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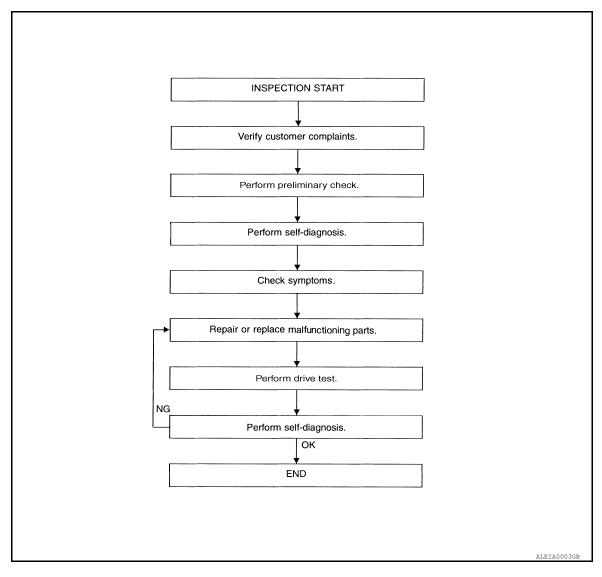
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Repair Work Flow

WORK FLOW



WT-5, "Preliminary Check"

WT-43, "Self-Diagnosis (With CONSULT-III)" WT-44, "Self-Diagnosis (Without CONSULT-III)"

WT-49, "Symptom Table"

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DETAILED FLOW

1.CUSTOMER INFORMATION

Interview the customer to obtain detailed information about the symptom.

>> GO TO 2

2. PRELIMINARY CHECK

Perform preliminary check. Refer to WT-5, "Preliminary Check".

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

>> GO TO 3

3. SELF-DIAGNOSIS

Perform SELF-DIAGNOSIS. Refer to WT-43, "Self-Diagnosis (With CONSULT-III)" or WT-44, "Self-Diagnosis (Without CONSULT-III)".

>> GO TO 4

4.SYMPTOM

Check for symptoms. Refer to WT-49, "Symptom Table".

>> GO TO 5

5. MALFUNCTIONING PARTS

Repair or replace the applicable parts.

>> GO TO 6

6. DRIVE TEST

- 1. Perform a drive test.
- 2. Check the low tire pressure warning lamp.

>> GO TO 7

7.self-diagnosis

Perform SELF-DIAGNOSIS. Refer to <u>WT-43, "Self-Diagnosis (With CONSULT-III)"</u> or <u>WT-44, "Self-Diagnosis (Without CONSULT-III)"</u>.

Are any DTC's displayed?

YES >> GO TO 5

NO >> Inspection End

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

Preliminary Check

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

1. TIRE PRESSURE

Check all tire pressures. Refer to WT-64, "Tire".

Is the inspection result normal?

YES >> GO TO 2

NO >> Adjust tire pressure to specified value.

2.LOW TIRE PRESSURE WARNING LAMP

Check low tire pressure warning lamp activation.

Does the low tire pressure warning lamp activate for one second when ignition switch is turned ON?

YES >> GO TO 3

NO >> GO TO WT-50, "Low Tire Pressure Warning Lamp Does Not Come On When Ignition Switch Is Turned On".

3.BCM CONNECTOR

- Disconnect BCM harness connectors.
- Check terminals for damage or loose connection.
- Reconnect harness connector.

Is the inspection result normal?

YFS >> GO TO 4

>> Repair or replace damaged parts. NO

4. TRANSMITTER ACTIVATION TOOL

Check battery in transmitter activation tool.

Is the inspection result normal?

YFS >> Perform SELF-DIAGNOSIS. Refer to WT-43, "Self-Diagnosis (With CONSULT-III)".

NO >> Replace battery in transmitter activation tool.

Transmitter Wake Up Operation

NOTE:

This procedure must be done after replacement of a TPMS transmitter or BCM. New replacement transmitters are provided "asleep" and must first be "woken up" using Transmitter Activation Tool J-45295 or Signal Tech II Tool J-50190 before ID registration can be performed. Use the following procedure when using the Transmitter Activation Tool J-45295.

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- · Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- · Register TPMS transmitter IDs

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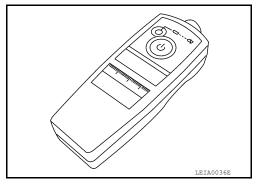
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INSPECTION AND ADJUSTMENT

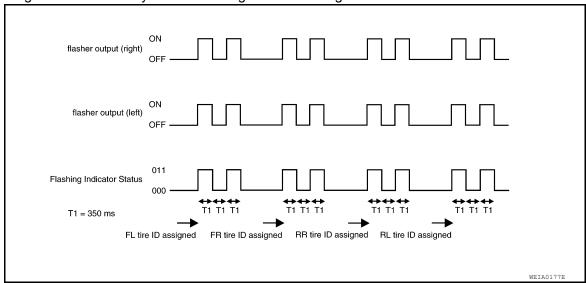
< BASIC INSPECTION >

 Turn ignition switch ON. Push the transmitter activation tool against the tire near the front left transmitter. Press the button for 5 seconds. The hazard warning lamps flash per the following diagram.

Tool number : (J-45295)



- 2. Repeat this procedure for each tire in the following order: FL, FR, RR, RL.
- When the BCM finishes assigning each tire ID, the BCM flashes the hazard warning lamps and sends flashing indicator status by CAN according to the following time chart.



4. After completing wake up of all transmitters, make sure low tire pressure warning lamp goes out.

ID Registration Procedure

INFOID:0000000006236769

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- · Register TPMS transmitter IDs

ID REGISTRATION WITH TRANSMITTER ACTIVATION TOOL

NOTE:

This procedure must be done after replacement of a TPMS transmitter or BCM. New replacement transmitters are provided "asleep" and must first be "woken up" using Transmitter Activation Tool J-45295 or Signal Tech II Tool J-50190 before ID registration can be performed. Use the following procedure when using the Transmitter Activation Tool J-45295.

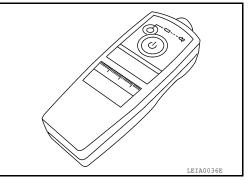
- 1. Connect CONSULT-III.
- Select "ID REGIST" under BCM.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

3. Push the transmitter activation tool against the tire near the front left transmitter. Press the button for 5 seconds.

Tool number : (J-45295)



4. Register the IDs in order from FR LH, FR RH, RR RH and RR LH. When ID registration of each wheel has been completed, the hazard warning lamps flash.

Step	Activation tire position	Hazard warning lamp	CONSULT-III
1	Front LH		
2	Front RH	2 times fleebing	"YET"
3	Rear RH	2 times flashing	"DONE"
4	Rear LH		

5. After completing all ID registrations, press "END" to complete the procedure.

NOTE:

Be sure to register all of the IDs in order from FR LH, FR RH, RR RH, to RR LH, or the self-diagnostic results display will not function properly.

ID REGISTRATION WITHOUT TRANSMITTER ACTIVATION TOOL

NOTE:

This procedure must be done after replacement of a TPMS transmitter or BCM. New replacement transmitters are provided "asleep" and must first be "woken up" using Transmitter Activation Tool J-45295 or Signal Tech II Tool J-50190 before ID registration can be performed.

- 1. Connect CONSULT-III.
- Select "ID REGIST" under BCM.
- 3. Adjust the tire pressures to the values shown in the table and drive the vehicle at 40 km/h (25 MPH) or more for a few minutes.

Tire position	Tire pressure kPa (kg/cm ² , psi)
Front LH	250 (2.5, 36)
Front RH	230 (2.3, 33)
Rear RH	210 (2.1, 30)
Rear LH	190 (1.9, 27)

4. After completing all ID registrations, press "END" to complete the procedure.

Activation tire position	CONSULT-III
Front LH	
Front RH	"YET"
Rear RH	"DONE"
Rear LH	

5. Inflate all tires to proper pressure. Refer to WT-64, "Tire".

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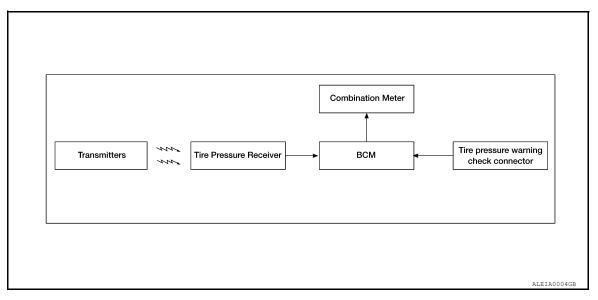
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SYSTEM DESCRIPTION

TPMS

System Diagram

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System Description

INFOID:0000000006236771

DESCRIPTION

During driving, the tire pressure monitoring system receives the signal transmitted from the transmitter installed in each wheel, and turns on the low tire pressure warning lamp when the tire pressure becomes low. The control unit (BCM) for this system has pressure judgement and self-diagnosis functions.

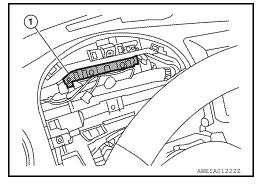
FUNCTION

When the tire pressure monitoring system detects low inflation pressure or an internal malfunction, the low tire pressure warning lamp in the combination meter comes on. The malfunction is indicated by the low tire pressure warning lamp flashing.

BODY CONTROL MODULE (BCM)

The BCM (1) is shown with the combination meter removed. The BCM reads the air pressure signal received by the tire pressure receiver, and controls the low tire pressure warning lamp as shown below. It also has a self-diagnosis function to detect a system malfunction.

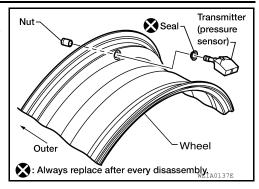
Condition	Low tire pressure warning lamp
System normal	On for 1 second after ignition ON
Tire pressure less than 174.1 kPa (1.775 kg/cm ² , 25.25 psi)	ON
Tire pressure monitoring system malfunction	After key ON, flashes once per second for 1 minute, then stays ON



TRANSMITTER

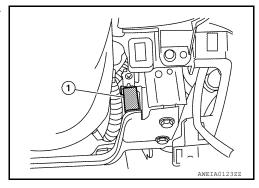
< SYSTEM DESCRIPTION >

A sensor-transmitter integrated with a valve is installed in each wheel. It transmits a detected air pressure signal in the form of a radio wave when the vehicle is moving. The radio signal is received by the tire pressure receiver.



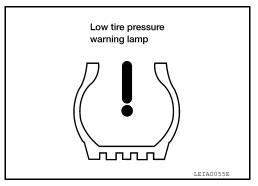
TIRE PRESSURE RECEIVER

The tire pressure receiver (1) is located on the RH side of the steering column, and is shown with the lower instrument panel LH removed. The tire pressure receiver receives the air pressure signal transmitted by the transmitter in each wheel.



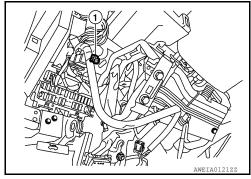
COMBINATION METER

The combination meter receives tire pressure status from the BCM using CAN communication. When a low tire pressure condition is sensed by the BCM, the combination meter low tire pressure warning lamp is activated. A CHECK TIRE PRESSURE warning message will also be displayed in the vehicle information display. Refer to the Owner's Manual for additional information.



TIRE PRESSURE WARNING CHECK CONNECTOR

The tire pressure warning check connector can be grounded in order to initiate self-diagnosis without a CONSULT-III. Refer to <u>WT-44</u>, <u>"Self-Diagnosis (Without CONSULT-III)"</u>. The tire pressure warning check connector (1) is located behind the lower portion of the instrument panel LH, above the hood release handle.



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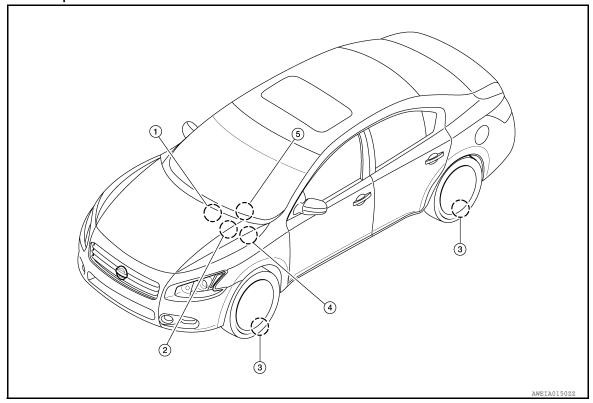
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System Components

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- 1. Tire pressure receiver M70
- 2. BCM M16, M17, M18, M19
- 4. Tire pressure warning check connector 5. M62
- Combination meter M24
- 3. Transmitters

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

CONSULT-III Function (BCM - AIR PRESSURE MONITOR)

INFOID:0000000006793804

SELF DIAGNOSTIC RESULT

NOTE:

Before performing Self Diagnostic Result, be sure to register the ID, or else the actual malfunction may be different from that displayed on CONSULT-III.

Refer to BCS-65, "DTC Index".

DATA MONITOR

Monitor Item	Condition	Condition Specification	
AIR PRESS FL	Drive vehicle for a few minutes.		
AIR PRESS FR	Drive vehicle for a few minutes. or	Tire pressure (kPa, kg/cm² or Psi)	
AIR PRESS RR	Ignition switch ON and activation tool is trans-		
AIR PRESS RL	mitting activation signals.		
ID REGST FL1			
ID REGST FR1	Ignition quitab ON	Registration ID: Green	
ID REGST RR1	Ignition switch ON	No registration: Red	
ID REGST RL1			
WARNING LAMP	Ignition switch ON	Low tire pressure warning lamp on: ON Low tire pressure warning lamp off: OFF	
BUZZER Ignition switch ON		Buzzer in combination meter on: ON Buzzer in combination meter off: OFF	

ACTIVE TEST

Test Item	Description	
WARNING LAMP	This test is able to check tire pressure warning lamp operation [On/Off].	
ID REGIST WARNING	This test is able to check ID regist warning chime operation [On/Off].	
FLASHER	This test is able to check turn signal lamp operation [Off/LH/RH].	
HORN	This test is able to check horn operation [On].	

WORK SUPPORT

Support Item	Description	
ID READ	The registered ID number is displayed.	
ID REGIST	Refer to WT-6, "ID Registration Procedure".	

Self-Diagnosis (Without CONSULT-III)

INFOID:0000000006236774

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

SELF DIAGNOSTIC PROCEDURE (WITHOUT CONSULT-III)

- 1. Turn ignition switch ON.
- 2. Ground the tire pressure warning check connector to initiate self diagnosis.
- 3. Compare the flashing pattern with the flash code chart below.

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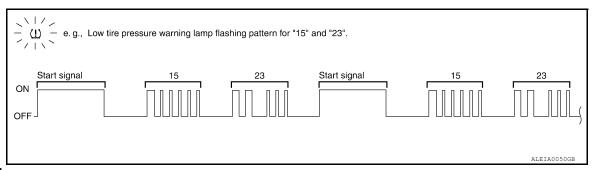
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DIAGNOSIS SYSTEM (BCM)



NOTE:

The system is normal when the low tire pressure warning lamp flashes 5 times and continues repeating. Self-diagnosis results are erased automatically by turning the ignition switch OFF.

Flash Code	Malfunction part	Reference page
15 16 17 18	Tire pressure dropped below specified value. Refer to WT-8, "System Description".	_
21 22 23 24	Transmitter no data (FL) Transmitter no data (FR) Transmitter no data (RR) Transmitter no data (RL)	<u>WT-13</u>
31 32 33 34	Transmitter checksum error (FL) Transmitter checksum error (FR) Transmitter checksum error (RR) Transmitter checksum error (RL)	<u>WT-15</u>
35 36 37 38	Transmitter pressure data error (FL) Transmitter pressure data error (FR) Transmitter pressure data error (RR) Transmitter pressure data error (RL)	<u>WT-17</u>
41 42 43 44	Transmitter function code error (FL) Transmitter function code error (FR) Transmitter function code error (RR) Transmitter function code error (RL)	<u>WT-15</u>
45 46 47 48	Transmitter battery voltage low (FL) Transmitter battery voltage low (FR) Transmitter battery voltage low (RR) Transmitter battery voltage low (RL)	<u>WT-15</u>
52	Vehicle speed signal	<u>WT-19</u>
53	TPMS malfunction in BCM	<u>WT-20</u>

C1708 - C1711 DATA FROM TRANSMITTER NOT BEING RECEIVED

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

C1708 - C1711 DATA FROM TRANSMITTER NOT BEING RECEIVED

Description INFOID:0000000006236775

Tire pressure data for one or more transmitters is not being received by the BCM.

DTC Logic

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- · Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- · Register TPMS transmitter IDs

DTC DETECTION LOGIC

DTC	CONSULT-III	DTC detecting condition
C1708	[NO - DATA] - FL	Data from FL transmitter cannot be received.
C1709	[NO - DATA] - FR	Data from FR transmitter cannot be received.
C1710	[NO - DATA] - RR	Data from RR transmitter cannot be received.
C1711	[NO - DATA] - RL	Data from RL transmitter cannot be received.

DTC CONFIRMATION PROCEDURE

1. ID REGISTRATION AND VEHICLE DRIVING

- Carry out ID registration of all transmitters. Refer to WT-6, "ID Registration Procedure".
- Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.
- 3. Check all tire pressures with CONSULT-III within 5 minutes.

Does "DATA MONITOR ITEM" display tire pressure as normal without any warning lamp?

YES >> Inspection End.

>> Refer to WT-13, "Diagnosis Procedure". NO

Diagnosis Procedure

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- · Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

MALFUNCTION CODE NO. 21, 22, 23 OR 24 (DTC C1708, C1709, C1710 OR C1711)

1.CHECK BCM

Drive for several minutes. Check all tire pressures with CONSULT-III.

Are all tire pressures displayed as 0 kPa?

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

2.CHECK TIRE PRESSURE RECEIVER CONNECTOR

Check tire pressure receiver connector for damage or loose connections.

Is the inspection result normal?

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C1708 - C1711 DATA FROM TRANSMITTER NOT BEING RECEIVED

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace BCM, then GO TO 3. Refer to BCS-80, "Removal and Installation".

NO >> Repair or replace tire pressure receiver connector.

3.PERFORM ID REGISTRATION

Carry out ID registration of all transmitters. Refer to WT-6, "ID Registration Procedure".

Is there a tire that cannot register ID?

YES >> Replace malfunctioning transmitter, then GO TO 5. Refer to WT-62, "Removal and Installation".

NO >> GO TO 4

4. DRIVE VEHICLE

1. Drive at a speed of 40 km/h (25 MPH) or more for several minutes without stopping.

Check all tire pressures with CONSULT-III within 15 minutes after vehicle speed becomes 17 km/h (11 MPH).

Does "DATA MONITOR ITEM" display tire pressure as normal without any warning lamp?

YES >> Inspection End.

NO >> GO TO 5

5.ID REGISTRATION AND VEHICLE DRIVING

- Carry out ID registration of all transmitters. Refer to WT-6, "ID Registration Procedure".
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.
- 3. Check all tire pressures with CONSULT-III within 5 minutes.

Does "DATA MONITOR ITEM" display tire pressure as normal without any warning lamp?

YES >> Inspection End.

NO >> Proceed to the inspection applicable to DTC.

Special Repair Requirement

INFOID:0000000006236778

Perform preliminary check. Refer to WT-5, "Preliminary Check".

C1712 - C1715, C1720 - C1723, C1724 - C1727 TRANSMITTER MALFUNCTION

< DTC/CIRCUIT DIAGNOSIS >

C1712 - C1715, C1720 - C1723, C1724 - C1727 TRANSMITTER MALFUNC-TION

Description INFOID:000000006236779

One or more transmitters are malfunctioning internally.

DTC Logic

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

DTC DETECTION LOGIC

DTC	CONSULT-III	DTC detecting condition
C1712	[CHECKSUM - ERR] - FL	Checksum data from FL transmitter is malfunctioning.
C1713	[CHECKSUM - ERR] - FR	Checksum data from FR transmitter is malfunctioning.
C1714	[CHECKSUM - ERR] - RR	Checksum data from RR transmitter is malfunctioning.
C1715	[CHECKSUM - ERR] - RL	Checksum data from RL transmitter is malfunctioning.
C1720	[CODE - ERR] - FL	Function code data from FL transmitter is malfunctioning.
C1721	[CODE - ERR] - FR	Function code data from FR transmitter is malfunctioning.
C1722	[CODE - ERR] - RR	Function code data from RR transmitter is malfunctioning.
C1723	[CODE - ERR] - RL	Function code data from RL transmitter is malfunctioning.
C1724	[BATT - VOLT - LOW] - FL	Battery voltage of FL transmitter drops.
C1725	[BATT - VOLT - LOW] - FR	Battery voltage of FR transmitter drops.
C1726	[BATT - VOLT - LOW] - RR	Battery voltage of RR transmitter drops.
C1727	[BATT - VOLT - LOW] - RL	Battery voltage of RL transmitter drops.

DTC CONFIRMATION PROCEDURE

1. DRIVE VEHICLE

- 1. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.
- Check all tire pressures with CONSULT-III within 5 minutes.

Does "DATA MONITOR ITEM" display tire pressure as normal without any warning lamp?

YES >> Inspection End.

NO >> Refer to WT-15, "Diagnosis Procedure".

Diagnosis Procedure

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- · Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

MALFUNCTION CODE NO. 31, 32, 33, 34, 41, 42, 43, 44, 45, 46, 47 OR 48 (DTC C1712, C1713, C1714, C1715, C1720, C1721, C1722, C1723, C1724, C1725, C1726 OR C1727)

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C1712 - C1715, C1720 - C1723, C1724 - C1727 TRANSMITTER MALFUNCTION

< DTC/CIRCUIT DIAGNOSIS >

1. PERFORM ID REGISTRATION

- 1. Carry out ID registration of all transmitters. Refer to WT-6, "ID Registration Procedure".
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.

>> GO TO 2

2. REPLACE TRANSMITTER

- 1. Check low tire pressure warning lamp again for flashing, replace malfunctioning transmitter. Refer to <u>WT-62</u>, "Removal and Installation".
- 2. Carry out ID registration of all transmitters. Refer to WT-6, "ID Registration Procedure".

Can ID registration of all transmitters be completed?

YES >> GO TO 3

NO >> GO TO WT-13, "Diagnosis Procedure".

3.DRIVE VEHICLE

- 1. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.
- Check all tire pressures with CONSULT-III within 5 minutes.

Does "DATA MONITOR ITEM" display tire pressure as normal without any warning lamp?

YES >> Inspection End.

NO >> Replace malfunctioning transmitter, and perform Step 3 again. Refer to <u>WT-62, "Removal and Installation"</u>.

Special Repair Requirement

INFOID:0000000006236782

Perform preliminary check. Refer to WT-5, "Preliminary Check".

C1716 - C1719 TRANSMITTER PRESSURE MALFUNCTION

< DTC/CIRCUIT DIAGNOSIS >

C1716 - C1719 TRANSMITTER PRESSURE MALFUNCTION

Description INFOID:0000000006236783

Air pressure data from one or more transmitters is out of range.

DTC Logic INFOID:0000000006236784

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- · Register TPMS transmitter IDs

DTC DETECTION LOGIC

DTC	CONSULT - III	DTC detecting condition
C1716	[PRESSDATA - ERR] FL	Air pressure data from FL transmitter is malfunctioning.
C1717	[PRESSDATA - ERR] FR	Air pressure data from FR transmitter is malfunctioning.
C1718	[PRESSDATA - ERR] RR	Air pressure data from RR transmitter is malfunctioning.
C1719	[PRESSDATA - ERR] RL	Air pressure data from RL transmitter is malfunctioning.

DTC CONFIRMATION PROCEDURE

1.ID REGISTRATION AND VEHICLE DRIVING

- Carry out ID registration of all transmitters. Refer to WT-6, "ID Registration Procedure".
- Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.
- 3. Check all tire pressures with CONSULT-III within 5 minutes.

Does "DATA MONITOR ITEM" display tire pressure as normal without any warning lamp?

YES >> Inspection End.

NO >> Refer to WT-17, "Diagnosis Procedure".

Diagnosis Procedure

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Activate and display TPMS transmitter IDs
- · Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

MALFUNCTION CODE NO. 35, 36, 37 OR 38 (DTC C1716, C1717, C1718 OR C1719)

1. CHECK ALL TIRE PRESSURES

Check all tire pressures. Refer to WT-64, "Tire".

Are there any tires with pressure of 64 psi or more?

YES >> Adjust tire pressure to specified value.

NO >> GO TO 2

2.ID REGISTRATION AND VEHICLE DRIVING

- Carry out ID registration of all transmitters. Refer to WT-6, "ID Registration Procedure".
- Drive at a speed of 40 km/h (25 MPH) or more for several minutes without stopping.
- Check all tire pressures with CONSULT-III within 15 minutes after vehicle speed becomes 17 km/h (11 MPH).

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2011 Maxima

C1716 - C1719 TRANSMITTER PRESSURE MALFUNCTION

< DTC/CIRCUIT DIAGNOSIS >

Does "DATA MONITOR ITEM" display 64 psi or more?

YES >> Replace malfunctioning transmitter, then GO TO 3. Refer to WT-62, "Removal and Installation".

NO >> GO TO 3

3.ID REGISTRATION AND VEHICLE DRIVING

- 1. Carry out ID registration of all transmitters. Refer to WT-6, "ID Registration Procedure".
- Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.
- 3. Check all tire pressures with CONSULT-III within 5 minutes.

Does "DATA MONITOR ITEM" display tire pressure as normal without any warning lamp?

YES >> Inspection End.

NO >> Proceed to the inspection applicable to DTC.

Special Repair Requirement

INFOID:0000000006236786

Perform preliminary check. Refer to WT-5, "Preliminary Check".

C1729 VEHICLE SPEED SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

C1729 VEHICLE SPEED SIGNAL

Description INFOID:0000000006236787

The vehicle speed signal is not being detected by the BCM.

DTC Logic INFOID:0000000006236788

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- · Register TPMS transmitter IDs

DTC DETECTION LOGIC

DTC CONSULT - III		DTC detecting condition		
C1729	VHCL SPEED SIG ERR	Vehicle speed signal is in error.		

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAGNOSTIC RESULTS

- On "SELECT DIAG MODE", select the "SELF-DIAG RESULT" screen.
- Check display contents on "SELF DIAG RESULT" screen.

Is the "CAN COMM CIRCUIT" displayed in the self-diagnosis display?

>> Refer to WT-19, "Diagnosis Procedure". YES

NO >> Inspection End.

Diagnosis Procedure

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- · Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

MALFUNCTION CODE NO. 52 (DTC C1729)

$oldsymbol{1}$. CHECK SELF-DIAGNOSTIC RESULTS

- On "SELECT DIAG MODE", select the "SELF-DIAG RESULT" screen.
- Check display contents on "SELF DIAG RESULT" screen.

Is the "CAN COMM CIRCUIT" displayed in the self-diagnosis display?

- YES >> Perform trouble diagnosis for CAN communication system. Refer to LAN-15, "Trouble Diagnosis Flow Chart".
- >> Check combination meter. Refer to MWI-29, "CONSULT-III Function (METER/M&A)". NO

Special Repair Requirement

Perform preliminary check. Refer to WT-5, "Preliminary Check".

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INFOID:0000000006236790

< DTC/CIRCUIT DIAGNOSIS >

C1734 CONTROL UNIT

Description INFOID.000000006236791

An internal malfunction has been detected in the TPMS function of the BCM.

DTC Logic

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- · Register TPMS transmitter IDs

DTC DETECTION LOGIC

DTC	CONSULT - III	DTC detecting condition	
C1734 CONTROL UNIT		TPMS malfunction in BCM.	

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAGNOSTIC RESULTS

- 1. On "SELECT DIAG MODE", select the "SELF-DIAG RESULT" screen.
- 2. Check display contents on "SELF DIAG RESULT" screen.

Is C1734 displayed in the self-diagnosis display?

YES >> Refer to WT-20, "Diagnosis Procedure".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000006236793

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

Regarding Wiring Diagram information, refer to WT-46, "Wiring Diagram".

MALFUNCTION CODE NO. 53 (DTC C1734)

1.SELF-DIAGNOSTIC RESULTS

- 1. On "SELECT DIAG" mode, select the "SELF-DIAG RESULT" screen for BCM.
- Check display contents on "SELF-DIAG RESULT".

Does self-diagnostic results indicate any DTC other than C1734?

YES >> Perform trouble diagnosis for DTC. Refer to <u>BCS-65, "DTC_Index"</u>.

NO >> GO TO 2.

2.CHECK BCM HARNESS CONNECTORS

Check BCM harness connectors for damage or loose connections.

Are the BCM harness connectors damaged or loose?

YES >> Repair or replace damaged parts.

NO >> GO TO 3.

3.BCM POWER SUPPLY AND GROUND

Revision: January 2012 WT-20 2011 Maxima

C1734 CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

Check BCM power supply and ground. Refer to BCS-80, "Removal and Installation".

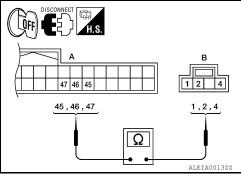
Are the power supply and grounds normal?

YES >> GO TO 4.

NO >> Repair power supply or grounds as necessary.

4. CHECK HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connector M18 (A) and tire pressure receiver harness connector M70 (B).
- 3. Check continuity between BCM harness connector and tire pressure receiver harness connector.



В	СМ	Tire pressure receiver		Continuity	
Connector Terminal		Connector Terminal		Continuity	
	45		1		
M18	46	M70	4	YES	
	47		2		

Does continuity exist?

YES >> GO TO 5.

NO >> Repair circuits as necessary.

5.BCM INPUT/OUTPUT SIGNALS

Check BCM input/output signals. Refer to BCS-42, "Reference Value".

Are the inputs and outputs normal?

YES >> Inspection End.

NO >> Replace BCM. Refer to BCS-80, "Removal and Installation".

Special Repair Requirement

Perform preliminary check. Refer to WT-5, "Preliminary Check".

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Activate and display TPMS transmitter IDs
- · Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs
- · Check Intelligent Key relative signal strength
- · Confirm vehicle Intelligent Key antenna signal strength

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ED WIDED LII	Other than front wiper switch HI	OFF
FR WIPER HI	Front wiper switch HI	ON
ED WIDED LOW	Other than front wiper switch LO	OFF
FR WIPER LOW	Front wiper switch LO	ON
FR WASHER SW	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
ED WIDED INT	Other than front wiper switch INT	OFF
FR WIPER INT	Front wiper switch INT	ON
ED WIDED STOD	Front wiper is not in STOP position	OFF
FR WIPER STOP	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDNI CIONAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TUDNI CIONIAL I	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TAIL LAMD CM	Other than lighting switch 1ST and 2ND	OFF
TAIL LAMP SW	Lighting switch 1ST or 2ND	ON
LILDEAM CW/	Other than lighting switch HI	OFF
HI BEAM SW	Lighting switch HI	ON
LIEAD LAMB CM/4	Other than lighting switch 2ND	OFF
HEAD LAMP SW 1	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
HEAD LAWIP SW 2	Lighting switch 2ND	ON
DACCING CW	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
ALITO LICUT CW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
ED EOC SW	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
DOOD SW DD	Driver door closed	OFF
DOOR SW-DR	Driver door opened	ON

Monitor Item	Condition	Value/Status
DOOR SW-AS	Passenger door closed	OFF
DOOR SW-AS	Passenger door opened	ON
DOOR SW-RR	Rear door RH closed	OFF
DOOK OW-KK	Rear door RH opened	ON
DOOR SW-RL	Rear door LH closed	OFF
DOOK SW-KE	Rear door LH opened	ON
CDL LOCK SW	Other than power door lock switch LOCK	OFF
DDL LOCK SW	Power door lock switch LOCK	ON
CDL UNLOCK SW	Other than power door lock switch UNLOCK	OFF
DDL UNLOCK SW	Power door lock switch UNLOCK	ON
(EY CYL LK-SW	Other than driver door key cylinder LOCK position	OFF
CET CTL LK-SW	Driver door key cylinder LOCK position	ON
(EY CYL UN-SW	Other than driver door key cylinder UNLOCK position	OFF
ET CTL UN-3W	Driver door key cylinder UNLOCK position	ON
HAZARD SW	When hazard switch is not pressed	OFF
IAZARD SW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
R CANCEL SW	Trunk lid opener cancel switch OFF	OFF
R CANCEL SW	Trunk lid opener cancel switch ON	ON
TR/BD OPEN SW	Trunk lid opener switch OFF	OFF
IVBD OF LIN SW	While the trunk lid opener switch is turned ON	ON
RNK/HAT MNTR	Trunk lid closed	OFF
KINNTAI WINTK	Trunk lid opened	ON
RKE-LOCK	When LOCK button of Intelligent Key is not pressed	OFF
KKE-LOCK	When LOCK button of Intelligent Key is pressed	ON
RKE-UNLOCK	When UNLOCK button of Intelligent Key is not pressed	OFF
KKE-UNLOCK	When UNLOCK button of Intelligent Key is pressed	ON
DVE TD/DD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
RKE-TR/BD	When TRUNK OPEN button of Intelligent Key is pressed	ON
RKE-PANIC	When PANIC button of Intelligent Key is not pressed	OFF
KKE-PAINIC	When PANIC button of Intelligent Key is pressed	ON
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
ANE-P/W UPEN	When UNLOCK button of Intelligent Key is pressed and held	ON
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
MAC-WODE ONG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
OPTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
OF HOAL SENSOR	When outside of the vehicle is dark	Close to 0 V
REQ SW -DR	When front door request switch is not pressed (driver side)	OFF
VEW 011 -DK	When front door request switch is pressed (driver side)	ON
	When front door request switch is not pressed (passenger side)	OFF
REQ SW -AS	When front door request switch is pressed (passenger side)	ON
DEO CW. DI	When rear door request switch is not pressed (driver side)	OFF
REQ SW -RL	When rear door request switch is pressed (driver side)	ON

Monitor Item	Condition	Value/Status
REQ SW -RR	When rear door request switch is not pressed (passenger side)	OFF
REQ 3W -RR	When rear door request switch is pressed (passenger side)	ON
REQ SW -BD/TR	When trunk request switch is not pressed	OFF
REQ 5W -BD/TR	When trunk request switch is pressed	ON
DUOLI OM	When engine switch (push switch) is not pressed	OFF
PUSH SW	When engine switch (push switch) is pressed	ON
ICN DIV 2 E/D	Ignition switch OFF or ACC	OFF
IGN RLY 2 -F/B	Ignition switch ON	ON
ACC DIV E/D	Ignition switch OFF	OFF
ACC RLY -F/B	Ignition switch ACC or ON	ON
DDAKE CW 4	When the brake pedal is not depressed	ON
BRAKE SW 1	When the brake pedal is depressed	OFF
DETE/CANCL CW	When selector lever is in P position	OFF
DETE/CANCL SW	When selector lever is in any position other than P	ON
CET DAI/AL CVA/	When selector lever is in any position other than P or N	OFF
SFT PN/N SW	When selector lever is in P or N position	ON
	Driver door UNLOCK status	OFF
UNLK SEN -DR	Driver door LOCK status	ON
DUOLLOW IDDM	When engine switch (push switch) is not pressed	OFF
PUSH SW -IPDM	When engine switch (push switch) is pressed	ON
ION DIVA E/D	Ignition switch OFF or ACC	OFF
IGN RLY1 -F/B	Ignition switch ON	ON
DETE OW IDDM	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
OFT DIV IDDIA	When selector lever is in any position other than P or N	OFF
SFT PN -IPDM	When selector lever is in P or N position	ON
OET D. MET	When selector lever is in any position other than P	OFF
SFT P -MET	When selector lever is in P position	ON
	When selector lever is in any position other than N	OFF
SFT N -MET	When selector lever is in N position	ON
	Engine stopped	STOP
	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
	Driver door LOCK status	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door UNLOCK status	UNLK
	Passenger door LOCK status	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door UNLOCK status	UNLK
	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET

Monitor Item	Condition	Value/Status
PRMT ENG STRT	When the engine start is prohibited	RESET
TRIVIT LING STRI	When the engine start is permitted	SET
KEY SW -SLOT	When Intelligent Key is not inserted into key slot	OFF
KLT 3W -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
CONFRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
CONTRIVID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET
CONFIRM ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET
CONFIRMIDS	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	YET
CONFIRM ID2	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	YET
	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth key is not registered to BCM	YET
1 F 4	The ID of fourth key is registered to BCM	DONE
FD 2	The ID of third key is not registered to BCM	YET
TP 3	The ID of third key is registered to BCM	DONE
-D 0	The ID of second key is not registered to BCM	YET
P 2	The ID of second key is registered to BCM	DONE
	The ID of first key is not registered to BCM	YET
P 1	The ID of first key is registered to BCM	DONE
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire
	When ID of front LH tire transmitter is registered	DONE
D REGST FL1	When ID of front LH tire transmitter is not registered	YET
	When ID of front RH tire transmitter is registered	DONE
D REGST FR1	When ID of front RH tire transmitter is not registered	YET
	When ID of rear RH tire transmitter is registered	DONE
D REGST RR1	When ID of rear RH tire transmitter is not registered	YET
	When ID of rear LH tire transmitter is registered	DONE
	TATION ID OFFICIAL FIRMS HANDINING TO TEMPLE TO	

Monitor Item	Condition	Value/Status
WARNING LAMP	Tire pressure indicator OFF	OFF
WARNING LAWIF	Tire pressure indicator ON	ON
BUZZER	Tire pressure warning alarm is not sounding	OFF
BOZZEN	Tire pressure warning alarm is sounding	ON

Terminal Layout

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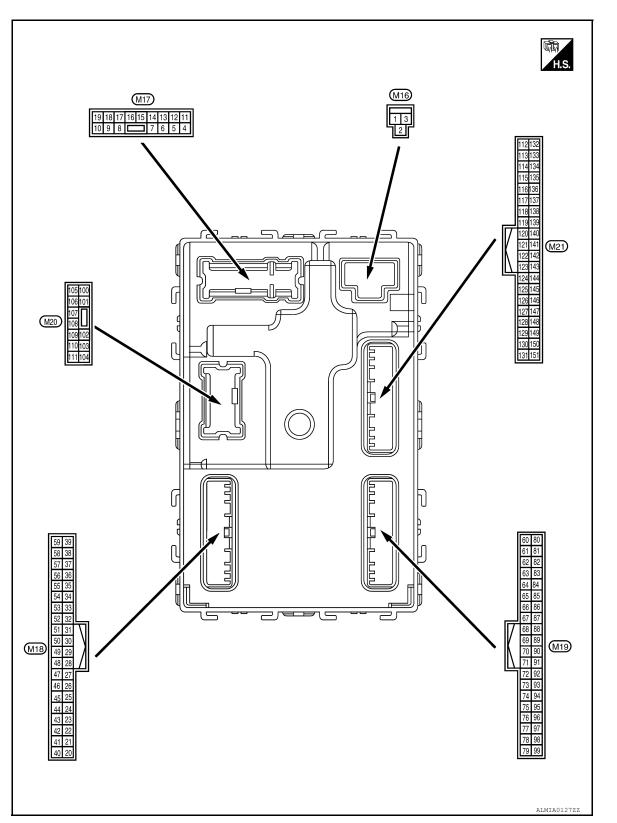
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Physical Values

		.				
	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage
4	Ground	Interior room lamp	Output	After passing the ir er operation time	nterior room lamp battery sav-	0V
(P/W)	Giodila	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage
5	Ground	Front door RH UN-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage
(G)	Giodila	LOCK	Output	T TOTIL GOOT IXTT	Other than UNLOCK (actuator is not activated)	0V
7	Ground	Step lamp	Output	Step lamp	ON	0V
(R/W)	Giodila	Зієр іапір	Output	Step lamp	OFF	Battery voltage
8	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage
(V)	Ordana		Catpat	7 til deele	Other than LOCK (actuator is not activated)	ov
9	Ground	Front door LH UN- LOCK	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage
(L)	0.000				Other than UNLOCK (actuator is not activated)	ov
10	Ground	Rear door RH and rear door LH UN-	Output	Rear door RH	UNLOCK (actuator is activated)	Battery voltage
(G)		LOCK		and rear door LH	Other than UNLOCK (actuator is not activated)	ov
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground		Ignition switch ON		0V
					OFF	0V
14 (GR/ W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0 2 ms JSNIA0010GB
15	Craund	ACC indicator law-	Out	Ignition contab	OFF	Battery voltage
(Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	ACC or ON	0V

Terminal No. Description							
	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	Α
(*)	()		Output		Turn signal switch OFF	0V	В
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	C
					Turn signal switch OFF	0V	WT
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 15 0 1 s PKID0926E 6.5 V	F
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage	Н
(Y)	(Y) Ground	control	Output	lamp	ON	0V	
21	Ground	Optical sensor signal	Input	Ignition switch ON	When outside of the vehi- cle is bright	Close to 5V	
(P/B)					When outside of the vehi- cle is dark	Close to 0V	
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage	J
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is re- leased)	ov	K
(O/L)		Stop lamp Switch 2	mpat	otop iamp omton	ON (brake pedal is depressed)	Battery voltage	
27 (O)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	M N
					UNLOCK status	0V	
29				When Intelligent K	ey is inserted into key slot	Battery voltage	0
(Y)	Ground	Key slot switch	Input	_	ey is not inserted into key slot		_
31	Crave	Rear window defog-	lmm::4	Rear window de-	OFF	0V	_
(G)	Ground	ger feedback signal	Input	fogger switch	ON	Battery voltage	Р

	inal No. e color)	Description				Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms 10 ms 11.8 V	
					ON (when front door RH opens)	0V	
37 (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB	
					ON	0V	
38 (GR/ W)	Ground	Rear window defog- ger ON signal	Input	Rear window de- fogger switch	OFF	5V 0V	
40 (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB	
				Ignition switch OF	1	0V	
41	_	Engine switch (push		Engine switch	ON	5.5V	
(W)	Ground	switch) illumination	Output	(push switch) illu- mination	OFF	OV	
42	Ground	LOCK indicator lamp	Output	LOCK indicator	ON	0V	
(R)	Cidana		Саграс	lamp	OFF	Battery voltage	
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		ov	
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V	
(V/W)		power supply output		J	ACC or ON	5.0V	

	inal No.	Description		O a differen		Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	J-
47 ¹		Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s	(C
(G/O)	Ground	er signal	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 	W
48		Selector lever trans-			P or N position	12.0V	C
(R/G)	Ground	mission range switch signal	Input	Selector lever	Except P and N positions	0V	
					ON	0V	-
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 1 1 s JPMIA0014GB	
					OFF	Battery voltage	k
				Combination	All switch OFF Lighting switch 1ST Lighting switch high-beam	0V (V)	L
50 (LG/ B)	Ground	Combination switch INPUT 5	Output	switch (Wiper intermit- tent dial 4)	Lighting switch 2ND Turn signal switch RH	10 5 0 2 ms	N
						10.7V	Ν
					All switch OFF (Wiper intermittent dial 4)	0V	
					Front wiper switch HI (Wiper intermittent dial 4)	(V)	
51 (L/W)	Ground	Combination switch INPUT 1	Output	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	15 10 5 0 2 ms 10.7V	F

	inal No.	Description				Value	
(Wire (+)	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	
			-		All switch OFF (Wiper intermittent dial 4)	ov	
					Front washer switch ON (Wiper intermittent dial 4)	(V)	
52 (G/B)	Ground	Combination switch INPUT 2	Output	Combination switch	Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	10 5 0 2 ms JPMIA0033GB	
					All switch OFF	0V	
					Front wiper switch INT		
				Combination	Front wiper switch LO	(V)	
53 (LG/ R)	Ground	Combination switch INPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms	
						10.7V	
				Combination	All switch OFF	0V	
					Front fog lamp switch ON	ΛΛ	
					Lighting switch 2ND	15 10	
54 (G/Y)	Ground	Combination switch INPUT 4	Output	switch (Wiper intermit-	Lighting switch flash-to- pass	5 0	
				tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB	
57 ¹ (W)	Ground	Tire pressure warn- ing check switch	Input		_	5V	
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (front door LH OPEN)	0V	
59	Ground	ound Rear window defog- ger relay	Output	Rear window de- fogger	Active	Battery voltage	
(G/R)	GIUUIIU				Not activated	0V	

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
60	Ground	Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	B C
(B/R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	WT F
61	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 11 1 s JMKIA0062GB	G H
(W/R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	J K L
62	Ground	und Front outside handle RH antenna (-)	Qutout	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	M
(V)			switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	O	

	inal No. e color)	Description Input/		Condition		Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
63	Ground	Front outside handle RH antenna (+)	Output	When the front door RH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(P)					When Intelligent Key is not in the antenna detection area	(V) 15 10 1	
64	Ground	Front outside handle LH antenna (-)	Output	When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(V)					When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	
65	Ground	und Front outside handle LH antenna (+)	Output	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(P)			Catput	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

	inal No.	Description				Value	А
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	^
68 (G/O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	В
69 (O)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	С
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch OFF or ACC ON		0V Battery voltage	D
71		Domete koylege entry	Input/	During waiting		(V)	WT
(L/O)	Ground		Output	When operating either button on Intelligent Key		(V) 15 10 1 ms JMKIA0065GB	G H
	Ground	ound Combination switch OUTPUT 5	Input	t Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	J K L
75 (R/Y)					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	M
				Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3V	O	

	inal No.	Description		.		Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
		Combination switch OUTPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 2 ms JPMIA0041GB 1.4V
76 (R/G)	Ground				Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0036GB 1.3V
(K/G)					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 2 ms 1.3V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB
78 (P)	Ground	CAN-L	Input/ Output		_	_
79 (L)	Ground	CAN-H	Input/ Output		_	_
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF Blinking ON	OV (V) 15 10 5 0 JPMIA0015GB 6.5V Battery voltage
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0V Ratteny voltage
(20)		•			UN	Battery voltage

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description	Input/		Condition	Value				
(+)	(-)	Signal name	Output		Condition	(Approx.)				
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V				
(L)	Ground	Acc relay control	Output	ignition switch	ACC or ON	Battery voltage				
84 (Y/R)	Ground	CVT shift selector	Output		_	Battery voltage				
87	Ground	Selector lever P posi-	Input	Selector lever	P position	OV				
(G/B)	Giodila	tion switch	IIIput	Selector level	Any position other than P	Battery voltage				
	(Pround Input				ON (pressed)	0V				
			Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB					
					ON (pressed)	0V				
89 (R)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 10 ms JPMIA0016GB				
90	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	OV				
(Y)	Ground	lay control	Output	igilition switch	ON	Battery voltage				
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage				

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< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description	T		Oardition	Value		
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)		
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB		
		Combination switch OUTPUT 1	Input	Combination switch (Wiper intermittent dial 4)	Turn signal switch LH	(V) 15 10 5 2 ms JPMIA0037GB		
95 (R/W)	Ground				Turn signal switch RH	(V) 15 10 2 ms JPMIA0036GB		
					Front wiper switch LO	(V) 15 10 2 ms JPMIA0038GB 1.3V		
					Front washer switch ON	(V) 15 10 5 2 ms JPMIA0039GB 1.3V		

< ECU DIAGNOSIS INFORMATION >

	ninal No.	Description				Value	А
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	A
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0	В
				JPMIA0041GB 1.4V	D		
		Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms	WT F			
96 (P/B)	Ground	Combination switch OUTPUT 4	Input	Combination switch		1.3V	G
(1.2)					Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0	Н
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10	J
						2 ms	K
						JPMIA0039GB 1.3V	L

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value			
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)			
					All switch OFF	(V) 15 10 5 0 JPMIA0041GB 1.4V			
			Input	Combination switch (Wiper intermittent dial 4)	Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB			
97 (R/B)	Ground	Combination switch OUTPUT 2			Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB			
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB			
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB			
					Pressed	0 V			
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 10 ms JPMIA0012GB 1.1V			

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description	ı		0 1111	Value	- A			
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)				
103	Ground	Trunk lid opening.	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage	В			
(V)	Giouna	Trunk ild opening.	Output	Trunk iid	Close (trunk lid opener actuator is not activated)	0V	-			
110 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	ON OFF	0V Battery voltage	<u> </u>			
114	Ground	Trunk room antenna	Quitout	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 11 s JMKIA0062GB	W ⁻			
(B)	Ground	1 (-)	Output		When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	G			
115	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	J			
(W)	Cround	1 (+)	Сири	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	L M			

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< ECU DIAGNOSIS INFORMATION >

	inal No.	Description				Value			
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)			
118		Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 1			
(L/O)	Ground	na (-)	Output	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB			
119 (BR/	Ground	Rear bumper anten-	Output	When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB			
W)		na (+)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB			
127 (BR/ W)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	Battery voltage 0V			
130 (W)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms 11.8V			
132 (R)	Ground	Starter motor relay control	Output	Ignition switch ON	ON (trunk is open) When selector lever is in P or N position and the brake is depressed When selector lever is in P or N position and the brake is not depressed	OV Battery voltage OV			

< ECU DIAGNOSIS INFORMATION >

	ninal No.	Description				Value
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)
140	Ground	Engine switch (push	Input	Engine switch	Pressed	0V
(BR)	Ground	switch)	Input	(push switch)	Not pressed	Battery voltage
141 (BR)	Ground	Trunk request switch	Input	Trunk request switch	ON (pressed) OFF (not pressed)	0V (V) 15 10 5 0
					Counding	1.0V
144 (GR)	Ground	Request switch buzz- er	Output	Request switch buzzer	Sounding Not sounding	Battery voltage
						0V
147 (L/R)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed Not pressed	Battery voltage
148 (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V
					ON (when rear door RH opens)	ov
149 (R/B)	Ground	Ground Rear door LH switch		Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms 10 ms 11.8V
					ON (when rear door LH opens)	ov

^{1 :} With low tire pressure monitoring system

Self-Diagnosis (With CONSULT-III)

INFOID:0000000006236799

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NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- · Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

FUNCTION

Self-Diagnostic Results Mode

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< ECU DIAGNOSIS INFORMATION >

Diagnostic item	Diagnostic item is detected when ···	Reference page
LOW - PRESSURE - FL [C1704] LOW - PRESSURE - FR [C1705] LOW - PRESSURE - RR [C1706] LOW - PRESSURE - RL [C1707]	Tire pressures dropped below specified value. Refer to WT-8, "System Description".	_
[NO-DATA] - FL [C1708] [NO-DATA] - FR [C1709] [NO-DATA] - RR [C1710] [NO-DATA] - RL [C1711]	Data from FL transmitter cannot be received. Data from FR transmitter cannot be received. Data from RR transmitter cannot be received. Data from RL transmitter cannot be received.	<u>WT-13</u>
[CHECKSUM- ERR] - FL [C1712] [CHECKSUM- ERR] - FR [C1713] [CHECKSUM- ERR] - RR [C1714] [CHECKSUM- ERR] - RL [C1715]	Checksum data from FL transmitter is malfunctioning. Checksum data from FR transmitter is malfunctioning. Checksum data from RR transmitter is malfunctioning. Checksum data from RL transmitter is malfunctioning.	<u>WT-15</u>
[PRESSDATA- ERR] - FL [C1716] [PRESSDATA- ERR] - FR [C1717] [PRESSDATA- ERR] - RR [C1718] [PRESSDATA- ERR] - RL [C1719]	Air pressure data from FL transmitter is malfunctioning. Air pressure data from FR transmitter is malfunctioning. Air pressure data from RR transmitter is malfunctioning. Air pressure data from RL transmitter is malfunctioning.	<u>WT-17</u>
[CODE- ERR] - FL [C1720] [CODE- ERR] - FR [C1721] [CODE- ERR] - RR [C1722] [CODE- ERR] - RL [C1723]	Function code data from FL transmitter is malfunctioning. Function code data from FR transmitter is malfunctioning. Function code data from RR transmitter is malfunctioning. Function code data from RL transmitter is malfunctioning.	<u>WT-15</u>
[BATT - VOLT - LOW] - FL [C1724] [BATT - VOLT - LOW] - FR [C1725] [BATT - VOLT - LOW] - RR [C1726] [BATT - VOLT - LOW] - RL [C1727]	Battery voltage of FL transmitter drops. Battery voltage of FR transmitter drops. Battery voltage of RR transmitter drops. Battery voltage of RL transmitter drops.	<u>WT-15</u>
VHCL_SPEED_SIG_ERR [C1729]	Vehicle speed signal is in error.	<u>WT-19</u>
CONTROL MODULE [C1734]	TPMS malfunction in BCM.	<u>WT-20</u>

NOTE:

Before performing the self-diagnosis, be sure to register the ID or else the actual malfunction location may be different from that displayed on CONSULT-III.

Self-Diagnosis (Without CONSULT-III)

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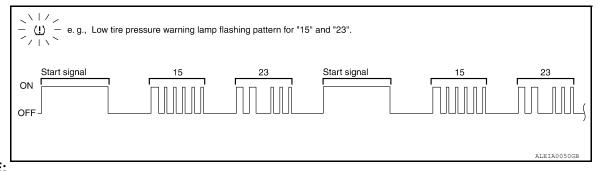
NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

SELF DIAGNOSTIC PROCEDURE (WITHOUT CONSULT-III)

- Turn ignition switch ON.
- Ground the tire pressure warning check connector to initiate self diagnosis.
- 3. Compare the flashing pattern with the flash code chart below.



NOTE:

< ECU DIAGNOSIS INFORMATION >

The system is normal when the low tire pressure warning lamp flashes 5 times and continues repeating. Self-diagnosis results are erased automatically by turning the ignition switch OFF.

Flash Code	Malfunction part	Reference page
15 16 17 18	Tire pressure dropped below specified value. Refer to <u>WT-8, "System Description"</u> .	_
21 22 23 24	Transmitter no data (FL) Transmitter no data (FR) Transmitter no data (RR) Transmitter no data (RL)	<u>WT-13</u>
31 32 33 34	Transmitter checksum error (FL) Transmitter checksum error (FR) Transmitter checksum error (RR) Transmitter checksum error (RL)	<u>WT-15</u>
35 36 37 38	Transmitter pressure data error (FL) Transmitter pressure data error (FR) Transmitter pressure data error (RR) Transmitter pressure data error (RL)	<u>WT-17</u>
41 42 43 44	Transmitter function code error (FL) Transmitter function code error (FR) Transmitter function code error (RR) Transmitter function code error (RL)	<u>WT-15</u>
45 46 47 48	Transmitter battery voltage low (FL) Transmitter battery voltage low (FR) Transmitter battery voltage low (RR) Transmitter battery voltage low (RL)	<u>WT-15</u>
52	Vehicle speed signal	<u>WT-19</u>
53	TPMS malfunction in BCM	<u>WT-20</u>

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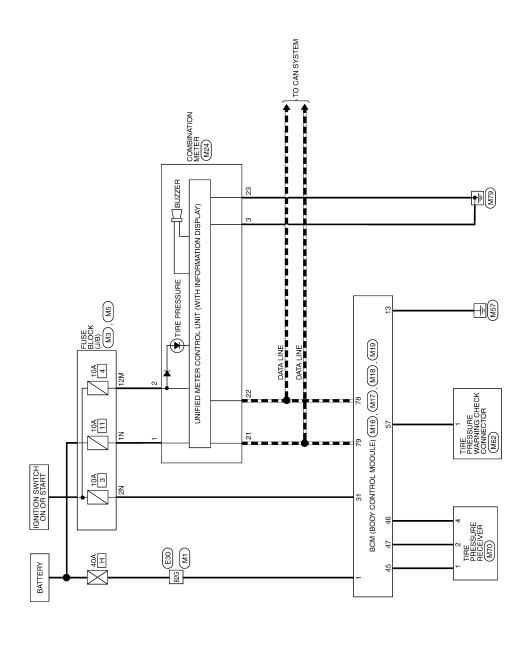
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WIRING DIAGRAM

TIRE PRESSURE MONITORING SYSTEM

Wiring Diagram



TIRE PRESSURE MONITORING SYSTEM

ABEWA0056GB

Α 26 25 24 23 22 21 20 46 45 44 43 42 41 40 В A/L POWER SUPPLY 5V RF2 TUNER SIGNAL 31 30 29 28 27 2 51 50 49 48 47 4 TPMS MODE Connector Name | BCM (BODY CONTROL | MODULE) Signal Name GND RF2 A/L C IGN F/B Signal Name Connector Name | FUSE BLOCK (J/B) 5M 4M 3M 2M 1M 12M 11M 10M 9M 8M 7M 6M 39 38 37 36 35 34 33 32 31 59 58 57 56 55 54 53 52 51 D Connector Color | WHITE GREEN M18 Color of Wire Color of Wire g/0 **≷** 0 Q ≥ Д Connector Color WT Connector No. Connector No. Terminal No. Terminal No. 12M 45 46 31 47 57 H.S. F Connector Name | BCM (BODY CONTROL Signal Name Signal Name GND1 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 Connector Name | FUSE BLOCK (J/B) Н MODULE TIRE PRESSURE MONITORING SYSTEM CONNECTORS WHITE Connector Color | WHITE Color of Wire M17 Color of Wire M۲ Q ш Connector Color Connector No. Connector No. Terminal No. Ferminal No. Z 5 $\frac{2}{N}$ J K 96 86 76 66 56 46 36 176 166 156 146 136 126 116 106 26 16 26G 25G 24G 23G 22G 21G 20G 34G 33G 32G 31G 30G 29G 28G 27G 19G 18G 72G 71G 70G 69G 68G 67G 66G 80G 79G 78G 77G 76G 75G 74G 73G 65G 64G BCM (BODY CONTROL MODULE) 50G 49G 48G 47G 46G 45G 44G 43G 42G Signal Name L BATT (F/L) Signal Name 58G 57G 56G 55G 63G 62G 61G 60G 59G 54G 53G 52G 81G 416 406 396 386 376 366 356 Connector Name | WIRE TO WIRE 82G M 1 3 7 BLACK Connector Color WHITE M16 836 Color of Wire Color of Wire M/B W/B Connector Name Connector Color Ν Connector No. Connector No. Terminal No. erminal No. 82G H.S. 偃 0 ABEIA0079GB Р

Connector No. M62 Connector Name TIRE PRESSURE WARNING CHECK CONNECTOR CONNECTOR MHITE Terminal No. Wire Signal Name 1 W LOW TIRE	Terminal No. Wire Signal Name 82G LG –
Connector No. M24 Connector Name COMBINATION METER	Connector No. E30 Connector Name WIRE TO WIRE Connector Color WHITE 16 26 106 116 126 136 146 156 166 176 206 216 226 236 246 256 266 166 196 276 286 286 306 316 326 336 346 356 366 376 386 376 386 376 386 576 386 516 526 536 546 586 690 616 26 656 666 676 886 676 886 686 706 776 786 796 806 816 826 836 786 776 776 776 776 806
Connector No. M19	Connector No. M70 Connector Name TIRE PRESSURE RECEIVER Connector Color WHITE Terminal No. Wire Signal Name 1 P GND 2 G/O SIGNAL 4 V/W POWER

SYMPTOM DIAGNOSIS

TPMS

Symptom Table

Symptom	Reference
Low tire pressure warning lamp does not come on when ignition switch is turned ON.	<u>WT-50</u>
Low tire pressure warning lamp stays on when ignition switch is turned ON.	<u>WT-51</u>
Low tire pressure warning lamp flashes when ignition switch is turned ON.	<u>WT-52</u>
Hazard warning lamps flash when ignition switch is turned ON.	<u>WT-53</u>
ID registration cannot be completed.	<u>WT-54</u>

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LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

Low Tire Pressure Warning Lamp Does Not Come On When Ignition Switch Is Turned On

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

DIAGNOSTIC PROCEDURE

1.SELF-DIAGNOSTIC RESULT CHECK

Using CONSULT-III, check display contents of BCM in SELF-DIAGNOSIS.

Is "CAN COMM CIRCUIT" displayed in the self-diagnosis display items?

YES >> Malfunction in CAN communication system. Refer to LAN-15, "Trouble Diagnosis Flow Chart".

NO >> GO TO 2

2.CHECK COMBINATION METER

Check combination meter operation. Refer to MWI-29. "CONSULT-III Function (METER/M&A)".

Is the inspection result normal?

YES >> GO TO 3

NO >> Replace combination meter. Refer to IP-11, "Removal and Installation".

3.CHECK LOW TIRE PRESSURE WARNING LAMP

Disconnect BCM harness connector.

Does the low tire pressure warning lamp activate?

YES >> Replace BCM. Refer to BCS-80, "Removal and Installation".

NO >> Check combination meter operation.

LOW TIRE PRESSURE WARNING LAMP STAYS ON

< SYMPTOM DIAGNOSIS > LOW TIRE PRESSURE WARNING LAMP STAYS ON Α Low Tire Pressure Warning Lamp Stays On When Ignition Switch Is Turned On INFOID:0000000006236803 В DIAGNOSTIC PROCEDURE 1. CHECK BCM CONNECTORS Turn ignition switch OFF. Disconnect BCM harness connectors. Check terminals for damage or loose connections. D Is the inspection result normal? YES >> GO TO 2 NO >> Repair or replace damaged parts. WT 2.CHECK BCM POWER SUPPLY AND GROUND CIRCUITS Refer to BCS-36, "Diagnosis Procedure". Is the inspection result normal? F >> Replace BCM. Refer to BCS-80, "Removal and Installation". YES NO >> Repair BCM circuits. Н K L M Ν

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LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP BLINKS

Low Tire Pressure Warning Lamp Flashes When Ignition Switch Is Turned On

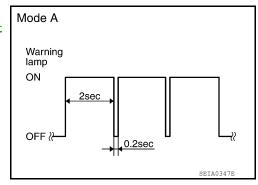
INFOID:0000000006236804

Regarding Wiring Diagram information, refer to WT-46, "Wiring Diagram".

NOTE:

If low tire pressure warning lamp flashes as shown, the system is normal. Flash Mode A

This mode shows transmitter status is OFF-mode.
 Carry out transmitter wake up operation. Refer to WT-5, "Transmitter Wake Up Operation".



DIAGNOSTIC PROCEDURE

1. CHECK BCM CONNECTORS

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connectors.
- 3. Check terminals for damage or loose connections.

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace damaged parts.

2.CHECK TIRE PRESSURE WARNING CHECK CONNECTOR CIRCUIT

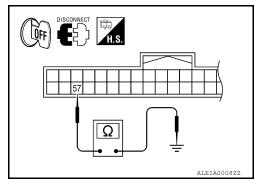
Check continuity between BCM harness connector M18 terminal 57 and ground.

Continuity should not exist.

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-80, "Removal and Installation"</u>.

NO >> Repair circuit for short to ground.



HAZARD WARNING LAMPS FLASH

< SYMPTOM DIAGNOSIS >

HAZARD WARNING LAMPS FLASH Hazard Warning Lamps Flash When Ignition Switch Is Turned On DIAGNOSTIC PROCEDURE 1. CHECK BCM GROUND CIRCUIT Check BCM ground circuit. Refer to BCS-36, "Diagnosis Procedure". Is the inspection result normal? YES >> Replace BCM. Refer to BCS-80, "Removal and Installation". NO >> Repair BCM ground circuit.

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ID REGISTRATION CANNOT BE COMPLETED

< SYMPTOM DIAGNOSIS >

ID REGISTRATION CANNOT BE COMPLETED

ID Registration Cannot Be Completed

INFOID:0000000006236806

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Activate and display TPMS transmitter IDs
- Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

DIAGNOSTIC PROCEDURE

1. PERFORM ID REGISTRATION OF ALL TRANSMITTERS

Carry out ID registration of all transmitters. Refer to WT-6, "ID Registration Procedure".

Can ID registration of all transmitters be completed?

YES >> Inspection End.

NO >> GO TO WT-13, "Diagnosis Procedure".

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

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

Reference page			WT-58	<u>WT-58</u>	<u>WT-58</u>	<u>WT-64</u>	<u>WT-58</u>	I	I	WT-64	FAX-2, "NVH Troubleshooting Chart", FSU-2, "NVH Troubleshooting Chart".	RAX-2, "NVH Troubleshooting Chart", RSU-2, "NVH Troubleshooting Chart".	Refer to TIRES in this chart.	Refer to ROAD WHEEL in this chart.	FAX-2, "NVH Troubleshooting Chart"	BR-6, "NVH Troubleshooting Chart"	ST-8, "NVH Troubleshooting Chart"
Possible cause and SUSPECTED PARTS		Improper installation, looseness	Out-of-round	Imbalance	Incorrect tire pressure	Uneven tire wear	Deformation or damage	Non-uniformity	Incorrect tire size	FRONT AXLE AND FRONT SUSPENSION	REAR AXLE AND REAR SUSPENSION	TIRES	ROAD WHEELS	DRIVE SHAFT	BRAKE	STEERING	
		Noise	×	×	×	×	×	×	×		×	×		×	×	×	×
		Shake	×	×	×	×	×	×		×	×	×		×	×	×	×
		Vibration				×				×	×	×			×		×
	TIRES	Shimmy	×	×	×	×	×	×	×	×	×	×		×		×	×
		Shudder	×	×	×	×	×	×		×	×	×		×		×	×
Symptom		Poor quality ride or handling	×	×	×	×	×	×		×	×		×	×			
		Noise	×	×	×			×			×	×	×		×	×	×
		Shake	×	×	×			×			×	×	×		×	×	×
	ROAD WHEEL	Shimmy, Shud- der	×	×	×			×			×	×	×			×	×
	Poor qua or handlii		×	×	×			×			×	×	×				

^{×:} Applicable

Revision: January 2012 WT-55 2011 Maxima

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

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 SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT 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 Road Wheel

INFOID:0000000008144781

- Genuine NISSAN aluminum wheel is designed for each type of vehicle. Use it on the specified vehicle only.
- Use Genuine NISSAN parts for the wheel nuts.
- Always adjusting the wheel balance prior to using them. For the balance weights, use Genuine NISSAN aluminum wheel weights.
- Use caution when handling the aluminum wheels, because they can be easily scratched. When removing
 dirt, do not use any abrasives, a wire brush, or other items that may scratch the coating. Use a neutral detergent if a detergent is needed.
- After driving on roads scattered with anti-icing salts, wash off the wheels completely.
- 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 wheel.
- Never apply oil to nut and bolt threads.

PREPARATION

< PREPARATION >

PREPARATION

PREPARATION

Special Service Tool

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

Tool number (Kent-Moore No.) Tool name		Description
KV991B1000 (J-45295) Transmitter activation tool	WEIA0144E	Transmitter wake up operation ID registration procedure
— (J-50190) Signal Tech II	ALEIA013122	 Activate and display TPMS transmitter IDs Display tire pressure reported by the TPMS transmitter Read TPMS DTCs Register TPMS transmitter IDs Check Intelligent Key relative signal strength Confirm vehicle Intelligent Key antenna signal strength

Commercial Service Tools

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Tool name		Description
Power tool		Loosening bolts, screws and nuts
	PIIB1407E	

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PERIODIC MAINTENANCE

ROAD WHEEL

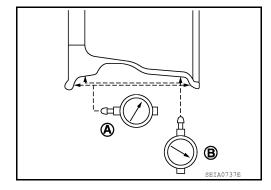
Inspection INFOID:0000000000236813

ALUMINUM WHEEL

- 1. Check tires for wear and improper inflation.
- 2. Check wheels for deformation, cracks and other damage. If deformed, remove wheel and check wheel runout.
- a. Remove tire from aluminum wheel and mount on a tire balance machine.
- b. Set dial indicator as shown in the figure.

Limit

Lateral deflection (A) : Refer to <u>WT-64, "Road Wheel"</u>. Vertical deflection (B) : Refer to <u>WT-64, "Road Wheel"</u>.



TIRE PRESSURE RECEIVER

< REMOVAL AND INSTALLATION >

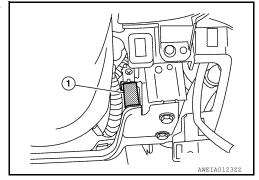
REMOVAL AND INSTALLATION

TIRE PRESSURE RECEIVER

Removal and Installation

REMOVAL

- 1. Remove instrument lower cover LH. Refer to IP-10, "Exploded View".
- 2. Locate tire pressure receiver (1) to the right of the steering column and disconnect tire pressure receiver electrical connector.
- 3. Remove tire pressure receiver (1) from bracket using a suitable tool to release the bracket.



INSTALLATION

Installation is in the reverse order of removal.

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ROAD WHEEL TIRE ASSEMBLY

< REMOVAL AND INSTALLATION >

ROAD WHEEL TIRE ASSEMBLY

Adjustment INFOID:000000006236815

BALANCING WHEELS (ADHESIVE WEIGHT TYPE)

Preparation Before Adjustment

Remove inner and outer balance weights from the road wheel 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 all traces of releasing agent from the road wheel.

Wheel Balance Adjustment

- If a balancer machine has an adhesive weight mode setting, select the adhesive weight mode setting and skip Step 2. below. If a balancer machine only has the clip-on (rim flange) weight mode setting, follow Step 2. to calculate the correct size adhesive weight.
- 1. Set road wheel on balancer machine using the center hole as a guide. Start the balancer machine.
- 2. For balancer machines that only have a clip-on (rim flange) weight mode setting, follow this step to calculate the correct size adhesive weight to use. When inner and outer imbalance values are shown on the balancer machine indicator, multiply outer imbalance value by 5/3 (1.67) to determine balance weight that should be used. Select the outer balance weight with a value closest to the calculated value above and install in to the designated outer position of, or at the designated angle in relation to the road wheel.
- a. Indicated imbalance value \times 5/3 = balance weight to be installed **Calculation example:**

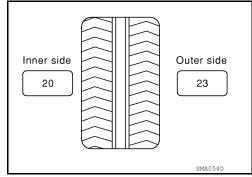
23 g (0.81 oz) \times 5/3 (1.67) = 38.33 g (1.35 oz) \Rightarrow 40 g (1.41 oz) balance weight (closer to calculated balance weight value)

NOTE:

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

Example:

 $37.4 \Rightarrow 35 \text{ g } (1.23 \text{ oz})$ $37.5 \Rightarrow 40 \text{ g } (1.41 \text{ oz})$



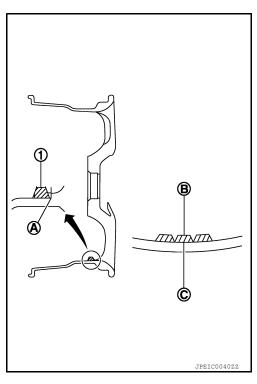
3. Install balance weight in the position shown.

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

CAUTION:

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



ROAD WHEEL TIRE ASSEMBLY

< REMOVAL AND INSTALLATION >

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

Do not install one balance weight sheet on top another.

- 5. Start balancer machine again.
- Install balance weight on inner side of road wheel in the balancer machine indication position (angle).
 CAUTION:

Do not install more than two balance weights.

- 7. Start balancer machine. Make sure that inner and outer residual imbalance values are 5 g (0.17 oz) each or below.
- 8. If either residual imbalance value exceeds 5 g (0.17 oz), repeat installation procedures.

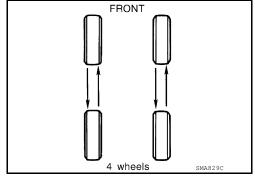
Wheel balance	Dynamic (At flange)	Static (At flange)
Maximum allowable imbalance	Refer to WT-64, "Road Wheel".	

TIRE ROTATION

- Use power tool to remove wheel and tire assembly.
- Follow the maintenance schedule for tire rotation service intervals.
 Refer to MA-8, "FOR USA AND CANADA: Explanation of General Maintenance" (United States and Canada), MA-10, "FOR MEXICO: Explanation of General Maintenance" (Mexico).

CAUTION:

- Do not include the T-type spare tire when rotating the tires.
- When installing wheels, tighten them diagonally by dividing the work two to three times in order to prevent the wheels from developing any distortion.
- Be careful not to tighten wheel nut at torque exceeding the criteria for preventing strain of disc rotor.



Adhesion weight

TTNTNTII

Wheel balancer indication position (angle)

Wheel nut tightening torque : 113 N·m (12 kg-m, 83 ft-lb)

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UNIT REMOVAL AND INSTALLATION

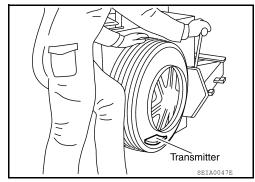
TRANSMITTER

Removal and Installation

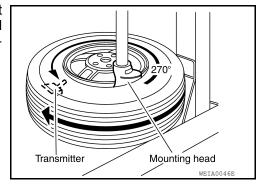
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REMOVAL

- 1. Deflate tire. Unscrew transmitter retaining nut and allow transmitter to fall into tire.
- 2. Gently bounce tire so that transmitter falls to bottom of tire. Place on tire changing machine and break both tire beads ensuring that the transmitter remains at the bottom of the tire.



 Turn tire so that valve hole is at bottom and bounce so that transmitter is near valve hole. Carefully lift tire onto turntable and position valve hole (and transmitter) 270 degrees from mounting/dismounting head.



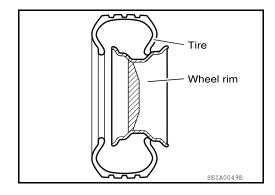
4. Lubricate the tire well with a suitable non-silicone lubricant and remove first side of the tire. Reach inside the tire and remove the transmitter.

CAUTION:

Do not use silicone lubricant. Use of silicone lubricant will deteriorate the tire and wheel.

INSTALLATION

1. Put first side of tire onto rim.



TRANSMITTER

< UNIT REMOVAL AND INSTALLATION >

2. Apply a suitable non-silicone lubricant to new transmitter seal, then install seal on transmitter.

CAUTION:

- Do not reuse transmitter seal.
- Do not use silicone lubricant. Use of silicone lubricant will deteriorate the tire and wheel.
- 3. Mount transmitter on rim with a new seal and tighten nut to specifications.

CAUTION:

Speed for tightening nut should be less than 10 rpm. NOTE:

Make sure no burrs exist in the wheel valve stem hole.

Transmitter nut : 7.7 Nm (0.79 kg-m, 68 in-lb)

4. Place wheel on turntable of tire machine. Ensure that transmitter is 270 degrees from mounting head when second side of tire is fitted.

NOTE:

Do not touch transmitter at mounting head.

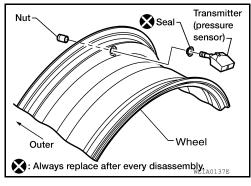
 Lubricate the tire well with a suitable non-silicone lubricant and fit second side of tire as normal. Ensure that tire does not rotate relative to rim.

CAUTION:

Do not use silicone lubricant. Use of silicone lubricant will deteriorate the tire and wheel.

- 6. Inflate tire and balance the wheel and tire assembly. Refer to WT-60, "Adjustment".
- Install wheel and tire assembly in appropriate wheel position on vehicle. Refer to <u>WT-60, "Adjustment"</u>.
 NOTE:

If replacing the transmitter, the transmitter wake up operation must be performed. Refer to <u>WT-5</u>, "<u>Transmitter Wake Up Operation</u>".



Transmitter Mounting head

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SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Road Wheel

Description		Specification
Wheel type		Aluminum
Wheel runout	Lateral deflection	Less than 0.3 mm (0.012 in)
	Radial deflection	Less than 0.3 mm (0.012 m)
Allowable imbalance	Dynamic (At rim flange)	Less than 5 g (0.18 oz) (one side)
	Static (At rim flange)	Less than 10 g (0.35 oz)

Tire (NFOID:00000000000236818

Unit: kPa (kg/cm², psi)

Tire size	Air pressure	
THE SIZE	Conventional tire	Spare tire
P245/45VR18	230 (2.3, 33)	_
P245/40VR19	230 (2.3, 33)	_
P245/40WR19	230 (2.3, 33)	_
T145/80D17	_	420 (4.2, 60)