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# WT

## SECTION

### ROAD WHEELS & TIRES

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# DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORK FLOW

Work Flow (GT-R certified NISSAN dealer)

INFOID:000000003853713

Details of Trouble Diagnosis Flowchart

#### 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. CRUISE TEST

Start the engine and drive the vehicle.

Dose the symptom that customer concerns occur?

YES >> GO TO 3.

NO >> GO TO 4.

#### 3. BASIC INSPECTION

Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-75, "Tire"](#).

Is the malfunction corrected?

YES >> INSPECTION END

NO >> GO TO 4.

#### 4. PERFORM THE SELF-DIAGNOSIS

 **With CONSULT-III**

Perform self-diagnosis of the low tire pressure warning control unit.

Any is DTC detected in the diagnosis results?

YES >> GO TO 6.

NO >> GO TO 5.

#### 5. CHECK SYMPTOM

Perform trouble diagnosis for the applicable symptom. Refer to [WT-56, "Symptom Table \(GT-R certified NISSAN dealer\)"](#).

Is the cause of the malfunction detected?

YES >> GO TO 7.

NO >> GO TO 9.

#### 6. CIRCUIT DIAGNOSIS

Inspect the malfunctioning system indicated by the DTC code that is detected during self-diagnosis. Refer to [WT-54, "DTC Index"](#).

>> GO TO 7.

#### 7. REPAIR WORK

Repair or replace the malfunctioning part.

>> GO TO 8.

#### 8. PERFORM THE SELF-DIAGNOSIS

1. Erase the self-diagnosis results memory of the low tire pressure warning control unit.

## DIAGNOSIS AND REPAIR WORK FLOW

### < BASIC INSPECTION >

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2. Perform self-diagnosis of the low tire pressure warning control unit.

Is any DTC detected in the diagnosis results?

YES >> GO TO 6.

NO >> GO TO 9.

### 9.FINAL CHECK

---

1. Perform a cruise test.

2. Check that the low tire pressure warning lamp turns OFF.

Dose the tire pressure warning lamp turn OFF?

YES >> INSPECTION END

NO >> GO TO 3.

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# INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

## INSPECTION AND ADJUSTMENT TRANSMITTER WAKE UP OPERATION

### TRANSMITTER WAKE UP OPERATION : Description

INFOID:000000003853714

If the transmitter or low tire pressure warning control unit is replaced, always perform the transmitter wake-up procedure.

### TRANSMITTER WAKE UP OPERATION : Transmitter Wake-up Procedure

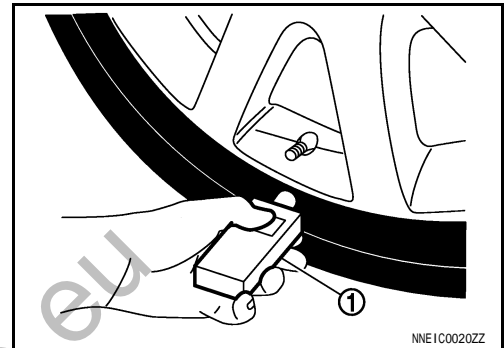
INFOID:000000003853715

#### 1. TRANSMITTER WAKE-UP PROCEDURE

1. Turn the ignition switch ON.
2. Contact the transmitter activation tool (J-45295) (1) to the side of the tire at the location to the transmitter.
3. Press and hold the 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 low tire pressure warning lamp blinks in the pattern shown as per the following. The pattern indicates that the transmitter wake-up procedure for the wheel is completed.

Low tire pressure warning lamp blinking timing		Activation tire position
ON OFF	a : 0.3 sec. b : 1.3 sec.	Front LH
ON OFF	a : 0.3 sec. b : 1.3 sec.	Front RH
ON OFF	a : 0.3 sec. b : 1.3 sec.	Rear RH
ON OFF	a : 0.3 sec. b : 1.3 sec.	Rear LH
ON OFF	a : 2 sec. b : 0.2 sec.	All tires

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

Is the transmitter wake-up procedure completed?

- YES >> Perform the transmitter ID registration procedure. Refer to [WT-7. "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"](#).
- NO >> Perform trouble diagnosis for the transmitter. Refer to [WT-27. "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

## ID REGISTRATION PROCEDURE

### ID REGISTRATION PROCEDURE : Description

INFOID:000000003853716

If the transmitter or low tire pressure warning control unit is replaced, always perform the transmitter ID registration.

# INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

## ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure INFOID:000000003853717

### 1. TRANSMITTER ID REGISTRATION PROCEDURE

Ⓜ With CONSULT-III.

1. Display the "WORK SUPPORT" screen and select "ID REGIST".

Is the transmitter activation tool (J-45295) used for the transmitter ID registration procedure?

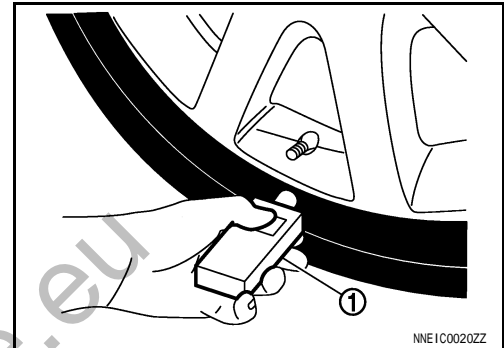
- YES >> GO TO 2.  
NO >> GO TO 3.

### 2. TRANSMITTER ID REGISTRATION PROCEDURE (WITH THE TRANSMITTER ACTIVATION TOOL)

1. Turn the ignition switch ON.
2. Select the start button on the "ID REGIST" screen.
3. Press the transmitter activation tool (J-45295) (1) against the side of the tire at the location closest to the transmitter.
4. Wait until the indicator lamp turns off (approximately 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.**



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

Se-quence	ID registration position	Turn signal lamp	CONSULT-III
1	Front left wheel	2 blinks	"Red" ↓ "Green"
2	Front right wheel		
3	Rear right wheel		
4	Rear left wheel		

6. 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 >> Performs trouble-diagnosis of the Tire Pressure Monitoring System (TPMS). Refer to [WT-12, "Diagnosis Description \(GT-R certified NISSAN dealer\)".](#)

### 3. TRANSMITTER ID REGISTRATION PROCEDURE (WITHOUT THE TRANSMITTER ACTIVATION TOOL)

1. Adjust the tire pressure for all wheels to match the list below.

Tire position	Tire pressure kPa (kg/cm <sup>2</sup> , psi)
Front LH	240 (2.4, 34)
Front RH	220 (2.2, 31)
Rear RH	200 (2.0, 29)
Rear LH	180 (1.8, 26)

2. Drive the vehicle at a speed at more than 40 km/h (25 MPH) for 3 minutes or more, then perform the transmitter ID registration procedure.
3. After ID registration for all wheels is completed, press "END" to end ID registration.

## INSPECTION AND ADJUSTMENT

### < BASIC INSPECTION >

ID registration position	CONSULT-III
Front LH	"Red" ↓ "Green"
Front RH	
Rear RH	
Rear LH	

4. Adjust the tire pressures for all wheels to the specified value. Refer to [WT-75, "Tire"](#).

Is ID registrations for all wheels completed?

YES >> ID registration END.

NO >> Performs trouble-diagnosis of the Tire Pressure Monitoring System (TPMS). Refer to [WT-12, "Diagnosis Description \(GT-R certified NISSAN dealer\)"](#).

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# TPMS

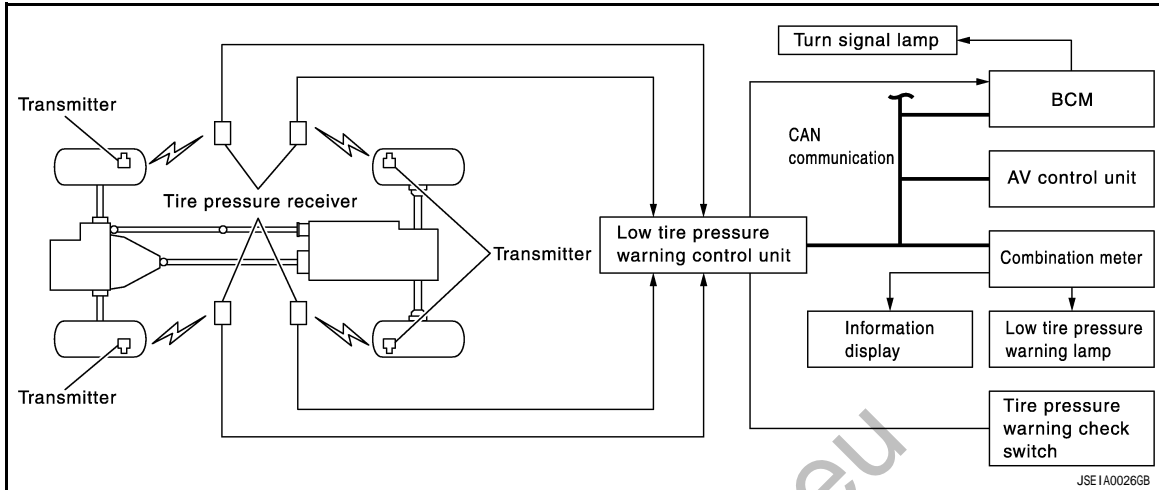
< FUNCTION DIAGNOSIS >

## FUNCTION DIAGNOSIS

### TPMS

#### System Diagram (GT-R certified NISSAN dealer)

INFOID:000000003853718



#### System Description (GT-R certified NISSAN dealer)

INFOID:000000003853719

- If the tire pressure is less than the specified value, the low tire pressure warning lamp illuminates and a message appears on the information display indicating that the tire pressure is less than the specified value.
- The tire pressure information for each wheel is displayed on the vehicle information display.
- The signal from each control unit is communicated via CAN communication.

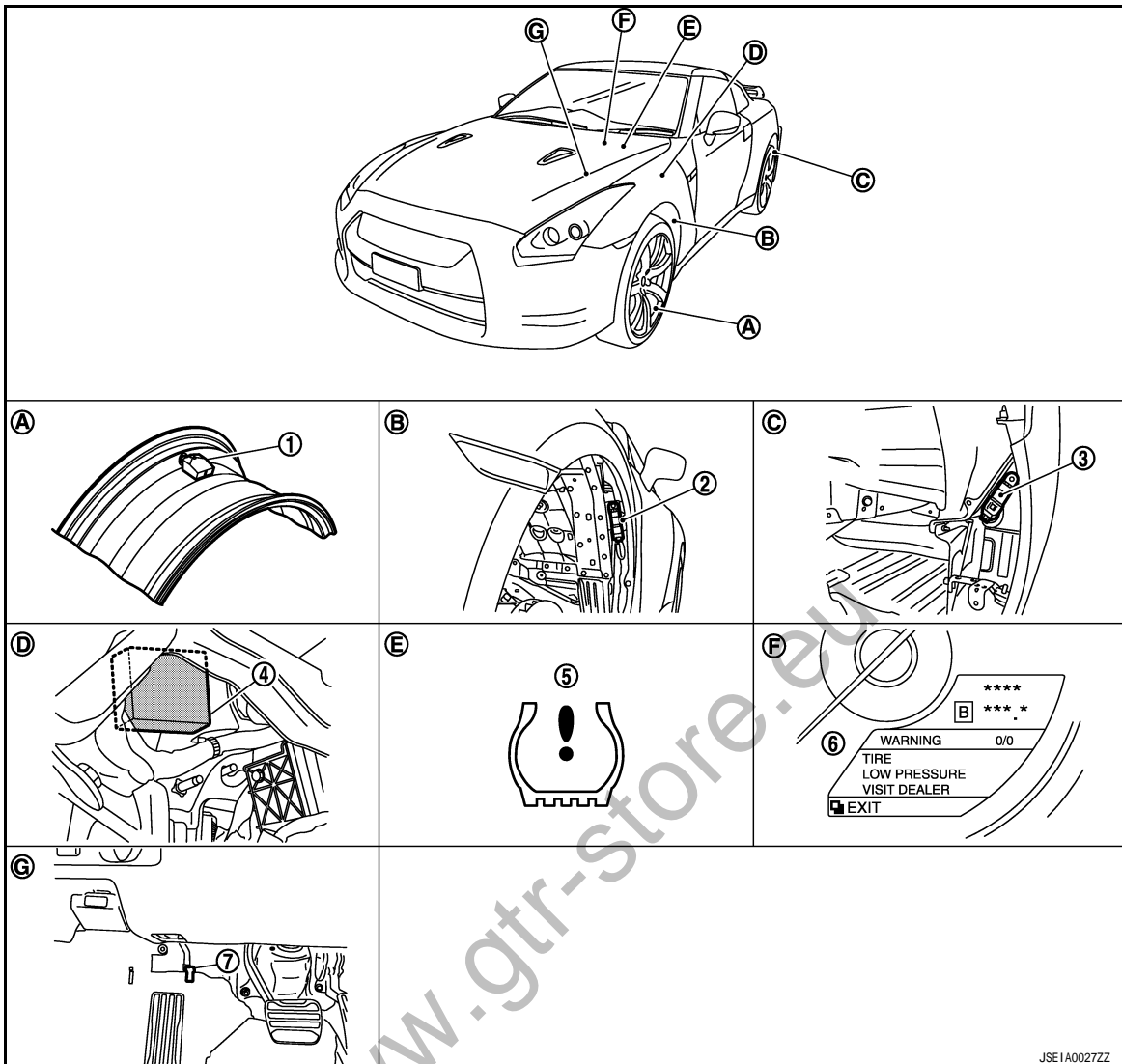
Control unit	Signal status
Low tire pressure warning control unit	<p>The following primary signals are transmitted to the BCM via CAN communication.</p> <ul style="list-style-type: none"> <li>• Low tire pressure warning lamp signal</li> <li>• Run-flat tire warning display signal</li> <li>• Buzzer request signal</li> </ul> <p>The following primary signals are transmitted to the combination meter via CAN communication.</p> <ul style="list-style-type: none"> <li>• Tire pressure monitoring system warning display signal</li> <li>• Low tire pressure warning display signal</li> </ul>
BCM	<p>The following primary signals are transmitted to the combination meter via CAN communication.</p> <ul style="list-style-type: none"> <li>• Low tire pressure warning lamp signal</li> <li>• Run-flat tire warning display signal</li> <li>• Buzzer request signal</li> </ul>
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.

#### Component Parts Location (GT-R certified NISSAN dealer)

INFOID:000000003853720

# TPMS

## < FUNCTION DIAGNOSIS >



- |   |                                   |                                     |
|---|-----------------------------------|-------------------------------------|
| 1. Transmitter                            | 2. Front tire pressure receiver   | 3. Rear tire pressure receiver      |
| 4. Low tire pressure warning control unit | 5. Low tire pressure warning lamp | 6. Information display              |
| 7. Tire pressure warning check switch     |                                   |                                     |
| A. Road wheel                             | B. Inside fender protector (rear) | C. Inside rear wheel well protector |
| D. Inside left instrument lower panel     | E. Inside combination meter       | F. Inside combination meter         |
| G. Inside left instrument lower panel     |                                   |                                     |

## Component Description (GT-R certified NISSAN dealer)

INFOID:000000003853721

Component	Function
Transmitter	<a href="#">WT-15. "Description (GT-R certified NISSAN dealer)"</a>
Tire pressure receiver	<a href="#">WT-33. "Description (GT-R certified NISSAN dealer)"</a>
Low tire pressure warning control unit	<a href="#">WT-35. "Description (GT-R certified NISSAN dealer)"</a>
Tire pressure warning check switch	<a href="#">WT-44. "Description (GT-R certified NISSAN dealer)"</a>
Combination meter	Receives the tire pressure information via CAN communication, and operates the low tire pressure warning lamp, information display, turn signal lamps, and buzzer.

# TPMS

## < FUNCTION DIAGNOSIS >

Component	Function
Low tire pressure warning lamp	<ul style="list-style-type: none"><li>• Illuminates if the tire pressure is low.</li><li>• Illuminates simultaneously the buzzer sounds when a flat tire occurs.</li><li>• Blinks and stays illuminated when an electrical malfunction is detected in the Tire Pressure Monitoring System (TPMS).</li></ul>
Vehicle information display	<a href="#">WT-65. "Description (GT-R certified NISSAN dealer)"</a>

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# DIAGNOSIS SYSTEM (LOW TIRE PRESSURE WARNING CONTROL UNIT)

< FUNCTION DIAGNOSIS >

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

Diagnosis Description (GT-R certified NISSAN dealer)

INFOID:000000003853722

### Description

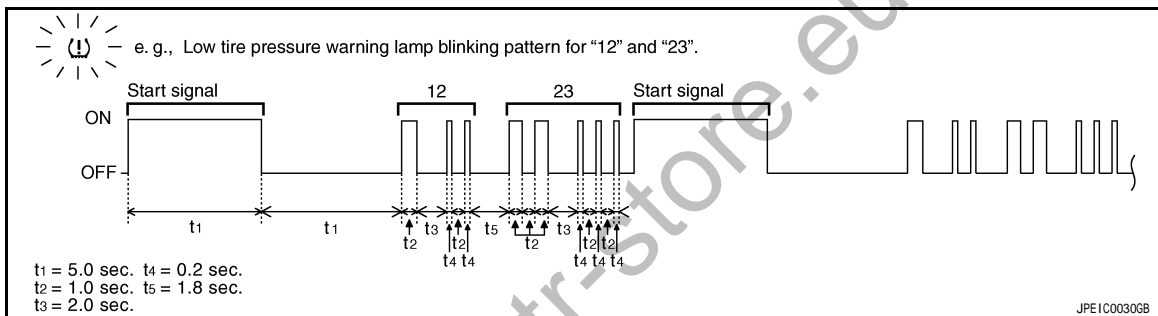
During driving, the transmitter installed at each road wheel transmits the tire pressure information signal to the receiver. The receiver receives the tire pressure signal and transmits it to the low tire pressure warning control unit. The low tire pressure warning control unit judges whether or not the tire pressure is OK based on the tire pressure information signal, and if it judges that the tire pressure is low, it transmits the information via CAN communication to the BCM.

After receiving the tire pressure malfunction information via CAN communication, the BCM transmits the tire pressure malfunction information via CAN communication to the combination meter.

After receiving the tire pressure information via CAN communication from the BCM, the combination meter illuminates the low tire pressure warning lamp and displays a message on the vehicle information display in order to warn the driver.

### Self-diagnosis procedure

1. Initiate diagnosis mode by short-circuiting the low tire pressure warning check switch to the ground.
2. The blinking pattern of the low tire pressure warning lamp indicates the conditions of the malfunction.



### NOTE:

If the low tire pressure warning lamp is blinking repeatedly at 5 Hz, there is no malfunction occurring in the system.

ON Pattern	Items	Condition	Check items
6	Flat tire (Front LH)	Front left wheel pressure is 70 kPa (0.7 kg/cm <sup>2</sup> , 10 psi) or less	
7	Flat tire (Front RH)	Front right wheel pressure is 70 kPa (0.7 kg/cm <sup>2</sup> , 10 psi) or less	
8	Flat tire (Rear RH)	Rear right wheel pressure is 70 kPa (0.7 kg/cm <sup>2</sup> , 10 psi) or less	
9	Flat tire (Rear LH)	Rear left wheel pressure is 70 kPa (0.7 kg/cm <sup>2</sup> , 10 psi) or less	
15	Low tire pressure (Front LH)	Front left wheel pressure is or less 150 kPa (1.5 kg/cm <sup>2</sup> , 22 psi)	<a href="#">WT-15</a>
16	Low tire pressure (Front RH)	Front right wheel pressure is or less 150 kPa (1.5 kg/cm <sup>2</sup> , 22 psi)	
17	Low tire pressure (Rear RH)	Rear right wheel pressure is or less 150 kPa (1.5 kg/cm <sup>2</sup> , 22 psi)	
18	Low tire pressure (Rear LH)	Rear left wheel pressure is or less 150 kPa (1.5 kg/cm <sup>2</sup> , 22 psi)	
21	Transmitter no data (Front LH)	Tire pressure data signal from the front left wheel transmitter cannot be detected.	<a href="#">WT-17</a>
22	Transmitter no data (Front RH)	Tire pressure data signal from the front right wheel transmitter cannot be detected.	
23	Transmitter no data (Rear RH)	Tire pressure data signal from the rear right wheel transmitter cannot be detected.	
24	Transmitter no data (Rear LH)	Tire pressure data signal from the rear left wheel transmitter cannot be detected.	

# DIAGNOSIS SYSTEM (LOW TIRE PRESSURE WARNING CONTROL UNIT)

## < FUNCTION DIAGNOSIS >

ON Pattern	Items	Condition	Check items
35	Transmitter pressure data error (Front left wheel)	Malfunction in the tire pressure data from the front left wheel transmitter.	<a href="#">WT-21</a>
36	Transmitter pressure data error (Front right wheel)	Malfunction in the tire pressure data from the front right wheel transmitter.	
37	Transmitter pressure data error (Rear right wheel)	Malfunction in the tire pressure data from the rear right wheel transmitter.	
38	Transmitter pressure data error (Rear left wheel)	Malfunction in the tire pressure data from the rear left wheel transmitter.	
41	Transmitter function code error (front left wheel)	The function code data from the front left wheel transmitter is malfunction.	<a href="#">WT-23</a>
42	Transmitter function code error (front right wheel)	The function code data from the front right wheel transmitter is malfunction.	
43	Transmitter function code error (rear right wheel)	The function code data from the rear right wheel transmitter is malfunction.	
44	Transmitter function code error (rear left wheel)	The function code data from the rear left wheel transmitter is malfunction.	
51	Receiver ID registration not completed.	Receiver ID registration cannot be performed.	<a href="#">WT-27</a>
52	Vehicle speed signal malfunction	Vehicle speed signal not detected.	<a href="#">WT-30</a>
54	EEPROM read error	Tire Pressure Monitoring System (TPMS) malfunction in the low tire pressure warning control unit occurs	<a href="#">WT-35</a>
55	Low communication performance (front left wheel)	The data signal from the front left wheel transmitter cannot be detected due to external electromagnetic interference. (DTC C1708 is displayed at the same time.)	<a href="#">WT-38</a>
56	Low communication performance (front right wheel)	The data signal from the front right wheel transmitter cannot be detected due to external electromagnetic interference. (DTC C1709 is displayed at the same time.)	
57	Low communication performance (Rear right wheel)	The data signal from the rear right wheel transmitter cannot be detected due to external electromagnetic interference. (DTC C1710 is displayed at the same time.)	
58	Low communication performance (rear left wheel)	The data signal from the rear left wheel transmitter cannot be detected due to external electromagnetic interference. (DTC C1711 is displayed at the same time.)	
Off	CAN communication circuit	Malfunction in the CAN communication of the low tire pressure warning control unit.	<a href="#">WT-40</a> , <a href="#">WT-41</a>

Erase the self-diagnosis history.

After performing self-diagnosis by short-circuiting the tire pressure warning check switch to the body, turn the ignition switch OFF.

CONSULT-III Function (GT-R certified NISSAN dealer)

INFOID:000000003853723

### FUNCTION

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

Diagnostic test mode	Function
Work support	In this mode, it is possible to make quick and accurate adjustments by following the instructions on the CONSULT-III 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.

# DIAGNOSIS SYSTEM (LOW TIRE PRESSURE WARNING CONTROL UNIT)

## < FUNCTION DIAGNOSIS >

Diagnostic test mode	Function
Active test	Transmits 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-7, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"](#).

### SELF-DIAGNOSTIC RESULT

#### Operation Procedure

Before starting self-diagnosis, start the engine and drive the vehicle at the speed more than 40 km/h (25 MPH) or more.

#### Display Item List

Refer to [WT-54, "DTC Index"](#).

### DATA MONITOR

#### Display Item List

Monitor item (Unit)	Remarks
VHCL SPEED SE (km/h) or (MPH)	Vehicle speed
AIR PRESS FL (kPa) or (Psi)	Internal pressure of tires
AIR PRESS FR (kPa) or (Psi)	
AIR PRESS RR (kPa) or (Psi)	
AIR PRESS RL (kPa) or (Psi)	
ID REGIST FL1	ID is registered: Done ID is not registered: Yet
ID REGIST FR1	
ID REGIST RR1	
ID REGIST 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 transmitter IDs.
- Erase the self-diagnosis result history.

#### Test item list

Test item	Condition	Details
BUZZER	Vehicle stopped	Check that the buzzer operates correctly.
WARNING 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.

# C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< COMPONENT DIAGNOSIS >

## COMPONENT DIAGNOSIS

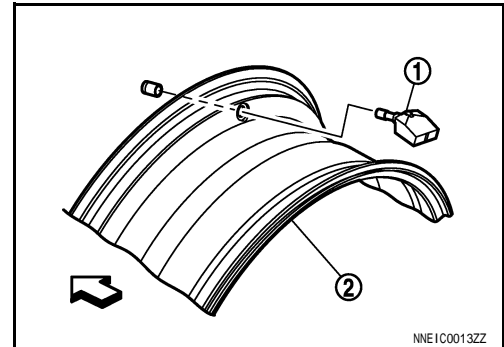
### C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

Description (GT-R certified NISSAN dealer)

INFOID:000000003853724

The transmitter (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 (GT-R certified NISSAN dealer)

INFOID:000000003853725

#### DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1704	LOW PRESSURE FL	Front left wheel pressure is or less 150 kPa (1.5 kg/cm <sup>2</sup> , 22 psi)	Low tire pressure
C1705	LOW PRESSURE FR	Front right wheel pressure is or less 150 kPa (1.5 kg/cm <sup>2</sup> , 22 psi)	
C1706	LOW PRESSURE RR	Rear right wheel pressure is or less 150 kPa (1.5 kg/cm <sup>2</sup> , 22 psi)	
C1707	LOW PRESSURE RL	Rear left wheel pressure is or less 150 kPa (1.5 kg/cm <sup>2</sup> , 22 psi)	

#### NOTE:

Specified tire pressure = 200 kPa (2.0 kg/cm<sup>2</sup>, 29 psi)

#### DTC REPRODUCTION PROCEDURE

##### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT-III

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Perform self-diagnosis of the low tire pressure warning control unit.

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

YES >> Perform trouble diagnosis. Refer to [WT-15, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

NO >> INSPECTION END

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003996178

##### 1. CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to [WT-75, "Tire"](#).

Is the inspection result normal?

YES >> Replace any malfunctioning transmitters.

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

##### 2. CHECK TIRE PRESSURE SIGNAL

Ⓜ With CONSULT-III

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

### < COMPONENT 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, use CONSULT-III "DATA MONITOR" to 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.	Internal 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 TRANSMITTER (NO DATA)

< COMPONENT DIAGNOSIS >

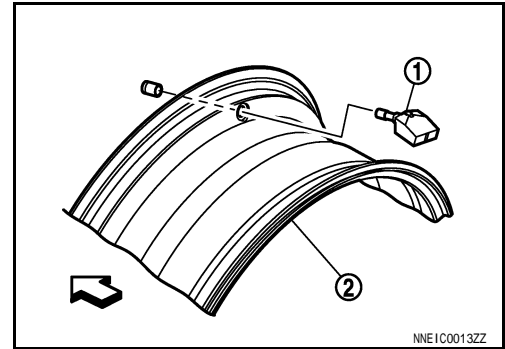
## C1708, C1709, C1710, C1711 TRANSMITTER (NO DATA)

### Description (GT-R certified NISSAN dealer)

INFOID:000000003996659

The transmitter (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 (GT-R certified NISSAN dealer)

INFOID:000000003996180

#### DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1708	[NO DATA] FL	Tire pressure data signal from the front left wheel transmitter 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>Transmitter ID registration incomplete</li> <li>Transmitter error</li> <li>Low transmitter battery voltage</li> </ul>
C1709	[NO DATA] FR	Tire pressure data signal from the front right wheel transmitter cannot be detected.	
C1710	[NO DATA] RR	Tire pressure data signal from the rear right wheel transmitter cannot be detected.	
C1711	[NO DATA] RL	Tire pressure data signal from the rear left wheel transmitter cannot be detected.	

#### DTC REPRODUCTION PROCEDURE

##### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT-III

- Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
- Perform self-diagnosis of the low tire pressure warning control unit.

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

YES >> Perform trouble diagnosis. Refer to [WT-17. "Diagnosis Procedure \(GT-R certified NISSAN dealer\)".](#)

NO >> INSPECTION END

#### Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003996181

##### 1. CHECK TIRE PRESSURE SIGNAL

Ⓜ With CONSULT-III

- Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
- Within 5 minutes, select "DATA MONITOR" for the CONSULT-III "AIR PRESSURE MONITOR".
- 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.	Internal pressure of tires
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

# C1708, C1709, C1710, C1711 TRANSMITTER (NO DATA)

## < COMPONENT DIAGNOSIS >

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

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 receiver.

#### CHECK RECEIVER POWER CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M14	10	E16 (Front LH)	1	Existed
	9	E44 (Front RH)		
	8	B58 (Rear LH)		
	7	B246 (Rear RH)		

#### CHECK RECEIVER SIGNAL CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M14	22	E16 (Front LH)	2	Existed
	21	E44 (Front RH)		
	20	B58 (Rear LH)		
	19	B246 (Rear RH)		

#### CHECK RECEIVER SIGNAL (SENSITIVITY) CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M14	6	E16 (Front LH)	3	Existed
	5	E44 (Front RH)		
	4	B58 (Rear LH)		
	3	B246 (Rear RH)		

#### CHECK RECEIVER GROUND CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M14	26	E16 (Front LH)	4	Existed
	25	E44 (Front RH)		
	24	B58 (Rear LH)		
	23	B246 (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		
M14	10	Ground	Not existed
	9		
	8		
	7		

# C1708, C1709, C1710, C1711 TRANSMITTER (NO DATA)

## < COMPONENT DIAGNOSIS >

### CHECK RECEIVER SIGNAL CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M14	22	Ground	Not existed
	21		
	20		
	19		

### CHECK RECEIVER SIGNAL (SENSITIVITY) CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M14	6	Ground	Not existed
	5		
	4		
	3		

### CHECK RECEIVER GROUND CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M14	26	Ground	Not existed
	25		
	24		
	23		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning 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		
E16 (Front LH)	1	Ground	7 - 16 V
E44 (Front RH)			
B58 (Rear LH)			
B246 (Rear RH)			

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace the tire pressure receiver.

### 4. REGISTER THE TRANSMITTER ID

Perform transmitter ID registration. Refer to [WT-7, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"](#).

Is transmitter ID registration been completed?

YES >> GO TO 5.

NO >> Replace the transmitter.

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

Ⓜ With CONSULT-III

## C1708, C1709, C1710, C1711 TRANSMITTER (NO DATA)

### < COMPONENT DIAGNOSIS >

1. Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle.
2. Within 15 minutes, use CONSULT-III "DATA MONITOR" to display the tire pressure for all wheels.
3. Check that the displayed 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.	Internal pressure of tires
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.

#### Special Repair Requirement (GT-R certified NISSAN dealer)

INFOID:000000003996182

### 1. CHECK TIRE PRESSURE

Check the internal tire pressure of all wheels. Refer to [WT-75, "Tire"](#).

#### Is the tire pressure is the specified value?

- YES >> GO TO 2.  
NO >> Check the road wheels and tires. Adjust the tire pressures to the specified values.

### 2. REGISTER TRANSMITTER ID

Perform transmitter ID registration. Refer to [WT-7, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"](#).

>> END

# C1716, C1717, C1718, C1719 TRANSMITTER (PRESSDATA)

< COMPONENT DIAGNOSIS >

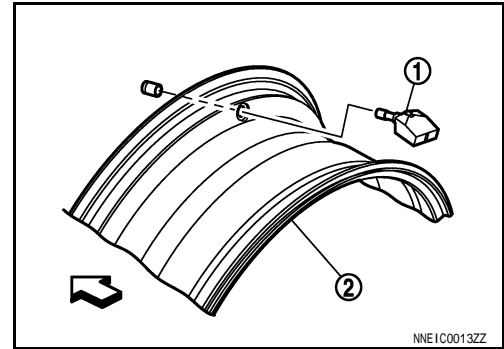
## C1716, C1717, C1718, C1719 TRANSMITTER (PRESSDATA)

Description (GT-R certified NISSAN dealer)

INFOID:000000003996660

The transmitter (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 (GT-R certified NISSAN dealer)

INFOID:000000003996371

### DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1716	[PRESSDATA ERR] FL	Malfunction in the tire pressure data from the front left wheel transmitter.	<ul style="list-style-type: none"> <li>• Transmitter ID registration incomplete</li> <li>• Transmitter malfunction</li> </ul>
C1717	[PRESSDATA ERR] FR	Malfunction in the tire pressure data from the front right wheel transmitter.	
C1718	[PRESSDATA ERR] RR	Malfunction in the tire pressure data from the rear right wheel transmitter.	
C1719	[PRESSDATA ERR] RL	Malfunction in the tire pressure data from the rear left wheel transmitter.	

### DTC REPRODUCTION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT-III

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Perform self-diagnosis of the low tire pressure warning control unit.

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

YES >> Perform trouble diagnosis. Refer to [WT-21, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

NO >> INSPECTION END

### Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003996372

#### 1. CHECK TIRE PRESSURE SIGNAL

Ⓜ With CONSULT-III

1. Check and adjust the tire pressure for all wheels. Refer to [WT-75, "Tire"](#).
2. Perform transmitter ID registration for all wheels. Refer to [WT-7, "ID REGISTRATION PROCEDURE: Transmitter ID Registration Procedure"](#).
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 use the CONSULT-III "DATA MONITOR" to read the tire pressure for all wheels.
5. Check that "DATA MONITOR" displays tire pressure of 438.60 kPa (4.47kg/cm<sup>2</sup>, 63.60 psi).

Is the inspection result normal?

YES >> Replace the malfunctioning transmitter.

NO >> GO TO 2.

## C1716, C1717, C1718, C1719 TRANSMITTER (PRESSDATA)

< COMPONENT DIAGNOSIS >

### 2.CHECK TPMS

Check the transmitters. Refer to [WT-22, "Component Inspection \(GT-R certified NISSAN dealer\)"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Perform trouble diagnosis of the low tire pressure warning control unit. Refer to [WT-35, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

Component Inspection (GT-R certified NISSAN dealer)

INFOID:000000003996373

### 1.CHECK TRANSMITTERS

④ With CONSULT-III

1. Adjust the tire pressures to the specified value for all wheels. Refer to [WT-75, "Tire"](#).
2. Perform transmitter ID registration for all wheels. Refer to [WT-7, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"](#).
3. Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle.
4. Within 15 minutes, use CONSULT-III "DATA MONITOR" to display the tire pressure for all wheels.
5. Check that "DATA MONITOR" displayed a tire pressure of 438.60 kPa (4.47kg/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.	Internal pressure of tires
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

Is the inspection result normal?

YES >> Replace the malfunctioning transmitter.

NO >> INSPECTION END

Special Repair Requirement (GT-R certified NISSAN dealer)

INFOID:000000003996658

### 1.CHECK TIRE PRESSURE

Check the internal tire pressure of all wheels. Refer to [WT-75, "Tire"](#).

Is the tire pressure is the specified value?

YES >> GO TO 2.

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

### 2.REGISTER TRANSMITTER ID

Perform transmitter ID registration. Refer to [WT-7, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"](#).

>> END

# C1720, C1721, C1722, C1723 TRANSMITTER

< COMPONENT DIAGNOSIS >

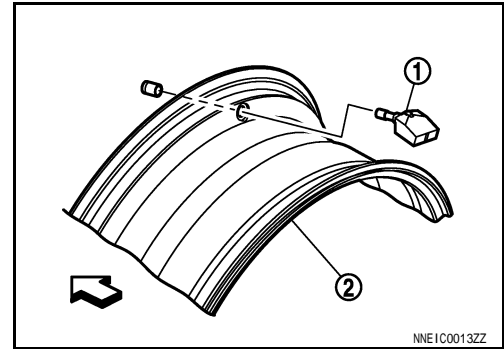
## C1720, C1721, C1722, C1723 TRANSMITTER

### Description (GT-R certified NISSAN dealer)

INFOID:000000003996666

The transmitter (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 (GT-R certified NISSAN dealer)

INFOID:000000003996376

#### DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1720	[CODE ERR] FL	The function code data from the front left wheel transmitter is malfunction.	<ul style="list-style-type: none"> <li>• Tire pressure receiver malfunction</li> <li>• Transmitter malfunction</li> <li>• Low tire pressure warning control unit malfunction</li> </ul>
C1721	[CODE ERR] FR	The function code data from the front right wheel transmitter is malfunction.	
C1722	[CODE ERR] RR	The function code data from the rear right wheel transmitter is malfunction.	
C1723	[CODE ERR] RL	The function code data from the rear left wheel transmitter is malfunction.	

#### DTC REPRODUCTION PROCEDURE

##### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT-III

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Perform self-diagnosis of the low tire pressure warning control unit.

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

YES >> Perform trouble diagnosis. Refer to [WT-23, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

NO >> INSPECTION END

#### Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003996377

##### 1. CHECK TIRE PRESSURE SIGNAL

Ⓜ With CONSULT-III

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" for the CONSULT-III "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.	Internal pressure of tires
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

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

## C1720, C1721, C1722, C1723 TRANSMITTER

### < COMPONENT DIAGNOSIS >

- YES >> GO TO 2.  
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	
M14	10	E16 (Front LH)	1	Existed
	9	E44 (Front RH)		
	8	B58 (Rear LH)		
	7	B246 (Rear RH)		

#### CHECK RECEIVER SIGNAL CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M14	22	E16 (Front LH)	2	Existed
	21	E44 (Front RH)		
	20	B58 (Rear LH)		
	19	B246 (Rear RH)		

#### CHECK RECEIVER SIGNAL (SENSITIVITY) CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M14	6	E16 (Front LH)	3	Existed
	5	E44 (Front RH)		
	4	B58 (Rear LH)		
	3	B246 (Rear RH)		

#### CHECK RECEIVER GROUND CIRCUIT

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M14	26	E16 (Front LH)	4	Existed
	25	E44 (Front RH)		
	24	B58 (Rear LH)		
	25	B246 (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		
M14	10	Ground	Not existed
	9		
	8		
	7		



# C1720, C1721, C1722, C1723 TRANSMITTER

## < COMPONENT DIAGNOSIS >

### CHECK RECEIVER SIGNAL CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M14	22	Ground	Not existed
	21		
	20		
	19		

### CHECK RECEIVER SIGNAL (SENSITIVITY) CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M14	6	Ground	Not existed
	5		
	4		
	3		

### CHECK RECEIVER GROUND CIRCUIT

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M14	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-27, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace the receiver.

### 4. CHECK TIRE PRESSURE MONITORING CONTROL SYSTEM

Check the Tire Pressure Monitoring System (TPMS). Refer to [WT-35, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

Is the inspection result normal?

YES >> GO TO 5.

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

### 5. CHECK TRANSMITTERS

1. Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle.
2. Within 15 minutes, use "DATA MONITOR" to 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.	Internal pressure of tire pressure
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace the transmitter.

## C1720, C1721, C1722, C1723 TRANSMITTER

< COMPONENT DIAGNOSIS >

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Special Repair Requirement (GT-R certified NISSAN dealer)

INFOID:000000003996669

### 1.CHECK TIRE PRESSURE

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Check the internal tire pressure of all wheels. Refer to [WT-75, "Tire"](#).

Is the tire pressure is the specified value?

YES >> GO TO 2.

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

### 2.REGISTER TRANSMITTER ID

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Perform transmitter ID registration. Refer to [WT-7, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"](#).

>> END

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# C1728 RECEIVER ID

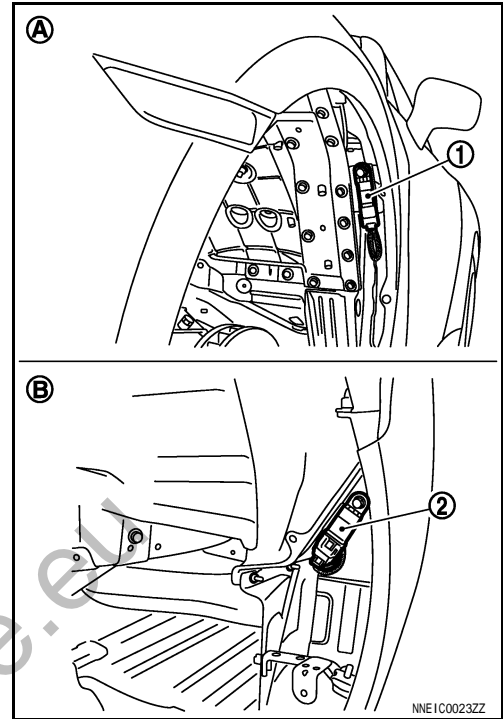
< COMPONENT DIAGNOSIS >

## C1728 RECEIVER ID

### Description (GT-R certified NISSAN dealer)

INFOID:000000004173042

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



### DTC Logic (GT-R certified NISSAN dealer)

INFOID:000000003996380

#### 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-III

- Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
- Perform self-diagnosis of the low tire pressure warning control unit.

Is DTC "C1728" detected?

YES >> Perform trouble diagnosis. Refer to [WT-27, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

NO >> INSPECTION END

#### Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003996381

##### 1. CHECK RECEIVER INPUT SIGNAL

- Turn the ignition switch ON.

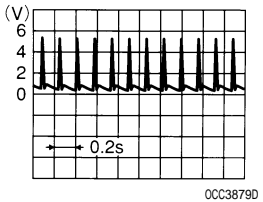
**CAUTION:**

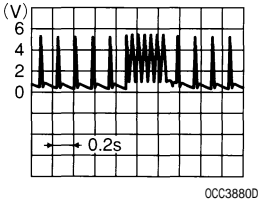
**Never start the engine.**

- Use an oscilloscope and check the input signal waveform between the low tire pressure warning control unit harness connector terminals and the ground.

# C1728 RECEIVER ID

## < COMPONENT DIAGNOSIS >

Connector	Terminal	—	Condition	Standard
M14	22	Ground	Standby stats	
	21			
	20			
	19			

Connector	Terminal	—	Condition	Standard
M14	22	Ground	When transmitter signal is received	
	21			
	20			
	19			

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
E16 (Front LH)	1		
E44 (Front RH)			
B58 (Rear LH)			
B246 (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	
M14	26	E16 (Front LH)	4	Existed
	25	E44 (Front RH)		
	24	B58 (Rear LH)		
	23	B246 (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

## C1728 RECEIVER ID

### < COMPONENT DIAGNOSIS >

Check the low tire pressure warning control unit circuit. Refer to [WT-35. "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

Is the low tire pressure warning control unit circuit normal?

YES >> Replace the tire pressure receiver.

NO >> Repair or replace error-detected parts.

A

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# C1729 VEHICLE SPEED SIG ERR

< COMPONENT DIAGNOSIS >

## C1729 VEHICLE SPEED SIG ERR

Description (GT-R certified NISSAN dealer)

INFOID:000000003996383

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 (GT-R certified NISSAN dealer)

INFOID:000000003996384

### DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1729	VHCL SPEED SIG ERR	Vehicle speed signal 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

Ⓜ With CONSULT-III

1. Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle.
2. Perform self-diagnosis of the low tire pressure warning control unit.

Is DTC "C1729" detected?

YES >> Perform trouble diagnosis. Refer to [WT-30, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

NO >> INSPECTION END

### Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003996385

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

Ⓜ With CONSULT-III

Perform self-diagnosis of the ABS actuator and electric unit (control unit). Refer to [BRC-30, "CONSULT-III Function \(GT-R certified NISSAN dealer\)"](#).

Is DTC detected?

YES >> Check malfunctioning circuit.

NO >> GO TO 2.

#### 2. PERFORM THE SELF-DIAGNOSIS

Ⓜ With CONSULT-III

Perform self-diagnosis of the low tire pressure warning control unit.

Is DTC "C1729" detected?

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

NO >> GO TO 3.

#### 3. CHECK INFORMATION

Ⓜ With CONSULT-III

Use CONSULT-III "DATA MONITOR" to check the input/output values. Refer to [WT-48, "Reference Value \(GT-R certified NISSAN dealer\)"](#).

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.

# C1730, C1731, C1732, C1733 FLAT TIRE

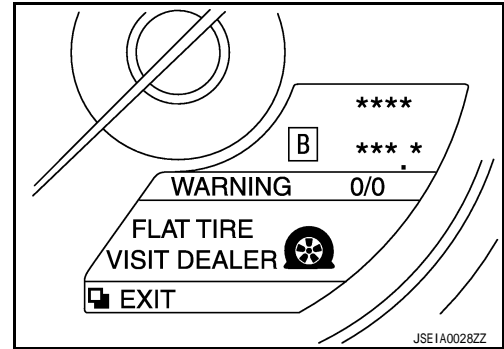
< COMPONENT DIAGNOSIS >

## C1730, C1731, C1732, C1733 FLAT TIRE

Description (GT-R certified NISSAN dealer)

INFOID:000000003853746

If the tire pressure drops below the specified value, the tire pressure monitoring control unit judges that a flat tire occurs and displays a message on the information display.



DTC Logic (GT-R certified NISSAN dealer)

INFOID:000000003853747

### DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1730	FLAT TIRE FL	Front left wheel pressure is 70 kPa (0.7 kg/cm <sup>2</sup> , 10 psi) or less	Low tire pressure
C1731	FLAT TIRE FR	Front right wheel pressure is 70 kPa (0.7 kg/cm <sup>2</sup> , 10 psi) or less	
C1732	FLAT TIRE RR	Rear right wheel pressure is 70 kPa (0.7 kg/cm <sup>2</sup> , 10 psi) or less	
C1733	FLAT TIRE RL	Rear left wheel pressure is 70 kPa (0.7 kg/cm <sup>2</sup> , 10 psi) or less	

**NOTE:**

Specified tire pressure = 200 kPa (2.0 kg/cm<sup>2</sup>, 29 psi)

### DTC REPRODUCTION PROCEDURE

#### 1. CHECK DTC DETECTION

Ⓜ With CONSULT-III

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Perform self-diagnosis of the low tire pressure warning control unit.

Is DTC "C1730", "C1731", "C1732", or "C1733" detected?

YES >> Perform trouble diagnosis. Refer to [WT-31, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

NO >> INSPECTION END

### Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003853748

#### 1. CHECK TIRE PRESSURE

Check the for pressure of all wheels. Refer to [WT-75, "Tire"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

#### 2. ADJUST TIRE PRESSURE

Check and adjust the tire pressure for all wheels specified to the value. Refer to [WT-75, "Tire"](#).

Is the inspection result normal?

YES >> GO TO 3.

## C1730, C1731, C1732, C1733 FLAT TIRE

### < COMPONENT DIAGNOSIS >

NO >> Check or replace the road wheels and tires, and adjust the tire pressures.

### 3. CHECK TIRE PRESSURE SIGNAL

④ With CONSULT-III

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, use CONSULT-III "DATA MONITOR" to display the tire pressure for all wheels.
3. Check that the tire pressure is the specified value.

Check items	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.	Internal 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 part.

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# C1750, C1751, C1752, C1753 RECEIVER

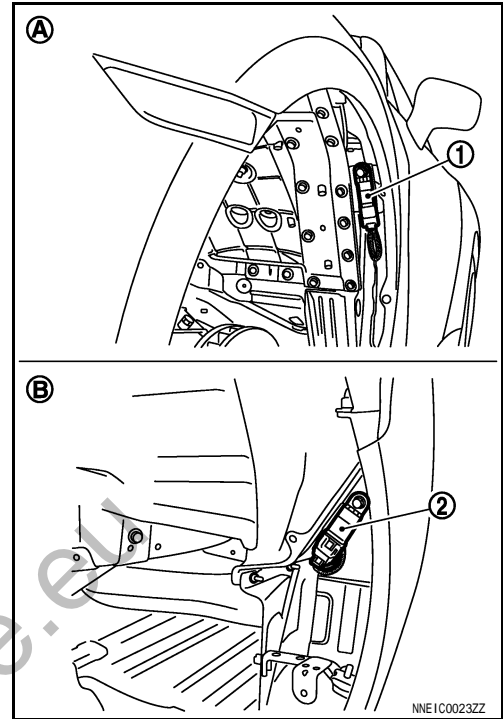
< COMPONENT DIAGNOSIS >

## C1750, C1751, C1752, C1753 RECEIVER

Description (GT-R certified NISSAN dealer)

INFOID:000000003996386

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



DTC Logic (GT-R certified NISSAN dealer)

INFOID:000000003996387

### DTC DETECTION LOGIC

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

### DTC REPRODUCTION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT-III

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Perform self-diagnosis of the low tire pressure warning control unit.

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

YES >> Perform trouble diagnosis. Refer to [WT-33, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

NO >> INSPECTION END

### Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003996388

#### 1. CHECK RECEIVER INPUT SIGNAL

1. Turn the ignition switch ON.

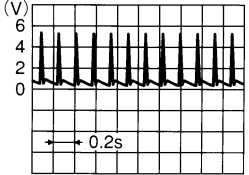
**CAUTION:**

# C1750, C1751, C1752, C1753 RECEIVER

## < COMPONENT DIAGNOSIS >

### Never start the engine.

- Use an oscilloscope and check the input signal waveform between the low tire pressure warning control unit harness connector terminals and the ground.

Connector	Terminal	—	Condition	Standard
M14	22	Ground	Standby status	 OCC3879D
	21			
	20			
	19			

### Is the inspection result normal?

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

## 2. CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

- Turn the ignition switch OFF.
- Disconnect the tire pressure receiver harness connector.
- Check the voltage between the tire pressure receiver harness connector and ground.

Connector	Terminal	—	Voltage
E16 (Front LH)	1	Ground	7 - 16 V
E44 (Front RH)			
B58 (Rear LH)			
B246 (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
M14	26	E16 (Front LH)	4	Existed
	25	E44 (Front RH)		
	24	B58 (Rear LH)		
	23	B246 (Rear RH)		

### Is the inspection result normal?

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

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

### Ⓜ With CONSULT-III

- Exchange the front LH tire pressure receiver with the front RH tire pressure receiver.
- Perform low tire pressure warning control unit 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-35, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

# C1754 LOW TIRE PRESSURE WARNING CONTROL UNIT

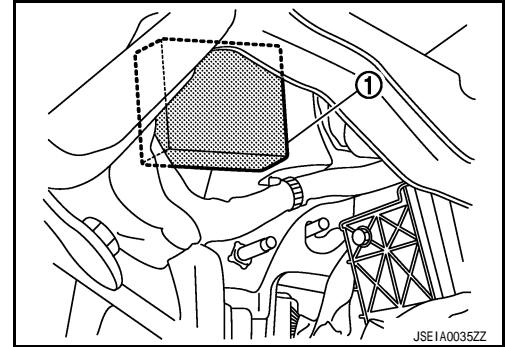
< COMPONENT DIAGNOSIS >

## C1754 LOW TIRE PRESSURE WARNING CONTROL UNIT

Description (GT-R certified NISSAN dealer)

INFOID:000000003996389

- 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 (GT-R certified NISSAN dealer)

INFOID:000000003996390

### DTC DETECTION LOGIC

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

### DTC REPRODUCTION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT-III

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 self-diagnosis of the low tire pressure warning control unit.

Is DTC "C1754" detected?

YES >> Perform trouble diagnosis. Refer to [WT-35, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

NO >> INSPECTION END

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003996391

#### 1. CHECK POWER SUPPLY CIRCUIT

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		
M14	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.

- 10 A 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 the ground.

# C1754 LOW TIRE PRESSURE WARNING CONTROL UNIT

## < COMPONENT DIAGNOSIS >

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M14	32	Ground	Existed

Are the check results normal?

YES >> GO TO 3.

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

### 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	
M14	10	E16 (Front LH)	1	Exited
	22		2	
	6		3	
	26		4	
	9	E44 (Front RH)	1	
	21		2	
	5		3	
	25		4	
	8	B58 (Rear LH)	1	
	20		2	
	4		3	
	24		4	
	7	B246 (Rear RH)	1	
	19		2	
	3		3	
	23		4	

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

# C1754 LOW TIRE PRESSURE WARNING CONTROL UNIT

## < COMPONENT DIAGNOSIS >

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M14	10	Ground	Not existed
	22		
	6		
	26		
	9		
	21		
	5		
	25		
	8		
	20		
	4		
	24		
	7		
	19		
	3		
23			

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace error-detected parts.

### 4.PERFORM THE SELF-DIAGNOSIS

④With CONSULT-III

1. Perform transmitter ID registration for all wheels. Refer to [WT-7, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"](#).

2. Perform self-diagnosis of the low tire pressure warning control unit.

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 (GT-R certified NISSAN dealer)

INFOID:000000004000805

### 1.CHECK TIRE PRESSURE

Check the internal tire pressure of all wheels. Refer to [WT-75, "Tire"](#).

Is the tire pressure is the specified value?

YES >> GO TO 2.

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

### 2.REGISTER TRANSMITTER ID

Perform transmitter ID registration. Refer to [WT-7, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"](#).

>> END

# C1755, C1756, C1757, C1758 POOR RECEIVING CONDITIONS

< COMPONENT DIAGNOSIS >

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

Description (GT-R certified NISSAN dealer)

INFOID:000000003996393

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

DTC Logic (GT-R certified NISSAN dealer)

INFOID:000000003996394

### DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1755	PR RECEIV COND FL	The data signal from the front LH wheel transmitter 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 transmitter 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 transmitter 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 transmitter 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 transmitter data) first diagnose C1755, C1756, C1757, or C1758 (low communications performance).

### DTC REPRODUCTION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT-III

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Perform self-diagnosis of the low tire pressure warning control unit.

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

YES >> Perform trouble diagnosis. Refer to [WT-38, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

NO >> INSPECTION END

### Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003996395

#### 1. REGISTER THE TRANSMITTER ID

Perform transmitter ID registration for all wheels. Refer to [WT-7, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"](#).

Is ID registration for all wheels been completed?

YES >> GO TO 2.

NO >> Change the work location and perform ID registration again, then perform trouble diagnosis. Refer to [WT-27, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

#### 2. CHECK TIRE PRESSURE SIGNAL

Ⓜ With CONSULT-III

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" for the CONSULT-III "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.

# C1755, C1756, C1757, C1758 POOR RECEIVING CONDITIONS

## < COMPONENT 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.	Internal pressure of tires
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-III

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 self-diagnosis of the low tire pressure warning control unit.

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-III

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" for the CONSULT-III "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.	Internal pressure of tires
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

< COMPONENT DIAGNOSIS >

## U1000 CAN COMM CIRCUIT

Description (GT-R certified NISSAN dealer)

INFOID:000000003996399

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 (GT-R certified NISSAN dealer)

INFOID:000000003996400

### 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

Ⓔ With CONSULT-III

1. Turn the ignition switch OFF to ON.
2. Perform low tire pressure warning control unit self-diagnosis.

Is DTC "U1000" detected?

YES >> Proceed to trouble diagnosis procedure. Refer to [WT-40, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)".](#)

NO >> INSPECTION END

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003996401

#### 1. PERFORM SELF-DIAGNOSIS

Ⓔ With CONSULT-III

Perform low tire pressure warning control unit self-diagnosis.

Is DTC "U1000" detected?

YES >> CAN specification chart. Refer to [LAN-14, "Trouble Diagnosis Flow Chart".](#)

NO >> INSPECTION END



# U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

## U1010 CONTROL UNIT (CAN)

### Description (GT-R certified NISSAN dealer)

INFOID:000000003996404

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 transmits/receives data but selectively reads required data only.

### DTC Logic (GT-R certified NISSAN dealer)

INFOID:000000003996405

### 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-III

1. Turn the ignition switch OFF to ON.
2. Perform low tire warning control unit self-diagnosis.

Is DTC "U1010" detected?

- YES >> Proceed to trouble diagnosis procedure. Refer to [WT-41. "Diagnosis Procedure \(GT-R certified NISSAN dealer\)".](#)
- NO >> INSPECTION END

### Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003996406

#### 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-71. "Exploded View \(GT-R certified NISSAN dealer\)".](#)
- NO >> Repair or replace error-detected parts.

# POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

## POWER SUPPLY AND GROUND CIRCUIT

Description (GT-R certified NISSAN dealer)

INFOID:000000004000822

Supply power to the low tire pressure warning control unit.

Component Function Check (GT-R certified NISSAN dealer)

INFOID:000000004000823

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Perform trouble diagnosis. Refer to [WT-42, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000004000824

### 1.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 the engine.**
4. Check the voltage between the low tire pressure warning control unit harness connector and the ground.

Low tire pressure warning control unit		—	Voltage
Connector	Terminal		
M14	15	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2.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		
M14	32	Ground	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

### 3.CHECK FUSE/FUSIBLE LINK

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

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

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.

# POWER SUPPLY AND GROUND CIRCUIT

## < COMPONENT DIAGNOSIS >

Tire pressure receiver		—	Voltage
Connector	Terminal		
E16 (Front LH)	1	Ground	7 - 16 V
E44 (Front RH)			
B58 (Rear LH)			
B246 (Rear RH)			

Is the inspection result normal?

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	
E16 (Front LH)	4	M14	26	Existed
E44 (Front RH)			25	
B58 (Rear LH)			24	
B246 (Rear RH)			23	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace error-detected parts.

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# TIRE PRESSURE WARNING CHECK SWITCH

< COMPONENT DIAGNOSIS >

## TIRE PRESSURE WARNING CHECK SWITCH

Description (GT-R certified NISSAN dealer)

INFOID:000000004000825

Self-diagnosis can be performed by short-circuiting the tire pressure warning check switch to the ground. (Self-diagnosis indicates the location of the malfunction by the blinking of the low tire pressure warning lamp on the combination meter.)

Component Function Check (GT-R certified NISSAN dealer)

INFOID:000000004000826

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

1. Turn the ignition switch ON.  
**CAUTION:**  
**Never start engine.**
2. Short-circuit the tire pressure warning check switch connector terminal to the ground.
3. Check that the low tire pressure warning lamp blinking.

Is inspection result normal?

- YES >> INSPECTION END  
NO >> Perform diagnosis. Refer to [WT-46, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000004000827

### 1. CHECK TIRE PRESSURE WARNING CHECK SWITCH POWER SUPPLY CIRCUIT

1. Turn the ignition switch ON.  
**CAUTION:**  
**Never start the engine.**
2. Check the voltage between tire pressure warning check switch connector and ground.

Tire pressure warning check switch		—	Voltage (Approx.)
Connector	Terminal		
M23	1	Ground	7.6 - 14.6 V

Is the inspection result normal?

- YES >> Repair or replace low tire pressure warning control unit. Replace low tire pressure warning control unit. Refer to [WT-71, "Exploded View \(GT-R certified NISSAN dealer\)"](#).  
NO >> GO TO 2.

### 2. CHECK TIRE PRESSURE WARNING CHECK SWITCH CIRCUIT

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

Low tire pressure warning control unit		Tire pressure warning check switch		Continuity
Connector	Terminal	Connector	Terminal	
M14	12	M23	1	Existed

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

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M14	12	Ground	Not existed

Is the inspection result normal?

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

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

## TIRE PRESSURE WARNING CHECK SWITCH

### < COMPONENT DIAGNOSIS >

Check the low tire pressure warning control unit input/output signal. Refer to [WT-48. "Reference Value \(GT-R certified NISSAN dealer\)"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Check low tire pressure warning control unit pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damaged parts. Replace low tire pressure warning control unit. Refer to [WT-71. "Exploded View \(GT-R certified NISSAN dealer\)"](#).

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# LOW TIRE PRESSURE WARNING LAMP

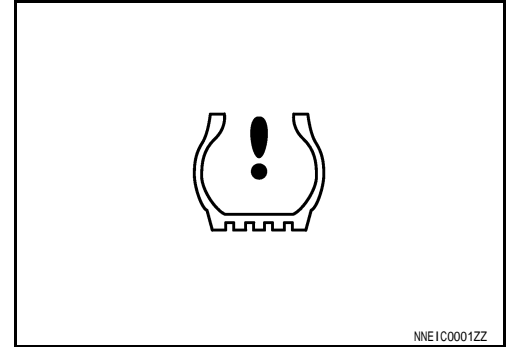
< COMPONENT DIAGNOSIS >

## LOW TIRE PRESSURE WARNING LAMP

Description (GT-R certified NISSAN dealer)

INFOID:000000004000828

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 150 kPa (1.5 kg/cm <sup>2</sup> , 22 psi)* or less.]	ON
When tire is flat [Tire pressure is 70 kPa (0.7 kg/cm <sup>2</sup> , 10 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 (GT-R certified NISSAN dealer)

INFOID:000000004000829

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

Check that the low tire 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-46, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000004000830

### 1. POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit. Refer to [WT-42, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2. PERFORM THE SELF-DIAGNOSIS

Ⓜ With CONSULT-III

Perform low tire pressure warning control unit self-diagnosis.

Is DTC "U1000" detected?

YES >> Perform trouble diagnosis for CAN communication system. Refer to [WT-40, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

NO >> GO TO 3.

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

Ⓜ With CONSULT-III

## LOW TIRE PRESSURE WARNING LAMP

### < COMPONENT DIAGNOSIS >

---

1. Turn the ignition switch ON.

**CAUTION:**

**Never start the engine.**

2. Select "DATA MONITOR" mode for "AIR PRESSURE MONITOR" with CONSULT-III.
3. Read out the value of "WARNING LAMP".

Does the data monitor display change from ON to OFF?

YES >> GO TO 4.

NO >> Replace the low tire pressure warning control unit. Refer to [WT-71, "Exploded View \(GT-R certified NISSAN dealer\)"](#).

### 4. CHECK COMBINATION METER POWER SUPPLY CIRCUIT

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Perform trouble diagnosis of the combination meter power supply circuit.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace error-detected part.

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# TPMS CONTROL UNIT

< ECU DIAGNOSIS >

## ECU DIAGNOSIS

### TPMS CONTROL UNIT

Reference Value (GT-R certified NISSAN dealer)

INFOID:000000004000923

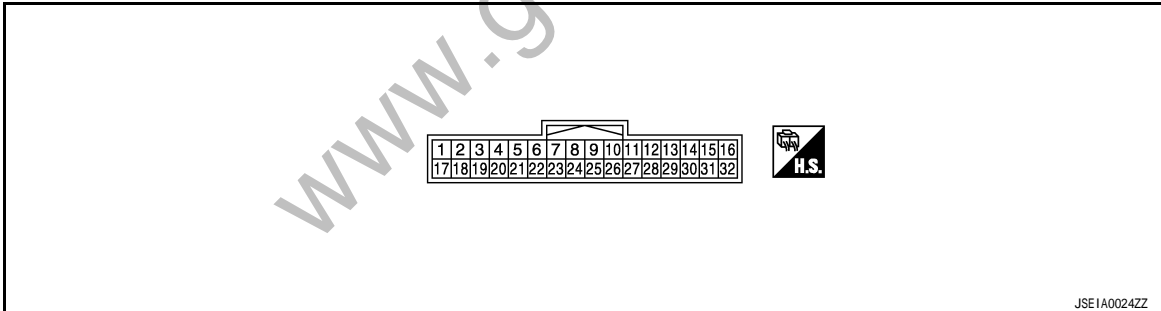
VALUES ON THE DIAGNOSIS TOOL

**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.

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	<ul style="list-style-type: none"> <li>Drive at a speed of 40 km/h (25 MPH) or more then drive normally for 10 minutes.</li> <li>Turn the ignition switch ON and use the activation tool to transmit the registration signal.</li> </ul>	Tire pressure (kPa) or (Psi)
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		
ID REGIST FL1	Ignition switch ON	ID registered: Done
ID REGIST FR1		ID not registered: Yet
ID REGIST RR1		
ID REGIST 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	

### TERMINAL LAYOUT



### PHYSICAL VALUES

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



# TPMS CONTROL UNIT

## < ECU DIAGNOSIS >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)	
	Signal name	Input/ Output			
3 (O)	Ground	Tire pressure receiver signal (sensitivity)	Input	Ignition switch ON	Approx. 0.7 V
4 (L)					
5 (R)					
6 (W)					
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 (GR)					
9 (R)					
10 (LG)					
12 (W)	Ground	Tire pressure warning check switch	Output	Always	Approx. 7.6 - 14.6 V
15 (G)	Ground	Low tire pressure warning control unit power supply	Input	Ignition switch ON	Battery voltage
19 (R)	Ground	Tire pressure receiver signal	Input	Ignition switch ON	Stand by status (Approx. 4.5 V)
20 (O)					
21 (P)					
22 (G)					When signal is received (Approx. 4.5 V)
23 (GR)	Ground	Tire pressure receiver ground	—	—	0 V
24 (V)					
25 (L)					
26 (BR)					
30 (G)	Ground	Hazard lamp	Output	Hazard lamp switch ON	0 V
				Hazard lamp switch OFF	Battery voltage
32 (B)	Ground	Ground	—	—	0 V

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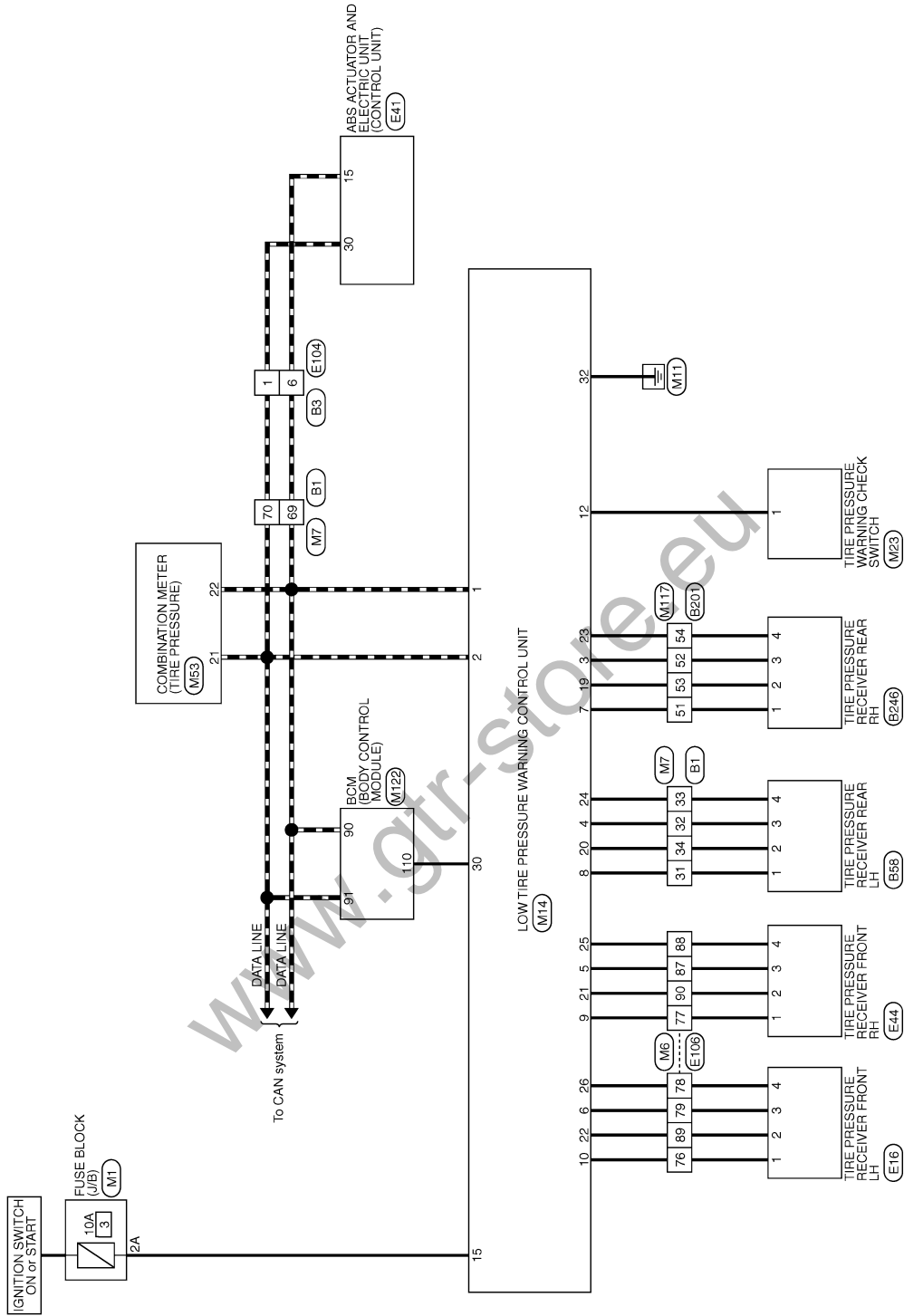
# TPMS CONTROL UNIT

< ECU DIAGNOSIS >

dealer)

INFOID:000000003853775

## TIRE PRESSURE MONITORING SYSTEM



2008/03/14

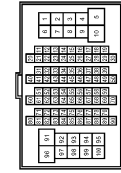
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# TPMS CONTROL UNIT

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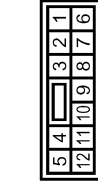
## TIRE PRESSURE MONITORING SYSTEM

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



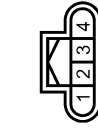
Terminal No.	Color of Wire	Signal Name [Specification]
31	GR	-
32	L	-
33	V	-
34	O	-
69	P	-
70	L	-

Connector No.	E3
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



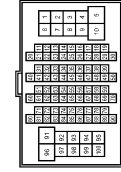
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
6	P	-

Connector No.	B38
Connector Name	TIRE PRESSURE RECEIVER REAR LH
Connector Type	RH04FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	RECEIVER-
2	O	RECEIVER RSSI
3	L	RECEIVER SIG
4	V	RECEIVER-

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



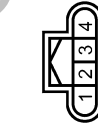
Terminal No.	Color of Wire	Signal Name [Specification]
51	SB	-
52	G	-
53	BR	-
54	V	-

Connector No.	B246
Connector Name	TIRE PRESSURE RECEIVER REAR RH
Connector Type	RH04FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	RECEIVER+
2	BR	RECEIVER RSSI
3	G	RECEIVER SIG
4	V	RECEIVER-

Connector No.	E16
Connector Name	TIRE PRESSURE RECEIVER FRONT LH
Connector Type	RH04FB



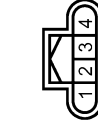
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	RECEIVER+
2	O	RECEIVER RSSI
3	W	RECEIVER SIG
4	BR	RECEIVER-

Connector No.	E11
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	AE240FB-AJ24



Terminal No.	Color of Wire	Signal Name [Specification]
15	P	CAN-L
30	L	CAN-H

Connector No.	E44
Connector Name	TIRE PRESSURE RECEIVER FRONT RH
Connector Type	RH04FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	RECEIVER-
2	G	RECEIVER RSSI
3	R	RECEIVER SIG
4	L	RECEIVER-

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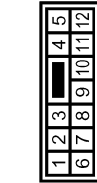
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# TPMS CONTROL UNIT

< ECU DIAGNOSIS >

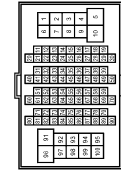
## TIRE PRESSURE MONITORING SYSTEM

Connector No.	E104
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
6	P	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
76	LG	-
77	V	-
78	BR	-
79	W	-
87	R	-
88	L	-
89	O	-
90	G	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS30FW-M2



Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	-

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



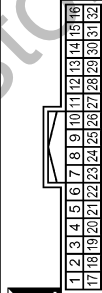
Terminal No.	Color of Wire	Signal Name [Specification]
76	LG	-
77	R	-
78	BR	-
79	W	-
87	R	-
88	L	-
89	G	-
90	P	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
31	GR	-
32	L	-
33	V	-
34	O	-
69	P	-
70	L	-

Connector No.	M14
Connector Name	LOW TIRE PRESSURE WARNING CONTROL UNIT
Connector Type	TH32PW-N1



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	CAN-(L)
2	L	CAN-(H)
3	O	RL TUNER (SIG)
4	L	RR TUNER (SIG)
5	R	FL TUNER (SIG)
6	W	FR TUNER (SIG)
7	SB	RR TUNER (PWR)
8	GR	RL TUNER (PWR)
9	R	FR TUNER (PWR)
10	LG	FL TUNER (PWR)
12	W	SW SIG

15	G	IGN
19	R	RR TUNER (RSSI)
20	O	FL TUNER (RSSI)
21	P	FR TUNER (RSSI)
22	G	FL TUNER (RSSI)
23	GR	RR TUNER (GND)
24	V	RL TUNER (GND)
25	L	FR TUNER (GND)
26	BR	FL TUNER (GND)
30	G	FLASHER SIG
32	B	GND

Connector No.	M23
Connector Name	TIRE PRESSURE WARNING CHECK SWITCH
Connector Type	TK02FW




Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-

# TPMS CONTROL UNIT

< ECU DIAGNOSIS >

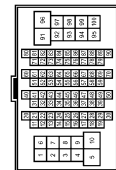
## TIRE PRESSURE MONITORING SYSTEM

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SABQFW




Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	THE80MW-CS(E-TM)



Terminal No.	Color of Wire	Signal Name [Specification]
51	SB	-
52	O	-
53	R	-
54	GR	-

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H
110	G	HAZARD SW

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## DTC Inspection Priority Chart (GT-R certified NISSAN dealer)

INFOID:000000004000944

When multiple DTCs are displayed simultaneously, check one by one depending on the following priority list.

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# TPMS CONTROL UNIT

## < ECU DIAGNOSIS >

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>• C1730 [FLAT TIRE] FL</li> <li>• C1731 [FLAT TIRE] FR</li> <li>• C1732 [FLAT TIRE] RR</li> <li>• C1733 [FLAT TIRE] RL</li> </ul>
10	<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>
11	C1754 CONT UNIT (EEPROM)

## DTC Index

INFOID:000000004000945

DTC	Display Item	Refer to
C1704	LOW PRESSURE FL	<a href="#">WT-15</a>
C1705	LOW PRESSURE FR	
C1706	LOW PRESSURE RR	
C1707	LOW PRESSURE RL	
C1708	[NO DATA] FL	<a href="#">WT-17</a>
C1709	[NO DATA] FR	
C1710	[NO DATA] RR	
C1711	[NO DATA] RL	
C1716	[PRESSDATA ERR] FL	<a href="#">WT-21</a>
C1717	[PRESSDATA ERR] FR	
C1718	[PRESSDATA ERR] RR	
C1719	[PRESSDATA ERR] RL	
C1719	[PRESSDATA ERR] RL	

## TPMS CONTROL UNIT

### < ECU DIAGNOSIS >

DTC	Display Item	Refer to	
C1720	[CODE ERR] FL	<a href="#">WT-23</a>	A
C1721	[CODE ERR] FR		
C1722	[CODE ERR] RR		B
C1723	[CODE ERR] RL		
C1728	RECEIVER ID NO REG	<a href="#">WT-27</a>	
C1729	VHCL SPEED SIG ERR	<a href="#">WT-30</a>	C
C1730	[FLAT TIRE] FL	<a href="#">WT-31</a>	
C1731	[FLAT TIRE] FR		
C1732	[FLAT TIRE] RR		D
C1733	[FLAT TIRE] RL		
C1750	[RECEIVER ERR] FL	<a href="#">WT-33</a>	WT
C1751	[RECEIVER ERR] FR		
C1752	[RECEIVER ERR] RR		F
C1753	[RECEIVER ERR] RL		
C1754	CONT UNIT (EEPROM)	<a href="#">WT-35</a>	
C1755	PR RECEIV COND FL	<a href="#">WT-38</a>	G
C1756	PR RECEIV COND FR		
C1757	PR RECEIV COND RR		
C1758	PR RECEIV COND RL		H
U1000	CAN COMM CIRCUIT	<a href="#">WT-40</a>	
U1010	CONTROL UNIT (CAN)	<a href="#">WT-41</a>	I
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## TPMS SYMPTOMS

< SYMPTOM DIAGNOSIS >

---

### SYMPTOM DIAGNOSIS

#### TPMS SYMPTOMS

Symptom Table (GT-R certified NISSAN dealer)

INFOID:000000003853778
















LOW TIRE PRESSURE WARNING LAMP SYMPTOM CHART

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# TPMS SYMPTOMS


## < 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 illuminates for 1 second, then turns OFF.	  ON 1 sec > stays OFF <small>SE1A0592E</small>	Wake-up operation for all transmitters 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>SE1A0593E</small>	Wake-up operation for all transmitters at wheels is not completed.	Perform the wake-up operation for all transmitters at wheels. Refer to <a href="#">WT-6. "TRANSMITTER WAKE UP OPERATION : Transmitter Wake-up Procedure"</a> .
	The low tire pressure warning lamp blinks once.	 Blinks 1 time ON 0.3 sec > OFF 1.3 sec <small>SE1A0594E</small>	The front left transmitter is not activated.	Perform the wake-up operation for the transmitter at front left wheel. Refer to <a href="#">WT-6. "TRANSMITTER WAKE UP OPERATION : Transmitter Wake-up Procedure"</a> .
	The low tire pressure warning lamp repeats blinking twice.	  Blinks 2 times ON 0.3 sec > OFF 0.3 sec <small>SE1A0595E</small>	The front right transmitter is not activated.	Perform the wake-up operation for the transmitter at front right wheel. Refer to <a href="#">WT-6. "TRANSMITTER WAKE UP OPERATION : Transmitter Wake-up Procedure"</a> .
	The low tire pressure warning lamp repeats blinking for 3 times.	   Blinks 3 times ON 0.3 sec > OFF 0.3 sec <small>SE1A0596E</small>	The rear right transmitter is not activated.	Perform the wake-up operation for the transmitter at rear right wheel. Refer to <a href="#">WT-6. "TRANSMITTER WAKE UP OPERATION : Transmitter Wake-up Procedure"</a> .
	The low tire pressure warning lamp repeats blinking for 4 times.	    Blinks 4 times ON 0.3 sec > OFF 0.3 sec <small>SE1A0597E</small>	The rear left transmitter is not activated.	Perform the wake-up operation for the transmitter at rear left wheel. Refer to <a href="#">WT-6. "TRANSMITTER WAKE UP OPERATION : Transmitter Wake-up Procedure"</a> .
	The low tire pressure warning lamp turns ON and stays illuminated.	 Comes ON and stays ON <small>SE1A0598E</small>	Low tire pressure	Check with CONSULT-III the tire pressure values. Refer to <a href="#">WT-13. "CONSULT-III Function (GT-R certified NISSAN dealer)"</a> .

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## TPMS SYMPTOMS

### < 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 repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated.	 <p style="text-align: center;">Blinks 1 min</p> <p style="text-align: center;">ON 0.5 sec &gt; OFF 0.5 sec and stays ON</p> <p style="text-align: right; font-size: small;">SE1A0788E</p>	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.
			Tire Pressure Monitoring System (TPMS) malfunction.	<ul style="list-style-type: none"> <li>• Perform CONSULT-III self-diagnosis. Refer to <a href="#">WT-13, "CONSULT-III Function (GT-R certified NISSAN dealer)"</a>.</li> <li>• If necessary, perform transmitter ID registration. Refer to <a href="#">WT-7, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"</a>.</li> </ul>
Turn signal lamp	The turn signal lamps do not blink twice when the transmitter is activated. Or the buzzer does not sound.	—	<ol style="list-style-type: none"> <li>1. The transmitter activation tool (J-45295) does not activate.</li> <li>2. The ignition switch is OFF when the transmitter wake-up operation is performed.</li> <li>3. The transmitter activation tool (J-45295) is not used in the correct position.</li> <li>4. The transmitter is already waked up.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace the battery in the transmitter activation tool (J-45295).</li> <li>2. Turn the ignition switch ON when performing the transmitter wake-up operation.</li> <li>3. Operate the transmitter activation tool (J-45295) in the correct position when performing the wake-up operation.</li> <li>4. No procedure.</li> </ol>

**NOTE:**

If transmitter wake-up operation is not completed for two or more transmitters, 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 transmitters.)

# LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

## LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

Description (GT-R certified NISSAN dealer)

INFOID:000000003853779

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

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003853780

### 1.CHECK LOW TIRE PRESSURE WARNING LAMP

Perform trouble diagnosis of the low tire pressure warning lamp. Refer to [WT-46, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

Is the inspection result normal?

- YES >> Check pin terminal and connection of each connector for damage and loose connection.
- NO >> Repair or replace error-detected parts.

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# LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

---

## LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

Description (GT-R certified NISSAN dealer)

INFOID:000000003853781

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

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003853782

### 1.CHECK TPMS

---

Check the status of the low tire pressure warning lamp for illumination.

Is the low tire pressure warning lamp illuminated?

YES >> Check the power supply and ground circuit. Refer to [WT-42, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

NO >> GO TO 2.

### 2.CHECK TRANSMITTER ID REGISTRATION

---

④With CONSULT-III

Perform the self-diagnosis of the low tire pressure warning control unit.

Is any malfunction detected?

YES >> Check malfunctioning circuit.

NO >> GO TO 3.

### 3.CHECK LOW TIRE PRESSURE WARNING LAMP

---

Perform trouble diagnosis of the low tire pressure warning lamp. Refer to [WT-46, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

Is the inspection result normal?

YES >> Check pin terminal and connection of each connector for damage and loose connection.

NO >> Repair or replace error-detected parts.

# LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

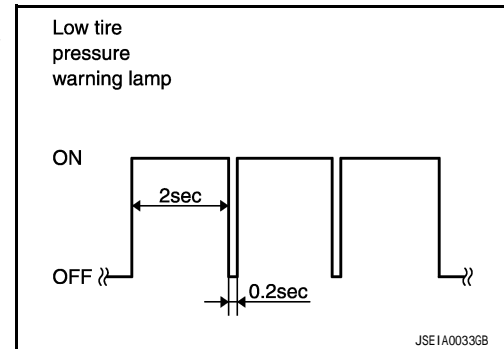
## LOW TIRE PRESSURE WARNING LAMP BLINKS

Description (GT-R certified NISSAN dealer)

INFOID:000000003853783

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

When the low tire pressure warning lamp blinks as shown in the figure, the transmitter is not waked up. Perform the transmitter wake-up operation. Refer to [WT-6, "TRANSMITTER WAKE UP OPERATION : Transmitter Wake-up Procedure"](#).



Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003853784

### 1. CHECK POWER SUPPLY OF TIRE PRESSURE WARNING CHECK SWITCH

1. Turn the ignition switch ON.  
**CAUTION:**  
**Never start the engine.**
2. Check the voltage between the tire pressure warning check switch connector and the ground.

Tire pressure warning check switch		—	Voltage
Connector	Terminal		
M23	1	Ground	7.6 - 14.6 V

Is the output voltage normal?

- YES >> Repair or replace the circuit in the low tire pressure warning control unit. Or, replace the low tire pressure warning control unit.
- NO >> GO TO 2.

### 2. CHECK TIRE PRESSURE WARNING CHECK SWITCH CIRCUIT

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

Low tire pressure warning control unit		Tire pressure warning check switch		Continuity
Connector	Terminal	Connector	Terminal	
M14	12	M23	1	Existed

4. 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		
M14	12	Ground	Not existed

Is the inspection result normal?

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

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

Check the input/output signals of the low tire pressure warning control unit. Refer to [WT-48, "Reference Value \(GT-R certified NISSAN dealer\)"](#).

## LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

---

Is the inspection result normal?

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

NO >> GO TO 4.

### **4.**CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT HARNESS CONNECTOR

---

Check for looseness or damage at the harness connector pins of the low tire pressure warning control unit.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace error-detected parts.

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# TURN SIGNAL LAMP BLINKS

< SYMPTOM DIAGNOSIS >

## TURN SIGNAL LAMP BLINKS

Description (GT-R certified NISSAN dealer)

INFOID:000000003853785

The turn signal lamps blink when the ignition switch is turned ON.

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003853786

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

1. Check the input/output values of the low tire pressure warning control unit. Refer to [WT-48, "Reference Value \(GT-R certified NISSAN dealer\)"](#).

Is the inspection result normal?

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

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

Check the circuits of the low tire pressure warning control unit. Refer to [WT-35, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

Is the inspection result normal?

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

### 3.HARNES INSPECTION

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

Low tire pressure warning control unit		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M14	30	M122	110	Existed

Is the inspection result normal?

- YES >> Check the BCM. Refer to [BCS-78, "Exploded View"](#).  
NO >> Repair or replace error-detected parts.

# ID REGISTRATION CANNOT BE COMPLETED

< SYMPTOM DIAGNOSIS >

## ID REGISTRATION CANNOT BE COMPLETED

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003853787

### 1. CHECK TRANSMITTER ID REGISTRATION

1. Perform transmitter ID registration for all wheels. Refer to [WT-7, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"](#).
2. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
3. Within 5 minutes, use CONSULT-III "DATA MONITOR" to display the tire pressure for all wheels.
4. Check that the displayed tire pressure is the specified value.

Monitor item	Measuring 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.	Internal pressure of tires
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

### 2. CHECK TRANSMITTERS

1. Perform trouble diagnosis for the transmitter. Refer to [WT-23, "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).
2. Perform transmitter ID registration for all wheels. Refer to [WT-7, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"](#).
3. Check that transmitter ID registration is completed for all wheels.

Is transmitter ID registration for all wheels been completed?

YES >> INSPECTION END

NO >> Replace the transmitter.



# "TIRE PRESSURE" INFORMATION IN DISPLAY UNIT DOES NOT EXIST

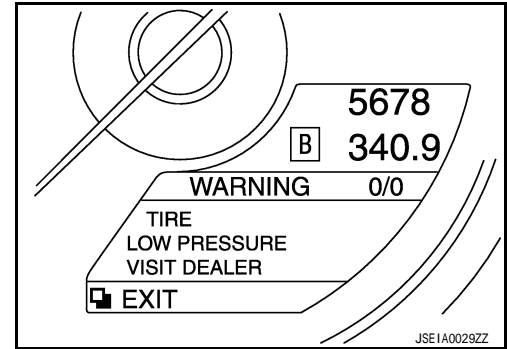
< SYMPTOM DIAGNOSIS >

## "TIRE PRESSURE" INFORMATION IN DISPLAY UNIT DOES NOT EXIST

Description (GT-R certified NISSAN dealer)

INFOID:000000003853788

When the combination meter receives the signal of the malfunction via CAN communication from the low tire pressure warning control unit, it displays a message on the information display and warns the driver of the tire pressure and the Tire Pressure Monitoring System (TPMS) status.



Condition	Information display
Ignition switch OFF.	Nothing displayed.
Tire pressure is low. Tire pressure is 150 kPa (1.5 kg/cm <sup>2</sup> , 22 psi) or less	 JSE1A0030ZZ
Tire is flat. Tire pressure is 70 kPa (0.7 kg/cm <sup>2</sup> , 10 psi) or less	 JSE1A0031ZZ
Tire Pressure Monitoring System (TPMS) malfunction	 JSE1A0032ZZ

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:000000003853789

### 1. CHECK LOW TIRE PRESSURE WARNING LAMP

Check the low tire pressure warning lamp. Refer to [WT-46. "Diagnosis Procedure \(GT-R certified NISSAN dealer\)"](#).

Is the inspection result normal?

- YES >> Replace the combination meter. Refer to [MWI-128. "Exploded View"](#).
- NO >> Replace the low tire pressure warning control unit. Refer to [WT-71. "Exploded View \(GT-R certified NISSAN dealer\)"](#).

## NORMAL OPERATING CONDITION

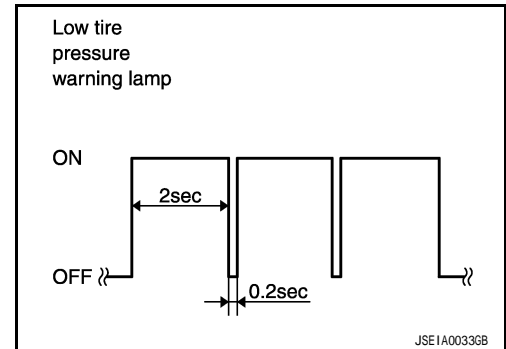
< SYMPTOM DIAGNOSIS >

### NORMAL OPERATING CONDITION

Description (GT-R certified NISSAN dealer)

INFOID:000000003853790

If the low tire pressure warning lamp blinks as shown in the figure after the ignition switch is turned ON, the transmitter is not waked up. Perform the transmitter wake-up operation. Refer to [WT-6, "TRANSMITTER WAKE UP OPERATION : Transmitter Wake-up Procedure"](#).



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# NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

## NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

### NVH Troubleshooting Chart

INFOID:000000004171603

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

Symptom		Possible cause and SUSPECTED PARTS																Reference page	
		Improper installation, looseness	Out-of-round	unbalance	Incorrect tire pressure	Uneven tire wear	Deformation or damage	Non-uniformity	Incorrect tire size	PROPELLER SHAFT	DIFFERENTIAL	FRONT AXLE AND FRONT SUSPENSION	REAR AXLE AND REAR SUSPENSION	TIRES	ROAD WHEELS	DRIVE SHAFT	BRAKE	STEERING	
TIRES	Noise	x	x	x	x	x	x	x		x	x	x	x		x	x	x	x	FSU-6, FSU-10
	Shake	x	x	x	x	x	x		x	x	x	x		x	x	x	x	x	—
	Vibration				x				x	x	x	x							XX-XX, *****
	Shimmy	x	x	x	x	x	x	x	x		x	x			x		x	x	WT-75, "Tire"
	Judder	x	x	x	x	x	x		x		x	x			x		x	x	XX-XX, *****
	Poor quality ride or handling	x	x	x	x	x	x		x			x		x	x				—
																			—
ROAD WHEEL	Noise	x	x	x			x			x	x	x	x	x		x	x	x	WT-75, "Tire"
	Shake	x	x	x			x			x		x	x	x		x	x	x	NVH in DLN section.
	Shimmy, Judder	x	x	x			x					x	x	x			x	x	NVH in DLN section.
	Poor quality ride or handling	x	x	x			x					x	x	x					NVH in FAX and FSU sections.
																			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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# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

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

INFOID:000000004154392

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

#### **WARNING:**

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIRBAG".**
- **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 for road wheel

INFOID:000000003853793

- Genuine NISSAN aluminum wheel is designed for each type of vehicle. Use it on the specified vehicle only.
- Use Genuine NISSAN parts for the wheel nuts and wheel lock nuts.
- Always use them after adjusting the wheel balance. For the balance weights, use Genuine NISSAN aluminum wheel weights.
- Use caution when handling the aluminum wheels, because they can be easily scratched. When removing dirt, do not use any abrasives, a wire brush, or other items that may scratch the coating. Use a neutral detergent if a detergent is needed.
- Never wash wheels in a high-speed car washing machine.
- After driving on roads scattered with anti-icing salts, wash off the wheels completely.
- Rewash the back of wheels when removing wheels for replacement of tires or when cleaning the underbody of the vehicle.
- Be careful of the oil that contacts bolt and nut threads, or the nut seat.
- Never run over sharp objects, and never run over or rub against sidewalks or curbstones while driving.
- Fill nitrogen gas into the tires.
- Never use power tools when working with the lock nuts.
- When tightening the wheel nuts, tighten when the wheel is cold and tighten to the specified torque.
- When installing road wheels onto the vehicle, always wipe off any dirt or foreign substances to prevent them from being trapped between the contact surfaces of the brake rotor and wheel.
- Only if a snapping sound is heard from the road wheel when driving while the road wheel is cold, clean the surfaces where the road wheel and brake rotor contact each other and tighten them (when cold) to a wheel nut tightening torque of 147.1 N·m (15 kg-m, 109 ft-lb).
- When assembling the tire and wheel assembly, if the red mark on the tire sidewall is identifiable, tighten the wheel nuts so that the red mark faces up.
- If tire wear is uneven, explain the circumstances to the customer and obtain the customer's approval, then adjust the wheel alignment.
- When installing or removing the road wheels to from the vehicle, be careful of scratches due to contact between the road wheels and the hub bolts, brake calipers, brake rotors, brake tubes, brake hoses, or other parts.
- When changing the tires, please recommend the users to change all 4 tires as a set, and always perform ID registration.
- Set the nitrogen gas pressure (for both summer tires and all season tires) as follows:  
Front tire: 200 kPa (2.0 kg/cm<sup>2</sup>, 29 psi)  
Rear tire: 200 kPa (2.0 kg/cm<sup>2</sup>, 29 psi)

# PRECAUTIONS

< PRECAUTION >

## Service Notice or Precautions

INFOID:000000004176533

- Low tire pressure warning lamp blinks for 1min, then turns ON when occurring any malfunction except low tire pressure. Delete the memory with CONSULT-III, or register the ID to turn low tire pressure warning lamp OFF.
- ID registration is required when replacing or rotating wheels, replacing transmitter or low tire pressure warning control unit.
- Replace grommet seal, valve core and cap of transmitter in TPMS, when replacing each tire by reaching the wear limit.

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# PREPARATION

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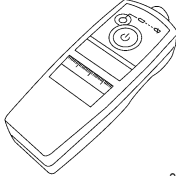
## PREPARATION

### PREPARATION

#### Special Service Tool

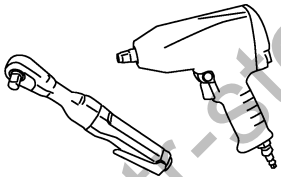
INFOID:000000004001187

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
— (J-45295) Transmitter activation tool  SEIA0462E	ID registration

#### Commercial Service Tool

INFOID:000000004001188

Tool name	Description
Power tool  PBIC0190E	Loosening wheel nuts

# TPMS CONTROL UNIT

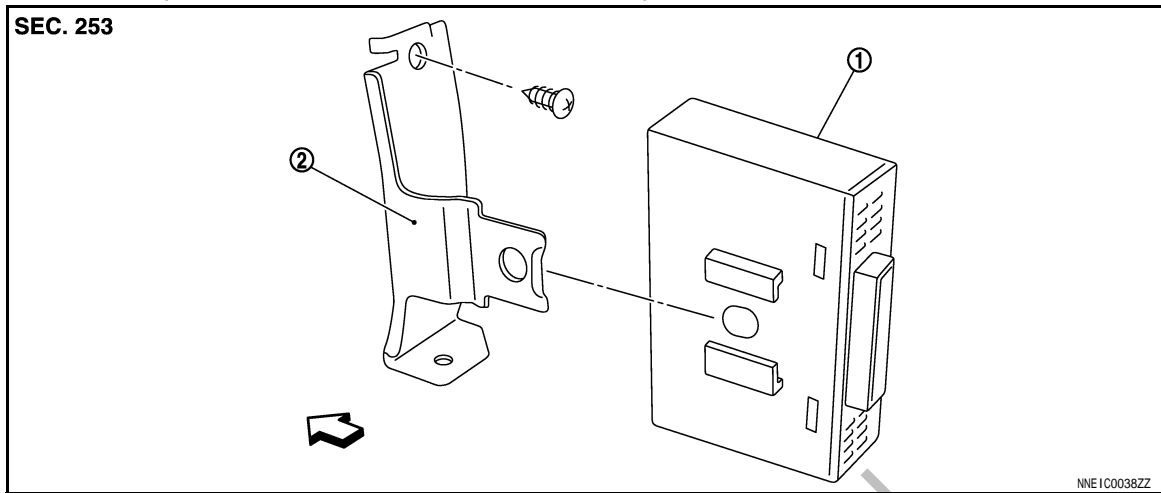
< ON-VEHICLE REPAIR >

## ON-VEHICLE REPAIR

### TPMS CONTROL UNIT

Exploded View (GT-R certified NISSAN dealer)

INFOID:000000003853795



1. Low tire pressure warning control unit 2. Bracket

←: Vehicle front

### Removal and Installation (GT-R certified NISSAN dealer)

INFOID:000000003853796

#### REMOVAL

1. Remove the instrument lower panel LH. Refer to [IP-11, "Exploded View"](#).
2. Remove instrument pad B.
3. Remove the mounting screw for the low tire pressure warning control unit.
4. Disconnect the low tire pressure warning control unit harness connector.
5. Remove the low tire pressure warning control unit.

#### INSTALLATION

Note the following, and install in the reverse order of removal.

- Perform ID registration after replacing low tire pressure warning control unit. Refer to [WT-7, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure"](#).

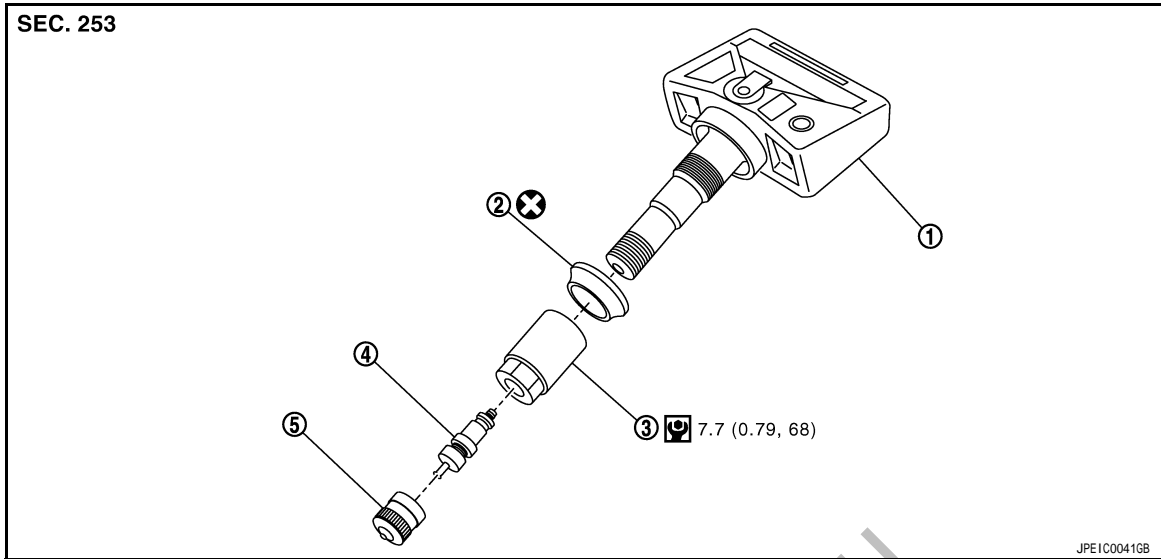
# TRANSMITTER

< ON-VEHICLE REPAIR >

## TRANSMITTER

### Exploded View

INFOID:000000004001189



- |                |                 |              |
|----------------|-----------------|--------------|
| 1. Transmitter | 2. Grommet seal | 3. Valve nut |
| 4. Valve core  | 5. Cap          |              |

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



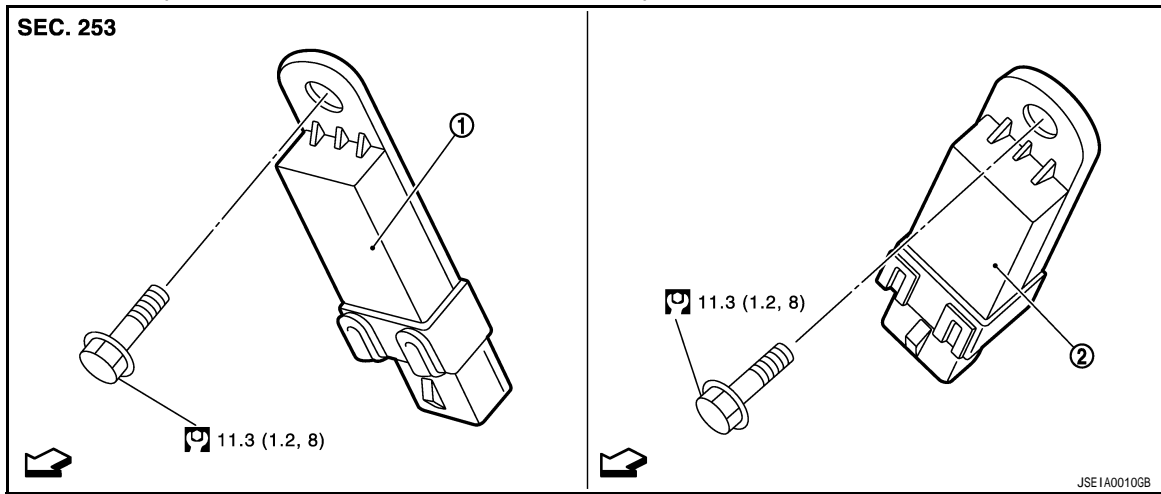
# TIRE PRESSURE RECEIVER

< ON-VEHICLE REPAIR >

## TIRE PRESSURE RECEIVER

Exploded View (GT-R certified NISSAN dealer)

INFOID:000000003853797



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

← Vehicle front

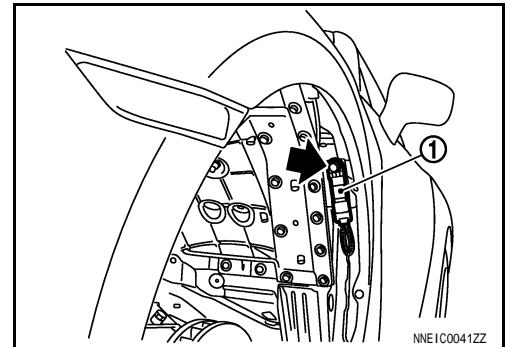
## FRONT TIRE PRESSURE RECEIVER

FRONT TIRE PRESSURE RECEIVER : Removal and Installation (GT-R certified NISSAN dealer)

INFOID:000000003853798

### REMOVAL

1. Remove the fender protector (rear). Refer to [EXT-28. "FENDER PROTECTOR : Exploded View"](#).
2. Remove the mounting bolt (←) for the front tire pressure receiver (1).
3. Disconnect the harness connector for the front tire pressure receiver.
4. Remove the front tire pressure receiver.



### INSTALLATION

Note the following, and install in the reverse order of removal.

## REAR TIRE PRESSURE RECEIVER

REAR TIRE PRESSURE RECEIVER : Removal and Installation (GT-R certified NISSAN dealer)

INFOID:000000003853799

### REMOVAL

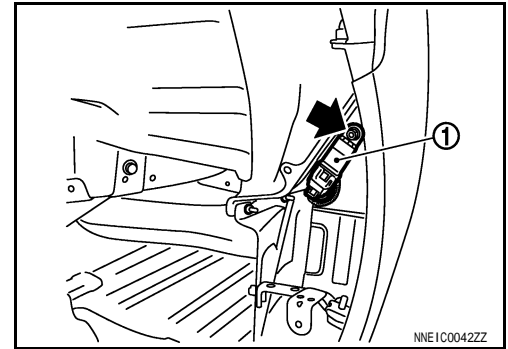
1. Remove the rear wheel well protector. Refer to [EXT-30. "REAR WHEEL HOUSE PROTECTOR : Exploded View"](#).

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## TIRE PRESSURE RECEIVER

### < ON-VEHICLE REPAIR >

2. Remove the mounting bolt (←) for the rear tire pressure receiver (1).
3. Disconnect the harness connector for the rear tire pressure receiver.
4. Remove the rear tire pressure receiver.



### INSTALLATION

Note the following, and install in the reverse order of removal.

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# SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

Road Nut

INFOID:000000003853800

WHEEL NUT

Item	Standard
Wheel nut tightening torque	132 N·m (13 kg-m, 97 ft-lb)

Tire

INFOID:000000003853801

### INTERNAL PRESSURE OF TIRES

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

Item	Standard	
	Front	Rear
255/40ZRF20 (97Y)	200 (2.0, 29)	—
285/35ZRF20 (100Y)	—	200 (2.0, 29)
255/40RF20 (97Y)	200 (2.0, 29)	—
285/35RF20 (100Y)	—	200 (2.0, 29)

#### CAUTION:

- Fill with nitrogen gas.
- Adjust the tire pressure to the value listed above at normal temperature.

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