SECTION WT
ROAD WHEELS & TIRES

CONTENTS

HOW TO USE THIS MANUAL

APPLICATION NOTICE

How to Check Vehicle Type

INFOID:0000000011734838

Check the vehicle type to confirm the service information.

Service information	Grade
EXCEPT NISMO	• GTR Black edition • GTR Premium edition • GTR Track edition
NISMO	• GTR N-Package • GTR NISMO

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow (GT-R certified NISSAN dealer)

INFOID:0000000011486791

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.BASIC INSPECTION

1. Turn the ignition switch ON.
   CAUTION:
   Never start the engine.
2. Check the tire pressure for all wheels and adjust to the specified value. Refer to WT-81, "Tire".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Inspect or repair the tires or wheels.

3.CHECK LOW TIRE PRESSURE WARNING LAMP

Check low tire pressure warning lamp display.

Does not low tire pressure warning lamp turn OFF?

YES >> GO TO 4.
NO >> GO TO 5.

4.PERFORM THE SELF-DIAGNOSIS

With CONSULT

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

Any is DTC detected in the diagnosis results?

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

INSPECTION AND ADJUSTMENT
TRANSMITTER WAKE UP OPERATION

TRANSMITTER WAKE UP OPERATION : Description

INFOID:0000000011486792

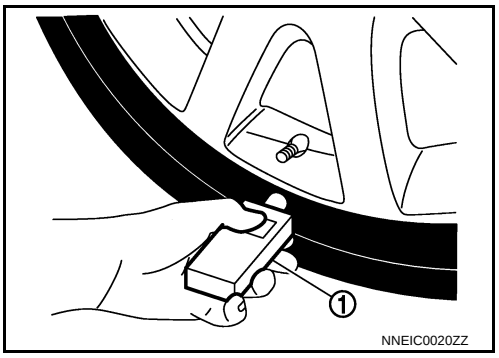
If the transmitter or low tire pressure warning control unit is replaced, always perform the transmitter wake-up procedure. Refer to WT-7, "TRANSMITTER WAKE UP OPERATION : Transmitter Wake-up Procedure".

TRANSMITTER WAKE UP OPERATION : Transmitter Wake-up Procedure

INFOID:0000000011486793

1. TRANSMITTER WAKE-UP PROCEDURE

1. Turn the ignition switch ON.
2. Contact the transmitter activation tool (J-50190 or J-45295-A) (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, b — a : 0.3 sec. b : 1.0 sec.	Front LH
ON / OFF — a, a, a, b — a : 0.3 sec. b : 1.0 sec.	Front RH
ON / OFF — a, a, a, a, b — a : 0.3 sec. b : 1.0 sec.	Rear RH
ON / OFF — a, a, a, a, a, a, b — a : 0.3 sec. b : 1.0 sec.	Rear LH
ON / OFF — a, b — a : 2 sec. b : 0.2 sec.	All tires

JPEIC0089GB

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 : Description".

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:0000000011486794

If the transmitter or low tire pressure warning control unit is replaced, always perform the transmitter ID registration. Refer to WT-8, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure".

ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure

INFOID:0000000011486795

1. TRANSMITTER ID REGISTRATION PROCEDURE

CAUTION:

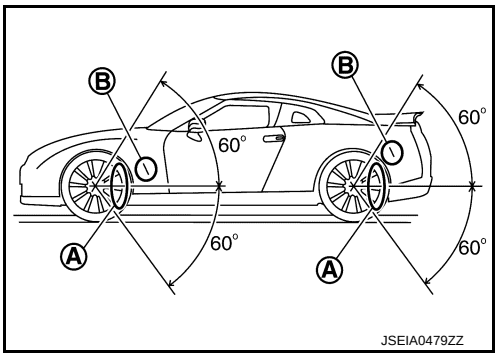
To perform ID registration, observe the following points:

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

With CONSULT

1. Turn the ignition switch ON.
2. Display the “WORK SUPPORT” screen and select “ID REGIST”.
3. Select the start button on the “ID REGIST” screen.
4. Position transmitter within the range (A) to register ID.

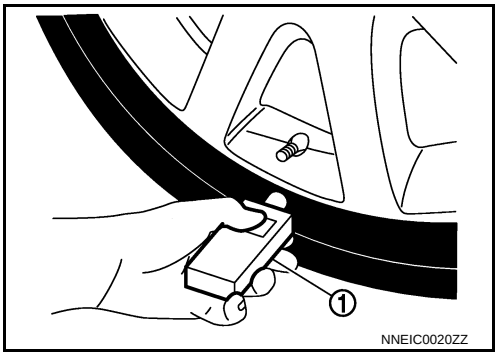
B : Position receiver



5. Press the transmitter activation tool (J-50190 or J-45295-A) (1) against the side of the tire at the location closest to the transmitter.
6. 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.



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

Sequence	ID registration position	Turn signal lamp	CONSULT
1	Front left wheel	2 blinks	“Red” ↓ “Green”
2	Front right wheel		
3	Rear right wheel		
4	Rear left wheel		

8. After the ID registration procedure for all wheels is completed, press “END” to end ID registration, and check that ID registration for all wheels is completed.

Is the check result normal?

YES >> ID registration END.

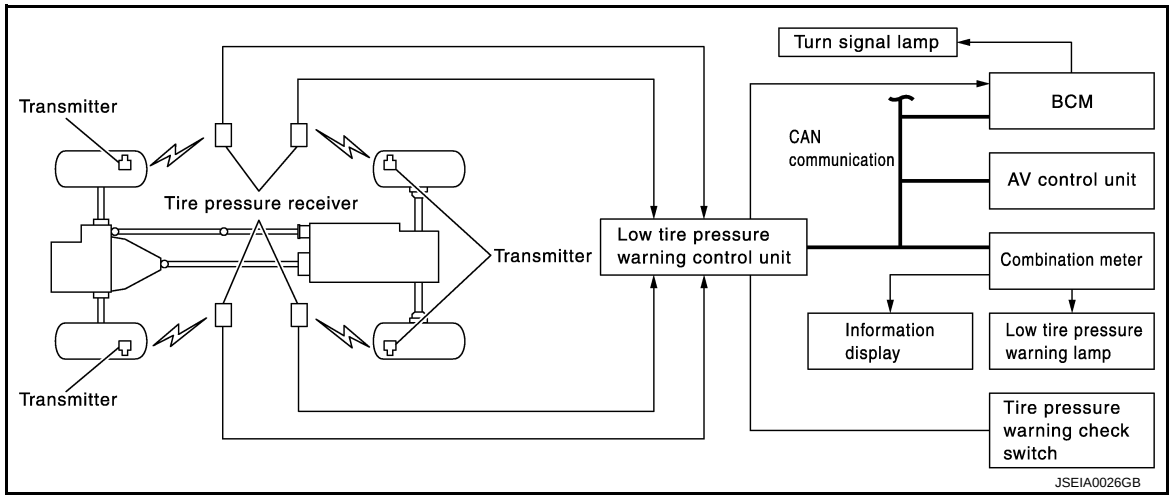
NO >> Refer to WT-64, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

SYSTEM DESCRIPTION

TPMS

System Diagram (GT-R certified NISSAN dealer)

INFOID:0000000011486796



System Description (GT-R certified NISSAN dealer)

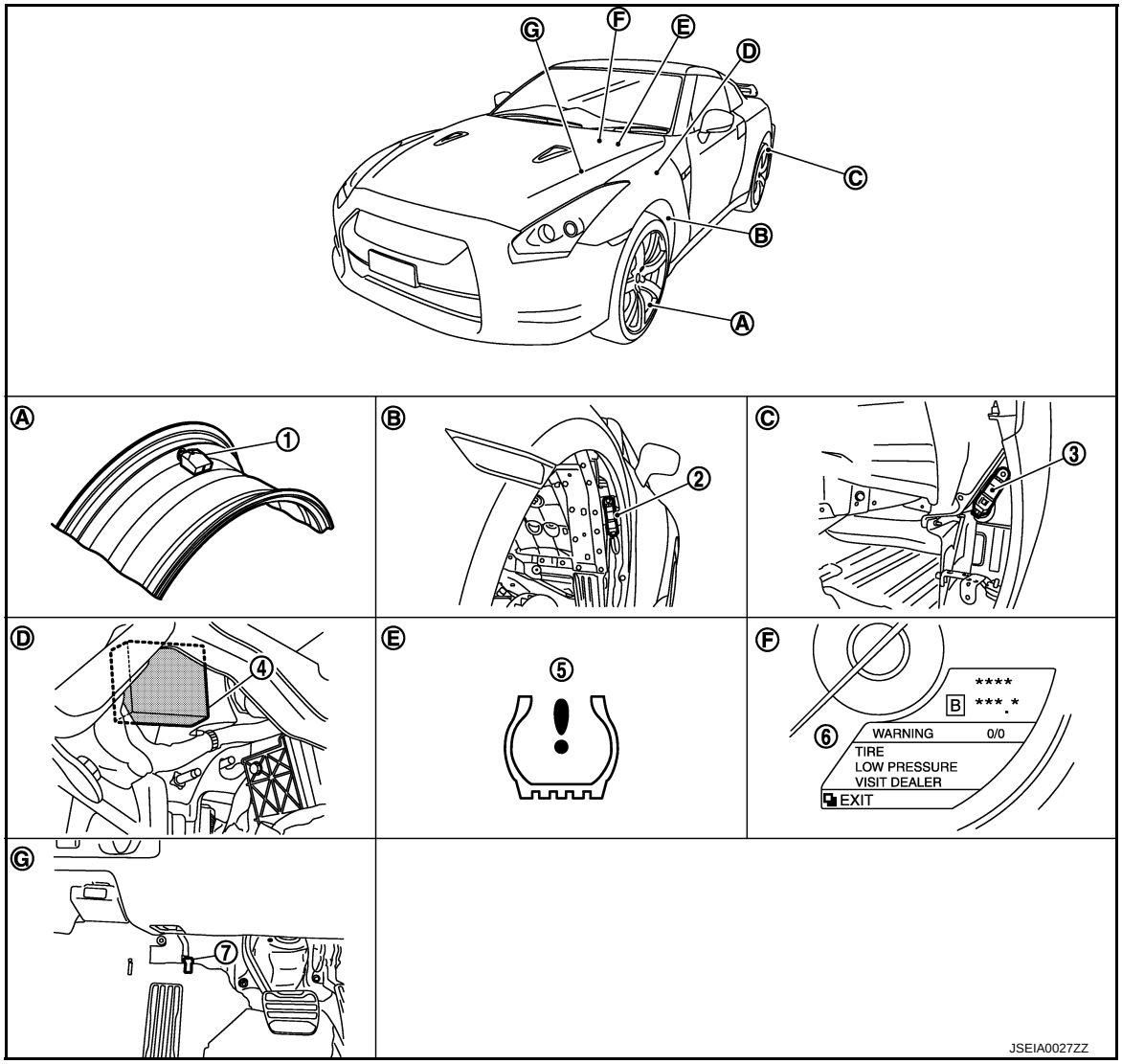
INFOID:0000000011486797

- 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	The following primary signals are transmitted to the BCM via CAN communication. • Low tire pressure warning lamp signal • Run-flat tire warning display signal • Buzzer request signal The following primary signals are transmitted to the combination meter via CAN communication. • Tire pressure monitoring system warning display signal • Low tire pressure warning display signal
BCM	The following primary signals are transmitted to the combination meter via CAN communication. • Low tire pressure warning lamp signal • Run-flat tire warning display signal • Buzzer request signal
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:0000000011486798



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:0000000011486799

Component	Function
Transmitter	WT-15, "Description (GT-R certified NISSAN dealer)"
Tire pressure receiver	WT-31, "Description (GT-R certified NISSAN dealer)"
Low tire pressure warning control unit	WT-33, "Description (GT-R certified NISSAN dealer)"
Tire pressure warning check switch	WT-42, "Description (GT-R certified NISSAN dealer)"
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.

Component	Function
Low tire pressure warning lamp	• Illuminates if the tire pressure is low. • Illuminates simultaneously the buzzer sounds when a flat tire occurs. • Blinks and stays illuminated when an electrical malfunction is detected in the Tire Pressure Monitoring System (TPMS).
Vehicle information display	WT-65, "Description (GT-R certified NISSAN dealer)"

DIAGNOSIS SYSTEM (LOW TIRE PRESSURE WARNING CONTROL UNIT)

Diagnosis Description (GT-R certified NISSAN dealer)

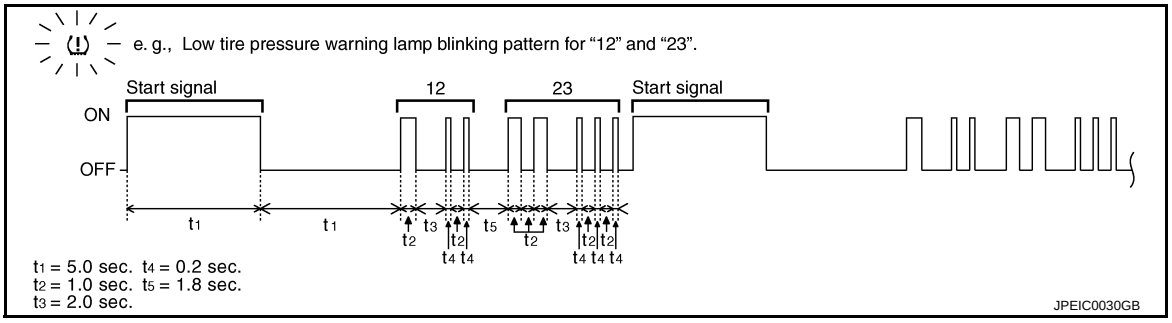
INFOID:0000000011486800

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^2, 10 psi) or less	WT-29
7	Flat tire (Front RH)	Front right wheel pressure is 70 kPa (0.7 kg/cm^2, 10 psi) or less	
8	Flat tire (Rear RH)	Rear right wheel pressure is 70 kPa (0.7 kg/cm^2, 10 psi) or less	
9	Flat tire (Rear LH)	Rear left wheel pressure is 70 kPa (0.7 kg/cm^2, 10 psi) or less	
15	Low tire pressure (Front LH)	Front left wheel pressure is or less 180 kPa (1.8 kg/cm^2, 26 psi)	WT-15
16	Low tire pressure (Front RH)	Front right wheel pressure is or less 180 kPa (1.8 kg/cm^2, 26 psi)	
17	Low tire pressure (Rear RH)	Rear right wheel pressure is or less 180 kPa (1.8 kg/cm^2, 26 psi)	
18	Low tire pressure (Rear LH)	Rear left wheel pressure is or less 180 kPa (1.8 kg/cm^2, 26 psi)	
21	Transmitter no data (Front LH)	Tire pressure data signal from the front left wheel transmitter cannot be detected.	WT-17
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.	

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.	WT-21
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.	WT-23
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.	WT-27
52	Vehicle speed signal malfunction	Vehicle speed signal not detected.	WT-28
54	EEPROM read error	Tire Pressure Monitoring System (TPMS) malfunction in the low tire pressure warning control unit occurs	WT-33
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.)	WT-36
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.	WT-38, WT-39

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 Function (GT-R certified NISSAN dealer)

INFOID:0000000011486801

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 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.

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 : Description".

SELF-DIAGNOSTIC RESULT

Operation Procedure

Turn the ignition switch ON.

CAUTION:

Never start the engine.

Display Item List

Refer to WT-54, "DTC Index".

DATA MONITOR

Display Item List

NOTE:

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

Monitor item (Unit)	Remarks
VHCL SPEED SE (km/h) or (MPH)	Vehicle speed
AIR PRESS FL (kPa) 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 • The system is normal	Check that the buzzer operates correctly.
WARNING LAMP		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.

DTC/CIRCUIT DIAGNOSIS

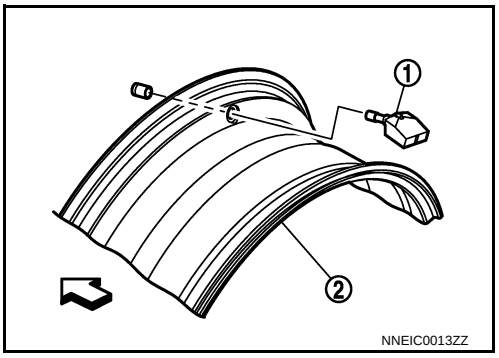
C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486802

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:0000000011486803

DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1704	LOW PRESSURE FL	Front left wheel pressure is or less 180 kPa (1.8 kg/cm^2, 26 psi)	Low tire pressure
C1705	LOW PRESSURE FR	Front right wheel pressure is or less 180 kPa (1.8 kg/cm^2, 26 psi)	
C1706	LOW PRESSURE RR	Rear right wheel pressure is or less 180 kPa (1.8 kg/cm^2, 26 psi)	
C1707	LOW PRESSURE RL	Rear left wheel pressure is or less 180 kPa (1.8 kg/cm^2, 26 psi)	

NOTE:

- Specified tire pressure = Front: 210 kPa (2.1 kg/cm^2, 30 psi), Rear: 200 kPa (2.0 kg/cm^2, 29 psi)
- DTC may be detected depending on a tire pressure change caused by a seasonal air temperature change.
- The low tire pressure warning lamp may be OFF due to an increase in tire internal temperature, resulted from driving.

DTC REPRODUCTION PROCEDURE

1. DTC REPRODUCTION PROCEDURE

With CONSULT

1. Turn the ignition switch ON.
   CAUTION:
   Never start the engine.
2. Check the tire pressure for all wheels and adjust to the specified value. Refer to WT-81, "Tire".
3. 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:0000000011486804

1. CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to WT-81, "Tire".

Is the inspection result normal?

YES >> GO TO 2.
NO >> After adjusting the tire pressure, GO TO 3.

2. TRANSMITTER ID REGISTRATION

Perform transmitter ID registration. Refer to WT-7, "ID REGISTRATION PROCEDURE : Description".

Is transmitter ID registration completed?

YES >> Perform “DTC REPRODUCTION PROCEDURE” (self-diagnosis) again. Refer to WT-15, "DTC Logic (GT-R certified NISSAN dealer)".
NO >> Refer to WT-64, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

3. CHECK TIRE PRESSURE SIGNAL

With CONSULT
1. Select “DATA MONITOR” to display the tire pressure for all wheels.
2. Check that the tire pressures match the standard value.

Monitor item	Condition
AIR PRESS FL	Approximately equal to the indication on tire gauge value for each 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.

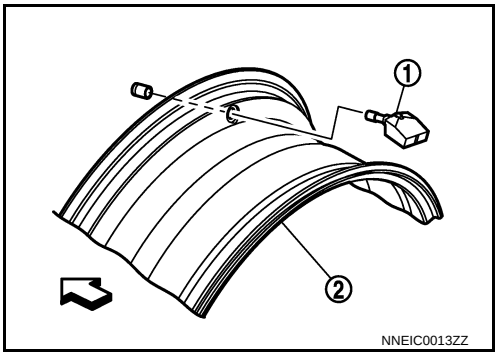
C1708, C1709, C1710, C1711 TRANSMITTER (NO DATA)

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486805

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:0000000011486806

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.	• Harness or connector connection malfunction (Tire pressure receiver, low tire pressure warning control unit) • Transmitter ID registration incomplete • Transmitter error • Low transmitter battery voltage
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. TRANSMITTER ID REGISTRATION

Perform transmitter ID registration. Refer to WT-7, "ID REGISTRATION PROCEDURE : Description".

>> GO TO 2.

2. DTC REPRODUCTION PROCEDURE

With CONSULT
1. Drive for 40 km/h (25 MPH) or more, then drive normally for total 10 minutes.
2. 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:0000000011486807

1. CHECK TIRE PRESSURE SIGNAL

With CONSULT
Check the values that are displayed for “AIR PRESS FL”, “AIR PRESS FR”, “AIR PRESS RR”, and “AIR PRESS RL”.

CAUTION:
After performing “DTC REPRODUCTION PROCEDURE”, check Data monitor with the ignition switch ON.

Are all tire pressures displayed 0 kPa (psi)?

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 (SENSITIVITY) 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 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		

CHECK RECEIVER SIGNAL (SENSITIVITY) CIRCUIT

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

CHECK RECEIVER SIGNAL 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 : Description".

Is transmitter ID registration been completed?

YES >> GO TO 5.
NO >> Replace the transmitter.

5.CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT

With CONSULT

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

2. Within 15 minutes, use CONSULT “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 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for total 10 minutes.	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:0000000011486808

1.CHECK TIRE PRESSURE

Check the internal tire pressure of all wheels. Refer to WT-81, "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 : Description".

>> END

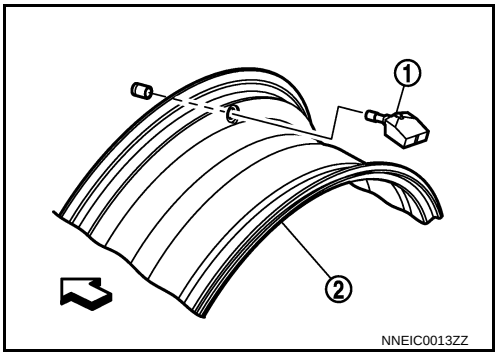
C1716, C1717, C1718, C1719 TRANSMITTER (PRESSDATA)

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486809

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:0000000011486810

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.	• Transmitter ID registration incomplete • Transmitter malfunction
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
1. Turn the ignition switch ON.
   CAUTION:
   Never start the engine.
2. Check the tire pressure for all wheels and adjust to the specified value. Refer to WT-81, "Tire".
   CAUTION:
   If the tire pressure before adjustment is close to the standard, reduce the tire pressure, and then with the ignition switch ON, adjust the tire pressure again so that it is within the standard.
3. 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:0000000011486811

1. CHECK TIRE PRESSURE SIGNAL

With CONSULT
1. Check and adjust the tire pressure for all wheels. Refer to WT-81, "Tire".
2. Perform transmitter ID registration for all wheels. Refer to WT-7, "ID REGISTRATION PROCEDURE : Description".
3. Within 15 minutes use the CONSULT “DATA MONITOR” to read the tire pressure for all wheels.

Which tire pressures is displayed as 438.60 kPa (4.47 kg/cm2, 63.60 psi)?

YES >> Replace transmitter the tire pressure as 438.60 kPa (4.47 kg/cm2, 63.60 psi) displayed. Refer to WT-78, "Exploded View".
NO >> Perform “DTC REPRODUCTION PROCEDURE” (self-diagnosis) again. Refer to WT-21, "DTC Logic (GT-R certified NISSAN dealer)".

Special Repair Requirement (GT-R certified NISSAN dealer)

INFOID:0000000011486812

1.CHECK TIRE PRESSURE

Check the internal tire pressure of all wheels. Refer to WT-81, "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 : Description".

>> END

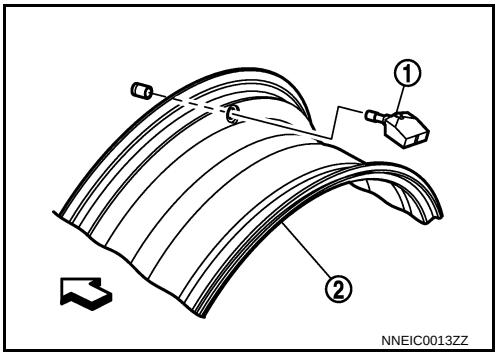
C1720, C1721, C1722, C1723 TRANSMITTER

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486813

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:0000000011486814

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.	• Tire pressure receiver malfunction • Transmitter malfunction • Low tire pressure warning control unit malfunction
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
1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for total 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:0000000011486815

1.CHECK TIRE PRESSURE SIGNAL

With CONSULT
1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for total 10 minutes.
2. Within 5 minutes, select “DATA MONITOR” for the CONSULT “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 total 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?

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 (SENSITIVITY) 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 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		

CHECK RECEIVER SIGNAL (SENSITIVITY) CIRCUIT

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

CHECK RECEIVER SIGNAL 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-33, "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 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for total 10 minutes.
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 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for total 10 minutes.	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.

Special Repair Requirement (GT-R certified NISSAN dealer)

INFOID:0000000011486816

1.CHECK TIRE PRESSURE

Check the internal tire pressure of all wheels. Refer to WT-81, "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 : Description".

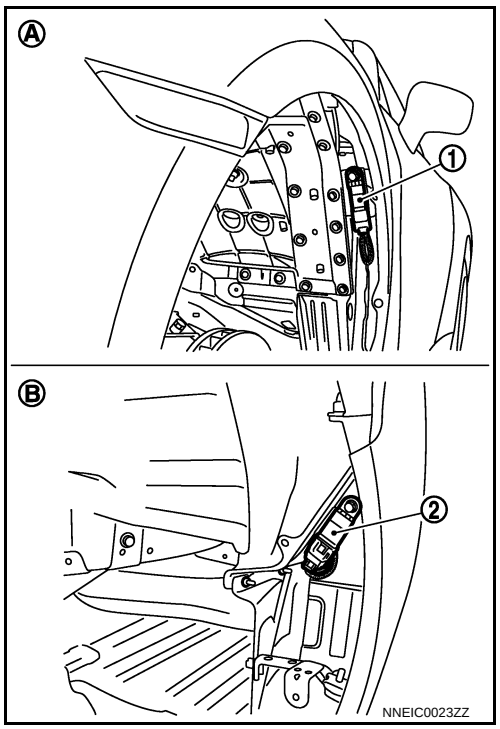
>> END

C1728 RECEIVER ID

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486817

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:0000000011486818

DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1728	RECEIVER ID NO REG	ID registration is not completed.	ID registration incomplete

DTC REPRODUCTION PROCEDURE

1. DTC REPRODUCTION PROCEDURE

With CONSULT

1. Turn the ignition switch ON.
   CAUTION:
   Never start the engine.
2. 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:0000000011486819

1. TRANSMITTER ID REGISTRATION

Perform transmitter ID registration. Refer to WT-7, "ID REGISTRATION PROCEDURE : Description".

Is transmitter ID registration completed?

YES >> Perform “DTC REPRODUCTION PROCEDURE” (self-diagnosis) again. Refer to WT-27, "DTC Logic (GT-R certified NISSAN dealer)".

NO >> Refer to WT-64, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

C1729 VEHICLE SPEED SIG ERR

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486820

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:0000000011486821

DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1729	VHCL SPEED SIG ERR	Vehicle speed signal not detected.	• CAN communication malfunction • Low tire pressure warning control unit malfunction • ABS actuator and electric unit (control unit) malfunction

DTC REPRODUCTION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

With CONSULT
1. Drive 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-28, "Diagnosis Procedure (GT-R certified NISSAN dealer)".
NO >> INSPECTION END

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486822

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

With CONSULT
Perform self-diagnosis of the ABS actuator and electric unit (control unit). Refer to BRC-34, "CONSULT Function (GT-R certified NISSAN dealer)".

Is DTC detected?

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

2.PERFORM THE SELF-DIAGNOSIS

With CONSULT
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
Use CONSULT “DATA MONITOR” to check the input/output values. Refer to WT-46, "Reference Value (GT-R certified NISSAN dealer)".

Is the inspection result normal?

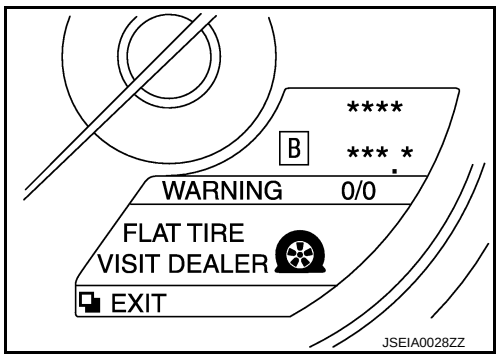
YES >> Check pin terminal and connection of each harness connector for malfunctioning conditions.
NO >> Replace the low tire pressure warning control unit.

C1730, C1731, C1732, C1733 FLAT TIRE

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486823

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:0000000011486824

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^2, 10 psi) or less	Low tire pressure
C1731	FLAT TIRE FR	Front right wheel pressure is 70 kPa (0.7 kg/cm^2, 10 psi) or less	
C1732	FLAT TIRE RR	Rear right wheel pressure is 70 kPa (0.7 kg/cm^2, 10 psi) or less	
C1733	FLAT TIRE RL	Rear left wheel pressure is 70 kPa (0.7 kg/cm^2, 10 psi) or less	

NOTE:

Specified tire pressure = Front: 210 kPa (2.1 kg/cm^2, 30 psi), Rear: 200 kPa (2.0 kg/cm^2, 29 psi)

DTC REPRODUCTION PROCEDURE

1.CHECK DTC DETECTION

With CONSULT

1. Turn the ignition switch ON.
   CAUTION:
   Never start the engine.
2. Check the tire pressure for all wheels and adjust to the specified value. Refer to WT-81, "Tire".
3. 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-29, "Diagnosis Procedure (GT-R certified NISSAN dealer)".
NO >> INSPECTION END

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486825

1.CHECK TIRE PRESSURE

Check the for pressure of all wheels. Refer to WT-81, "Tire".

Is the inspection result normal?

YES >> GO TO 2.
NO >> After adjusting the tire pressure, GO TO 3.

2.TRANSMITTER ID REGISTRATION

Perform transmitter ID registration. Refer to WT-7, "ID REGISTRATION PROCEDURE : Description".

Is transmitter ID registration completed?

YES >> Perform “DTC REPRODUCTION PROCEDURE” (self-diagnosis) again. Refer to WT-29, "DTC Logic (GT-R certified NISSAN dealer)".
NO >> Refer to WT-64, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

3.ADJUST TIRE PRESSURE

Check and adjust the tire pressure for all wheels specified to the value. Refer to WT-81, "Tire".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Check or replace the road wheels and tires, and adjust the tire pressures.

4.CHECK TIRE PR0ESSURE SIGNAL

With CONSULT
1. Select “DATA MONITOR” to display the tire pressure for all wheels.
2. Check that the tire pressure is the specified value.

Check items	Condition
AIR PRESS FL	Approximately equal to the indication on tire gauge value for each tires.
AIR PRESS FR	
AIR PRESS RR	
AIR PRESS RL	

Is the inspection result normal?

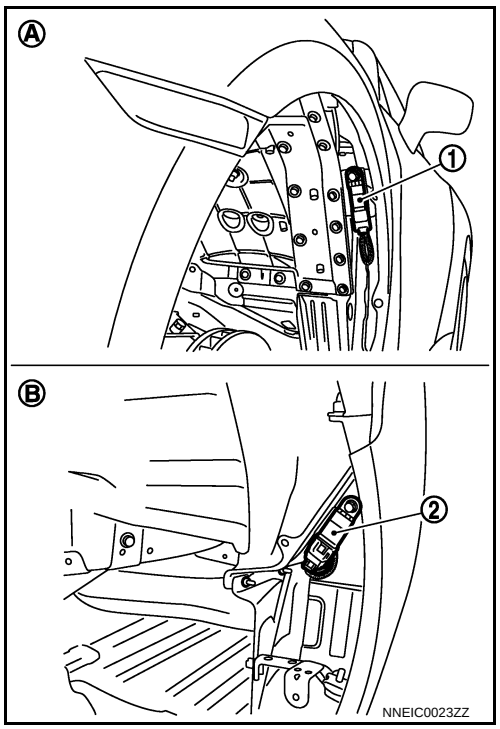
YES >> INSPECTION END
NO >> Repair or replace error-detected part.

C1750, C1751, C1752, C1753 RECEIVER

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486826

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:0000000011486827

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

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for total 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-31, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

NO >> INSPECTION END

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486828

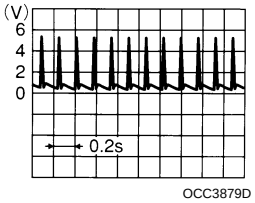
1.CHECK RECEIVER INPUT SIGNAL

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

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

Connector	Terminal	—	Condition	Standard
M14	6	Ground	Standby status	
	5			
	4			
	3			

Is the inspection result normal?

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

2.CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect the tire pressure receiver harness connector.
3. 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

1. Disconnect the low tire pressure warning control unit harness connector and tire pressure receiver 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
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

1. Exchange the front LH tire pressure receiver with the front RH tire pressure receiver.
2. Perform low tire pressure warning control unit self-diagnosis.

Is DTC “C1751” detected?

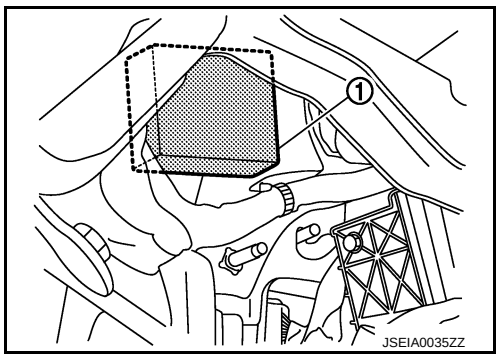
YES >> Replace the front RH tire pressure receiver.
NO >> Perform trouble diagnosis of the low tire pressure warning control unit. Refer to WT-33, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

C1754 LOW TIRE PRESSURE WARNING CONTROL UNIT

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486829

- 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:0000000011486830

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

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for total 10 minutes.
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-33, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

NO >> INSPECTION END

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486831

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.
- 10A fuse [No. 3 in fuse block (J/B)]
- Harness open circuit or short circuit between the ignition switch and harness connector terminal 15 of the low tire pressure warning control unit.
- Check battery voltage.

2.CHECK GROUND CIRCUIT

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

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.

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

With CONSULT
1. Perform transmitter ID registration for all wheels. Refer to WT-7, "ID REGISTRATION PROCEDURE : Description".
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:0000000011486832

1.CHECK TIRE PRESSURE

Check the internal tire pressure of all wheels. Refer to WT-81, "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 : Description".

>> END

C1755, C1756, C1757, C1758 POOR RECEIVING CONDITIONS

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486833

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:0000000011486834

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

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for total 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-36, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

NO >> INSPECTION END

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486835

1.REGISTER THE TRANSMITTER ID

Perform transmitter ID registration for all wheels. Refer to WT-7, "ID REGISTRATION PROCEDURE : Description".

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

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for total 10 minutes.
2. Within 5 minutes, select “DATA MONITOR” for the CONSULT “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 total 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
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
1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for total 10 minutes.
2. Within 5 minutes, select “DATA MONITOR” for the CONSULT “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 total 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

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486836

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:0000000011486837

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.	• CAN communication malfunction • Malfunction of low tire pressure warning control unit

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

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

Is DTC “U1000” detected?

YES >> Proceed to trouble diagnosis procedure. Refer to WT-38, "Diagnosis Procedure (GT-R certified NISSAN dealer)".
NO >> INSPECTION END

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486838

1.PERFORM SELF-DIAGNOSIS

With CONSULT
Perform low tire pressure warning control unit self-diagnosis.

Is DTC “U1000” detected?

YES >> CAN specification chart. Refer to LAN-15, "Trouble Diagnosis Flow Chart".
NO >> INSPECTION END

U1010 CONTROL UNIT (CAN)

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486839

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:0000000011486840

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

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

Is DTC “U1010” detected?

YES >> Proceed to trouble diagnosis procedure. Refer to WT-39, "Diagnosis Procedure (GT-R certified NISSAN dealer)".
NO >> INSPECTION END

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486841

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-77, "Exploded View (GT-R certified NISSAN dealer)".
NO >> Repair or replace error-detected parts.

POWER SUPPLY AND GROUND CIRCUIT

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486842

Supply power to the low tire pressure warning control unit.

Component Function Check (GT-R certified NISSAN dealer)

INFOID:0000000011486843

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-40, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486844

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 10A 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.

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.

TIRE PRESSURE WARNING CHECK SWITCH

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486845

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:0000000011486846

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-42, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486847

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-77, "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

Check the low tire pressure warning control unit input/output signal. Refer to WT-46, "Reference Value (GT-R certified NISSAN dealer)".

Is the inspection result normal?

YES >> INSPECTION END

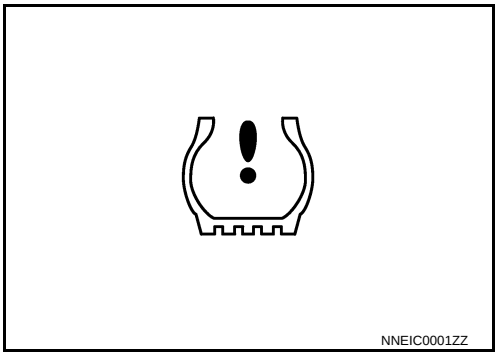
NO >> Check low tire pressure warning control unit pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damaged parts. Replace low tire pressure warning control unit. Refer to WT-77, "Exploded View (GT-R certified NISSAN dealer)".

LOW TIRE PRESSURE WARNING LAMP

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486848

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 180 kPa (1.8 kg/cm^2, 26 psi)* or less.]	ON
When tire is flat [Tire pressure is 70 kPa (0.7 kg/cm^2, 10 psi)* or less.]	
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:0000000011486849

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-44, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486850

1.POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit. Refer to WT-40, "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
Perform low tire pressure warning control unit self-diagnosis.

Is DTC “U1000” detected?

YES >> Perform trouble diagnosis for CAN communication system. Refer to WT-38, "Diagnosis Procedure (GT-R certified NISSAN dealer)".
NO >> GO TO 3.

3.CHECK LOW TIRE PRESSURE WARNING LAMP SIGNAL

With CONSULT

1. Turn the ignition switch ON.
   CAUTION:
   Never start the engine.
2. Select “DATA MONITOR” mode for “AIR PRESSURE MONITOR” with CONSULT.
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-77, "Exploded View (GT-R certified NISSAN dealer)".

4. CHECK COMBINATION METER POWER SUPPLY CIRCUIT

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.

ECU DIAGNOSIS INFORMATION

TPMS CONTROL UNIT

Reference Value (GT-R certified NISSAN dealer)

INFOID:0000000011486851

VALUES ON THE DIAGNOSIS TOOL

CAUTION:

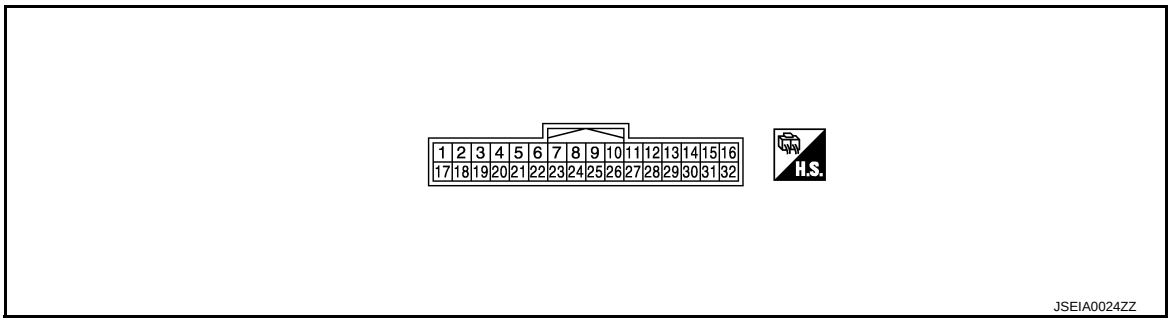
The reference values in the table below come from the control unit calculation data. The normal values may in some cases be displayed even though the power circuit (harness) is open or shorted.

NOTE:

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

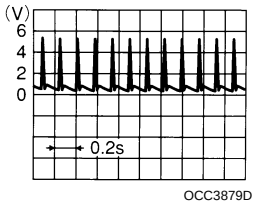
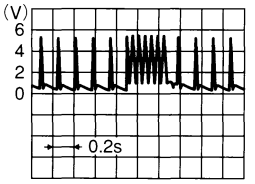
Monitor item	Data monitor	
	Condition	Reference values for normal operation
VHCL SPEED SE	Drive the vehicle.	Vehicle speed (km/h) or (MPH)
AIR PRESS FL	• Drive at a speed of 40 km/h (25 MPH) or more then drive normally for 10 minutes. • Turn the ignition switch ON and use the activation tool to transmit the registration signal.	Tire pressure (kPa) or (Psi)
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		
ID REGST FL1	Ignition switch ON	ID registered: Done ID not registered: Yet
ID REGST FR1		
ID REGST RR1		
ID REGST RL1		
WARNING LAMP		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)		CAN-H	—	—	—

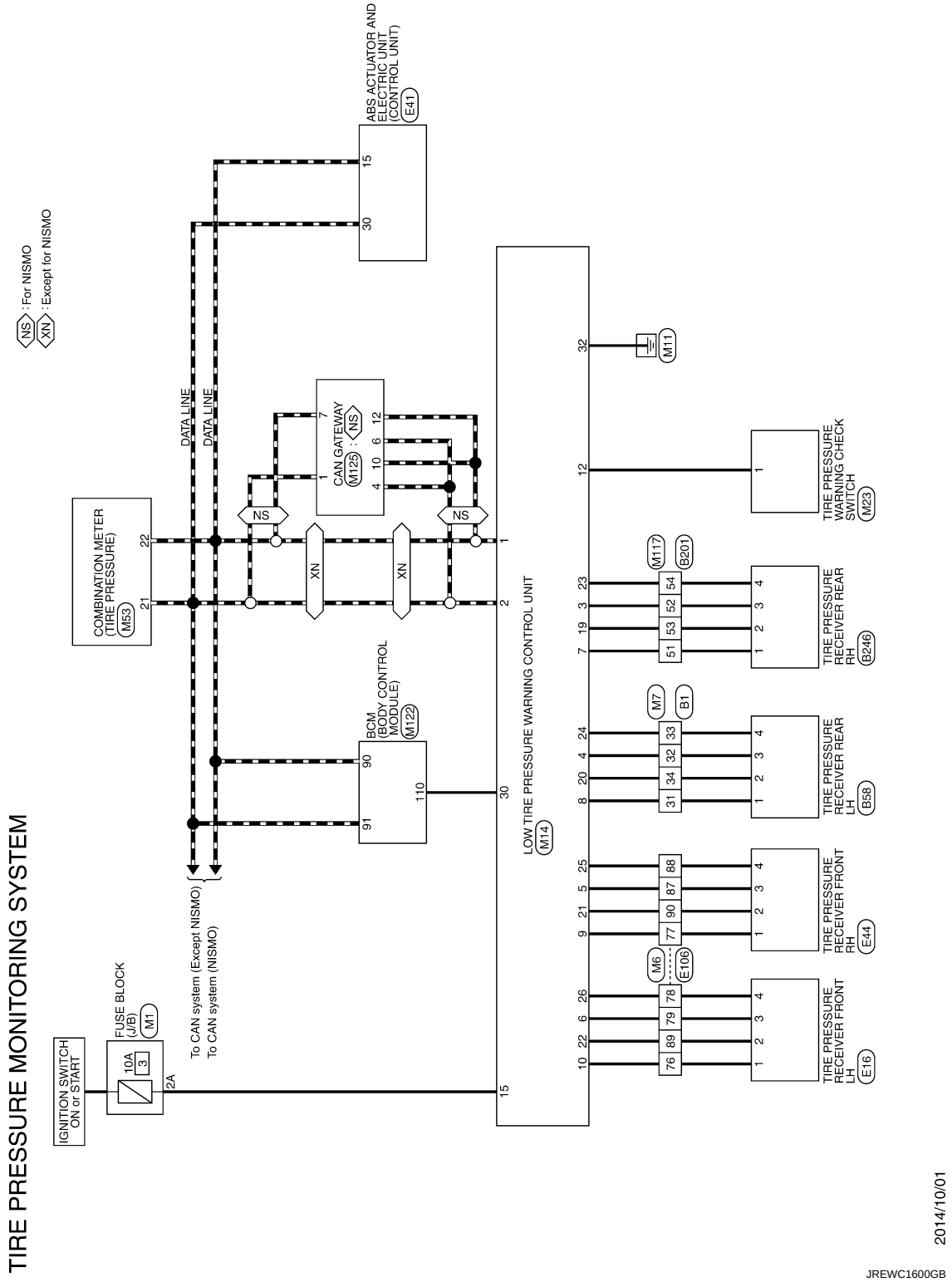
Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
3 (BG) 4 (L) 5 (R) 6 (W)	Ground	Tire pressure receiver signal	Input	Ignition switch ON	Stand by status (Approx. 4.5 V)	 OCC3879D
					When signal is received (Approx. 4.5 V)	 OCC3880D
7 (SB) 8 (GR) 9 (R) 10 (LG)	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.)	
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) 20 (BG) 21 (P) 22 (G)	Ground	Tire pressure receiver signal (sensitivity)	Input	Ignition switch ON	Approx. 0.7 V	
23 (GR) 24 (V) 25 (L) 26 (BR)	Ground	Tire pressure receiver ground	—	—	0 V	
30 (G)	Ground	Hazard lamp	Output	Hazard lamp switch ON	0 V	
				Hazard lamp switch OFF	Battery voltage	
32 (B)	Ground	Ground	—	—	0 V	

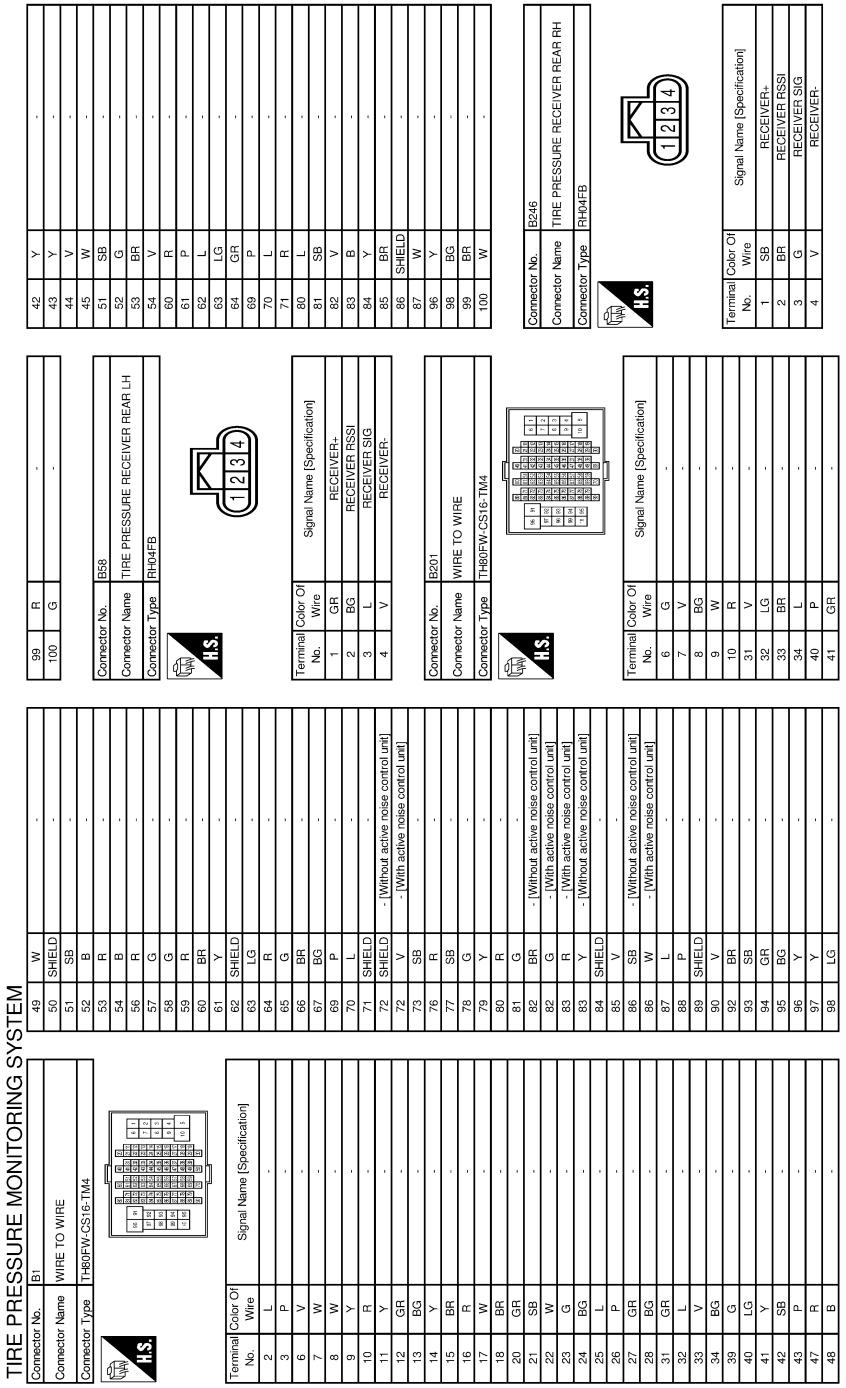
Wiring Diagram - TIRE PRESSURE MONITORING SYSTEM - (GT-R certified NISSAN

dealer)

INFOID:0000000011486852

TIRE PRESSURE MONITORING SYSTEM





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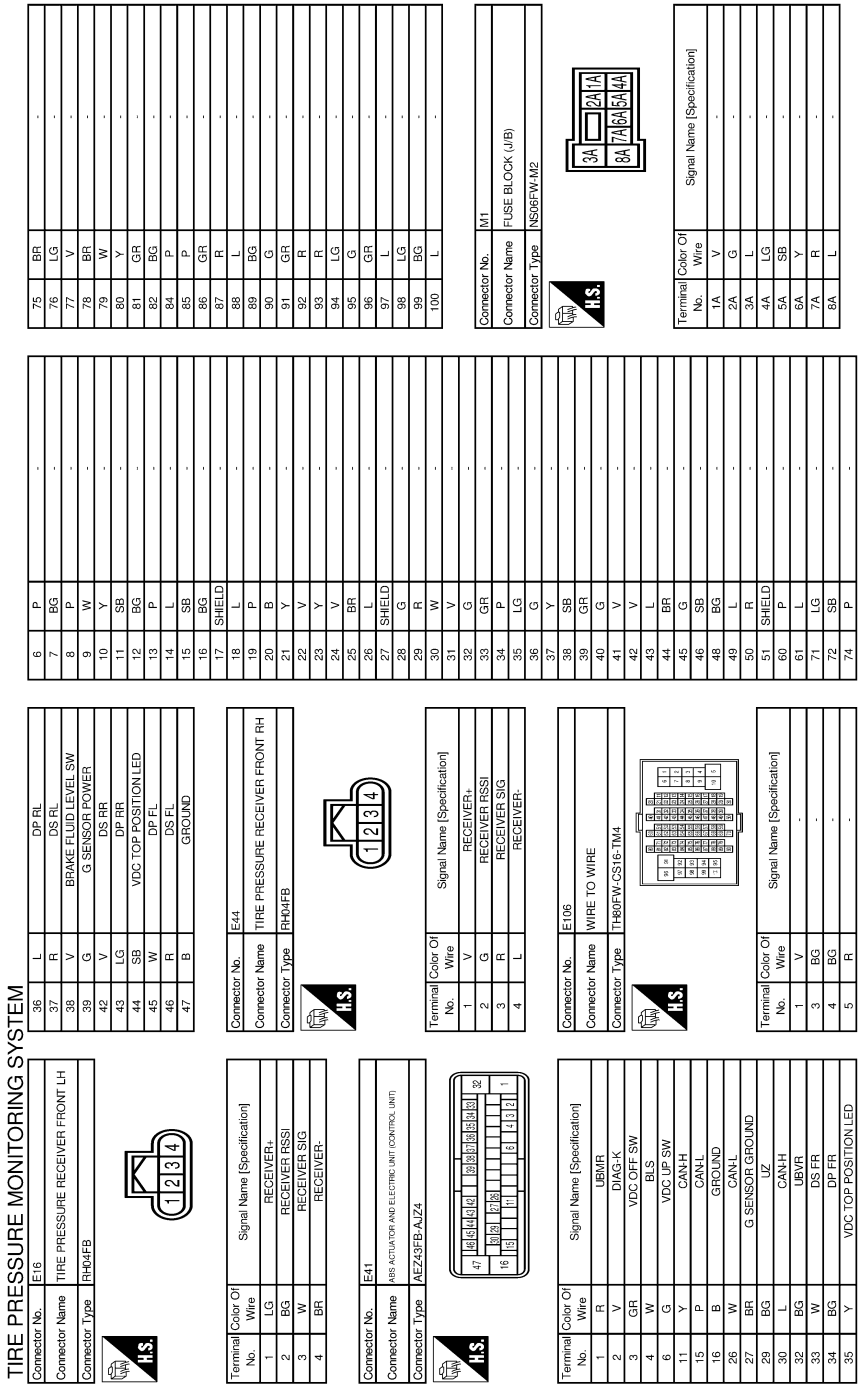

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TIRE PRESSURE MONITORING SYSTEM

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
3	R	-
4	G	-
5	Y	-
6	P	-
7	W	-
8	V	-
9	L	-
10	Y	-
11	G	-
12	BG	-
13	R	-
14	L	-
15	BR	-
16	R	-
17	SHIELD	-
18	L	-
19	P	-
20	B	-
21	W	-
22	GR	-
23	L	-
24	V	-
25	BR	-
26	G	-
27	SHIELD	-
28	G	-
29	R	-
30	W	-
31	V	-
32	G	-
33	GR	-
34	LG	-
35	P	-
36	L	-
37	W	-
38	Y	-
39	GR	-
40	BG	-
41	W	-
42	R	-
43	Y	-
44	BR	-
45	G	-
46	LG	-
48	W	-
49	L	-
50	R	-
51	SHIELD	-
60	SB	-
61	V	-
71	W	-
72	LG	-
74	R	-
75	BR	-
76	LG	-
77	R	-
78	BR	-
79	W	-
80	Y	-
81	BG	-
82	SB	-
84	Y	-
85	P	-
86	GR	-
87	R	-
88	L	-
89	G	-
90	P	-
91	W	-
92	R	-
93	LG	-
94	W	-
95	SB	-
96	L	-
97	L	-
98	Y	-
99	BG	-
100	L	-

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
6	L	-
7	W	-
8	W	-
9	G	-
10	R	-
11	W	-
12	SB	-
13	G	-
14	W	-
15	BR	-
16	R	-
17	BG	-
18	SB	-
20	GR	-
21	L	-
22	R	-
23	G	-
24	BR	-
25	L	-
26	LG	-
27	W	-
28	R	-
31	GR	-
32	L	-
33	V	-
34	BG	-
39	W	-
40	BG	-
41	R	-
42	V	-
43	W	-
47	G	-
48	R	-
49	W	-
50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	Y	-
62	SHIELD	-
63	GR	-
64	R	-
65	G	-
66	BR	-
67	BG	-
69	P	-
70	L	-
71	SHIELD	-
72	SHIELD	- [Without active noise control unit]
72	V	- [With active noise control unit]
73	LG	-
76	R	-
77	SB	-
78	G	-
79	Y	-
80	R	-
81	G	-
82	BR	- [Without active noise control unit]
82	G	- [With active noise control unit]
83	R	- [With active noise control unit]
83	Y	- [Without active noise control unit]
84	SHIELD	-
85	V	-
86	LG	- [Without active noise control unit]
86	W	- [With active noise control unit]
87	L	-
88	P	-
89	SHIELD	-
90	V	-
92	LG	-
93	Y	-
94	G	-
95	R	-
96	Y	-
97	R	-
98	G	-
99	L	-
100	W	-

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TIRE PRESSURE MONITORING SYSTEM

Connector No.	M14
Connector Name	LOW TIRE PRESSURE WARNING CONTROL UNIT
Connector Type	TH32FW-NH

H.S.

1	2	3	4	5	6	7	8	9	10		12			15	16
	19	20	21	22	23	24	25	26					30		32

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CAN-L
2	L	CAN-H
3	BG	RR TUNER (SIG)
4	L	RL TUNER (SIG)
5	R	FR TUNER (SIG)
6	W	FL 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	BG	RL 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	GROUND

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

H.S.

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

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SAB40FW

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35				39	40

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	W	IGNITION POWER SUPPLY
3	B	GROUND
4	B	ILLUMINATION GROUND
5	B	GROUND
6	W	METER CONTROL SWITCH GROUND
7	Y	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
8	SB	AMBIENT SENSOR GROUND
9	P	AMBIENT SENSOR SIGNAL
12	L	VEHICLE SPEED SIGNAL (2-PULSE)
13	V	VEHICLE SPEED SIGNAL (8-PULSE)
14	B	OIL PRESSURE SENSOR GROUND
15	R	AIR BAG SIGNAL
16	R	LED HEAD LAMP (RH) WARNING SIGNAL
18	L	FUEL LEVEL SENSOR GROUND
19	R	OIL LEVEL SENSOR GROUND
20	W	OIL LEVEL SENSOR SIGNAL
21	L	CAN-H
22	P	CAN-L
23	LG	ILLUMINATION CONTROL SWITCH SIGNAL (-)
24	BR	ILLUMINATION CONTROL SWITCH SIGNAL (+)
25	G	TRIP A/B RESET SWITCH SIGNAL
26	BG	ENTER SWITCH SIGNAL
27	SB	SELECT SWITCH SIGNAL
28	BR	ALTERNATOR
29	G	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
30	LG	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
31	V	PARKING BRAKE SWITCH SIGNAL
32	V	BRAKE FLUID LEVEL SWITCH SIGNAL
33	L	WASHER LEVEL SWITCH SIGNAL
34	GR	OIL PRESSURE SENSOR POWER
35	W	OIL PRESSURE SENSOR SIGNAL
38	BG	FUEL LEVEL SENSOR SIGNAL
39	Y	LED HEAD LAMP (LH) WARNING SIGNAL
40	V	ILLUMINATION CONTROL

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
6	G	-
7	V	-
8	G	-
9	W	-
10	L	-
31	Y	-
32	LG	-
33	BR	-
34	L	-
40	G	-
41	R	-
42	SB	-
43	L	-
44	R	-
45	G	-
51	SB	-
52	BG	-
53	R	-
54	GR	-
60	L	-
61	P	-
62	L	-
63	Y	-
64	LG	-
69	P	-
70	L	-
71	Y	-
80	L	-
81	G	-
82	BR	-
83	B	-
84	V	-
85	SB	-
86	SHIELD	-
87	W	-
96	Y	-
98	G	-
99	V	-
100	W	-

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

H.S.

81	90	89	88	87			83	82	81	80	79	78	77	76	75	74	73	72
11	10	09	08	07	06	05	04	03	02	01	00	99	98	97	96	95		93	92

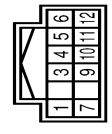
Terminal No.	Color Of Wire	Signal Name [Specification]
72	R	ROOM ANT2-
73	G	ROOM ANT2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	IMMOBI ANTENNA CONTROL
81	L	IMMOBI ANTENNA SIGNAL
82	R	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	BR	COMBI SW INPUT 5

JREWC1604GB

TIRE PRESSURE MONITORING SYSTEM

88	V	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL OUTPUT
93	V	ON IND
95	BG	ACC RELAY CONT
96	SB	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	R	S/L CONDITION 2
99	G	SHIFT P
100	W	PASSENGER DOOR REQUEST SW
101	V	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	P	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

Connector No.	M125
Connector Name	CAN GATEWAY
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
3	W	BATTERY
4	L	CAN-H
5	B	GROUND
6	L	CAN-H
7	P	CAN-L
9	R	IGNITION
10	P	CAN-L
11	B	GROUND
12	P	CAN-L

JREWC1605GB

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

INFOID:0000000011486853

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

Priority	Detection items
1	• U1000 CAN COMM CIRCUIT • U1010 CONTROL UNIT (CAN)
2	• C1704 LOW PRESSURE FL • C1705 LOW PRESSURE FR • C1706 LOW PRESSURE RR • C1707 LOW PRESSURE RL
3	• C1755 PR RECEIV COND FL • C1756 PR RECEIV COND FR • C1757 PR RECEIV COND RR • C1758 PR RECEIV COND RL
4	• C1708 [NO DATA] FL • C1709 [NO DATA] FR • C1710 [NO DATA] RR • C1711 [NO DATA] RL
5	• C1716 [PRESSDATA ERR] FL • C1717 [PRESSDATA ERR] FR • C1718 [PRESSDATA ERR] RR • C1719 [PRESSDATA ERR] RL
6	• C1720 [CODE ERR] FL • C1721 [CODE ERR] FR • C1722 [CODE ERR] RR • C1723 [CODE ERR] RL
7	C1728 RECEIVER ID NO REG
8	C1729 VHCL SPEED SIG ERR
9	• C1730 [FLAT TIRE] FL • C1731 [FLAT TIRE] FR • C1732 [FLAT TIRE] RR • C1733 [FLAT TIRE] RL
10	• C1750 [RECEIVER ERR] FL • C1751 [RECEIVER ERR] FR • C1752 [RECEIVER ERR] RR • C1753 [RECEIVER ERR] RL
11	C1754 CONT UNIT (EEPROM)

DTC Index

INFOID:0000000011486854

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

DTC	Display Item	Refer to
C1720	[CODE ERR] FL	WT-23
C1721	[CODE ERR] FR	
C1722	[CODE ERR] RR	
C1723	[CODE ERR] RL	
C1728	RECEIVER ID NO REG	WT-27
C1729	VHCL SPEED SIG ERR	WT-28
C1730	[FLAT TIRE] FL	WT-29
C1731	[FLAT TIRE] FR	
C1732	[FLAT TIRE] RR	
C1733	[FLAT TIRE] RL	
C1750	[RECEIVER ERR] FL	WT-31
C1751	[RECEIVER ERR] FR	
C1752	[RECEIVER ERR] RR	
C1753	[RECEIVER ERR] RL	
C1754	CONT UNIT (EEPROM)	WT-33
C1755	PR RECEIV COND FL	WT-36
C1756	PR RECEIV COND FR	
C1757	PR RECEIV COND RR	
C1758	PR RECEIV COND RL	
U1000	CAN COMM CIRCUIT	WT-38
U1010	CONTROL UNIT (CAN)	WT-39

SYMPTOM DIAGNOSIS

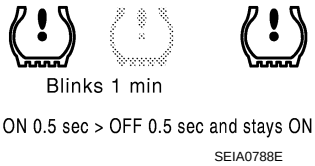
TPMS SYMPTOMS

Symptom Table (GT-R certified NISSAN dealer)

INFOID:0000000011486855

LOW TIRE PRESSURE WARNING LAMP SYMPTOM CHART

Diagnosis items	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
Low tire pressure warning lamp	The low tire pressure warning lamp illuminates for 1 second, then turns OFF.	 ON 1 sec > stays OFF SEIA0592E	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 SEIA0593E	Wake-up operation for all transmitters at wheels is not completed.	Perform the wake-up operation for all transmitters at wheels. Refer to WT-7, "TRANSMITTER WAKE UP OPERATION : Description".
	The low tire pressure warning lamp blinks once.	 Blinks 1 time ON 0.3 sec > OFF 1.0 sec JPEIC0090GB	The front left transmitter is not activated.	Perform the wake-up operation for the transmitter at front left wheel. Refer to WT-7, "TRANSMITTER WAKE UP OPERATION : Description".
	The low tire pressure warning lamp repeats blinking twice.	 Blinks 2 times ON 0.3 sec > OFF 0.3 sec SEIA0595E	The front right transmitter is not activated.	Perform the wake-up operation for the transmitter at front right wheel. Refer to WT-7, "TRANSMITTER WAKE UP OPERATION : Description".
	The low tire pressure warning lamp repeats blinking for 3 times.	 Blinks 3 times ON 0.3 sec > OFF 0.3 sec SEIA0596E	The rear right transmitter is not activated.	Perform the wake-up operation for the transmitter at rear right wheel. Refer to WT-7, "TRANSMITTER WAKE UP OPERATION : Description".
	The low tire pressure warning lamp repeats blinking for 4 times.	 Blinks 4 times ON 0.3 sec > OFF 0.3 sec SEIA0597E	The rear left transmitter is not activated.	Perform the wake-up operation for the transmitter at rear left wheel. Refer to WT-7, "TRANSMITTER WAKE UP OPERATION : Description".
	The low tire pressure warning lamp turns ON and stays illuminated.	 Comes ON and stays ON SEIA0598E	Low tire pressure	Check with CONSULT the tire pressure values. Refer to WT-13, "CONSULT Function (GT-R certified NISSAN dealer)".

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.		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.	• Perform CONSULT self-diagnosis. Refer to WT-13, "CONSULT Function (GT-R certified NISSAN dealer)". • If necessary, perform transmitter ID registration. Refer to WT-7, "ID REGISTRATION PROCEDURE : Description".
Turn signal lamp	The turn signal lamps do not blink twice when the transmitter is activated. Or the buzzer does not sound.	—	1. The transmitter activation tool (J-50190 or J-45295-A) does not activate. 2. The ignition switch is OFF when the transmitter wake-up operation is performed. 3. The transmitter activation tool (J-50190 or J-45295-A) is not used in the correct position. 4. The transmitter is already waked up.	1. Replace the battery in the transmitter activation tool (J-50190 or J-45295-A). 2. Turn the ignition switch ON when performing the transmitter wake-up operation. 3. Operate the transmitter activation tool (J-50190 or J-45295-A) in the correct position when performing the wake-up operation. 4. No procedure.

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

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486856

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

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486857

1.CHECK LOW TIRE PRESSURE WARNING LAMP

Perform trouble diagnosis of the low tire pressure warning lamp. Refer to WT-44, "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 DOES NOT TURN OFF

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486858

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:0000000011486859

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-40, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

NO >> GO TO 2.

2.CHECK TRANSMITTER ID REGISTRATION

With CONSULT

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-44, "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.

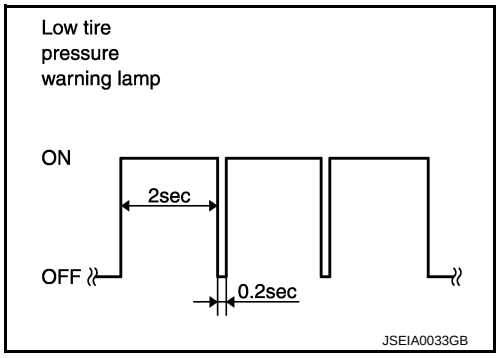
NO >> Repair or replace error-detected parts.

LOW TIRE PRESSURE WARNING LAMP BLINKS

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486860

- 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-7, "TRANSMITTER WAKE UP OPERATION : Description".



Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486861

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-46, "Reference Value (GT-R certified NISSAN dealer)".

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.

TURN SIGNAL LAMP BLINKS

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486862

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

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486863

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-46, "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-33, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

Is the inspection result normal?

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

3.HARNESS 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-89, "Exploded View".
NO >> Repair or replace error-detected parts.

ID REGISTRATION CANNOT BE COMPLETED

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486864

1.TRANSMITTER WAKE-UP

Perform the transmitter wake-up. Refer to WT-7, "TRANSMITTER WAKE UP OPERATION : Description".

Is the transmitter wake-up completed?

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

2.CHECK TRANSMITTER ACTIVATION TOOL

Check transmitter activation tool.

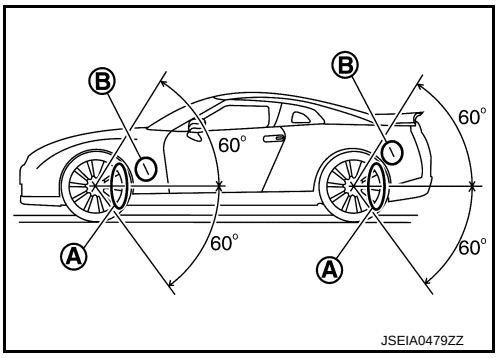
Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace the battery of transmitter activation tool or repair/replace the transmitter activation tool.

3.TRANSMITTER ID REGISTRATION

Position transmitter within the range (A) to register ID. Refer to WT-7, "ID REGISTRATION PROCEDURE : Description".

B : Position receiver



CAUTION:

To perform ID registration, observe the following points:

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

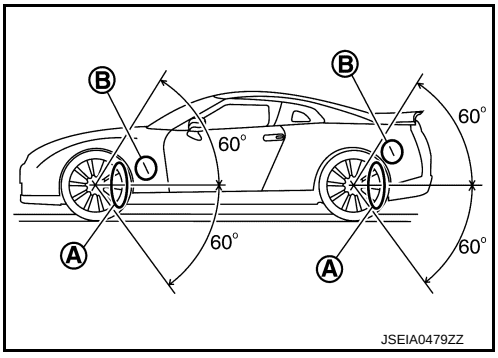
Is transmitter ID registration completed?

YES >> INSPECTION END
NO >> GO TO 4.

4.CHECK TIRE PRESSURE SIGNAL

Turn the tire to reposition the transmitter within the area (A). Register ID again.

B : Position receiver



NOTE:

Depending on the transmitter position*, a blind spot exists, and the tire pressure receiver gets a poor reception. If an ID registration is performed under this condition, the registration may not be completed. In such case, follow the instructions below to improve the radio wave receiving environment.

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

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

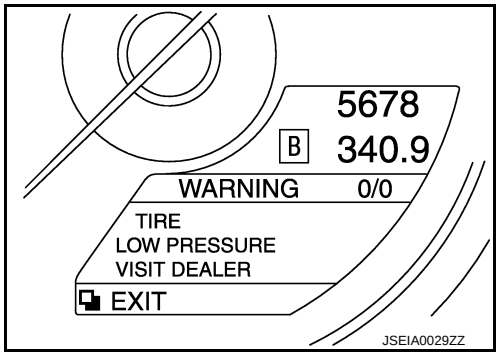
All wheels react and ID registration is possible.>>INSPECTION END
Only certain wheel(s) do not react.>>Replace applicable transmitter. Refer to WT-78, "Exploded View".
All wheels do not react.>>Check the tire pressure receiver. Refer to WT-31, "Diagnosis Procedure (GT-R certified NISSAN dealer)".

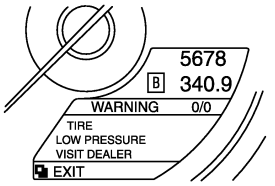
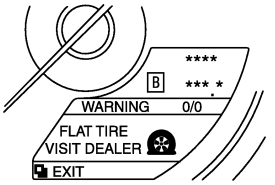
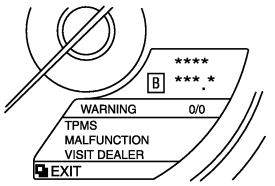
"TIRE PRESSURE" INFORMATION IN DISPLAY UNIT DOES NOT EXIST

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486865

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 180 kPa (1.8 kg/cm^2, 26 psi) or less	
Tire is flat. Tire pressure is 70 kPa (0.7 kg/cm^2, 10 psi) or less	
Tire Pressure Monitoring System (TPMS) malfunction	

Diagnosis Procedure (GT-R certified NISSAN dealer)

INFOID:0000000011486866

1.CHECK LOW TIRE PRESSURE WARNING LAMP

Check that information except low tire pressure warning system is displayed on information display.

Is the inspection result normal?

YES >> Replace low tire pressure warning control unit. Refer to WT-77, "Exploded View (GT-R certified NISSAN dealer)".

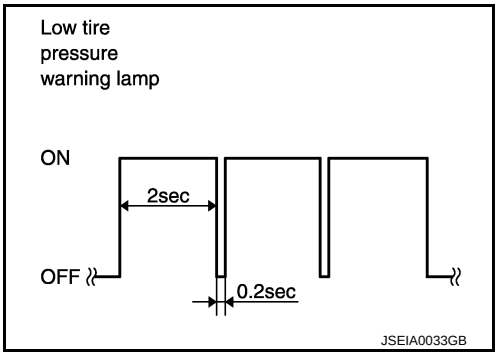
NO >> Check information display. Refer to MWI-54, "Diagnosis Description".

NORMAL OPERATING CONDITION

Description (GT-R certified NISSAN dealer)

INFOID:0000000011486867

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-7, "TRANSMITTER WAKE UP OPERATION : Description".



NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

INFOID:0000000011486868

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

Reference			FSU-11, FSU-15	—	—	WT-81, "Tire"	—	—	—	WT-81, "Tire"	NVH in DLN section.	NVH in DLN section.	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.
Possible cause and SUSPECTED PARTS			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
Symptom	TIRES	Noise	×	×	×	×	×	×	×		×	×	×	×		×	×	×	×
		Shake	×	×	×	×	×	×		×	×		×	×		×	×	×	×
		Vibration				×				×	×		×	×			×		×
		Shimmy	×	×	×	×	×	×	×	×			×	×		×		×	×
		Judder	×	×	×	×	×	×		×			×	×		×		×	×
		Poor quality ride or handling	×	×	×	×	×	×		×			×		×	×			
	ROAD WHEEL	Noise	×	×	×			×			×	×	×	×	×		×	×	×
		Shake	×	×	×			×			×		×	×	×		×	×	×
		Shimmy, Judder	×	×	×			×					×	×	×			×	×
		Poor quality ride or handling	×	×	×			×					×	×	×				

×: Applicable

PRECAUTION

PRECAUTIONS

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

INFOID:0000000011486869

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Precaution for Battery Service

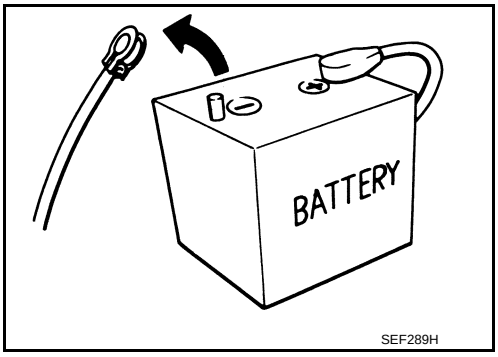
INFOID:0000000011486870

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

Precautions for Removing Battery Terminal

INFOID:0000000011486871

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
  NOTE:
  ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
  NOTE:
  If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.



SEF289H

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
  NOTE:
  The removal of 12V battery may cause a DTC detection error.

Service Notice and Precautions

INFOID:0000000011486872

CAUTIONS

- GT-R Genuine road 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.
- If tire wear is uneven, explain the circumstances to the customer and obtain the customers approval, then adjust the wheel alignment. Refer to FSU-12, "Inspection" (Front), RSU-12, "Inspection" (Rear).
- When changing the tires, please recommend the users to change all 4 tires as a set, and always perform ID registration.
- Low tire pressure warning lamp blinks for 1min, then turns ON when occurring any malfunction except low tire pressure. Delete the memory with CONSULT, or register the ID to turn low tire pressure warning lamp OFF.
- The paint of road wheels and the center cap has a special hue. Since time degradation causes change in hue and wheels exhibit a wide range of color variation, the color of a replacement wheel may be different.
- When a vehicle is brought in vibration condition, it is necessary to check with the customer for the history of hitting protruding portions and dents, such as road projections, and to check for wheel balance and squeaks occurring from the inside of tires. If there is a malfunction, the tire must be replaced.
- For winter tires, use run flat tires recommended by NISSAN dealer.
- Check to use the specific tires for GT-R. The damages or failures resulting from the use of tires other than specified tires for GT-R cannot be covered by warranty. Refer to the following table for the details of applicable tires.

Tire

◎: Applicable as a standard or option (covered by warranty) ○: Suitable (covered by warranty)

Grade	Summer tire		All-season tire	Winter tire
	DUNLOP SP SPORT MAXX GT 600 DSST CTT	DUNLOP SP SPORT MAXX GT 600 DSST CTT (with ″NR1″ mark*2)	DUNLOP SP SPORT 7010	DUNLOP GRASPIC DSX
• GT-R Black edition • GT-R Premium edition	◎	○	◎	○*1
• GT-R Track edition • GTR N-Package • GTR NISMO	○	◎	○	○*1

*1: GT-R specified tire recommended by GT-R certified NISSAN dealer.
*2: The ″NR1″ mark is inscribed on the sidewall.

CAUTIONS FOR REMOVAL AND INSTALLATION

- Always use them after adjusting the wheel balance. For the balance weights, use GT-R Genuine road wheel weights.
- Be careful of the oil that contacts bolt and nut threads, or the nut seat.
- 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 disk rotor and wheel.
- 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.
- 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, disk rotors, brake tubes, brake hoses, or other parts.
- Replace grommet seal of transmitter in TPMS, when replacing each tire by reaching the wear limit.
- GT-R-specific wheels have a large diameter and a wide rim width. This may cause deformation in rim if the rim gets a strong impact with no tire installed. Even a minute deformation may result in a fatigue fracture. Therefore, always check rim runout after an impact even when no deformation is apparently found.
- ID registration is required after the replacement of tires, transmitter, or low tire pressure warning control unit.
- To put the valve cap back on the transmitter, securely turn the valve cap by hand. Never use a tool to prevent damage to the valve cap.
- Handle road wheel and center cap with care to prevent scratches on their paint. The scratches become noticeable, if any.

CAUTIONS FOR CAR WASH

- Use caution when handling the road 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.

CAUTIONS FOR DRIVING

- Never run over sharp objects, and never run over or rub against sidewalks or curbstones while driving.
- 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 disk rotor contact each other and tighten them (when cold) to a wheel nut tightening torque.

- Except NISMO: 147.1 N·m (15 kg-m, 109 ft-lb)
- NISMO: 170.0 N·m (17 kg-m, 125 ft-lb)

CAUTIONS FOR TIRE PRESSURE

- Always check and adjust tire pressure before delivering a new vehicle or maintenance-performed vehicle to the customer.
- Fill nitrogen gas into the tires.
- Set the nitrogen gas pressure as follows:

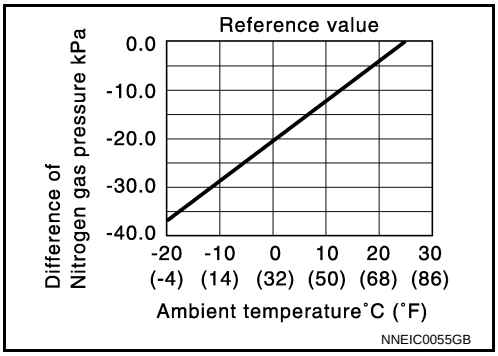
For Summer tire

- Front tire: 210 kPa (2.1 kg/cm^2, 30 psi)
- Rear tire: 200 kPa (2.0 kg/cm^2, 29 psi)

For All-Season tire

- Front tire: 220 kPa (2.2 kg/cm^2, 32 psi)
- Rear tire: 210 kPa (2.1 kg/cm^2, 30 psi)

- An internal pressure of tires is reduced depending on changes in air temperature and altitude, or a temporal change. Driving a vehicle with the tire pressure low is dangerous and may damage tires. Therefore, it is required to periodically set tire internal pressure to a specified value. Refer to WT-81, "Tire".



INSPECTIONS REQUIRED FOR BEFORE AND AFTER SPORTS DRIVING

- Immediately after installing tire to wheel, the tire does not fit sufficiently with the wheel. This may cause a deviation in matching mark position of rotation direction. Never place a burden on tires (e.g. performance driving) particularly for two days after tire change.
- Check for tire internal pressure and the positioning (rim deviation) in rotational directions for wheels and inner tires.
- Check wheel lock nuts, the valve nut and valve core of the transmitter of the tire inflation pressure warning system for looseness.
- Tighten up wheel lock nut within tightening torque.

- Except NISMO: 147.1 N·m (15 kg-m, 109 ft-lb)
- NISMO: 170.0 N·m (17 kg-m, 125 ft-lb)

- Check tires for deformation, cracks and other damage.
- Before high performance driving, tire inner pressure is recommended to be adjusted under normal temperature as follows:

- Front wheel: 210 kPa (2.1 kg/cm^2, 30 psi)
- Rear wheel: 200 kPa (2.0 kg/cm2, 29 psi)

NOTE:
This is the inner pressure for the summer tire.

- To prevent the balance weight of tire wheel from being flaked, make sure to apply aluminum tape over the balance weight, when driving at a high speed, over 200 km/h (124 MPH), and/or prior to circuit driving.
- To prevent wheel cap from coming off, remove it or fix it with a tape before driving.
- When high performance driving, using the summer tire is recommended.

Precautions for Tire Change (GT-R certified NISSAN dealer)

INFOID:0000000011486873

- When a tire needs to be replaced due to wear, flat tire, or side wall damage, check the other tires (for wear, flat tire, or side wall damage) to judge the necessity of replacement.
- When installed to a wheel at a tire shop, tires are fit to wheel (rim) by increasing tire pressure to a value higher than the reference value and maintaining the increased tire pressure. After tire change, check the following items and enter tire balance (Installed balance weight, Residual unbalance weight) and tire pressure (nitrogen filling) in SMG (SERVICE AND MAINTENANCE GUIDE).

- After tire change at a tire shop, tire pressure must be adjusted by NISSAN dealer. For tire pressure, refer to WT-81, "Tire".
- Ask the tire shop for tire balance (Installed balance weight, Residual unbalance weight) of after-tire-change to check that the tire balance (Installed balance weight, Residual unbalance weight) is within the reference value. For the reference value, refer to WT-81, "Road Wheel (GT-R certified NISSAN dealer)".

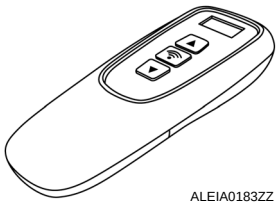
PREPARATION

PREPARATION

Special Service Tool

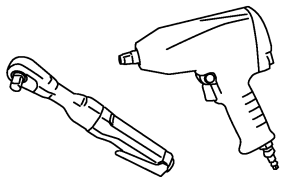
INFOID:0000000011486874

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

Tool number (TechMate No.) Tool name	Description
— (J-50190) Signal tech II  ALEIA0131ZZ	• Activate and display TPMS tire pressure sensor IDs • Display tire pressure reported by the TPMS tire pressure sensor • Read TPMS DTCs • Register TPMS tire pressure sensor IDs • Test remote keyless entry keyfob relative signal strength • Compatible with future sensors • Equipped with a display
KV48105501 (J-45295-A) Tire pressure sensor activation tool  ALEIA0183ZZ	• Activate TPMS tire pressure sensor IDs • Compatible with future sensors • Equipped with a display (KV48105501 only)

Commercial Service Tool

INFOID:0000000011486875

Tool name	Description
Power tool  PBIC0190E	Loosening wheel nuts

PERIODIC MAINTENANCE

ROAD WHEEL

Inspection (GT-R certified NISSAN dealer)

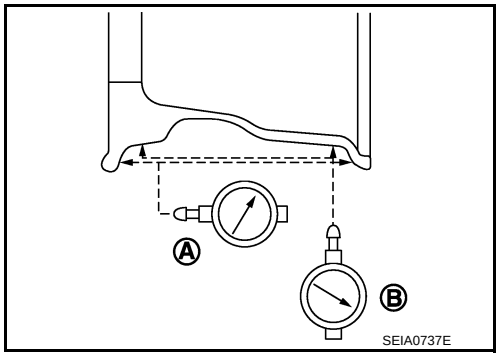
INFOID:0000000011486876

1. Check tires for wear and improper inflation.
2. Check wheels for deformation, cracks and other damage. If deformed, remove wheel and check wheel runout.

a. Remove tire from road wheel and mount on a tire balance machine.

b. Set dial indicator as shown in the figure.

c. If the lateral deflection (A) or vertical deflection (B) for radial runout value exceeds the limit, replace road wheel.



Limit

A: **Refer to WT-81, "Road Wheel (GT-R certified NISSAN dealer)".**

B: **Refer to WT-81, "Road Wheel (GT-R certified NISSAN dealer)".**

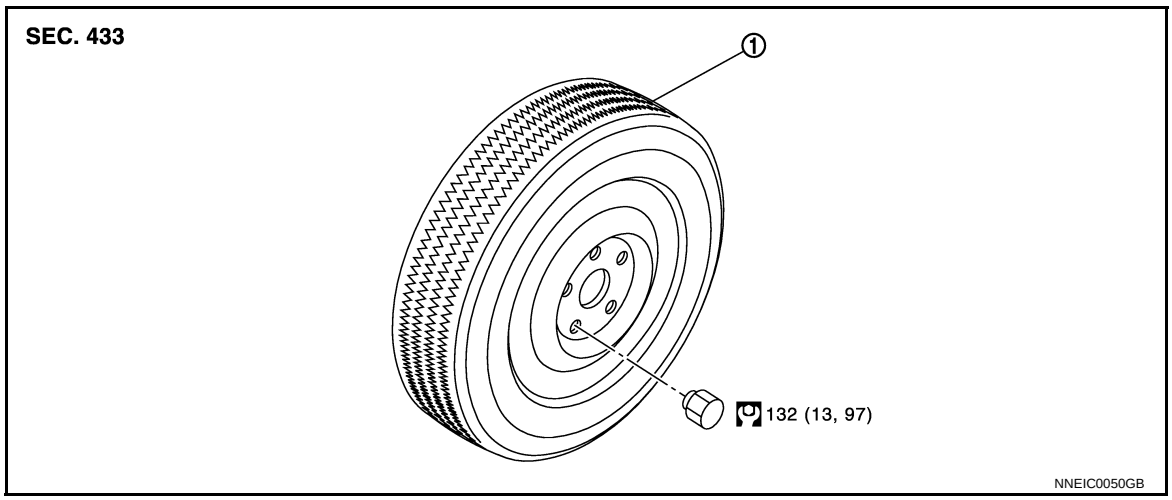
REMOVAL AND INSTALLATION

ROAD WHEEL TIRE ASSEMBLY

EXCEPT NISMO

EXCEPT NISMO : Exploded View

INFOID:0000000011486877



1. Tire assembly

Refer to GI-4, "Components" for symbols in the figure.

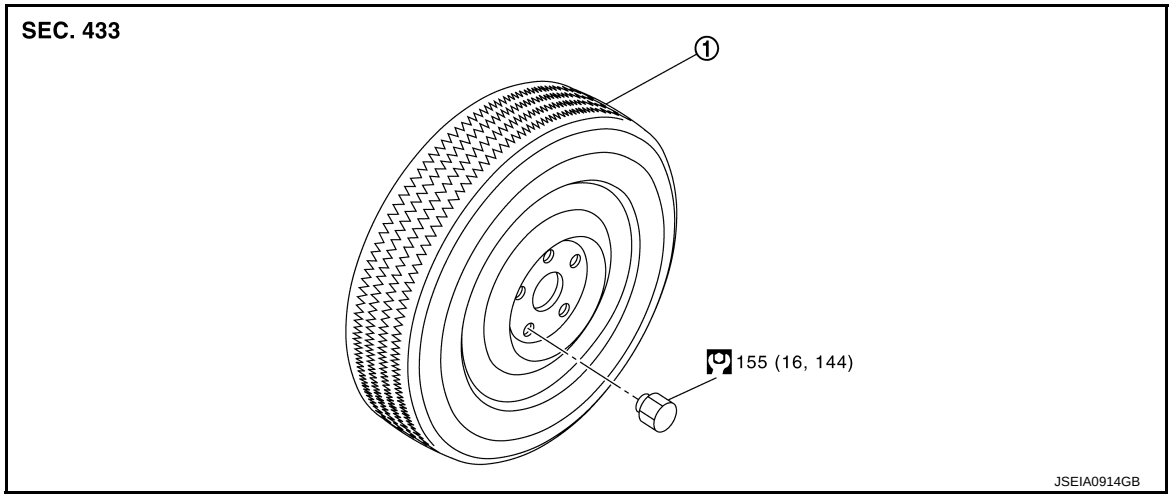
CAUTION:

To change tire, refer to WT-71, "Precautions for Tire Change (GT-R certified NISSAN dealer)".

NISMO

NISMO : Exploded View

INFOID:0000000011486878



1. Tire assembly

Refer to GI-4, "Components" for symbols in the figure.

CAUTION:

To change tire, refer to WT-71, "Precautions for Tire Change (GT-R certified NISSAN dealer)".

Removal and Installation

INFOID:0000000011486879

CAUTION:
To change tire, refer to WT-71, "Precautions for Tire Change (GT-R certified NISSAN dealer)".

REMOVAL

1. Remove wheel nuts with a power tool.
2. Remove tire assembly.

INSTALLATION

Install in the reverse order of removal.

Adjustment (GT-R certified NISSAN dealer)

INFOID:0000000011486880

BALANCING WHEELS

Preparation Before Adjustment

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

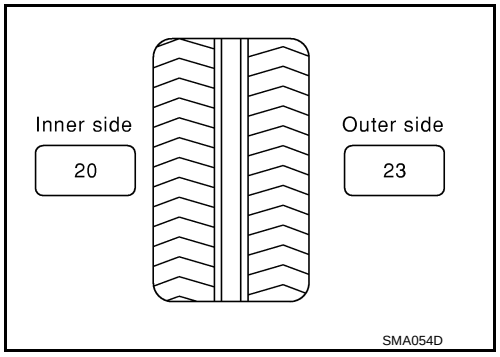
CAUTION:
- **Be careful not to scratch the road wheel during removal.**
- **After removing double-faced adhesive tape, wipe clean traces of releasing agent from the road wheel.**

Wheel Balance Adjustment

If a tire balance machine has adhesion balance weight mode settings and drive-in weight mode setting, select and adjust a drive-in weight mode suitable for road wheels.

1. Set road wheel on tire balance machine using the center hole as a guide. Start the tire balance machine.
2. When inner and outer unbalance values are shown on the tire balance machine indicator, multiply outer unbalance value by 5/3 to determine balance weight that should be used. Select the outer balance weight with a value closest to the calculated value above and install to the designated outer position of, or at the designated angle in relation to the road wheel.
   CAUTION:
   - **Do not install the inner balance weight before installing the outer balance weight.**
   - **Before installing the balance weight, be sure to clean the mating surface of the road wheel.**

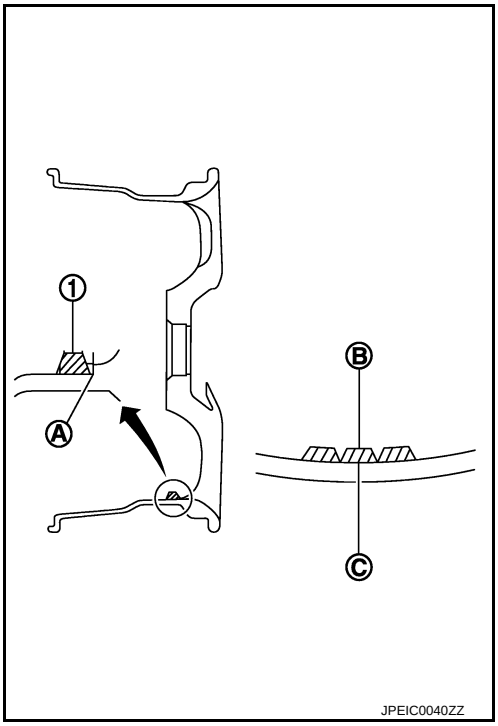
a. Indicated unbalance value × 5/3 = balance weight to be installed
Calculation example:
23 g (0.81 oz) × 5/3 = 38.33 g (1.35 oz) ⇒ 37.5 g (1.32 oz) balance weight (closer to calculated balance weight value)
NOTE:
Note that balance weight value must be closer to the calculated balance weight value.
Example:
36.2 ⇒ 35 g (1.23 oz)
36.3 ⇒ 37.5 g (1.32 oz)



b. Installed balance weight in the position.

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

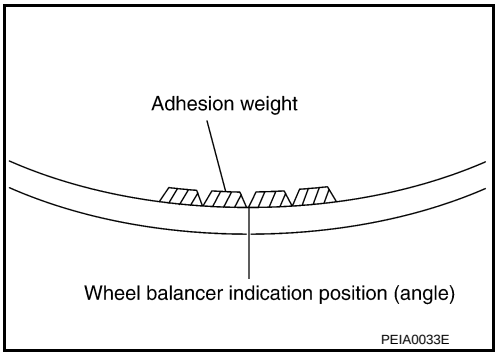
  CAUTION:
  - **Always use genuine NISSAN adhesion balance weights.**
  - **Balance weights are non-reusable; always replace with new ones.**
  - **Do not install more than three sheets of balance weight.**



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

   CAUTION:

   Do not install one balance weight sheet on top of another.



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

   CAUTION:

   Do not install more than two balance weight.
5. Start the tire balance machine. Make sure that inner and outer residual unbalance values are 5 g (0.17 oz) each or below.
6. If either residual unbalance value exceeds 5 g (0.17 oz), repeat installation procedures.

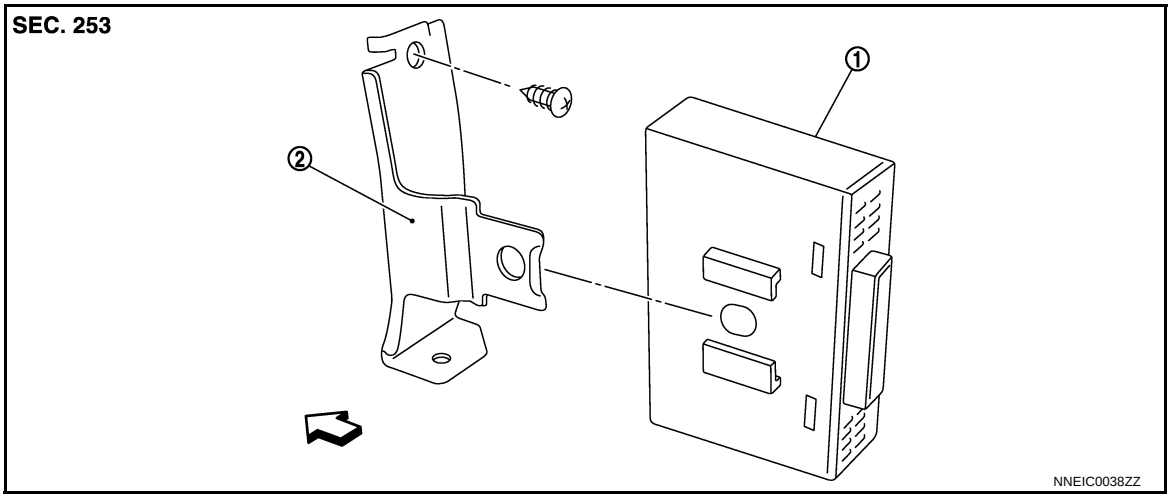
Limit

Dynamic (At flange)	**: Refer to WT-81, "Road Wheel (GT-R certified NISSAN dealer)".**
Static (At flange)	**: Refer to WT-81, "Road Wheel (GT-R certified NISSAN dealer)".**

LOW TIRE PRESSURE WARNING CONTROL UNIT

Exploded View (GT-R certified NISSAN dealer)

INFOID:0000000011486881



1. Low tire pressure warning control unit 2. Bracket

⇦:Vehicle front

Removal and Installation (GT-R certified NISSAN dealer)

INFOID:0000000011486882

REMOVAL

1. Remove the instrument lower panel (driver). Refer to IP-12, "Exploded View".
2. Remove instrument pad B. Refer to IP-12, "Exploded View".
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

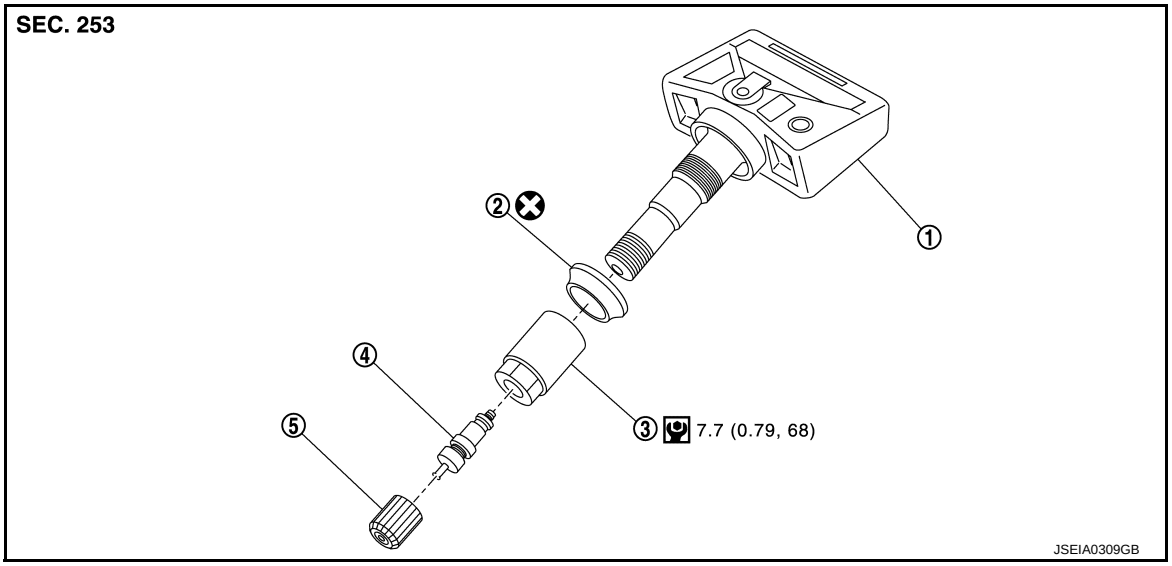
Note the following, and install in the reverse order of removal.

- Perform ID registration after replacing low tire pressure warning control unit. Refer to WT-8, "ID REGISTRATION PROCEDURE : Transmitter ID Registration Procedure".

TRANSMITTER

Exploded View

INFOID:0000000011486883



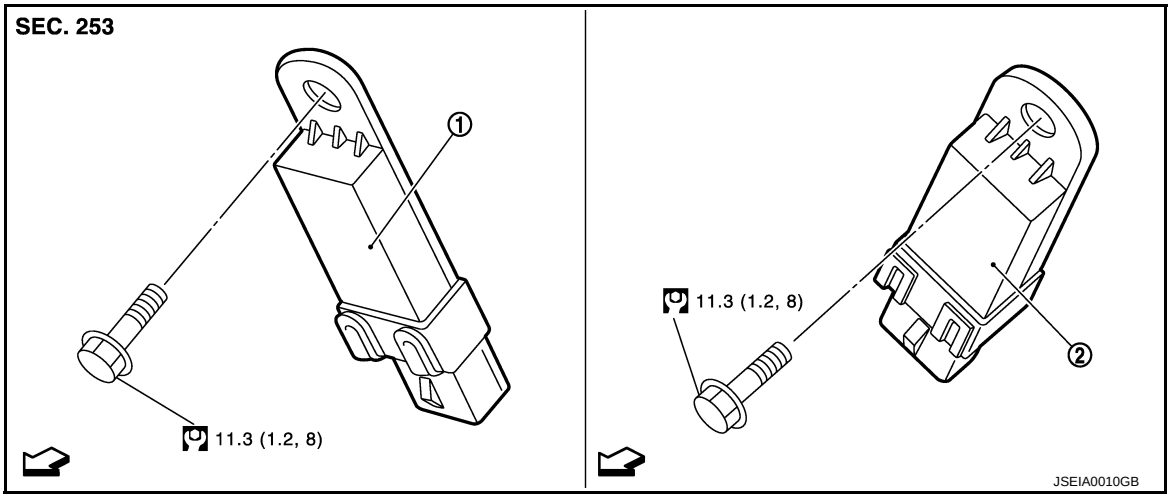
1. Transmitter
2. Grommet seal
3. Valve nut
4. Valve core
5. Cap

Refer to GI-4, "Components" for symbols in figure.

TIRE PRESSURE RECEIVER

Exploded View (GT-R certified NISSAN dealer)

INFOID:0000000011486884



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

⇦: Vehicle front

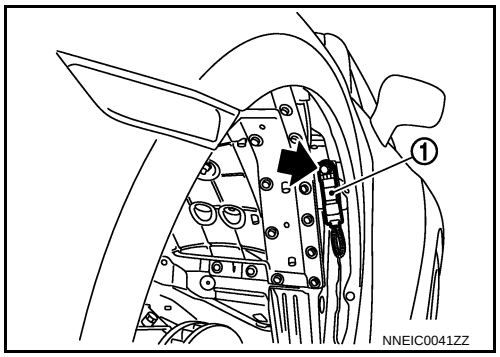
FRONT TIRE PRESSURE RECEIVER

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

INFOID:0000000011486885

REMOVAL

1. Remove the fender protector (rear). Refer to EXT-31, "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

Install in the reverse order of removal.

REAR TIRE PRESSURE RECEIVER

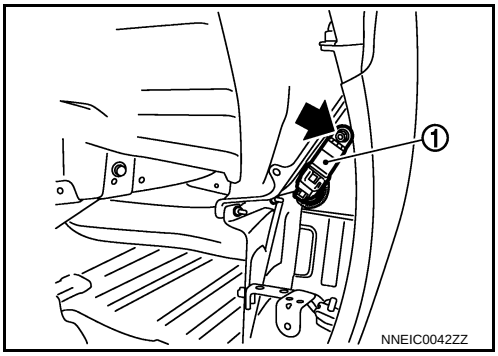
REAR TIRE PRESSURE RECEIVER : Removal and Installation (GT-R certified NISSAN dealer)

INFOID:0000000011486886

REMOVAL

1. Remove the rear wheel house protector. Refer to EXT-33, "REAR WHEEL HOUSE PROTECTOR : Exploded View".

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

Install in the reverse order of removal.

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Road Wheel (GT-R certified NISSAN dealer)

INFOID:0000000011486887

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

Tire

INFOID:0000000011486888

INTERNAL PRESSURE OF TIRES

Unit: kPa (kg/cm^2, psi)

Item	Standard	
	Front	Rear
255/40ZRF20 (97Y)	210 (2.1, 30)	—
285/35ZRF20 (100Y)	—	200 (2.0, 29)
255/40RF20 97W	220 (2.2, 32)	—
285/35RF20 100W	—	210 (2.1, 30)

CAUTION:

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