT

Check the continuity between the low tire pressure warning control unit harness connector and ground.

# C1754 LOW TIRE PRESSURE WARNING CONTROL UNIT

## < DTC/CIRCUIT DIAGNOSIS >

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M96	32	Ground	Existed

Are the check results normal?

YES >> GO TO 3.

NO >> If an open circuit or other damage is detected, malfunctioning part.

### 3. CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT AND TIRE PRESSURE RECEIVER CIRCUIT

1. Check the continuity between the low tire pressure warning control unit harness connector and tire pressure receiver harness connector.

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M96	6	E53 (Front LH)	3	Existed
	22		2	
	10		1	
	26		4	
	5	E19 (Front RH)	3	
	21		2	
	9		1	
	25		4	
	4	B43 (Rear LH)	3	
	20		2	
	8		1	
	24		4	
	3	B251 (Rear RH)	3	
	19		2	
	7		1	
	23		4	

2. Check the continuity between the low tire pressure warning control unit harness connector and ground.

# C1754 LOW TIRE PRESSURE WARNING CONTROL UNIT

## < DTC/CIRCUIT DIAGNOSIS >

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M96	6	Ground	Not existed
	22		
	10		
	26		
	5		
	21		
	9		
	25		
	4		
	20		
	8		
	24		
	3		
	19		
	7		
23			

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace error-detected parts.

## 4.PERFORM THE SELF-DIAGNOSIS

### With CONSULT

1. Perform tire pressure sensor ID registration for all wheels. Refer to [WT-6, "Description"](#).
2. Perform "AIR PRESSURE MONITOR" self-diagnosis.

### Is DTC "C1754" detected?

YES >> Replace the low tire pressure warning control unit.

NO >> Check for looseness or damage at the harness connector pins of the low tire pressure warning control unit. Repair or replace if necessary.

## Special Repair Requirement

INFOID:000000010581155

## 1.CHECK TIRE PRESSURE

Check the tire pressure of all wheels. Refer to [WT-71, "Tire Air Pressure"](#).

### Does the tire pressure match the specified value?

YES >> GO TO 2.

NO >> Check the road wheels and tires. Adjust the tire pressures to the specified values.

## 2.REGISTER TIRE PRESSURE SENSOR ID

Perform tire pressure sensor ID registration. Refer to [WT-6, "Description"](#).

>> END



# C1755, C1756, C1757, C1758 POOR RECEIVING CONDITIONS

< DTC/CIRCUIT DIAGNOSIS >

## C1755, C1756, C1757, C1758 POOR RECEIVING CONDITIONS

### Description

INFOID:0000000010581156

A DTC is detected if the radio signal output from the tire pressure sensor is interrupted by external electromagnetic interference for 10 minutes or more.

### DTC Logic

INFOID:0000000010581157

### DTC logic

DTC	Display Item	Malfunction detected condition	Possible causes
C1755	PR RECEIV COND FL	The data signal from the front LH wheel tire pressure sensor cannot be detected due to external electromagnetic interference. (DTC C1708 is displayed at the same time.)	External electromagnetic interference
C1756	PR RECEIV COND FR	The data signal from the front RH wheel tire pressure sensor cannot be detected due to external electromagnetic interference. (DTC C1709 is displayed at the same time.)	
C1757	PR RECEIV COND RR	The data signal from the rear RH wheel tire pressure sensor cannot be detected due to external electromagnetic interference. (DTC C1710 is displayed at the same time.)	
C1758	PR RECEIV COND RL	The data signal from the rear LH wheel tire pressure sensor cannot be detected due to external electromagnetic interference. (DTC C1711 is displayed at the same time.)	

### CAUTION:

If DTC C1755, C1756, C1757, or C1758 (low communication performance) is detected along with, C1708, C1709, C1710, or C1711 (no tire pressure sensor data) first diagnose C1755, C1756, C1757, or C1758 (low communications performance).

### DTC REPRODUCTION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

##### Ⓜ With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Perform "AIR PRESSURE MONITOR" self-diagnosis.

Is DTC "C1755", "C1756", "C1757", or "C1758" detected?

- YES >> Perform trouble diagnosis. Refer to [WT-33, "Diagnosis Procedure"](#).  
NO >> INSPECTION END

### Diagnosis Procedure

INFOID:0000000010581158

#### 1. REGISTER THE TIRE PRESSURE SENSOR ID

Perform tire pressure sensor ID registration for all wheels. Refer to [WT-6, "Description"](#).

Is ID registration for all wheels completed?

- YES >> GO TO 2.  
NO >> Change the work location and perform ID registration again, then perform trouble diagnosis. Refer to [WT-58, "Diagnosis Procedure"](#).

#### 2. CHECK TIRE PRESSURE SIGNAL

##### Ⓜ With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Within 5 minutes, select "DATA MONITOR" of "AIR PRESSURE MONITOR".
3. Display the following: "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR", and "AIR PRESS RL".
4. Check that the displayed tire pressures is the specified value.

# C1755, C1756, C1757, C1758 POOR RECEIVING CONDITIONS

< DTC/CIRCUIT DIAGNOSIS >

Monitor item	Condition	Displayed value
AIR PRESS FL	Drive for 3 minutes at a speed of 40 km/h (25MPH) or more, then drive normally for 10 minutes.	Air pressure of tire pressure
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Change the work location, then GO TO 1.

## 3. CHECK THE DIAGNOSIS RESULTS

Ⓜ With CONSULT

1. Erase the self-diagnosis memory of the low tire pressure warning control unit.
2. Turn ignition switch OFF, and wait for 10 seconds or more.
3. Perform "AIR PRESSURE MONITOR" self-diagnosis.

Are DTC "C1755", "C1756", "C1757", or "C1758" and "C1708", "C1709", "C1710", or "C1711" detected?

YES >> Change the work location, then GO TO 1.

NO >> GO TO 4.

## 4. CHECK TIRE PRESSURE SIGNAL

Ⓜ With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Within 5 minutes, select "DATA MONITOR" of "AIR PRESSURE MONITOR".
3. Display the following: "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR", and "AIR PRESS RL".
4. Check that the tire pressures is the specified value.

Monitor item	Condition	Displayed value
AIR PRESS FL	Drive for 3 minutes at a speed of 40 km/h (25MPH) or more, then drive normally for 10 minutes.	Air pressure of tire pressure
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Change the work location, then GO TO 1.

# U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## U1000 CAN COMM CIRCUIT

### Description

INFOID:0000000010581159

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit communicates data but selectively reads required data only.

### DTC Logic

INFOID:0000000010581160

### DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
U1000	CAN COMM CIRCUIT	Low tire pressure warning control unit is not communicating CAN communication signal for 2 seconds or more.	<ul style="list-style-type: none"><li>• CAN communication malfunction</li><li>• Malfunction of low tire pressure warning control unit</li></ul>

### DTC CONFIRMATION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

④ With CONSULT

1. Turn the ignition switch OFF to ON.
2. Perform "AIR PRESSURE MONITOR" self-diagnosis.

Is DTC "U1000" detected?

- YES >> Proceed to trouble diagnosis procedure. Refer to [WT-35. "Diagnosis Procedure"](#).  
NO >> INSPECTION END

### Diagnosis Procedure

INFOID:0000000010581161

#### 1. PERFORM SELF-DIAGNOSIS

④ With CONSULT

Perform "AIR PRESSURE MONITOR" self-diagnosis.

Is DTC "U1000" detected?

- YES >> CAN specification chart. Refer to [LAN-34. "CAN System Specification Chart"](#).  
NO >> INSPECTION END

# U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

## U1010 CONTROL UNIT (CAN)

### Description

INFOID:000000010581162

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit communicates data but selectively reads required data only.

### DTC Logic

INFOID:000000010581163

### DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
U1010	CONTROL UNIT (CAN)	Detecting error during the initial diagnosis of CAN controller of low tire pressure warning control unit.	Malfunction of low tire pressure warning control unit

### DTC CONFIRMATION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

Ⓔ With CONSULT

1. Turn the ignition switch OFF to ON.
2. Perform "AIR PRESSURE MONITOR" self-diagnosis.

Is DTC "U1010" detected?

- YES >> Proceed to trouble diagnosis procedure. Refer to [WT-36, "Diagnosis Procedure"](#).  
NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000010581164

#### 1. CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT

Check low tire pressure warning control unit harness connector for disconnection or deformation.

Is the inspection result normal?

- YES >> Replace low tire pressure warning control unit. Refer to [WT-67, "Exploded View"](#).  
NO >> Repair or replace error-detected parts.

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## POWER SUPPLY AND GROUND CIRCUIT

### Description

INFOID:0000000010581165

Supply power to the low tire pressure warning control unit.

### Diagnosis Procedure

INFOID:0000000010581166

#### 1.CHECK FUSE/FUSIBLE LINK

Check for fusing of the fuse and fusible link at the low tire pressure warning control unit.

- Check the 10A fuse [No. 3 inside the fuse block (J/B)]

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace error-detected parts.

#### 2.POWER SUPPLY SYSTEM CHECK

1. Turn the ignition switch OFF.
2. Disconnect the low tire pressure warning control unit harness connector.
3. Turn the ignition switch ON.

#### **CAUTION:**

**Never start engine.**

4. Check the continuity between the low tire pressure warning control unit harness connector and the ground.

Low tire pressure warning control unit		—	Voltage
Connector	Terminal		
M96	15	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace error-detected parts.

#### 3.GROUND SYSTEM INSPECTION

1. Turn the ignition switch OFF.
2. Check the continuity between the low tire pressure warning control unit harness connector and the ground.

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M96	32	Ground	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace error-detected parts.

#### 4.CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

1. Connect the low tire pressure warning control unit harness connector.
2. Disconnect the tire pressure receiver harness connector.
3. Check the voltage between the tire pressure receiver harness connector and ground.

Tire pressure receiver		—	Voltage
Connector	Terminal		
E53 (Front LH)	1	Ground	7 - 16 V
E19 (Front RH)			
B43 (Rear LH)			
B251 (Rear RH)			

Is the inspection result normal?

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

## POWER SUPPLY AND GROUND CIRCUIT

### < DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 5.  
NO >> Repair or replace error-detected parts.

### 5. CHECK RECEIVER GROUND CIRCUIT

1. Disconnect the low tire pressure warning control unit harness connector.
2. Check the continuity between the harness connector terminals of the receiver and the low tire pressure warning control unit.

Tire pressure receiver		Low tire pressure warning control unit		Continuity
Connector	Terminal	Connector	Terminal	
E53 (Front LH)	4	M96	26	Existed
E19 (Front RH)			25	
B43 (Rear LH)			24	
B251 (Rear RH)			23	

### Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Repair or replace error-detected parts.

# LOW TIRE PRESSURE WARNING LAMP

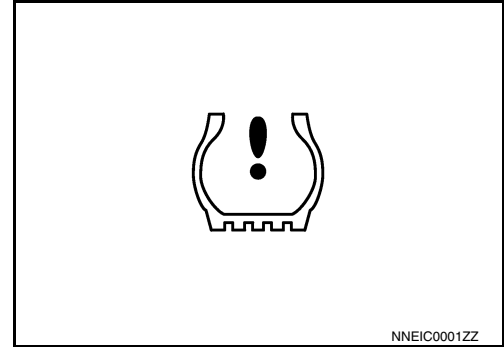
< DTC/CIRCUIT DIAGNOSIS >

## LOW TIRE PRESSURE WARNING LAMP

### Description

INFOID:0000000010581167

Uses CAN communication from the low tire pressure warning control unit to illuminate the low tire pressure warning lamp on the combination meter.



Condition	Low tire pressure warning lamp
Ignition switch OFF.	OFF
Ignition switch ON.	Illuminates for 1 second, then turns OFF.
When tire pressure is low [Tire pressure is 182 kPa (1.86 kg/cm <sup>2</sup> , 26.4 psi)* or less	ON
Tire Pressure Monitoring System (TPMS) error	Flashes for 1 minute, then stays illuminated.

\*: Tire pressure at each condition differs.

### Component Function Check

INFOID:0000000010581168

#### 1. CHECK THE ILLUMINATION OF THE LOW TIRE PRESSURE WARNING LAMP

Check that the low pressure warning lamp is turned OFF after illuminating for approximately 1 second, when the ignition switch is turned ON.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Perform trouble diagnosis. Refer to [WT-39, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000010581169

#### 1. POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit. Refer to [WT-37, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace error-detected parts.

#### 2. PERFORM THE SELF-DIAGNOSIS

With CONSULT

Perform "AIR PRESSURE MONITOR" self-diagnosis.

Is DTC "U1000" detected?

YES >> Perform trouble diagnosis for CAN communication system. Refer to [WT-35, "Diagnosis Procedure"](#).

NO >> GO TO 3.

#### 3. CHECK LOW TIRE PRESSURE WARNING LAMP SIGNAL

With CONSULT

1. Turn the ignition switch ON.

**CAUTION:**

**Never start engine.**

2. Select "DATA MONITOR" of "AIR PRESSURE MONITOR".

## LOW TIRE PRESSURE WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

---

3. Read out the value of "WARNING LAMP".

Does the data monitor display change from ON to OFF?

YES >> Check the combination meter. Refer to [MWI-6. "METER SYSTEM : System Description"](#).

NO >> Replace the low tire pressure warning control unit. Refer to [WT-67. "Exploded View"](#).



# LOW TIRE PRESSURE WARNING CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

## ECU DIAGNOSIS INFORMATION

### LOW TIRE PRESSURE WARNING CONTROL UNIT

Reference Value

INFOID:000000010581170

VALUES ON THE DIAGNOSIS TOOL

**CAUTION:**

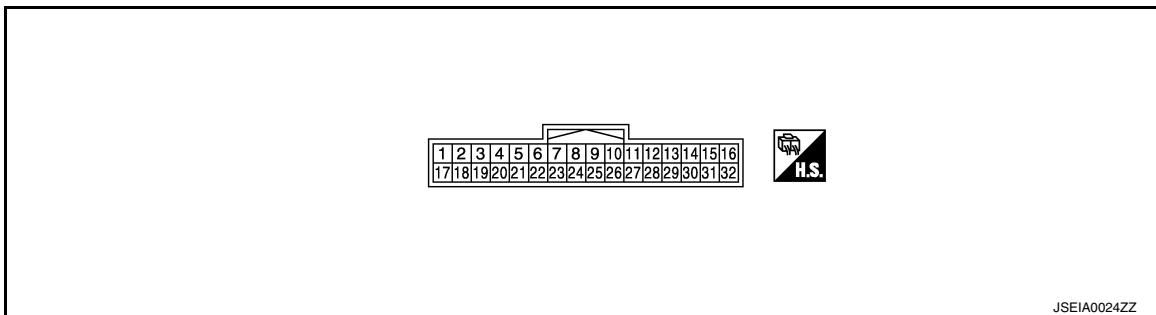
The reference values in the table below come from the control unit calculation data. The normal values may in some cases be displayed even though the power circuit (harness) is open or shorted.

**NOTE:**

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item	Data monitor	
	Condition	Reference values for normal operation
VHCL SPEED SE	Drive the vehicle.	Vehicle speed (km/h) or (MPH)
AIR PRESS FL	Start the engine and drive at a speed of 40 km/h (25 MPH) or more for 10 minutes.	Tire pressure (kg/cm <sup>2</sup> ), (kPa) or (Psi)
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		
ID REGST FL1	Ignition switch ON	ID registered: Done ID not registered: Yet
ID REGST FR1		
ID REGST RR1		
ID REGST RL1		
WARNING LAMP		
BUZZER	Combination meter buzzer ON: On Combination meter buzzer OFF: Off	

### TERMINAL LAYOUT





### PHYSICAL VALUES

Terminal No. (Wire color)	Description		Condition	Value (Approx.)
	Signal name	Input/ Output		
1 (P)	CAN-L	—	—	—
2 (L)		—	—	—

# LOW TIRE PRESSURE WARNING CONTROL UNIT

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)		
	Signal name	Input/ Output				
3 (BG)	Ground	Tire pressure receiver signal	Input	Ignition switch ON	Stand by status (Approx. 4.5 V)	 <p style="text-align: right; font-size: small;">OCC3879D</p>
4 (L)						
5 (R)				When signal is received (Approx. 4.5 V)	 <p style="text-align: right; font-size: small;">OCC3880D</p>	
6 (P)						
7 (SB)	Ground	Tire pressure receiver power supply	Input	Ignition switch ON	Approx. 7 - 16 V (Power is supplied to the receiver from the low tire pressure warning control unit.)	
8 (R)						
9 (GR)						
10 (G)						
15 (Y)	Ground	Ignition switch	Input	Ignition switch ON	Battery voltage	
19 (W)	Ground	Tire pressure receiver signal (sensitivity)	Input	Ignition switch ON	Approx. 0.7 V	
20 (BR)						
21 (LG)						
22 (V)						
23 (B)	Ground	Tire pressure receiver ground	—	—	0 V	
24 (Y)						
25 (W)						
26 (P)						
30 (LG)	Ground	Hazard lamp	Output	Hazard lamp switch ON	0 V	
				Hazard lamp switch OFF	Battery voltage	
32 (B)	Ground	Ground	—	—	0 V	

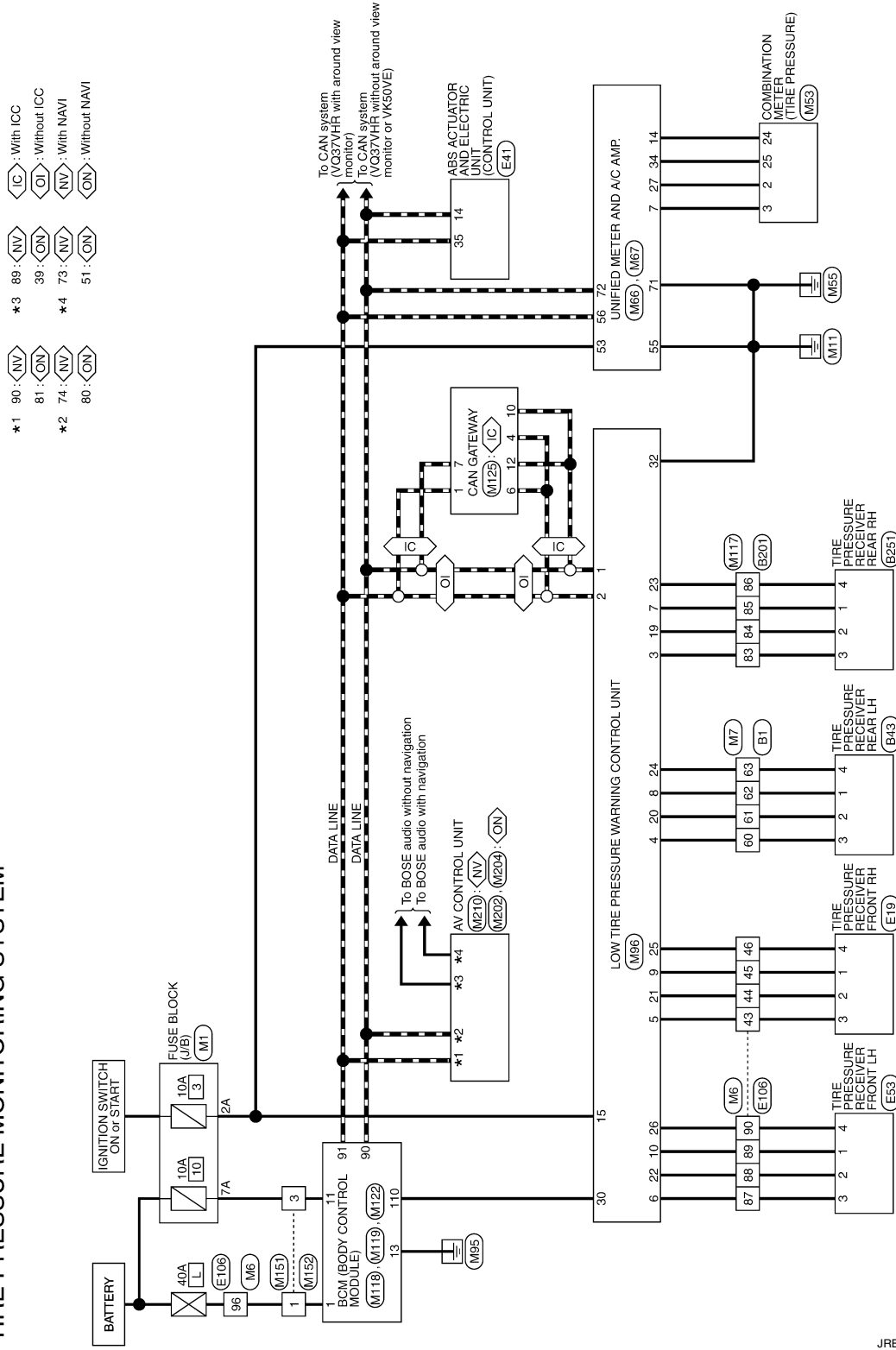
# LOW TIRE PRESSURE WARNING CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

## Wiring Diagram - TIRE PRESSURE MONITORING SYSTEM -

INFOID:000000010581171

### TIRE PRESSURE MONITORING SYSTEM



- \*1 90 : <NV>
- 81 : <ON>
- \*2 74 : <NV>
- 80 : <ON>
- \*3 89 : <NV>
- 39 : <ON>
- \*4 73 : <NV>
- 51 : <ON>

- <IC> : With ICC
- <OI> : Without ICC
- <NV> : With NAVI
- <ON> : Without NAVI

2014/03/18

JREW1025GB

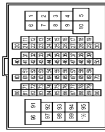
A  
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O  
P

# LOW TIRE PRESSURE WARNING CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

## TIRE PRESSURE MONITORING SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-
3	W	-
4	G	-
7	P	-
8	BG	-
10	SB	-
11	SB	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	Y	-
21	W	-
23	V	-
24	P	-
25	BR	-
26	GR	-
27	BG	-
28	W	-
38	B	-
39	B	-
43	SB	-
44	V	-
45	GR	-
51	V	-
52	SB	-
53	SHIELD	-
54	BR	-
55	Y	-
56	SHIELD	-

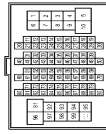
57	P	-
58	L	-
59	SHIELD	-
60	L	-
61	P	-
62	GR	-
63	G	-
64	BG	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	GR	-
71	G	-
72	B	-
73	W	-
74	V	-
75	BG	-
76	LG	-
77	L	-
78	GR	-
79	W	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	R	-
86	Y	-
87	B	-
88	G	-
89	BR	-
91	R	-
92	BG	-
93	BR	-
94	V	-
96	BG	-
97	W	-
98	GR	-
99	W	-

Connector No.	B43
Connector Name	TIRE PRESSURE RECEIVER REAR LH
Connector Type	RH04FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	VCC
2	P	RSSI
3	L	SIG
4	G	GROUND

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	BR	-
4	SB	-
6	BG	-
7	GR	-
8	W	-
10	G	-
11	SHIELD	-
20	L	-
21	P	-
22	GR	-
23	LG	-
24	W	-
25	V	-

26	G	-
27	Y	-
28	SHIELD	-
31	W	-
32	GR	-
33	SB	-
36	L	-
37	P	-
38	L	-
39	P	-
40	LG	- [With ICC]
41	V	- [Without ICC]
41	SB	- [With ICC]
41	Y	- [Without ICC]
42	V	- [With ICC]
42	W	- [Without ICC]
43	B	- [With ICC]
43	BR	- [Without ICC]
44	R	-
45	G	-
46	BG	- [With ICC]
46	SHIELD	- [Without ICC]
47	B	- [Without ICC]
47	L	- [With ICC]
48	P	-
48	R	- [Without ICC]
49	G	- [With ICC]
49	W	- [Without ICC]
50	SHIELD	-
51	W	-
52	R	-
53	G	-
54	L	-
55	SB	-
60	GR	-
61	LG	-
62	SB	-
63	P	-
64	BR	-
65	BG	-
66	Y	-
67	W	-
69	G	-
71	SB	-
72	V	-
73	LG	-
74	W	-
75	BR	-
76	V	-

# LOW TIRE PRESSURE WARNING CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

## TIRE PRESSURE MONITORING SYSTEM

77	LG	-	Connector No.	E19	
80	BG	-	Connector Name	TIRE PRESSURE RECEIVER FRONT RH	
82	P	-	Connector Type	RHM4FB	
83	Y	-			
84	R	-			
85	SB	-			
86	GR	-			
87	L	-			
91	V	-			
92	W	-			
93	R	-			
94	LG	-			
95	GR	-			
96	W	-			
97	G	-			
98	BG	-			
99	L	-			



Terminal No.	Wire	Signal Name [Specification]
1	GR	VCC
2	G	RSSI
3	R	SIG
4	W	GROUND

Connector No.	B251
Connector Name	TIRE PRESSURE RECEIVER REAR RH
Connector Type	RHM4FB



Terminal No.	Wire	Signal Name [Specification]
1	SB	VCC
2	R	RSSI
3	Y	SIG
4	GR	GROUND

28	G	LZ
29	LG	DS RR
30	SB	BLS
31	R	VOC OFF SW
35	L	CAN-H
45	B	BUS-H

Connector No.	E53
Connector Name	TIRE PRESSURE RECEIVER FRONT LH
Connector Type	RHM4FB



Terminal No.	Wire	Signal Name [Specification]
1	LG	VCC
2	BG	RSSI
3	W	SIG
4	BR	GROUND

Connector No.	E106
Connector Name	WIPE TO WIPE
Connector Type	TH80FM-CS16-TM4



Terminal No.	Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	SB	-
4	LG	-
6	Y	-
6	W	-
7	G	-
8	V	-

9	R	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	SB	-
17	L	-
18	P	-
19	G	-
20	W	- [With ICC]
20	Y	- [Without ICC]
21	BR	- [With ICC]
22	R	- [Without ICC]
22	V	- [With ICC]
22	G	- [Without ICC]
24	L	- [With ICC]
24	P	- [Without ICC]
25	L	- [Without ICC]
25	Y	- [With ICC]
26	SHIELD	-
28	G	-
29	LG	-
30	BG	-
32	W	-
33	Y	-
34	BG	-
37	Y	-
39	LG	-
41	LG	-
42	V	-
43	R	-
44	G	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	SB	-
50	BR	-
51	B	-
52	Y	-
53	BG	-
54	R	-
55	SB	-
59	P	-
60	SB	-
61	V	-
62	P	-

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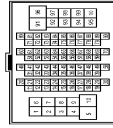
# LOW TIRE PRESSURE WARNING CONTROL UNIT

## < ECU DIAGNOSIS INFORMATION >

### TIRE PRESSURE MONITORING SYSTEM

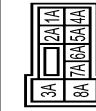
63	LG	-
64	L	-
65	BG	-
66	L	-
69	L	-
70	SHIELD	-
71	G	-
72	G	-
73	R	-
74	BR	-
76	L	-
77	W	-
78	Y	-
80	SB	-
81	L	-
82	W	-
83	LG	-
84	GR	-
85	G	-
86	D	-
87	W	-
88	BG	-
89	LG	-
90	BR	-
91	GR	-
92	BR	-
93	SB	-
95	Y	-
96	W	-
97	W	-
98	SHIELD	-
100	Y	-

Connector No. M6  
 Connector Name WIRE TO WIRE  
 Connector Type TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name (Specification)
1	G	-
2	BG	-
3	LG	- [Without Auto aircon seat]
3	SB	- [With Auto aircon seat]
4	LG	-
5	GR	-
6	W	-
7	G	-
8	W	-
9	P	-
10	BR	-
11	B	-
12	G	-
13	R	-
14	W	-
15	SHIELD	-
16	BR	-
17	L	-
18	P	-
19	G	-
20	GR	- [Without ICC]
20	W	- [With ICC]
21	BR	- [Without ICC]
21	R	- [With ICC]
22	L	- [Without ICC]
22	R	- [With ICC]
23	G	-
24	L	- [Without ICC]
24	P	- [With ICC]

Connector No. M1  
 Connector Name FUSE BLOCK (JIB)  
 Connector Type NS08FM-M2

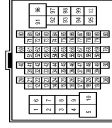


Terminal No.	Color Of Wire	Signal Name (Specification)
1A	BG	-
2A	G	-
3A	L	-

25	W	- [Without ICC]
25	Y	- [With ICC]
26	SHIELD	-
28	GR	-
29	V	-
30	BG	-
32	Y	-
33	W	-
34	L	-
37	G	-
38	R	-
39	G	-
41	L	-
42	W	-
43	R	-
44	LG	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	BG	-
50	LG	-
51	SB	-
52	Y	-
53	BG	-
54	BR	-
55	SB	-
59	SB	-
60	SB	-
61	V	-
62	P	-
63	R	-
64	L	-
65	BG	-
69	V	-
70	SHIELD	-
71	BG	-
72	GR	-
73	W	-
74	SB	-
76	V	-
77	V	-
78	Y	-
80	BG	-
81	L	-
82	W	-
85	Y	-
86	L	-
88	P	-
88	BR	-

87	P	-
88	V	-
89	G	-
90	P	-
91	R	-
92	R	-
93	GR	-
95	G	-
96	W	-
97	W	-
98	SHIELD	-
100	Y	-

Connector No. M7  
 Connector Name WIRE TO WIRE  
 Connector Type TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name (Specification)
1	G	- [With Auto aircon seat]
1	Y	- [Without Auto aircon seat]
2	B	-
3	W	-
6	P	-
7	V	-
8	BG	-
10	W	-
11	BG	-
12	B	-
13	G	-
14	R	-
15	W	-
16	SHIELD	-
17	L	-
18	P	-
19	G	-
20	R	-
21	LG	-
23	V	-
24	P	-
25	BR	-

# LOW TIRE PRESSURE WARNING CONTROL UNIT

## < ECU DIAGNOSIS INFORMATION >

### TIRE PRESSURE MONITORING SYSTEM

26	GR	-	-	-	-
27	BG	-	-	-	-
96	BG	V	-	-	-
97	W	-	-	-	-
38	B	-	-	-	-
98	R	-	-	-	-
39	B	-	-	-	-
43	SB	-	-	-	-
44	W	-	-	-	-
45	B	-	-	-	-
51	V	-	-	-	-
52	LG	-	-	-	-
53	SHIELD	-	-	-	-
54	BR	-	-	-	-
55	Y	-	-	-	-
56	SHIELD	-	-	-	-
57	P	-	-	-	-
58	L	-	-	-	-
59	SHIELD	-	-	-	-
60	L	-	-	-	-
61	BR	-	-	-	-
62	R	-	-	-	-
63	Y	-	-	-	-
64	L	-	-	-	-
65	W	-	-	-	-
66	V	-	-	-	-
67	LG	-	-	-	-
68	Y	-	-	-	-
69	G	-	-	-	-
70	V	-	-	-	-
71	W	-	-	-	-
72	B	-	-	-	-
73	W	-	-	-	-
74	LG	-	-	-	-
75	P	-	-	-	-
76	LG	-	-	-	-
77	SB	-	-	-	-
78	GR	-	-	-	-
79	R	-	-	-	-
80	L	-	-	-	-
81	P	-	-	-	-
82	L	-	-	-	-
83	P	-	-	-	-
84	SB	-	-	-	-
85	W	-	-	-	-
86	Y	-	-	-	-
87	B	-	-	-	-
88	G	-	-	-	-
89	BG	-	-	-	-
91	R	-	-	-	-
92	BG	-	-	-	-
93	BR	-	-	-	-

94	V	-	-	-	-
96	BG	-	-	-	-
97	W	-	-	-	-
98	R	-	-	-	-
99	BG	-	-	-	-

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH40FV-NH



Terminal No.	Color Of Wire	Signal Name (Specification)
1	BG	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP.)
3	GR	COMMUNICATION SIGNAL (AMP->METER)
5	B	GROUND
6	W	ALTERNATOR SIGNAL
7	P	AIR BAG SIGNAL
10	G	SECURITY INDICATOR SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
21	R	IGNITION SIGNAL
24	BR	COMMUNICATION SIGNAL (LCD->AMP.)
25	Y	COMMUNICATION SIGNAL (AMP->LCD)
26	R	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	G	PASSENGER SEAT BELT WARNING SIGNAL
31	L	WASHER LEVEL SWITCH SIGNAL
34	B	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP AIR RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (1)
40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (2)

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FV-NH



Terminal No.	Color Of Wire	Signal Name (Specification)
5	L	MANUAL MODE SHIFT UP SIGNAL
6	BG	PADDLE SHIFTER UP SIGNAL
7	GR	COMMUNICATION SIGNAL (AMP->METER)
8	G	VEHICLE SPEED SIGNAL (2-PULSE)
9	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	W	MANUAL MODE SIGNAL
11	G	NON-MANUAL MODE SIGNAL
14	BR	COMMUNICATION SIGNAL (LCD->AMP.)
20	L	ION SENSOR SIGNAL
23	Y	AT SNOW SWITCH SIGNAL
25	V	MANUAL MODE SHIFT DOWN SIGNAL
26	G	PADDLE SHIFTER DOWN SIGNAL
27	LG	COMMUNICATION SIGNAL (METER->AMP.)
28	R	VEHICLE SPEED SIGNAL (8-PULSE)
30	V	PARKING BRAKE SWITCH SIGNAL
34	Y	COMMUNICATION SIGNAL (AMP->LCD)
38	L	BLOWER MOTOR CONTROL SIGNAL

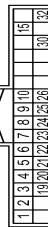
Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FV-NH



Terminal No.	Color Of Wire	Signal Name (Specification)
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL

44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	V	GAS SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	BG	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CANH
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	B	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	BR	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	R	ION MODE SIGNAL
65	BG	ECV SIGNAL
66	L	A/C LAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CANL

Connector No.	M66
Connector Name	LOW TIRE PRESSURE WARNING CONTROL UNIT
Connector Type	TH32FV-NH



Terminal No.	Color Of Wire	Signal Name (Specification)
1	P	CAN- (L)
2	L	CAN- (H)
3	BG	RR TUNER (SIG)
4	L	RL TUNER (SIG)
5	R	FR TUNER (SIG)
6	P	FL TUNER (SIG)
7	SB	RR TUNER (VCC)
8	R	RL TUNER (VCC)
9	GR	FR TUNER (VCC)
10	G	FL TUNER (VCC)
15	Y	IGN
19	W	RR TUNER (RSSI)
20	BR	RL TUNER (RSSI)
21	LG	FR TUNER (RSSI)

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# LOW TIRE PRESSURE WARNING CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

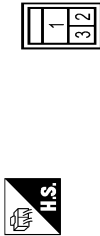
## TIRE PRESSURE MONITORING SYSTEM

Connector No.	M125
Connector Name	CAN GATEWAY
Connector Type	TH12FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CANH
2	GR	BATTERY
3	L	CANH
4	B	GROUND
5	L	CANH
6	L	CANL
7	P	IGNITION
9	LG	CANL
10	P	GROUND
11	B	GROUND
12	P	CANL

Connector No.	M151
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



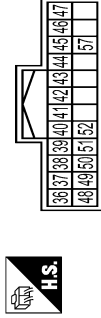
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-
3	R	-

Connector No.	M152
Connector Name	WIRE TO WIRE
Connector Type	M03MM-LC



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

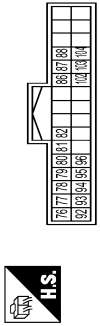
Connector No.	M202
Connector Name	AV CONTROL UNIT
Connector Type	TH24FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
36	BG	SIGNAL VCC
37	LG	SIGNAL GND
38	R	HP
39	BR	COMM (DISP->CONT)
40	B	RGB AREA (VS) SIGNAL
41	SHIELD	SHIELD
42	G	RGB SYNC
43	B	RGB (R/RED) SIGNAL
44	W	RGB (G/GREEN) SIGNAL
45	R	RGB (B/BLUE) SIGNAL
46	BG	COMPOSITE IMAGE SIGNAL GND
47	SB	COMPOSITE IMAGE SIGNAL
48	Y	INVERTER VCC
49	BR	INVERTER GND
50	W	V+
51	Y	COMM (CONT->DISP)
52	SB	SHIELD

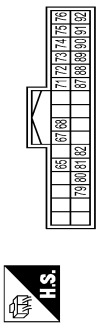
Terminal No.	57
Color Of Wire	SHIELD

Connector No.	M204
Connector Name	AV CONTROL UNIT
Connector Type	TH22FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
76	LG	AV COMM (L)
77	SB	AV COMM (H)
78	LG	AV COMM (L)
79	SB	AV COMM (H)
80	P	CANL
81	L	CANH
82	BR	SW GND
86	SHIELD	SHIELD
87	L	TEL VOICE SIGNAL (+)
88	P	TEL VOICE SIGNAL (-)
92	R	VEHICLE SPEED SIGNAL (8-PULSE)
93	V	PARKING BRAKE SIGNAL
94	BG	REVERSE SIGNAL
95	G	IGNITION SIGNAL
96	SB	DISK EJECT SIGNAL
102	B	AUX. GND
103	W	AUX. AUDIO LH+
104	R	AUX. AUDIO RH+

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH22FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
65	V	PARKING BRAKE SIGNAL
67	B	COMPOSITE IMAGE SIGNAL GND
68	B	COMPOSITE IMAGE SIGNAL
71	SHIELD	MICROPHONE SHIELD
72	G	MICROPHONE VCC
73	R	COMM (CONT->DISP)
74	P	CANL
75	LG	AV COMM (L)
76	LG	AV COMM (L)
79	R	ILLUMINATION
80	G	IGNITION SIGNAL
81	BG	REVERSE SIGNAL
82	R	VEHICLE SPEED SIGNAL (8-PULSE)
87	R	MICROPHONE SIGNAL
88	B	SHIELD
89	G	COMM (DISP->CONT)
90	L	CANH
91	SB	AV COMM (H)
92	SB	AV COMM (H)

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## DTC Inspection Priority Chart

When multiple DTCs are detected simultaneously, check one by one as per on the following priority list.

JREW1031GB

INFOID:000000010581172

# LOW TIRE PRESSURE WARNING CONTROL UNIT

## < ECU DIAGNOSIS INFORMATION >

Priority	Detection items
1	<ul style="list-style-type: none"> <li>• U1000 CAN COMM CIRCUIT</li> <li>• U1010 CONTROL UNIT (CAN)</li> </ul>
2	<ul style="list-style-type: none"> <li>• C1704 LOW PRESSURE FL</li> <li>• C1705 LOW PRESSURE FR</li> <li>• C1706 LOW PRESSURE RR</li> <li>• C1707 LOW PRESSURE RL</li> </ul>
3	<ul style="list-style-type: none"> <li>• C1755 PR RECEIV COND FL</li> <li>• C1756 PR RECEIV COND FR</li> <li>• C1757 PR RECEIV COND RR</li> <li>• C1758 PR RECEIV COND RL</li> </ul>
4	<ul style="list-style-type: none"> <li>• C1708 [NO DATA] FL</li> <li>• C1709 [NO DATA] FR</li> <li>• C1710 [NO DATA] RR</li> <li>• C1711 [NO DATA] RL</li> </ul>
5	<ul style="list-style-type: none"> <li>• C1716 [PRESSDATA ERR] FL</li> <li>• C1717 [PRESSDATA ERR] FR</li> <li>• C1718 [PRESSDATA ERR] RR</li> <li>• C1719 [PRESSDATA ERR] RL</li> </ul>
6	<ul style="list-style-type: none"> <li>• C1720 [CODE ERR] FL</li> <li>• C1721 [CODE ERR] FR</li> <li>• C1722 [CODE ERR] RR</li> <li>• C1723 [CODE ERR] RL</li> </ul>
7	C1728 RECEIVER ID NO REG
8	C1729 VHCL SPEED SIG ERR
9	<ul style="list-style-type: none"> <li>• C1750 [RECEIVER ERR] FL</li> <li>• C1751 [RECEIVER ERR] FR</li> <li>• C1752 [RECEIVER ERR] RR</li> <li>• C1753 [RECEIVER ERR] RL</li> </ul>
10	C1754 CONT UNIT (EEPROM)

## DTC Index

INFOID:000000010581173

DTC	Display Item	Reference
C1704	LOW PRESSURE FL	<a href="#">WT-12</a>
C1705	LOW PRESSURE FR	
C1706	LOW PRESSURE RR	
C1707	LOW PRESSURE RL	
C1708	[NO DATA] FL	<a href="#">WT-14</a>
C1709	[NO DATA] FR	
C1710	[NO DATA] RR	
C1711	[NO DATA] RL	
C1716	[PRESSDATA ERR] FL	<a href="#">WT-18</a>
C1717	[PRESSDATA ERR] FR	
C1718	[PRESSDATA ERR] RR	
C1719	[PRESSDATA ERR] RL	
C1720	[CODE ERR] FL	<a href="#">WT-20</a>
C1721	[CODE ERR] FR	
C1722	[CODE ERR] RR	
C1723	[CODE ERR] RL	
C1728	RECEIVER ID NO REG	<a href="#">WT-24</a>

# LOW TIRE PRESSURE WARNING CONTROL UNIT

## < ECU DIAGNOSIS INFORMATION >

DTC	Display Item	Reference
C1729	VHCL SPEED SIG ERR	<a href="#">WT-27</a>
C1750	[RECEIVER ERR] FL	<a href="#">WT-28</a>
C1751	[RECEIVER ERR] FR	
C1752	[RECEIVER ERR] RR	
C1753	[RECEIVER ERR] RL	
C1754	CONT UNIT (EEPROM)	<a href="#">WT-30</a>
C1755	PR RECEIV COND FL	<a href="#">WT-33</a>
C1756	PR RECEIV COND FR	
C1757	PR RECEIV COND RR	
C1758	PR RECEIV COND RL	
U1000	CAN COMM CIRCUIT	<a href="#">WT-35</a>
U1010	CONTROL UNIT (CAN)	<a href="#">WT-36</a>

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# SYMPTOM DIAGNOSIS

## TPMS

### Symptom Table



INFOID:000000010581174

#### LOW TIRE PRESSURE WARNING LAMP SYMPTOM CHART

Diagnosis items	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
Low tire pressure warning lamp	The low tire pressure warning lamp illuminates for 1 second, then turns OFF.	  ON 1 sec > stays OFF <small>SEIA0592E</small>	Wake-up operation for all tire pressure sensors at wheels is completed.	No system malfunctions
	The low tire pressure warning lamp repeats blinking ON for 2 seconds and OFF for 0.2 seconds.	 Blinks:  ON 2 sec > OFF 0.2 sec <small>SEIA0593E</small>	Wake-up operation for all tire pressure sensors at wheels is not completed.	Perform the wake-up operation for all tire pressure sensors at wheels. Refer to <a href="#">WT-5, "Description"</a> .
	The low tire pressure warning lamp blinks once.	 Blinks 1 time ON 0.3 sec > OFF 1.0 sec <small>JPEIC0090GB</small>	The front left tire pressure sensor is not activated.	Perform the wake-up operation for the tire pressure sensor at front left wheel. Refer to <a href="#">WT-5, "Description"</a> .
	The low tire pressure warning lamp repeats blinking twice.	  Blinks 2 times ON 0.3 sec > OFF 0.3 sec <small>SEIA0595E</small>	The front right tire pressure sensor is not activated.	Perform the wake-up operation for the tire pressure sensor at front right wheel. Refer to <a href="#">WT-5, "Description"</a> .
	The low tire pressure warning lamp repeats blinking for 3 times.	   Blinks 3 times ON 0.3 sec > OFF 0.3 sec <small>SEIA0596E</small>	The rear right tire pressure sensor is not activated.	Perform the wake-up operation for the tire pressure sensor at rear right wheel. Refer to <a href="#">WT-5, "Description"</a> .
	The low tire pressure warning lamp repeats blinking for 4 times.	    Blinks 4 times ON 0.3 sec > OFF 0.3 sec <small>SEIA0597E</small>	The rear left tire pressure sensor is not activated.	Perform the wake-up operation for the tire pressure sensor at rear left wheel. Refer to <a href="#">WT-5, "Description"</a> .

# TPMS

## < SYMPTOM DIAGNOSIS >

Diagnosis items	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
Low tire pressure warning lamp	The low tire pressure warning lamp turns ON and stays illuminated.	 Comes ON and stays ON <small>SEIA0598E</small>	Low tire pressure	Check the tire pressure for all wheels and adjust to the specified value. Refer to <a href="#">WT-71, "Tire Air Pressure"</a> .
	The low tire pressure warning lamp repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated.	 Blinks 1 min ON 0.5 sec > OFF 0.5 sec and stays ON <small>SEIA0788E</small>	The combination meter fuse is open or removed (or pulled out).	Check and install the combination meter fuse. If necessary, replace the fuse.
			The low tire pressure warning control unit harness connector is removed.	Check the connection conditions of the low tire pressure warning control unit harness connector, and repair if necessary.
Turn signal lamp	The turn signal lamps do not blink twice when the tire pressure sensor is activated. Or the buzzer does not sound.	—	Tire Pressure Monitoring System (TPMS) malfunction.	<ul style="list-style-type: none"> <li>• Perform CONSULT self-diagnosis. Refer to <a href="#">WT-10, "CONSULT Function"</a>.</li> <li>• If necessary, perform tire pressure sensor ID registration. Refer to <a href="#">WT-6, "Description"</a>.</li> </ul>
			<ol style="list-style-type: none"> <li>1. The tire pressure sensor activation tool (J-50190 or J-45295-A) does not activate.</li> <li>2. The ignition switch is OFF when the tire pressure sensor wake-up operation is performed.</li> <li>3. The tire pressure sensor activation tool (J-50190 or J-45295-A) is not used in the correct position.</li> <li>4. The tire pressure sensor is already waked up.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace the battery in the tire pressure sensor activation tool (J-50190 or J-45295-A).</li> <li>2. Turn the ignition switch ON when performing the tire pressure sensor wake-up operation.</li> <li>3. Operate the tire pressure sensor activation tool (J-50190 or J-45295-A) in the correct position when performing the wake-up operation.</li> <li>4. No procedure.</li> </ol>

**NOTE:**

If tire pressure sensor wake-up operation is not completed for two or more tire pressure sensors, the applicable low tire pressure warning lamp blinking patterns are displayed continuously.

(Example: Blinks once/OFF/blinks 3 times = Wake-up operation is not completed at the front left wheel and rear right wheel tire pressure sensors.)

# LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

---

## LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

### Description

INFOID:000000010581175

The low tire pressure warning lamp does not illuminate when the ignition switch is turned ON.

**NOTE:**

The low tire pressure warning lamp illuminates for approximately 1 second and then turns OFF when the ignition switch is turned ON. This is to check that no abnormal condition is present in the tire pressure monitoring system.

The lamp bulb may be burnt out or the tire pressure monitoring system may be malfunctioning if the low tire pressure warning lamp does not illuminate when the ignition switch is turned ON.

### Diagnosis Procedure

INFOID:000000010581176

#### 1. CHECK LOW TIRE PRESSURE WARNING LAMP

---

Perform trouble diagnosis of the low tire pressure warning lamp. Refer to [WT-39, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> Check pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace error-detected parts.
- NO >> Repair or replace error-detected parts.

# LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

## LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

### Description

INFOID:000000010581177

The low tire pressure warning lamp does not turn OFF after several seconds is passed after engine starts.

### Diagnosis Procedure

INFOID:000000010581178

#### 1. CHECK TIRE PRESSURE

1. Turn the ignition switch ON.

**CAUTION:**

**Never start the engine.**

2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-71, "Tire Air Pressure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Inspect or repair the tires or wheels.

#### 2. CHECK LOW TIRE PRESSURE WARNING LAMP

Check low tire pressure warning lamp display.

Does not low tire pressure warning lamp turn OFF?

YES >> GO TO 3.

NO >> INSPECTION END

#### 3. CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT

 With CONSULT

Perform "AIR PRESSURE MONITOR" self-diagnosis.

Is any DTC detected?

YES >> Check the DTC. Refer to [WT-50, "DTC Index"](#).

NO >> GO TO 4.

#### 4. CHECK POWER SUPPLY AND GROUND

Check the power supply and ground circuit. Refer to [WT-37, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Replace low tire pressure warning control unit. Refer to [WT-67, "Exploded View"](#).

NO >> Repair or replace damaged parts.

# LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

## LOW TIRE PRESSURE WARNING LAMP BLINKS

### Description

INFOID:000000010581179

The low tire pressure warning lamp blinks when the ignition switch is turned ON.

**NOTE:**

When the low tire pressure warning lamp blinks as shown in the figure after the ignition switch is turned ON, the tire pressure sensor is not waking up.

Low tire pressure warning lamp blinking timing		Activation tire position
	a : 0.3 sec. b : 1.0 sec.	Front LH
	a : 0.3 sec. b : 1.0 sec.	Front RH
	a : 0.3 sec. b : 1.0 sec.	Rear RH
	a : 0.3 sec. b : 1.0 sec.	Rear LH
	a : 2 sec. b : 0.2 sec.	All tires

JPEIC0089GB

### Diagnosis Procedure

INFOID:000000010581180

#### 1. TIRE PRESSURE SENSOR WAKE-UP OPERATION

Perform the tire pressure sensor wake-up. Refer to [WT-5, "Description"](#).

Is the tire pressure sensor wake-up completed?

YES >> GO TO 2.

NO >> Perform trouble diagnosis for the tire pressure sensor. Refer to [WT-14, "Diagnosis Procedure"](#).

#### 2. TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to [WT-6, "Description"](#).

Is tire pressure sensor ID registration completed?

YES >> INSPECTION END

NO >> Perform the self-diagnosis for "AIR PRESSURE MONITOR". Refer to [WT-50, "DTC Index"](#).



# TURN SIGNAL LAMP BLINKS

< SYMPTOM DIAGNOSIS >

## TURN SIGNAL LAMP BLINKS

### Description

INFOID:000000010581181

### DESCRIPTION

The turn signal lamp blinks when the ignition switch is turned ON.

### Diagnosis Procedure

INFOID:000000010581182

#### 1. CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT

1. Check low tire pressure warning control unit input/output signal. Refer to [WT-41, "Reference Value"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

#### 2. CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT CIRCUIT

 With CONSULT

Perform "AIR PRESSURE MONITOR" self-diagnosis. Refer to [WT-30, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace error-detected parts.

#### 3. CHECK TIRE PRESSURE WARNING CONTROL UNIT AND BCM CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect low tire pressure warning control unit harness connector and BCM harness connector.
3. Check the continuity between low tire pressure warning control unit harness connector and BCM harness connector.

Low tire pressure warning control unit		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M96	30	M122	110	Existed

Is the inspection result normal?

YES >> Check the BCM. Refer to [BCS-4, "CONFIGURATION \(BCM\) : Work Procedure"](#).

NO >> Repair or replace error-detected parts.

# ID REGISTRATION CANNOT BE COMPLETED

< SYMPTOM DIAGNOSIS >

---

## ID REGISTRATION CANNOT BE COMPLETED

### Description

INFOID:000000010581183

#### DESCRIPTION

The ID of the tire pressure sensor installed in each wheel cannot be registered in the tire pressure monitoring system.

Inspect the tire pressure sensor or the tire pressure monitoring system circuit.

### Diagnosis Procedure

INFOID:000000010581184

#### 1. TIRE PRESSURE SENSOR WAKE-UP

---

Perform the tire pressure sensor wake-up. Refer to [WT-5, "Description"](#).

Is the tire pressure sensor wake-up completed?

YES >> GO TO 3.

NO >> GO TO 2.

#### 2. CHECK TIRE PRESSURE SENSOR ACTIVATION TOOL

---

Check tire pressure sensor activation tool.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace the battery of tire pressure sensor activation tool or repair/replace the tire pressure sensor activation tool.

#### 3. TIRE PRESSURE SENSOR ID REGISTRATION

---

Perform tire pressure sensor ID registration. Refer to [WT-6, "Description"](#).

**CAUTION:**

To perform ID registration, observe the following points:

- Never register ID in a place where radio waves are interfered (e.g. radio tower).
- Never register ID in a place close to vehicles including TPMS.

Is tire pressure sensor ID registration completed?

YES >> INSPECTION END

NO >> GO TO 4.

#### 4. CHECK TIRE PRESSURE SIGNAL

---

Change the work location and perform ID registration again.

**NOTE:**

Depending on the tire pressure sensor position\*, a blind spot exists, and the tire pressure receiver gets a poor reception. If an ID registration is performed under this condition, the registration may not be completed.

In such case, follow the instructions below to improve the radio wave receiving environment.

- Rotate tire by 90°, 180°, or 270°. (This Step is to change tire pressure sensor position.)
- Open the door close to the tire of which ID registration is ongoing.

\*: Radio wave reception condition depends on vehicle architecture (e.g. body harness layout, tire wheel design) or environment.

When ID registration is performed, which wheels do not react?

All wheels react and ID registration is possible.>>INSPECTION END

Only certain wheel(s) do not react.>>Replace applicable tire pressure sensor. Refer to [WT-68, "Removal and Installation"](#).

All wheels do not react.>>Check the tire pressure receiver. Refer to [WT-28, "Diagnosis Procedure"](#).

# NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

## NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

### NVH Troubleshooting Chart

INFOID:000000010581185

Use the chart below to find the cause of the symptom. If necessary, repair or replace these parts.

Symptom		Possible cause and SUSPECTED PARTS		Reference page				
				2WD models: <a href="#">FSU-10</a> , <a href="#">FSU-13</a>	AWD models: <a href="#">FSU-30</a> , <a href="#">FSU-33</a>			
TIRES	Noise	x	x	x	x	<a href="#">WT-65, "Inspection"</a>	Refer to TIRES in this chart.	
	Shake	x	x	x	x	<a href="#">WT-63, "Adjustment"</a>	Refer to ROAD WHEEL in this chart.	
	Vibration			x		<a href="#">WT-71, "Tire Air Pressure"</a>	NVH in FAX and FSU sections.	
	Shimmy	x	x	x	x	<a href="#">WT-63, "Adjustment"</a>	NVH in RAX and RSU sections.	
	Judder	x	x	x	x	<a href="#">WT-63, "Adjustment"</a>	Refer to TIRES in this chart.	
	Poor quality ride or handling	x	x	x	x	<a href="#">WT-71, "Tire Air Pressure"</a>	Refer to ROAD WHEEL in this chart.	
	ROAD WHEEL	Noise	x	x	x	x	<a href="#">WT-71, "Tire Air Pressure"</a>	NVH in DLN section.
		Shake	x	x	x	x	<a href="#">WT-71, "Tire Air Pressure"</a>	NVH in DLN section.
		Shimmy, Judder	x	x	x	x	<a href="#">WT-71, "Tire Air Pressure"</a>	NVH in FAX and FSU sections.
		Poor quality ride or handling	x	x	x	x	<a href="#">WT-71, "Tire Air Pressure"</a>	NVH in RAX and RSU sections.
							Refer to TIRES in this chart.	
							Refer to ROAD WHEEL in this chart.	
							NVH in FAX, RAX section.	
							NVH in BR section.	
							NVH in ST section.	

x: Applicable

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WT

# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

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

INFOID:000000010581186

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.

#### Service Notice and Precautions

INFOID:000000010581187

- Low tire pressure warning lamp blinks for 1min, then turns ON when occurring any malfunction except low tire pressure. Erase the memory with CONSULT, or register the ID to turn low tire pressure warning lamp OFF. Refer to [WT-10, "CONSULT Function"](#), [WT-6, "Description"](#).
- ID registration is required when replacing or rotating wheels, replacing tire pressure sensor or low tire pressure warning control unit. Refer to [WT-67, "Exploded View"](#).
- Replace grommet seal, valve core and cap of tire pressure sensor in TPMS, when replacing each tire by reaching the wear limit. Refer to [WT-68, "Exploded View"](#).

#### Precautions for Removing Battery Terminal

INFOID:000000010780685

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

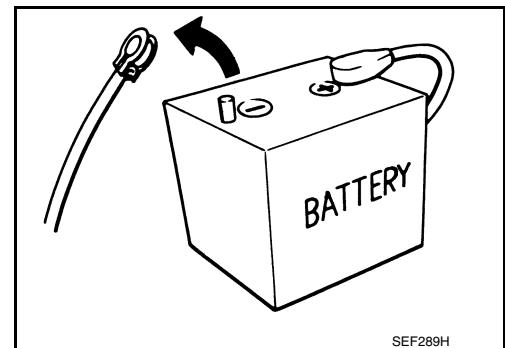
#### **NOTE:**

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

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

#### **NOTE:**

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.



# PRECAUTIONS

## < PRECAUTION >

---

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

**NOTE:**

The removal of 12V battery may cause a DTC detection error.

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# PREPARATION

< PREPARATION >



## PREPARATION

### PREPARATION

#### Special Service Tool

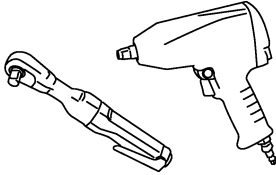
INFOID:000000010581188

The actual shapes of TechMate tools may differ from those of special service tools illustrated here.

Tool number (TechMate No.) Tool name	Description
<p>— (J-50190) Signal tech II</p>  <p>ALEIA0131ZZ</p>	<ul style="list-style-type: none"> <li>• Activate and display TPMS tire pressure sensor IDs</li> <li>• Display tire pressure reported by the TPMS tire pressure sensor</li> <li>• Read TPMS DTCs</li> <li>• Register TPMS tire pressure sensor IDs</li> <li>• Test remote keyless entry keyfob relative signal strength</li> <li>• Compatible with future sensors</li> <li>• Equipped with a display</li> </ul>
<p>KV48105501 (J-45295-A) Tire pressure sensor activation tool</p>  <p>ALEIA0183ZZ</p>	<ul style="list-style-type: none"> <li>• Activate TPMS tire pressure sensor IDs</li> <li>• Compatible with future sensors</li> <li>• Equipped with a display (KV48105501 only)</li> </ul>

#### Commercial Service Tool

INFOID:000000010581189

Tool name	Description
<p>Power tool</p>  <p>PBIC0190E</p>	<p>Loosening wheel nuts</p>

# ROAD WHEEL

< PERIODIC MAINTENANCE >

## PERIODIC MAINTENANCE

### ROAD WHEEL

#### Adjustment

INFOID:0000000010581190

#### BALANCING WHEELS (BONDING WEIGHT TYPE)

##### Preparation Before Adjustment

Using releasing agent, remove double-faced adhesive tape from the road wheel.

##### **CAUTION:**

- **Be careful not to scratch the road wheel during removal.**
- **After removing double-faced adhesive tape, wipe clean traces of releasing agent from the road wheel.**

##### Wheel Balance Adjustment

- The details of the adjustment procedure are different for each model of wheel balancer. Therefore, refer to each instruction manual.
- If a tire balance machine has adhesion balance weight mode settings and drive-in weight mode setting, select and adjust a drive-in weight mode suitable for road wheels.

1. Set road wheel on tire balance machine using the center hole as a guide. Start the tire balance machine.
2. When inner and outer unbalance values are shown on the tire balance machine indicator, multiply outer unbalance value by  $5/3$  to determine balance weight that should be used. Select the outer balance weight with a value closest to the calculated value above and install to the designated outer position of, or at the designated angle in relation to the road wheel.

##### **CAUTION:**

- **Never install the inner balance weight before installing the outer balance weight.**
- **Before installing the balance weight, always to clean the mating surface of the road wheel.**

- a. Indicated unbalance value  $\times 5/3 =$  balance weight to be installed

##### **Calculation example:**

$23 \text{ g (0.81 oz)} \times 5/3 = 38.33 \text{ g (1.35 oz)} \Rightarrow 37.5 \text{ g (1.32 oz)}$  balance weight (closer to calculated balance weight value)

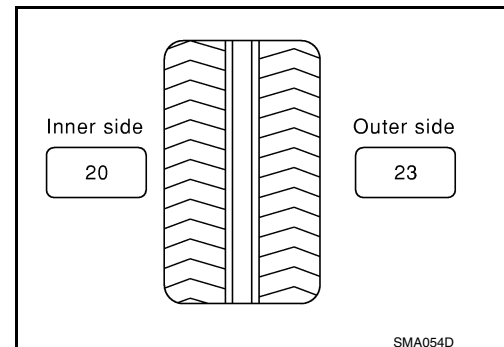
##### **NOTE:**

Note that balance weight value must be closer to the calculated balance weight value.

##### **Example:**

$36.2 \Rightarrow 35 \text{ g (1.23 oz)}$

$36.3 \Rightarrow 37.5 \text{ g (1.32 oz)}$



- b. Installed balance weight in the position.

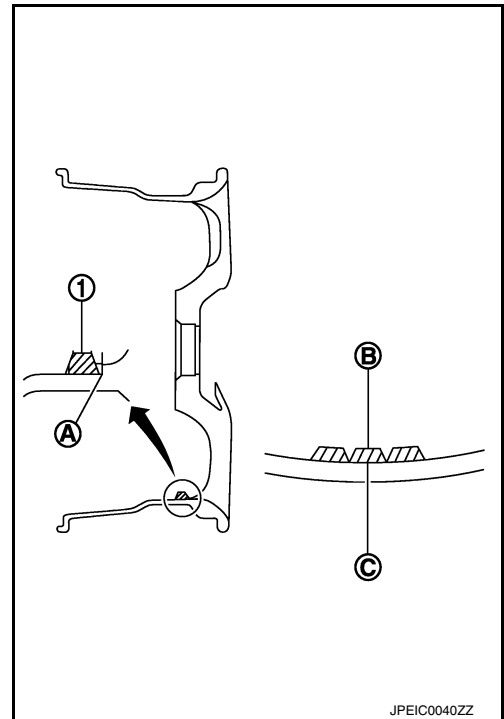
# ROAD WHEEL

## < PERIODIC MAINTENANCE >

- When installing balance weight (1) to road wheels, set it into the grooved area (A) on the inner wall of the road wheel as shown in the figure so that the balance weight center (B) is aligned with the tire balance machine indication position (angle) (C).

**CAUTION:**

- Always use genuine NISSAN adhesion balance weights.
- Balance weights are non-reusable; always replace with new ones.
- Never install three or more sheets of balance weight.



- c. If calculated balance weight value exceeds 50 g (1.76 oz), install two balance weight sheets in line with each other as shown in the figure.

**CAUTION:**

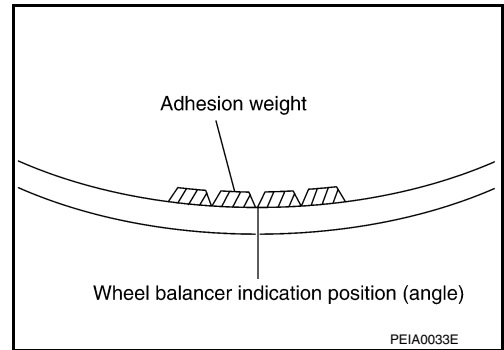
**Never install one balance weight sheet on top of another.**

- Start the tire balance machine again.
- Install drive-in balance weight on inner side of road wheel in the tire balance machine indication position (angle).

**CAUTION:**

**Never install three or more balance weight.**

- Start the tire balance machine. Check that inner and outer residual unbalance values is within the allowable unbalance value.



**CAUTION:**

If either residual unbalance value exceeds limit, repeat installation procedures.

**Allowable unbalance value**

**Dynamic (At flange):** Refer to [WT-71, "Road Wheel"](#).

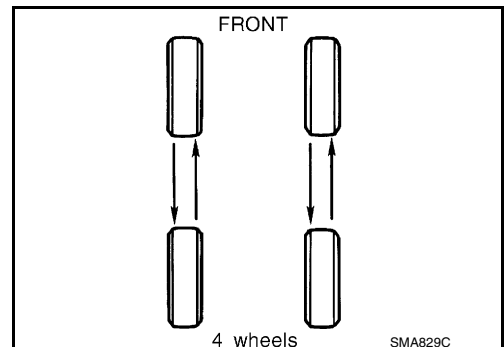
**Static (At flange):** Refer to [WT-71, "Road Wheel"](#).

## TIRE ROTATION

- Follow the maintenance schedule for tire rotation service intervals. Refer to [MA-6, "FOR NORTH AMERICA : Explanation of General Maintenance"](#) (For North America), [MA-8, "FOR MEXICO : General Maintenance"](#) (For Mexico).
- When installing the wheel, tighten wheel nuts to the specified torque. Refer to [WT-65, "Exploded View"](#).

**CAUTION:**

- Never include the T-type spare tire when rotating the tires.
  - When installing wheels, tighten them diagonally by dividing the work two to three times in order to prevent the wheels from developing any distortion.
  - Be careful not to tighten wheel nut at torque exceeding the criteria for preventing strain of disc rotor.
  - Use NISSAN genuine wheel nuts for aluminum wheels.
- Perform the ID registration, after tire rotation. Refer to [WT-6, "Work Procedure"](#).





# ROAD WHEEL TIRE ASSEMBLY

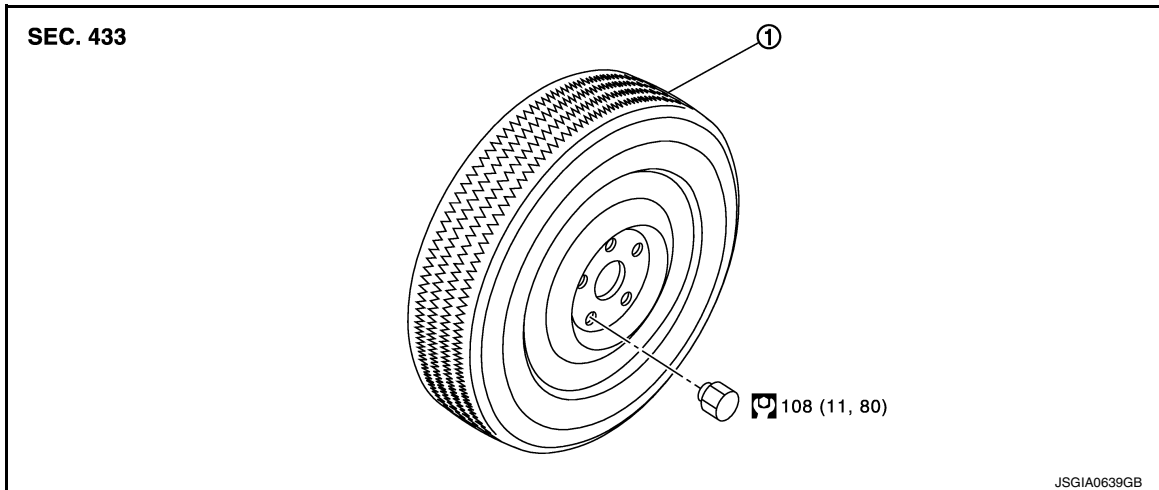
< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

### ROAD WHEEL TIRE ASSEMBLY

Exploded View

INFOID:000000010581191



1. Tire assembly

Refer to [GI-4, "Components"](#) for symbols in the figure.

### Removal and Installation

INFOID:000000010581192

#### REMOVAL

1. Remove wheel nuts.
2. Remove tire assembly.

#### INSTALLATION

Install in the reverse order of removal.

### Inspection

INFOID:000000010581193

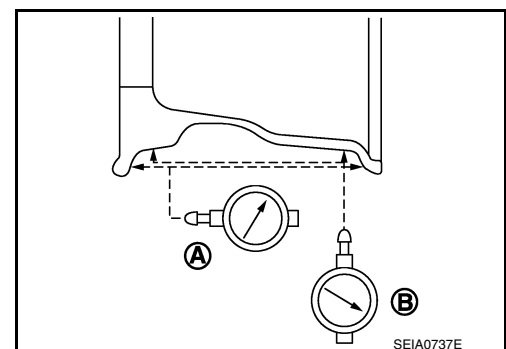
#### ALUMINUM WHEEL

1. Check tires for wear and improper inflation.
2. Check wheels for deformation, cracks and other damage. If deformed, remove wheel and check wheel runout.
  - a. Remove tire from aluminum wheel and mount on a tire balance machine.
  - b. Set dial indicator as shown in the figure.
  - c. Check runout, If the axial runout (A) or radial runout (B) exceeds the limit, replace aluminum wheel.

#### Limit

**Axial runout (A)** : Refer to [WT-71, "Road Wheel"](#).

**Radial runout (B)** : Refer to [WT-71, "Road Wheel"](#).



#### STEEL WHEEL

1. Check tires for wear and improper inflation.

## ROAD WHEEL TIRE ASSEMBLY

### < REMOVAL AND INSTALLATION >

2. Check wheels for deformation, clacks and other damage. If deformed, remove wheel and check wheel runout.
  - a. Remove tire from steel wheel and mount wheel on a tire balance machine.
  - b. Set two dial indicators as shown in the illustration.
  - c. Set each dial indicator to "0".
  - d. Rotate wheel and check dial indicators at several points around the circumference of the wheel.
  - e. Calculate runout at each point as shown below.

**Axial runout (A)** :  $(\textcircled{1} + \textcircled{2}) / 2$

**Radial runout (B)** :  $(\textcircled{3} + \textcircled{4}) / 2$

- f. Select maximum positive runout value and the maximum negative value. Add the two values to determine total runout.

**CAUTION:**

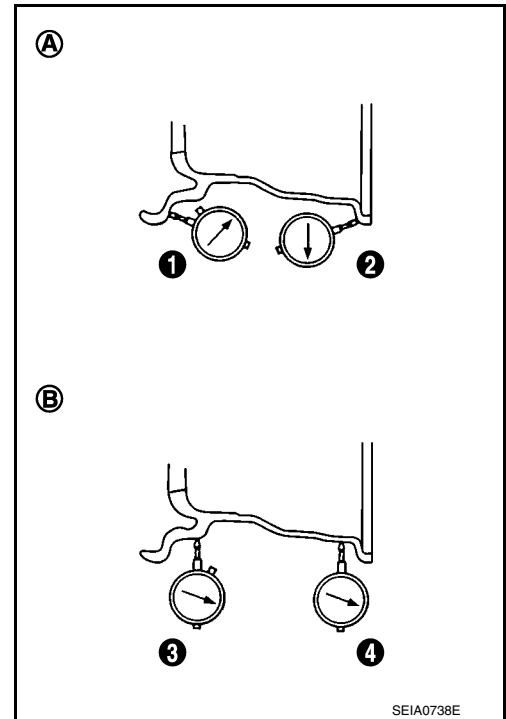
In case a positive or negative value is not available, use the maximum value (negative or positive) for total runout.

**Limit**

**A** : Refer to [WT-71, "Road Wheel"](#).

**B** : Refer to [WT-71, "Road Wheel"](#).

- g. If the total runout value exceeds limit, replace steel wheel.



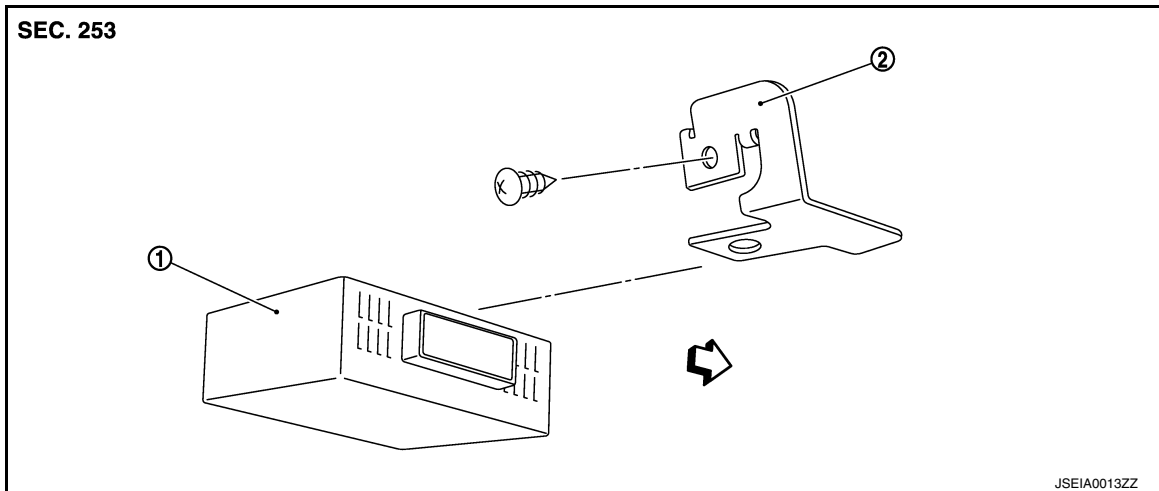
# TPMS CONTROL UNIT

< REMOVAL AND INSTALLATION >

## TPMS CONTROL UNIT

### Exploded View

INFOID:000000010581194



1. Low tire pressure warning control unit 2. Bracket

↔: Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

### Removal and Installation

INFOID:000000010581195

#### REMOVAL

1. Remove the glove box assembly. Refer to [IP-12, "Exploded View"](#).
2. Remove the instrument lower panel RH. Refer to [IP-12, "Exploded View"](#).
3. Disconnect low tire pressure warning control unit connector.
4. Remove the low tire pressure warning control unit control unit.

#### INSTALLATION

Install in the reverse order of removal.

- Perform ID registration after replacing low tire pressure warning control unit. Refer to [WT-6, "Work Procedure"](#).

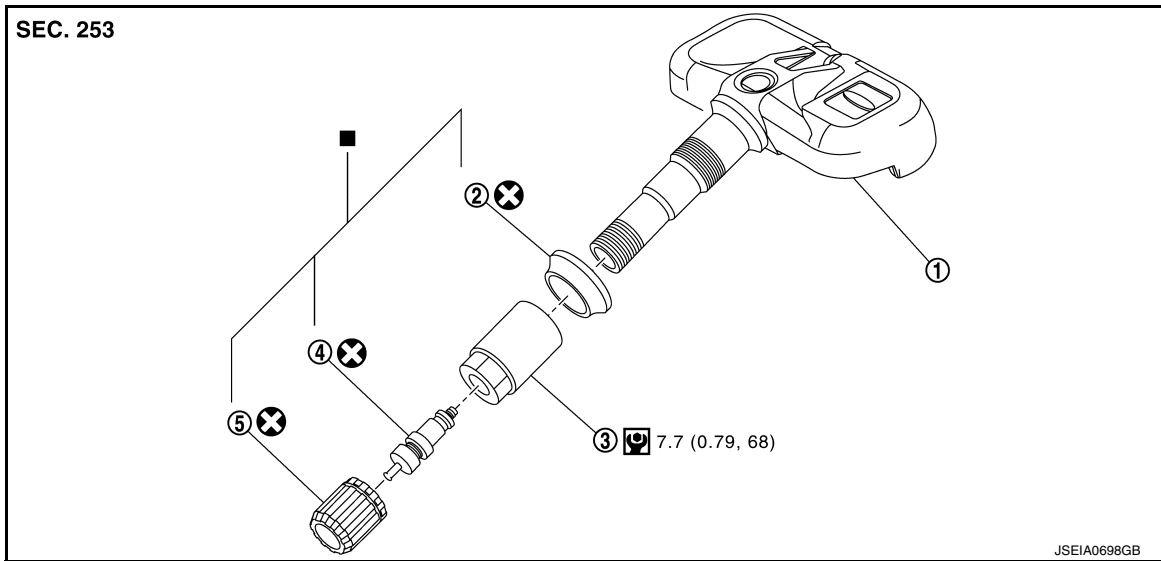
# TIRE PRESSURE SENSOR

< REMOVAL AND INSTALLATION >

## TIRE PRESSURE SENSOR

### Exploded View

INFOID:000000010581196



- |                         |                 |              |
|-------------------------|-----------------|--------------|
| 1. Tire pressure sensor | 2. Grommet seal | 3. Valve nut |
| 4. Valve core           | 5. Valve cap    |              |

■ : Parts that are replaced as a set when the tire is replaced.

Refer to [GI-4, "Components"](#) for symbols not described above.

### Removal and Installation

INFOID:000000010581197

#### REMOVAL

1. Remove tire assembly. Refer to [WT-65, "Removal and Installation"](#).
2. Remove valve cap, valve core and then deflate tire.

#### NOTE:

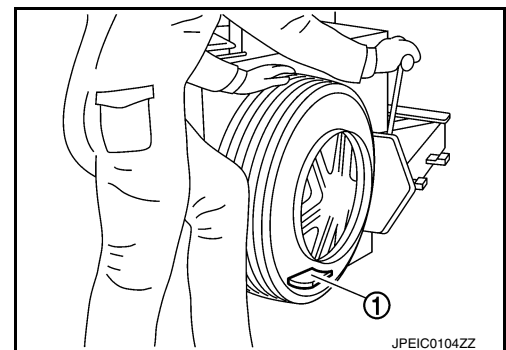
If the tire is reused, apply a matching mark to the position of the tire road wheel valve hole for the purpose of wheel balance adjustment after installation.

3. Remove valve nut retaining tire pressure sensor and allow tire pressure sensor to fall into tire.
4. Use the tire changer and disengage the tire beads.

#### CAUTION:

- Verify that the tire pressure sensor (1) is at the bottom of the tire while performing the above.
- Be sure not to damage the road wheel or tire pressure sensor.

5. Apply bead cream or an equivalent to the tire beads.
6. Set tire onto the tire changer turntable so that the tire pressure sensor inside the tire is located close to the road wheel valve hole.



# TIRE PRESSURE SENSOR

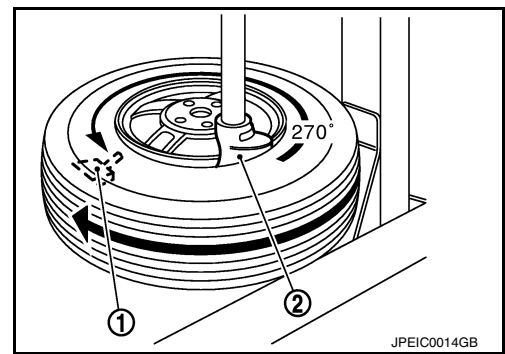
## < REMOVAL AND INSTALLATION >

- Turn tire so that valve hole is at bottom and bounce so that tire pressure sensor (1) is near valve hole. Carefully lift tire onto turntable and position valve hole (and tire pressure sensor) 270 degree from mounting/dismounting head (2).

**CAUTION:**

**Be sure not to damage the road wheel and tire pressure sensor.**

- Remove tire pressure sensor from tire.
- Remove the grommet seal.

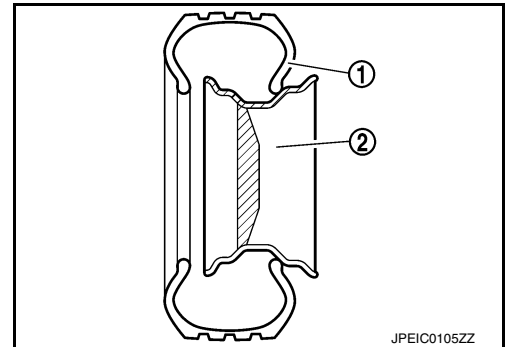


## INSTALLATION

- Apply bead cream or an equivalent to the tire beads.
- Install the tire inside beads (1) onto the road wheel (2) in the position shown in the figure.
- Install grommet seal to the tire pressure sensor.

**CAUTION:**

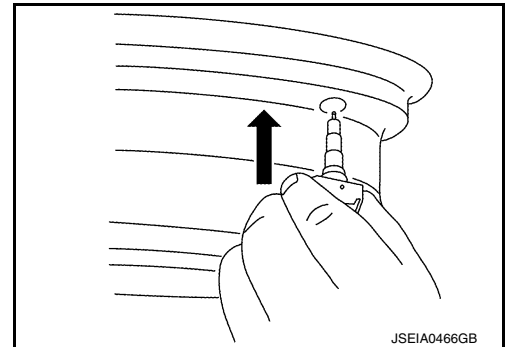
- Never reuse grommet seal.
- Insert grommet seal all the way to the base.



- Hold tire pressure sensor as shown in the figure, and press the sensor in the direction shown by arrow (←) to bring it into absolute contact with valve hole. After this, tighten valve nut to the specified torque.

**CAUTION:**

- Never reuse valve core and valve cap.
- Check that grommet seal is free of foreign matter.
- Check that grommet seal contacts horizontally with road wheel.
- Manually tighten valve nut all the way to the wheel. (Never use a power tool to avoid impact.)



- Set the tire onto the turntable so that the tire changer arm (2) is at a position approximately 270° from the tire pressure sensor (1).

**CAUTION:**

**Be sure that the arm does not contact the tire pressure sensor.**

- Install the tire outer side beads onto the road wheel.

**CAUTION:**

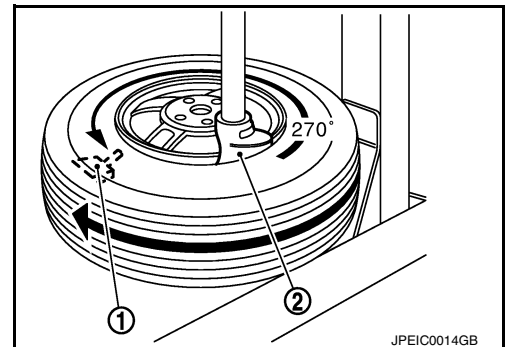
**When installing, check that the tire does not turn together with the road wheel.**

- Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-71, "Tire Air Pressure"](#).

**NOTE:**

Before adding air, align the tire with the position of the matching mark applied at the time of removal.

- Install tire to the vehicle. Refer to [WT-65, "Removal and Installation"](#).
- Perform tire pressure sensor ID registration. Refer to [WT-6, "Work Procedure"](#).



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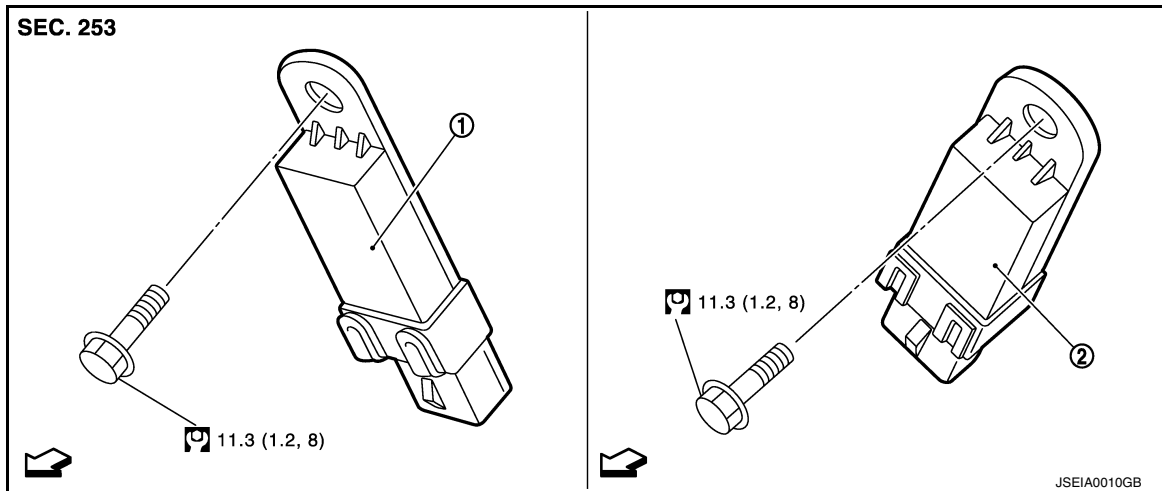
# TIRE PRESSURE RECEIVER

< REMOVAL AND INSTALLATION >

## TIRE PRESSURE RECEIVER

### Exploded View

INFOID:000000010581198



1. Front tire pressure receiver
2. Rear tire pressure receiver

Refer to [GI-4. "Components"](#) for symbols in the figure.

← Vehicle front

## FRONT TIRE PRESSURE RECEIVER

### FRONT TIRE PRESSURE RECEIVER : Removal and Installation

INFOID:000000010581199

#### REMOVAL

1. Remove fender protector (rear). Refer to [EXT-25. "FENDER PROTECTOR : Exploded View"](#).
2. Remove mounting bolt for the front tire pressure receiver.
3. Disconnect front tire pressure receiver harness connector.
4. Remove front tire pressure receiver.

#### INSTALLATION

Installation is the reverse order of removal.

## REAR TIRE PRESSURE RECEIVER

### REAR TIRE PRESSURE RECEIVER : Removal and Installation

INFOID:000000010581200

#### REMOVAL

1. Remove rear wheel house protector. Refer to [EXT-27. "REAR WHEEL HOUSE PROTECTOR : Exploded View"](#).
2. Remove mounting bolt for the rear tire pressure receiver.
3. Disconnect rear tire pressure receiver harness connector.
4. Remove rear tire pressure receiver.

#### INSTALLATION

Installation is the reverse order of removal.

# SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### Road Wheel

INFOID:0000000010581201

#### CONVENTIONAL

Item		Limit
Runout	Axial runout	Less than 0.3 mm (0.012 in)
	Radial runout	
Allowable unbalance	Dynamic (At flange)	Less than 5 g (0.17 oz) (one side)
	Static (At flange)	Less than 10 g (0.35 oz)

#### EMERGENCY (ALUMINUM WHEEL)

Item		Limit
Runout	Axial runout	Less than 0.3 mm (0.012 in)
	Radial runout	

#### EMERGENCY (STEEL WHEEL)

Item		Limit
Runout	Axial runout (Average)	Less than 1.5 mm (0.059 in)
	Radial runout (Average)	

#### Tire Air Pressure

INFOID:0000000010581202

Unit: kPa (kg/cm<sup>2</sup>, psi)

Item	Standard	
	Front	Rear
P265/60R18 109V	230 (2.3, 33)	
P265/50R20 106V	230 (2.3, 33)	
P265/45R21 104V	230 (2.3, 33)	
T175/90D18 110M	420 (4.2, 60)	