SECTION SECTION ROAD WHEELS & TIRES

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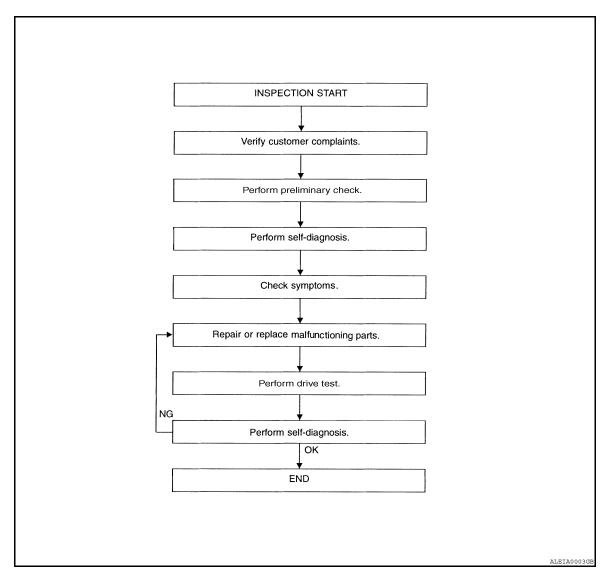
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Repair Work Flow

WORK FLOW



WT-5, "Preliminary Check"

WT-42, "Self-Diagnosis (With CONSULT-III)" WT-43, "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".

>> GO TO 3

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

3. SELF-DIAGNOSIS

Perform SELF-DIAGNOSIS. Refer to <u>WT-43</u>, "Self-Diagnosis (Without CONSULT-III)" or <u>WT-43</u>, "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 WT-42, "Self-Diagnosis (With CONSULT-III)" or WT-43, "Self-Diagnosis (Without CONSULT-III)".

Are any DTCs displayed?

YES >> GO TO 5

NO >> Inspection End

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

Preliminary Check

INFOID:0000000005440838

1. TIRE PRESSURE

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

Do tire pressures match specification?

YES >> GO TO 2.

NO >> Adjust tire pressures 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 >> Proceed TO <u>WT-50</u>, "Low Tire Pressure Warning Lamp Does Not Come On When Ignition Switch Is Turned On".

3.BCM CONNECTOR

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- 1. Disconnect BCM harness connectors.
- 2. Check terminals for damage or loose connections.
- 3. Reconnect harness connectors.

Are BCM connectors damaged or loose?

YES >> Repair or replace damaged parts.

NO >> GO TO 4.

4. TRANSMITTER ACTIVATION TOOL

Check battery in transmitter activation tool.

Is transmitter activation tool battery fully charged?

YES >> Perform self-diagnosis. Refer to WT-42, "Self-Diagnosis (With CONSULT-III)".

NO >> Replace battery in transmitter activation tool.

Transmitter Wake Up Operation

INFOID:0000000005440839

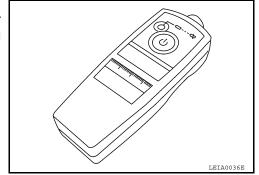
NOTE:

This procedure must be done after replacement of a low tire pressure warning transmitter or BCM. New replacement transmitters are provided "asleep" and must first be "woken up" using Transmitter Activation Tool J-45295 before ID registration can be performed.

 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)

Revision: September 2009



2. Repeat this procedure for each tire in the following order: FL, FR, RR, RL.

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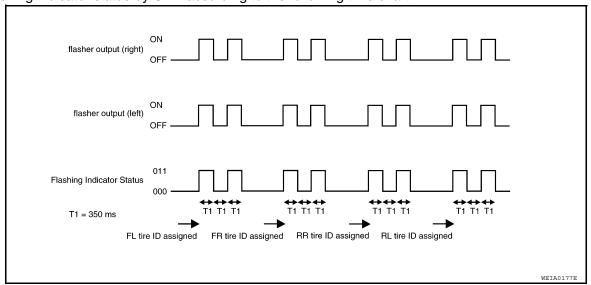
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WT-5 2010 Altima HEV

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

3. 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.



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

ID Registration Procedure

INFOID:0000000005440840

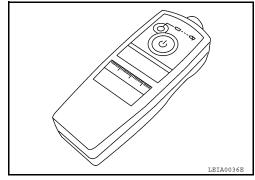
ID REGISTRATION WITH TRANSMITTER ACTIVATION TOOL

NOTE:

This procedure must be done after replacement of a low tire pressure warning transmitter or BCM. New replacement transmitters are provided "asleep" and must first be "woken up" using Transmitter Activation Tool J-45295 before ID registration can be performed.

- Connect CONSULT-III.
- 2. Select "ID REGIST" under BCM.
- 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 flashing	"YET"
3	Rear RH	2 unles liastiling	"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:

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

This procedure must be done after replacement of a low tire pressure warning transmitter or BCM. New replacement transmitters are provided "asleep" and must first be "woken up" before ID registration can be performed.

- 1. Connect CONSULT-III.
- Select "ID REGIST" under BCM.
- 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/cm², 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)

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	

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

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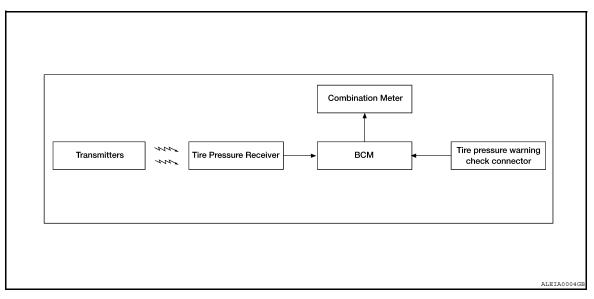
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FUNCTION DIAGNOSIS

TPMS

System Diagram

INFOID:0000000005440841



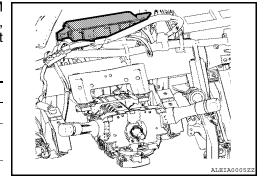
System Description

INFOID:0000000005440842

BODY CONTROL MODULE (BCM)

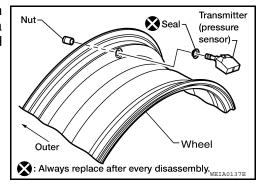
The BCM is shown with the instrument panel LH removed. The BCM reads the air pressure signal received by the tire pressure receiver, and controls the low tire pressure warning lamp as shown below. It also has a self-diagnosis function to detect a system malfunction.

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

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.



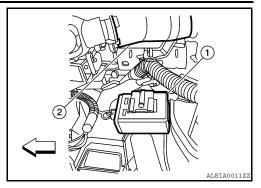
TIRE PRESSURE RECEIVER

TPMS

< FUNCTION DIAGNOSIS >

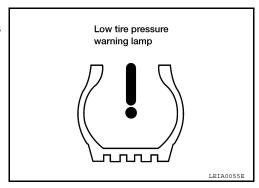
The tire pressure receiver (1) is located next to the steering column assembly (2) and is shown with the lower instrument panel LH removed. The tire pressure receiver receives the air pressure signal transmitted by the transmitter in each wheel.

∀ Vehicle front.



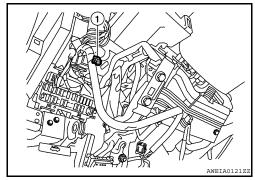
COMBINATION METER

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 low tire pressure warning lamp is activated.



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-43</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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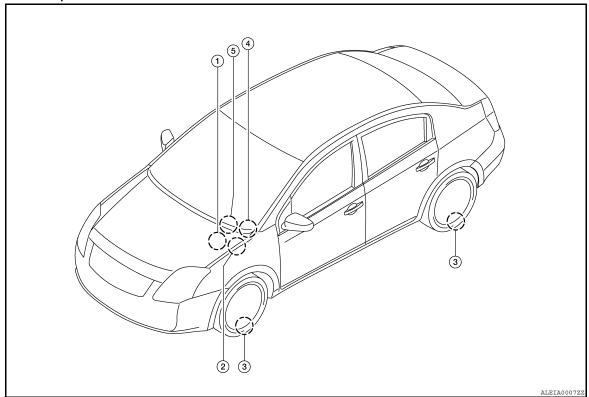
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System Components

INFOID:0000000005440843



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

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

CONSULT-III Function (BCM)

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CONSULT-III DIAGNOSTIC MODES

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

Diagnostic mode	Description
Work Support	Supports inspections and adjustments. Commands are transmitted to the BCM for setting the status suitable for required operation, input/output signals are received from the BCM and received data is displayed.
Data Monitor	Displays BCM input/output data in real time.
Active Test	Operation of electrical loads can be checked by sending drive signal to them.
Self Diagnostic Result	Displays BCM self-diagnosis results.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication can be read.
ECU Identification	BCM part number can be read.
Configuration	Performs BCM configuration read/write functions.

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.

CONSULT-III Application to Tire Pressure Monitoring System

ITEM	SELF-DIAGNOSTIC RESULTS	DATA MONITOR
Front - Left transmitter	×	×
Front - Right transmitter	×	×
Rear - Left transmitter	×	×
Rear - Right transmitter	×	×
Warning lamp	_	×
Vehicle speed	×	×
CAN Communication	×	×

^{×:} Applicable

-: Not applicable

Data Monitor Mode

MONITOR	CONDITION	SPECIFICATION
AIR PRESS FL	Drive vehicle for a few minutes.	Tire pressure (kPa or psi)
AIR PRESS FR	or	
AIR PRESS RR	 Ignition switch ON and activation tool is transmitting activation signals. 	
AIR PRESS RL	is transmitting activation signals.	
ID REGST FL1		
ID REGST FR1	Ignition switch ON	ID not registered: YET ID registered: DONE
ID REGST RR1	igililon switch ON	
ID REGST RL1		

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

MONITOR	CONDITION	SPECIFICATION
WARNING LAMP	Ignition switch ON	Low tire pressure warning lamp on: ON Low tire pressure warning lamp off: OFF
BUZZER	Ignition switch ON	Low tire pressure warning buzzer on: ON Low tire pressure warning buzzer off: OFF

NOTE:

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

Active Test

Test item	Content
WARNING LAMP [On/Off]	Activates the low tire pressure warning lamp (On/Off).
ID REGIST WARNING [On/Off]	Activates the low tire pressure warning buzzer (On/Off).
FLASHER [Off/LH/RH]	Activates the flashers (Off/LH/RH).
HORN [On/Off]	Activates the horn (On/Off).

Work Support

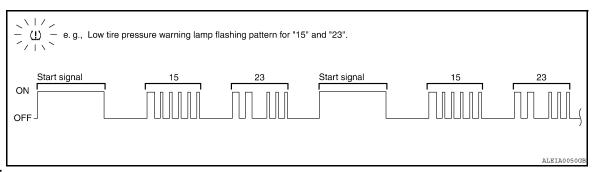
Test item	Content
ID REGIST	The identification number of the transmitter is registered in the BCM.
ID READ	The identification registration number of the transmitter is read by the BCM.

Self-Diagnosis (Without CONSULT-III)

INFOID:0000000005789676

SELF DIAGNOSTIC PROCEDURE (WITHOUT CONSULT-III)

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



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-14</u>
31 32 33 34	Transmitter checksum error (FL) Transmitter checksum error (FR) Transmitter checksum error (RR) Transmitter checksum error (RL)	<u>WT-16</u>

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

Flash Code	Malfunction part	Reference page
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-18</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-16</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-16</u>
52	Vehicle speed signal	<u>WT-19</u>
53	TPMS malfunction in BCM	<u>WT-20</u>

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C1708 - C1711 DATA FROM TRANSMITTER NOT BEING RECEIVED

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

C1708 - C1711 DATA FROM TRANSMITTER NOT BEING RECEIVED

Description INFOID:000000005440846

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

DTC Logic

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

- 1. Carry out ID registration of all transmitters.
- 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-14, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000005440848

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 connection.

Is tire pressure receiver connector damaged or loose?

YES >> Repair or replace tire pressure receiver connector.

NO >> Replace BCM, then GO TO 3. Refer to BCS-83. "Removal and Installation".

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

- Drive at a speed of 40 km/h (25 MPH) or more for several minutes without stopping.
- 2. 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.

C1708 - C1711 DATA FROM TRANSMITTER NOT BEING RECEIVED

< COMPONENT DIAGNOSIS >

NO >> GO TO 5

5.ID REGISTRATION AND VEHICLE DRIVING

- 1. Carry out ID registration of all transmitters.
- 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

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

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

< COMPONENT DIAGNOSIS >

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

Description INFOID:000000005440850

One or more transmitters are malfunctioning internally.

DTC Logic

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.
- 2. 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-16, "Diagnosis Procedure".

Diagnosis Procedure

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)

INFOID:0000000005440852

1.PERFORM ID REGISTRATION

- 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.

>> GO TO 2

2. REPLACE TRANSMITTER

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

Can ID registration of all transmitters be completed?

YES >> GO TO 3

NO >> Proceed TO WT-14, "Diagnosis Procedure".

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

< COMPONENT DIAGNOSIS >

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.
- 2. Check all tire pressures with CONSULT-III within 5 minutes.

<u>Does "DATA MONITOR ITEM" display tire pressure as normal without any warning lamp?</u>

YES >> Inspection End.

NO >> Replace malfunctioning transmitter, and perform Step 3 again.

Special Repair Requirement

INFOID:0000000005789677

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

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C1716 - C1719 TRANSMITTER PRESSURE MALFUNCTION

< COMPONENT DIAGNOSIS >

C1716 - C1719 TRANSMITTER PRESSURE MALFUNCTION

Description

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

DTC Logic

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

${f 1}$.ID REGISTRATION AND VEHICLE DRIVING

- Carry out ID registration of all transmitters.
- 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-18, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000005440856

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

- 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 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 64 psi or more?

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

NO >> GO TO 3

3.ID REGISTRATION AND VEHICLE DRIVING

- 1. Carry out ID registration of all transmitters.
- 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 >> Proceed to the inspection applicable to DTC.

Special Repair Requirement

INFOID:0000000005789678

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

C1729 VEHICLE SPEED SIGNAL < COMPONENT DIAGNOSIS > C1729 VEHICLE SPEED SIGNAL Α Description INFOID:000000005440858 The vehicle speed signal is not being detected by the BCM. В **DTC** Logic INFOID:0000000005440859 DTC DETECTION LOGIC DTC **CONSULT - III** DTC detecting condition D C1729 VHCL SPEED SIG ERR Vehicle speed signal is in error. DTC CONFIRMATION PROCEDURE ${f 1}$.CHECK SELF-DIAGNOSTIC RESULTS WT 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". NO >> Inspection end. Diagnosis Procedure INFOID:0000000005440860 MALFUNCTION CODE NO. 52 (DTC C1729) Н 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-17, "Trouble Diagnosis Flow Chart". >> Check combination meter. Refer to MWI-35, "CONSULT-III Function (METER/M&A)". NO Special Repair Requirement INFOID:0000000005789679 Perform preliminary check. Refer to WT-5, "Preliminary Check".

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C1734 CONTROL UNIT

< COMPONENT DIAGNOSIS >

C1734 CONTROL UNIT

Description INFOID:000000005440862

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

CHECK SELF-DIAGNOSTIC RESULTS

- 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:0000000005440864

MALFUNCTION CODE NO. 53 (DTC C1734)

1.SELF-DIAGNOSTIC RESULTS

- 1. On "SELECT DIAG" mode, select the "SELF-DIAG RESULT" screen for BCM.
- 2. 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 BCS-68, "DTC Index".

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

Check BCM power supply and ground. Refer to BCS-41, "Diagnosis Procedure".

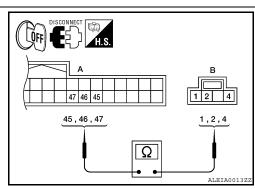
Are the power supply and grounds normal?

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"
- 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.



C1734 CONTROL UNIT

< COMPONENT DIAGNOSIS >

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

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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-46. "Reference Value".

Are the inputs and outputs normal?

YES >> Inspection End.

>> Replace BCM. Refer to BCS-83, "Removal and Installation". NO

Special Repair Requirement

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

WT

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INFOID:0000000005789680

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ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Part Comment	Monitor Item	Condition	Value/Status
Front wiper switch HI	ED WIDED UI	Other than front wiper switch HI	OFF
Front wiper switch LO	FR WIFER HI	Front wiper switch HI	ON
Front wiper switch LO	ED WIDED LOW	Other than front wiper switch LO	OFF
FR WASHER SW Front washer switch ON ON FR WIPER INT Other than front wiper switch INT OFF FR WIPER STOP Front wiper is not in STOP position OFF INT VOLUME Wiper intermittent dial is in a dial position 1 - 7 Wiper intermittent dial position TURN SIGNAL R Other than turn signal switch RH OFF TURN SIGNAL L Other than turn signal switch LH OFF TURN SIGNAL L Other than signal switch LH ON TAIL LAMP SW Other than lighting switch 1ST and 2ND OFF Lighting switch 1ST or 2ND ON ON HI BEAM SW Other than lighting switch 2ND OFF Lighting switch 1ST or 2ND ON ON HEAD LAMP SW 2 Other than lighting switch 2ND OFF Lighting switch 2ND ON OFF PASSING SW Other than lighting switch PASS OFF Lighting switch PASS ON ON AUTO LIGHT SW Other than lighting switch AUTO OFF DOOR SW-AS Front door LH olosed OFF Front door PH closed OFF	FR WIPER LOW	Front wiper switch LO	ON
Front washer switch ON	ED WACHED CW	Front washer switch OFF	OFF
FR WIPER STOP	FR WASHER SW	Front washer switch ON	ON
Front wiper switch INT	ED WIDED INT	Other than front wiper switch INT	OFF
Front wiper is in STOP position	FR WIFER IN	Front wiper switch INT	ON
Front wiper is in STOP position	ED WIDED CTOD	Front wiper is not in STOP position	OFF
TURN SIGNAL R Other than turn signal switch RH OFF TURN SIGNAL L Other than turn signal switch LH OFF TURN SIGNAL L Other than turn signal switch LH ON TAIL LAMP SW Other than lighting switch 1ST and 2ND OFF Lighting switch 1ST or 2ND ON ON HI BEAM SW Other than lighting switch HI OFF HEAD LAMP SW 1 Uther than lighting switch 2ND OFF Lighting switch 2ND ON OFF HEAD LAMP SW 2 Other than lighting switch 2ND OFF Lighting switch 2ND ON OFF Lighting s	FR WIPER STOP	Front wiper is in STOP position	ON
TURN SIGNAL R Turn signal switch RH ON TURN SIGNAL L Other than turn signal switch LH OFF Turn signal switch LH ON ON TAIL LAMP SW Other than lighting switch 1ST and 2ND OFF Lighting switch 1ST or 2ND ON ON HI BEAM SW Other than lighting switch HI ON HEAD LAMP SW 1 Other than lighting switch 2ND OFF Lighting switch 2ND ON ON HEAD LAMP SW 2 Other than lighting switch 2ND OFF Lighting switch 2ND ON ON PASSING SW Other than lighting switch PASS OFF Lighting switch PASS OFF ON AUTO LIGHT SW Other than lighting switch AUTO OFF DOOR SW-DR Front door LH closed OFF Front door LH closed OFF Front door LH closed OFF DOOR SW-RR Rear door RH closed OFF Rear door LH closed OFF Rear door LH closed OFF Rear door LH closed OFF	INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
Turn signal switch RH ON Other than turn signal switch LH OFF Turn signal switch LH ON TAIL LAMP SW Other than lighting switch 1ST and 2ND OFF Lighting switch 1ST or 2ND ON HI BEAM SW Other than lighting switch HI OFF Lighting switch HI ON Other than lighting switch PM Lighting switch PM Other than lighting switch 2ND OFF Lighting switch 2ND OFF Lighting switch 2ND OFF Lighting switch 2ND OFF DON ON Other than lighting switch PASS OFF Lighting switch PASS OFF Lighting switch PASS OFF Lighting switch PASS OFF Lighting switch AUTO OFF Front door LH closed OFF Front door LH closed OFF Front door RH closed OFF Front door RH closed OFF DOOR SW-RR DOOR SW-RR Rear door RH closed OFF Rear door LH closed OFF Rear door	TUDN CIONAL D	Other than turn signal switch RH	OFF
TURN SIGNAL L Turn signal switch LH ON TAIL LAMP SW Other than lighting switch 1ST and 2ND OFF Lighting switch 1ST or 2ND ON ON HI BEAM SW Other than lighting switch HI OFF Lighting switch HI ON OFF HEAD LAMP SW 1 Other than lighting switch 2ND OFF Lighting switch 2ND ON OFF Lighting switch 2ND ON ON PASSING SW Other than lighting switch PASS OFF Lighting switch PASS ON ON AUTO LIGHT SW Other than lighting switch AUTO OFF Lighting switch AUTO ON OFF DOOR SW-DR Front door LH closed OFF Front door LH closed OFF Front door RH closed OFF DOOR SW-RR Rear door RH closed OFF DOOR SW-RL Rear door LH closed OFF Rear door LH closed		Turn signal switch RH	ON
Turn signal switch LH ON Other than lighting switch 1ST and 2ND Lighting switch 1ST or 2ND ON ON Other than lighting switch HI Coperation of the switch HI Lighting switch HI ON ON Other than lighting switch HI ON ON Other than lighting switch 2ND Lighting switch 2ND Other than lighting switch 2ND Operation of the switch 2ND Other than lighting switch 2ND Operation of the switch 2ND On Other than lighting switch 2ND Operation of the switch 2ND Other than lighting switch PASS Operation of the switch PASS On Other than lighting switch AUTO Lighting switch AUTO Operation of the switch AUTO DOOR SW-DR Front door LH closed Front door LH closed Front door RH closed Operation of the switch AUTO DOOR SW-RR DOOR SW-RR Rear door RH closed DOOR SW-RL DOOR SW-RL Rear door LH closed Operation of the switch LOCK Operation of the switch	TUDNI CIONALI	Other than turn signal switch LH	OFF
TAIL LAMP SW Lighting switch 1ST or 2ND ON HI BEAM SW Other than lighting switch HI OFF Lighting switch HI ON OFF HEAD LAMP SW 1 Other than lighting switch 2ND OFF Lighting switch 2ND ON OFF HEAD LAMP SW 2 Other than lighting switch 2ND ON PASSING SW Other than lighting switch PASS OFF Lighting switch PASS ON AUTO LIGHT SW Other than lighting switch AUTO OFF Lighting switch AUTO ON DOOR SW-DR Front door LH closed OFF Front door LH closed OFF Front door RH closed OFF DOOR SW-AS Front door RH closed OFF DOOR SW-RR Rear door RH closed OFF DOOR SW-RL Rear door LH closed OFF Rear door	TURN SIGNAL L	Turn signal switch LH	ON
Lighting switch 1ST or 2ND	TAIL LAND OW	Other than lighting switch 1ST and 2ND	OFF
Lighting switch HI	TAIL LAIMP SW	Lighting switch 1ST or 2ND	ON
Lighting switch HI		Other than lighting switch HI	OFF
Lighting switch 2ND ON HEAD LAMP SW 2 Lighting switch 2ND OFF Lighting switch 2ND ON PASSING SW Other than lighting switch PASS OFF Lighting switch PASS ON AUTO LIGHT SW Other than lighting switch AUTO OFF Lighting switch AUTO OFF Lighting switch AUTO OFF DOOR SW-DR Front door LH closed OFF Front door LH opened ON DOOR SW-AS Front door RH closed OFF DOOR SW-RR Rear door RH opened ON DOOR SW-RL Rear door LH closed OFF CDL LOCK SW Other than power door lock switch LOCK OFF		Lighting switch HI	ON
Lighting switch 2ND		Other than lighting switch 2ND	OFF
Lighting switch 2ND	HEAD LAMP SW 1	Lighting switch 2ND	ON
Lighting switch 2ND	LIEAD LAMB OW O	Other than lighting switch 2ND	OFF
Lighting switch PASS	HEAD LAIVIP SVV 2	Lighting switch 2ND	ON
Lighting switch PASS ON	DACCING CW	Other than lighting switch PASS	OFF
AUTO LIGHT SW Lighting switch AUTO ON DOOR SW-DR Front door LH closed OFF Front door LH opened ON DOOR SW-AS Front door RH closed OFF Front door RH opened ON DOOR SW-RR Rear door RH closed OFF Rear door RH opened ON DOOR SW-RL Rear door LH closed OFF Rear door LH opened ON ON CDL LOCK SW Other than power door lock switch LOCK OFF	PASSING SW	Lighting switch PASS	ON
Lighting switch AUTO ON DOOR SW-DR Front door LH closed OFF Front door LH opened ON DOOR SW-AS Front door RH closed OFF Front door RH opened ON DOOR SW-RR Rear door RH closed OFF Rear door RH opened ON DOOR SW-RL Rear door LH closed OFF Rear door LH opened ON Other than power door lock switch LOCK OFF	AUTO LICHT CW	Other than lighting switch AUTO	OFF
DOOR SW-DR Front door LH opened ON DOOR SW-AS Front door RH closed OFF Front door RH opened ON DOOR SW-RR Rear door RH closed OFF Rear door RH opened ON DOOR SW-RL Rear door LH closed OFF Rear door LH opened ON CDL LOCK SW Other than power door lock switch LOCK OFF	AUTU LIGHT SW	Lighting switch AUTO	ON
Front door LH opened ON	DOOD SW DD	Front door LH closed	OFF
DOOR SW-AS Front door RH opened ON DOOR SW-RR Rear door RH closed OFF Rear door RH opened ON DOOR SW-RL Rear door LH closed OFF Rear door LH opened ON CDL LOCK SW Other than power door lock switch LOCK OFF	DOOR SW-DR	Front door LH opened	ON
Front door RH opened	DOOD SW AS	Front door RH closed	OFF
DOOR SW-RR Rear door RH opened ON DOOR SW-RL Rear door LH closed OFF Rear door LH opened ON CDL LOCK SW Other than power door lock switch LOCK OFF	DOOR SW-AS	Front door RH opened	ON
Rear door RH opened	DOOD SW DD	Rear door RH closed	OFF
DOOR SW-RL Rear door LH opened ON Other than power door lock switch LOCK OFF	DOON SW-NN	Rear door RH opened	ON
Rear door LH opened ON Other than power door lock switch LOCK OFF CDL LOCK SW	DOOD SW DI	Rear door LH closed	OFF
CDL LOCK SW	DOOD SW-UL	Rear door LH opened	ON
ODE LOUIX SW	CDL LOCK SW	Other than power door lock switch LOCK	OFF
Door lock/unlock switch LOCK ON	ODE FOOK 200	Door lock/unlock switch LOCK	ON

Monitor Item	Condition	Value/Status	
CDL UNLOCK SW	Other than door lock/unlock switch UNLOCK	OFF	
CDL UNLOCK SW	Door lock/unlock switch UNLOCK	ON	
KEY CYL LK-SW	Other than front door LH key cylinder LOCK position	OFF	
RET OTE ER-SW	Front door LH key cylinder LOCK position	ON	
KEY CYL UN-SW	Other than front door LH key cylinder UNLOCK position	OFF	
KET CTL UN-SW	Front door LH key cylinder UNLOCK position	ON	
LIAZADD CW	When hazard switch is not pressed	OFF	
HAZARD SW	When hazard switch is pressed	ON	
REAR DEF SW	When rear window defogger switch is pressed	ON	
FAN ON SIG	When AUTO switch or fan switch is pressed	ON	
AIR COND SW	When A/C switch is pressed	ON	\
TD CANCEL CW	Trunk lid opener cancel switch OFF	OFF	
TR CANCEL SW	Trunk lid opener cancel switch ON	ON	
ED/DD ODEN OW	Trunk lid opener switch OFF	OFF	
TR/BD OPEN SW	While the trunk lid opener switch is turned ON	ON	
	Trunk lid closed	OFF	
FRNK/HAT MNTR	Trunk lid opened	ON	
	When LOCK button of Intelligent Key is not pressed	OFF	
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON	
	When UNLOCK button of Intelligent Key is not pressed	OFF	
RKE-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	
DIVE DANIE	When PANIC button of Intelligent Key is not pressed	OFF	
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON	
21/2 24/ 2221	When UNLOCK button of Intelligent Key is not pressed and held	OFF	
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON	
	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF	
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON	
ODTICAL CENCOD	When outside of the vehicle is bright	Close to 5 V	
OPTICAL SENSOR	When outside of the vehicle is dark	Close to 0 V	
250 0W DD	When front door LH request switch is not pressed	OFF	
REQ SW-DR	When front door LH request switch is pressed	ON	
DEO 014/40	When front door RH request switch is not pressed	OFF	
REQ SW-AS	When front door RH request switch is pressed	ON	
250 0W DD/TD	When trunk request switch is not pressed	OFF	
REQ SW-BD/TR	When trunk request switch is pressed	ON	
211011 0111	When push-button ignition switch is not pressed	OFF	
PUSH SW	When push-button ignition switch is pressed	ON	
	Ignition switch OFF or ACC	OFF	
GN RLY -F/B	Ignition switch ON	ON	
	Ignition switch OFF	OFF	
ACC RLY -F/B	Ignition switch ACC or ON	ON	

Monitor Item	Condition	Value/Status
BRAKE SW 1	When the brake pedal is not depressed	ON
DHARE SW I	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
DETE/CANCE SW	When selector lever is in any position other than P	ON
SFT PN/N SW	When selector lever is in any position other than P or N	OFF
SI I FIV/IN SW	When selector lever is in P or N position	ON
UNLK SEN-DR	Front door LH UNLOCK status	OFF
ONER SEN-DIT	Front door LH LOCK status	ON
PUSH SW -IPDM	When push-button ignition switch is not pressed (IPDM E/R sends via CAN)	OFF
T GOLLOW -II DIM	When push-button ignition switch is pressed (IPDM E/R sends via CAN)	ON
IGN RLY1 F/B	Ignition switch OFF or ACC	OFF
IGN ALT I F/D	Ignition switch ON	ON
	When selector lever is in P position (IPDM E/R sends via CAN)	OFF
DETE SW -IPDM	When selector lever is in any position other than P (IPDM E/R sends via CAN)	ON
SFT PN -IPDM	When selector lever is in any position other than P or N (IPDM E/R sends via CAN)	OFF
	When selector lever is in P or N position (IPDM E/R sends via CAN)	ON
	When selector lever is in any position other than P (combination meter sends via CAN)	OFF
SFT P -MET	When selector lever is in P position (combination meter sends via CAN)	ON
0FT N 14FT	When selector lever is in any position other than N (combination meter sends via CAN)	OFF
SFT N -MET	When selector lever is in N position (combination meter sends via CAN)	ON
	Engine stopped	STOP
ENOINE CTATE	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
	Front door LH LOCK status	LOCK
DR DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY
	Front door LH UNLOCK status	UNLK
	Front door RH LOCK status	LOCK
AS DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY
	Front door RH UNLOCK status	UNLK
ID OK ELAC	Ignition switch ACC or ON	RESET
ID OK FLAG	Ignition switch OFF	SET
DDMT ENG CTAT	When the hybrid system start is prohibited	RESET
PRMT ENG STAT	When the hybrid system start is permitted	SET
KEN 6M 6LOT	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLOT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Ke

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status	
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	
ID REGST FL1	When ID of front LH tire transmitter is registered (refer to WT-6, "ID Registration Procedure")	DONE	
	When ID of front LH tire transmitter is not registered (refer to <u>WT-6</u> , <u>"ID Registration Procedure"</u>)	YET	
ID REGST FR1	When ID of front RH tire transmitter is registered (refer to WT-6, "ID Registration Procedure")	DONE	
ID NEGOT FAT	When ID of front RH tire transmitter is not registered (refer to <u>WT-6.</u> "ID Registration Procedure")	YET	
ID REGST RR1	When ID of rear RH tire transmitter is registered (refer to WT-6, "ID Registration Procedure")	DONE	
ID REGST KKT	When ID of rear RH tire transmitter is not registered (refer to WT-6, "ID Registration Procedure")	YET	
ID REGST RL1	When ID of rear LH tire transmitter is registered (refer to WT-6, "ID Registration Procedure")	DONE	
ID NEGOT NET	When ID of rear LH tire transmitter is not registered (refer to <u>WT-6.</u> "ID Registration Procedure")	YET	
WARNING LAMP	Tire pressure indicator OFF	OFF	
WADNING LAWP	Tire pressure indicator ON	ON	
BUZZER	Tire pressure warning alarm is not sounding	OFF	
DUZZEN	Tire pressure warning alarm is sounding	ON	

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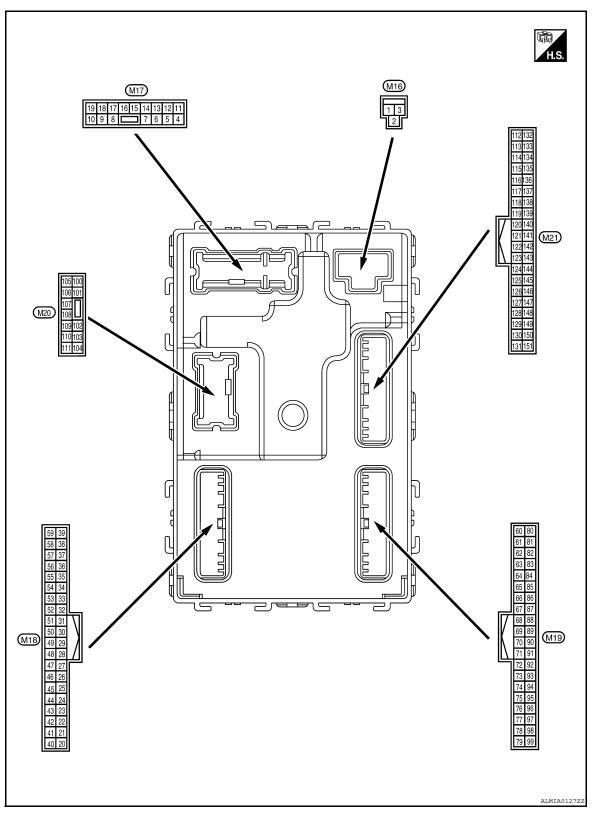
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Terminal Layout



Physical Values

	inal No.	Description				Value	
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OFI	F	Battery voltage	
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON		Battery voltage	
4	Cround	Interior room lamp	Output	After passing the ir er operation time	nterior room lamp battery sav-	ov	
(P/W)	Ground	power supply	Output	Any other time after lamp battery saver	er passing the interior room r operation time	Battery voltage	
5	Ground	Front door RH UN-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage	
(G/Y)	Ground	LOCK	Output	Front door An	Other than UNLOCK (actuator is not activated)	ov	
7	Ground	Step lamp	Output	Room lamp timer	ON	Battery voltage	
(R/W)	Ground	σιορ ιαπρ	Cuthut	1 toom tamp timer	OFF	OV	
8	Ground	All doors LOCK	Output	All doors	LOCK (actuator is activated)	Battery voltage	
(V)	Giodila	d All doors LOCK	Output	All doors	Other than LOCK (actuator is not activated)	ov	
9	Ground	Front door LH UN- LOCK	Output	Output Front door LH -	UNLOCK (actuator is activated)	Battery voltage	
(G)			Output	Tront door Err	Other than UNLOCK (actuator is not activated)	ov	
10	Ground	Rear door RH and rear door LH UN- LOCK		Rear door RH	UNLOCK (actuator is activated)	Battery voltage	
(G/Y)	around			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	1	Ignition switch ON		ov	
					OFF	OV	
14 (R/Y)	Ground	Push-button ignition switch illumination ground	Input	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 0	
15	Ground	ACC indicator lamp	Outout	Ignition quitab	OFF	JSNIA0010GB Battery voltage	
(Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	ACC	OV	

Term	inal No.	Description					
(Wire	e color)	Signal name	Input/	Condition		Value (Approx.)	
(+)	(-)	Signal hame	Output			,	
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch OFF Turn signal switch RH	0V (V) 15 10 1 S PKID0926E 6.5V	
					Turn signal switch OFF	OV	
18 (G/Y)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E	
19		Room lamp timer		. Interior room	Lamps fully OFF	Battery voltage	
(Y)	Ground	control	Output	lamp	Lamps fully ON	0V	
21	Cround	Ontical concernings	lan. d	Ignition switch	When outside of the vehi- cle is bright	Close to 5V	
(P/B)	Ground	Optical sensor signal	Input	ON	When outside of the vehi- cle is dark	Close to 0V	
24 (R/W)	Ground	Stop lamp switch 1	Input			Battery voltage	
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V	
(O/L)	around	Stop ramp switch 2	прис	Otop lamp switch	ON (brake pedal is de- pressed)	Battery voltage	
27 (G/W)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB	
					UNLOCK status	OV	
29	Ground	Key slot switch	Innut	When Intelligent K	ey is inserted into key slot	Battery voltage	
(Y)	Ground	Ney SIOL SWILCH	Input	When Intelligent K	ey is not inserted into key slot	OV	
30	Ground	ACC feedback signal	Innut	Ignition switch	OFF	0	
(V/Y)	Ground	ADD IEEUDACK SIGNAL	Input	ignition switch	ACC or ON	Battery voltage	
31	Ground	Ignition relay-2 feed-	Input	Ignition switch	OFF	0V	
(G)	203110	back signal		igilillori Switch	ON	Battery voltage	

	inal No.	Description			• "	Value (Approx.)	
(+)	e color)	Signal name	Input/ Output	Condition			
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 JPMIA0011GB	
					ON (when front door RH opens)	0V	
33		Compressor ON sig-			OFF	Battery voltage	
(SB)	Ground	nal	Input	A/C switch	ON	OV	
34*		Front door lock as-		Front door lock	OFF (neutral)	Battery voltage	
(L/R)	Ground	sembly LH (key cylin- der switch) (unlock)	Input	assembly LH (key cylinder switch)	ON (unlock)	0V	
36*				Door lock/unlock	Lock	Battery Voltage	
(GR)	Ground	Lock switch signal	Input	switch	Unlock	0V	
37 (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 10 ms 10 ms JPMIA0012GB	
					ON	OV	
38 (GR/	Ground	Rear window defog- ger ON signal	Input	Rear window de- fogger switch	OFF	Battery Voltage V	
W)		ger ert eignar		rogger emieri	ON	0V	
39* (GR/	Ground	Unlock switch signal	Input	Door lock/unlock	Unlock	Battery Voltage	
R)		3		switch	Lock	OV	
40* (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB	
				Ignition switch OF	F or ACC	0V	
11		Duch hutter imities		Engine switch	ON	5.5V	
41 (W)	Ground	Push-button ignition switch illumination	Output	(push switch) illu- mination	OFF	OV	
42				LOCK indicator	ON	0V	
42 (R)	Ground	LOCK indicator lamp	Output	lamp	OFF	Battery voltage	
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON		ov	

	inal No.	Description				Value	
	e color)	Signal name	Input/ Output		Condition	(Approx.)	
(+)	(-)	Desciver 9 concer	Output		OFF	0V	
46 (V/W)	Ground	Receiver & sensor power supply output	Output	Ignition switch	ACC or ON	5.0V	
47	Crowned	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 ••• 0.2s	
(G/O)	Ground	er signal	Output		When receiving the signal from the transmitter	(V) 6 4 2 0 • 0.2s	
48	Ground	Selector lever P/N	Input	Selector lever	P or N position	12.0V	
(R/B)	Ground	position signal	IIIput	Selector level	Except P and N positions	OV	
					ON	OV	
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 JPMIA0014GB	
					OFF	Battery voltage	
					All switch OFF	OV	
					Lighting switch 1ST		
_				Combination	Lighting switch high-beam	(V)	
50 (LG/ B)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND Turn signal switch RH	10 5 0 2 ms JPMIA0031GB	
					All switch OFF (Wiper intermittent dial 4)	ov	
51 (L/W)	Ground	Combination switch OUTPUT 1	Output	Combination switch	Front wiper switch HI (Wiper intermittent dial 4) 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	(V) 15 10 2 ms JPMIA0032GB	

	inal No.	Description				Value	Λ
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switch OFF (Wiper intermittent dial 4)	ov	В
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Front washer switch ON (Wiper intermittent dial 4) Any of the conditions below	(V) 15 10 5	С
, ,					with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	2 ms JPMIA0033GB	D
					All switch OFF	0V	W٦
					Front wiper switch INT		
				O a malaina ati a m	Front wiper switch LO	(V)	F
53 (LG/ R) Ground	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	15 10 5 0 2 ms JPMIA0034GB	G
					All switch OFF	10.7V	Н
		Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	Lighting switch flash-to- pass	(V)	
54 (G/Y) Gi	Ground				Turn signal switch LH	15 10 5 0 2 ms	J
						10.7V	K
55 (BR/	Ground	Front blower monitor	Input	Front blower mo-	ON	Battery voltage	
W)	Ground	Tront blower menter	mpar	tor switch	OFF	0V	
56		Front door lock as-		Front door lock	OFF (neutral)	Battery voltage	L
(L/B)	Ground	sembly LH (key cylin- der switch) (lock)	Input	assembly LH (key cylinder switch)	ON (lock)	OV	
57 (W)	Ground	Tire pressure warning check switch	Input		_	Battery voltage	M
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	N O
						11.8V	Р
					ON (front door LH OPEN)	OV	
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage	
(G/R)	ger relay		fogger	Not activated	0V		

	inal No. e color)	Description Input/			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
60		Front console anten-		Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB
(B/R)	Ground	na 2 (-)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 1
61	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s 1 s
(W/R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
62	Ground	Front outside handle	Output	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0062GB
(B/Y)	Ground	RH antenna (-)	Output	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	٨
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
63	Ourseld	Front outside handle	0.1.1	When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	B C D
(LG)	Ground	RH antenna (+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	WT F
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 1 s JMKIA0062GB	G H
(V)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	J K L
65	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 1 s JMKIA0062GB	M
(P)					When Intelligent Key is not in the antenna detection area	(V) 15 10 1	O

	inal No. e color)	Description Inpu		Condition		Value
(+)	(-)	Signal name	Output			(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.
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.
70 (R/B)	Ground	Ignition relay-2 control	Output	Ignition switch	OFF or ACC	0V Battery voltage
71			Input/	During waiting		(V) 15 10 5 0 1 ms
(L/O)	Ground	Remote keyless entry receiver signal	Output	When operating either button on Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB
	Ground	Combination switch INPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
75 (R/Y)					Wiper intermittent dial 4	(V) 15 10 5 0 2 ms JPMIA0037GB
					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

	inal No.	Description				Value	A
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	-
		Combination switch INPUT 3		Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	(
					Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB	W
76 (R/G)	Ground		Input				(
					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms	ŀ
					Any of the conditions below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 2 Wiper intermittent dial 3	1.3V	K
78 (P)	Ground	CAN-L	Input/ Output		_	1.3V —	_
79	Ground	CAN-H	Input/			_	N
(L)			Output		OFF	OV	
80 (R/L)	Ground	Key slot illumination	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB	C
					ON	Battery voltage	
81	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	Battery voltage	
(LG)	Ground	OH maloator lamp	Caiput	-gradon switch	ON	ov	

	inal No.	Description				Value
(Wire color) (+) (-)		Signal name Input/		Condition		(Approx.)
83	Ground	ACC relay control	Output	Ignition switch	OFF	OV
(L)	Ground	rice relay control	Odipat	iginaeri ewiteri	ACC or ON	Battery voltage
84 (Y/R)	Ground	CTV shift selector (detent switch)	Output		_	Battery voltage
87	Ground	CTV shift selector	Input	Selector lever	P position	OV
(G/B)	Ground	(detent switch)	Прис	Colodior level	Any position other than P	Battery voltage
					ON (pressed)	OV
88 (P/L)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms 1.0V
					ON (pressed)	OV
89 (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 10 10 ms JPMIA0016GB 1.0V
90	Ground	Front blower motor	Output	Ignition switch	OFF or ACC	OV
(Y)	Ground	relay control	Juipui	ignition switch	ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	F	Battery voltage

< ECU DIAGNOSIS >

	inal No.	Description				Value	٨
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	А
95 (R/W)		and Combination switch InPUT 1		Combination switch (Wiper intermittent dial 4)	All switch OFF	(V) 15 10 5 0 2 ms JPNIA0041GB	B C
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB	WT F
	Ground		Input		Turn signal switch RH	(V) 15 10 5 0 JPMIA0036GB 1.3V	G H
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB	J K L
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB	M

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	inal No.	Description				Value
(Wir	e color)	Signal name	Input/ Output		Condition	value (Approx.)
96 (P/B) Gro					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
	Ground	Ground Combination switch Input Input Switch		Combination	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
	Giodila			switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0036GB
				Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	(V) 15 10 5 2 ms JPMIA0039GB	

	inal No.	Description				Value	А
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
		All switch OFF	(V) 15 10 2 ms JPMIA0041GB 1.4V	B C D			
97 (R/B) Ground INPUT 2				Lighting switch flash-to- pass	(V) 15 10 5 0 JPMIA0037GB 1.3V	WT F	
	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB	G H
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V	J K L
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB	M
					Pressed	1.3V	0
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 JPMIA0012GB 1.1V	Р

	ninal No. re color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output			(Approx.)
103	Ground	Trunk lid opening	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage
(V)	around	Trunk na opening	Output	Trunk iiu	Close (trunk lid opener actuator is not activated)	ov
110 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	ON	OV
		Trunk room antenna		Ignition switch	When Intelligent Key is in the passenger compartment	Battery voltage (V) 15 10 5 0 JMKIA0062GI
114 (B)	Ground	1 (-)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GE
115	Ground	Trunk room antenna	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GE
(W)	Giodia	1 (+)	Cutput	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s

	inal No.	Description				Value	Λ			
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	А			
					When Intelligent Key is in the antenna detection area	(V) 15 10 5 0	В			
118 (L/O)	Ground	Rear bumper antenna (-)	Output	When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1 s JMKIA0062GB	М Т			
						(V)	G			
								When Intelligent Key is in the antenna detection area	15 10 5 0	Н
119 (BR/	Ground	Rear bumper anten-	Output	When the trunk lid request switch		1 S. JMKIA0062GB				
W)		na (+)	·	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5	J			
						0 III III III III III III III III III I	K			
						JMKIA0063GB	L			
127 (BR/	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage				
W)	203.10	E/R) control	_ s.pat	g	ON	0V	M			
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8V	N			
					ON (trunk is open)	11.8V	Р			
132	Grand	Start signal	Outout	Ignition switch	When selector lever is in P or N position and the brake peddle is not depressed	0V				
132 (R) Ground Sta		d Start signal Outp		ŎN	When selector lever is in P or N position and the brake peddle is depressed	Battery voltage				

< ECU DIAGNOSIS >

	inal No.	Description		_		Value
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
140	Ground	Push-button ignition	lanus	Engine switch	Pressed	OV
(BR)	Ground	switch	Input	(push switch)	Not pressed	Battery voltage
					ON (pressed)	OV
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 10 ms JPMIA0016GB
144		Request switch buzz-	<u> </u>	Request switch	Sounding	OV
(GR)	Ground	er	Output	buzzer	Not sounding	Battery voltage
147	Ground	Trunk lid opener	Input	Trunk lid opener	Pressed	OV
(L/R)	Ground	switch	Input	switch	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)	0V
149 (R/B)	Ground	Rear door LH switch	Input	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

^{*:} With LH and RH front window anti-pinch system

Self-Diagnosis (With CONSULT-III)

INFOID:0000000005440870

FUNCTION

Self-Diagnostic Results Mode

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-14</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-16</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-18</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-16</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-16</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)

INFOID:0000000005440871

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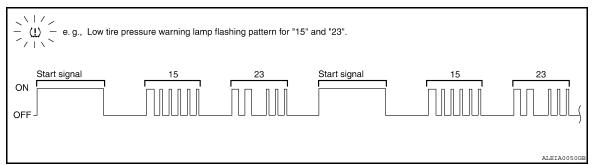
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SELF DIAGNOSTIC PROCEDURE (WITHOUT CONSULT-III)

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



NOTE:

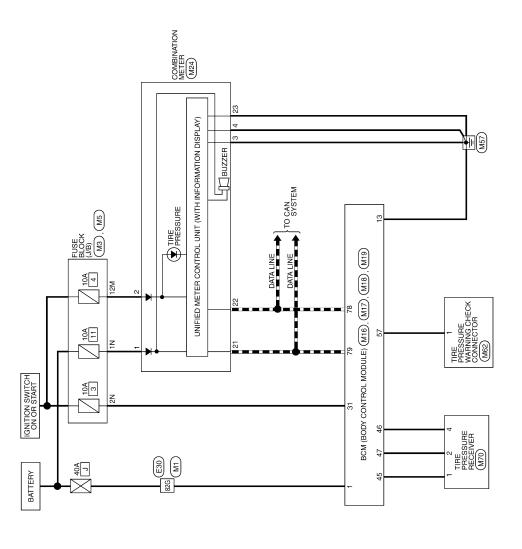
The system is normal when the low tire pressure warning lamp flashes 5 times and continues repeating. Self-diagnosis results are erased automatically by turning the ignition switch "OFF".

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-14</u>
31 32 33 34	Transmitter checksum error (FL) Transmitter checksum error (FR) Transmitter checksum error (RR) Transmitter checksum error (RL)	<u>WT-16</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-18</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-16</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-16</u>
52	Vehicle speed signal	<u>WT-19</u>
53	TPMS malfunction in BCM	WT-20

WIRING DIAGRAM

TIRE PRESSURE MONITORING SYSTEM

Wiring Diagram



TIRE PRESSURE MONITORING SYSTEM

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TIRE PRESSURE MONITORING SYSTEM CONNECTORS

Connector No. M5 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	[新] SM 4M 3M 2M 1M 1M 1M 1M 1M 1M 1	Terminal No. Wire Signal Name	12M O -					
Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	3N	Terminal No. Color of Signal Name	1N W/L –	2N G -				
Connector No. M1 Connector Name WIRE TO WIRE Connector Color WHITE	H.S. 96 86 76 66 56 46 36 16 16 16 16 16 16 1	34G 33G 32G 31G 30G 29G 28G 27G 19G 18G 18G 18G 27G 19G 18G 28G 27G 37G 38G 33G 37G 38G 33G 37G 38G 37G 37G	50G 49G 48G 47G 46G 45G 44G 43G 42G	586 570 560 556	 726 77 6 776 1966 886 67'5 866 806 796 776 776 756 746 736 866 846	836 826 816	Terminal No. Wire Signal Name	82G W/B –



Connector Name BCM (BODY CONTROL MODULE) BLACK

Connector Color

M16

Connector No.



Signal Name	GND1
Color of Wire	В
Terminal No.	13

Signal Name	BAT_POWER_F/L	
Color of Wire	M/B	
Terminal No.	1	

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TIRE PRESSURE MONITORING SYSTEM

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1					19	39	
					18	38 39	
					17	37	
		H.			16	36	
		E			15	35	
		M			14	34	
		z			13	33	
		12		l 17	10 11 12 13	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	
		'≼			11	31	
		Ħ	ш	I IN	10	30	
	4	Ž	Connector Color WHITE		6	29	
	M24	8	∣≶		8	28	
	_	е	_		7	27	
		ŭ	흥		9	26	
	ž	ž	ပြ		S	52	
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	'n	n	Ē	S. H	7	22	
	Connector No.	Connector Name COMBINATION METER	ပိ		-	2	

Signal Name	BATT	NSI	GND (POWER)	GND (ILL)	CAN-H	CAN-L	GND (CIRCUIT)
Color of Wire	M/L	0	В	В	٦	Ь	В
Terminal No.	-	2	3	4	21	22	23

			-			
	09	8				
	61	26				
	62	82				
	63	83) a		
	64	84		l ä	 	Ţ
	92	85		=	<u>Z</u>	Ż
	99	88		≌	CAN-L	CAN-H
\vdash	29	87		Signal Name		
117	89	88		",		
W	69	88				
IN.	20	96				
$\ \cdot \ $	7	6		` ♂		
	78 77 76 75 74 73 72 71	95		5.≝	_ □	
	73	93		∣ত়≶		
	74	95		٠.		
	75	92				
	9/	96		<u></u>		
	77	97		≟	28	79
	78	88		erminal No. Wire		
	6	9	1	ω, ι		l

Signal Name	CAN-L	CAN-H	
Color of Wire	Ь	٦	
Terminal No.	78	62	

Connector Name BCM (BODY CONTROL MODULE)

Connector No. M19

Connector Color BLACK

Signal Name	IGN F/B	GND RF2 A/L	A/L SENS KEYLESS TUNER POWER SUPPLY	KEYLESS TUNER SI	TPMS MODE TRIGGER SW
Color of Wire	G	Ь	W/N	0/9	M
Terminal No. Wire	31	45	46	47	22

Connector No.	. M70	
Connector Name	me TIRE	TIRE PRESSURE RECEIVER
Connector Color	lor WHITE	11
原 H.S.		2 3 4
Terminal No.	Color of Wire	Signal Name
1	Ы	GND
2	0/9	SIGNAL
_	WWA	POWER

	l		I			
	TIRE PRESSURE WARNING CHECK CONNECTOR	ПЕ		Signal Name	1	
. M62		lor WH		Color of Wire	8	
Connector No.	Connector Name	Connector Color WHITE	赋利 H.S.	Terminal No.	-	

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WT-47 Revision: September 2009 2010 Altima HEV Α

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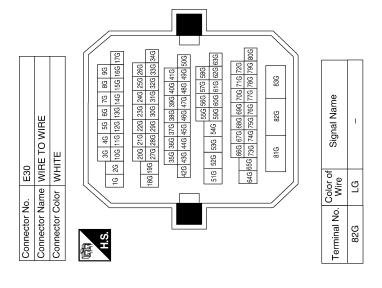
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SYMPTOM DIAGNOSIS

TPMS

Symptom Table

INFOID:00	กกกกกกก	1544087	2

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

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 <u>LAN-28, "CAN System Specification Chart".</u>

NO >> GO TO 2

2.CHECK COMBINATION METER

Check combination meter operation. Refer to MWI-35, "CONSULT-III Function (METER/M&A)".

Is the inspection result normal?

YES >> GO TO 3

NO >> Replace combination meter. Refer to MWI-117, "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-83, "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:0000000005440874 В DIAGNOSTIC PROCEDURE 1.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 $2.\mathtt{BCM}$ POWER SUPPLY AND GROUND CIRCUITS Check BCM power supply and ground circuits. Refer to BCS-41, "Diagnosis Procedure". Is the inspection result normal? F >> Replace BCM. Refer to BCS-83, "Removal and Installation". YES NO >> Repair BCM circuits. Н

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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

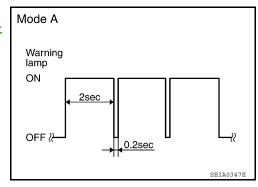
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Regarding Wiring Diagram information, refer to WT-45, "Wiring Diagram".

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".



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

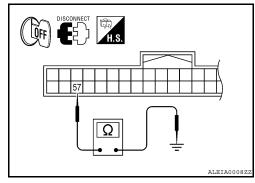
Check continuity between BCM harness connector M18 terminal 57 and ground.

Continuity should not exist.

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-83</u>, "Removal and Installation".

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-41. "Diagnosis Procedure". Is the inspection result normal? YES >> Replace BCM. Refer to BCS-83, "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

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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-14, "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 p	page		WT-58	<u>WT-58</u>	<u>WT-58</u>	<u>WT-64</u>	<u>WT-58</u>	I	I	WT-64	FAX-3, "NVH Troubleshooting Chart", FSU-3, "NVH Troubleshooting Chart"	RAX-3, "NVH Troubleshooting Chart", RSU-3, "NVH Troubleshooting Chart"	Refer to TIRES in this chart.	Refer to ROAD WHEEL in this chart.	FAX-3, "NVH Troubleshooting Chart"	BR-6, "NVH Troubleshooting Chart"	ST-3, "NVH Troubleshooting Chart"			
Possible ca	use and SU	SPECTED 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	×	×	×	×	×	×	×		×	×		×	×	×	×			
	TIRES	Shake	×	×	×	×	×	×		×	×	×		×	×	×	×			
		TIRES	TIRES	TIRES	Vibration				×				×	×	×			×		×
					Shimmy	×	×	×	×	×	×	×	×	×	×		×		×	×
		Shudder	×	×	×	×	×	×		×	×	×		×		×	×			
Symptom		Poor quality ride or handling	×	×	×	×	×	×		×	×		×	×						
		Noise	×	×	×			×			×	×	×		×	×	×			
	ROAD	Shake	×	×	×			×			×	×	×		×	×	×			
	WHEEL	Shimmy, Shudder	×	×	×			×			×	×	×			×	×			
	WHEEL	Poor quality ride or handling	×	×	×			×			×	×	×							

^{×:} Applicable

Revision: September 2009 WT-55 2010 Altima HEV

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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.

General Precautions

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

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	\

Commercial Service Tools

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Tool name		Description	
Power tool		Loosening bolts and nuts	
	PBIC0190E		

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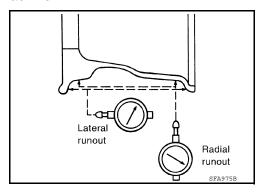
ON-VEHICLE MAINTENANCE

ROAD WHEEL

Inspection INFOID.000000005440884

- 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.

Wheel runout (Dial indicator value) : Refer to WT-64.



TIRE PRESSURE RECEIVER

< ON-VEHICLE REPAIR >

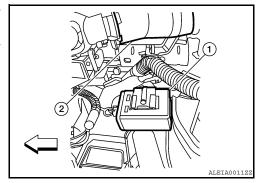
ON-VEHICLE REPAIR

TIRE PRESSURE RECEIVER

Removal and Installation

REMOVAL

- 1. Remove instrument lower cover (LH). Refer to IP-11, "Removal and Installation".
- 2. Locate tire pressure receiver (1) to the right of the steering column (2) and disconnect the tire pressure receiver connector.
- 3. Remove the tire pressure receiver (1) from bracket using a suitable tool to release the bracket.
 - <□: Vehicle front



INSTALLATION

Installation is in the reverse order of removal.

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ROAD WHEEL TIRE ASSEMBLY

Adjustment

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 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 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 tire balance 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 (1.67) = balance weight to be installed

Calculation example:

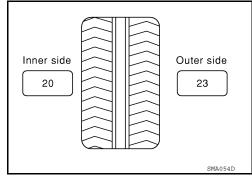
23 g (0.81 oz) \times 5/3 (1.67) = 38.33 g (1.35 oz) \Rightarrow 40 g (1.41 oz) balance weight (closer to calculated balance weight value)

NOTE:

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

Example:

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



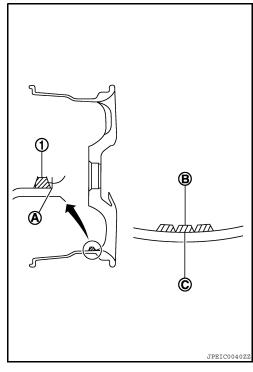
3. Install balance weight in the position shown.

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

< ON-VEHICLE REPAIR >

 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 q (0.17 oz) each or below.
- 8. If either residual imbalance value exceeds 5 g (0.17 oz), repeat installation procedures.

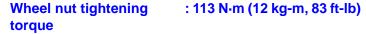
Wheel balance	Dynamic (At flange)	Static (At flange)
Maximum allowable imbalance	Refer to WT-64, "Road Wheel".	

TIRE ROTATION

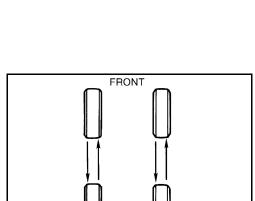
- Follow the maintenance schedule for tire rotation service intervals. Refer to MA-5, "Explanation General Maintenance".
- When installing the wheel, tighten wheel nuts to the specified torque.

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.
- Use NISSAN genuine wheel nuts for aluminum wheels.



Perform the ID registration, after tire rotation. Refer to WT-6, "ID Registration Procedure".



4 wheels

Adhesion weight

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Wheel balancer indication position (angle)

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REMOVAL AND INSTALLATION

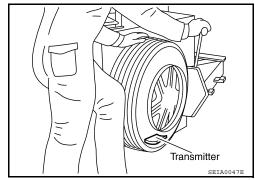
TRANSMITTER

Removal and Installation

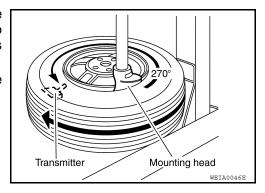
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REMOVAL

- 1. Remove wheel and tire using power tool.
- 2. Deflate tire. Unscrew transmitter retaining nut and allow transmitter to fall into tire.
- Gently bounce tire so that transmitter falls to bottom of tire. Place wheel and tire assembly on tire changing machine and break both tire beads. Ensure that the transmitter remains at the bottom of the tire while breaking the bead.

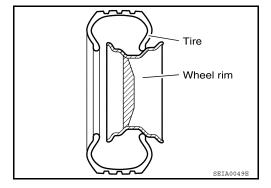


- 4. Turn tire so that valve hole is at bottom, and gently bounce the tire to ensure transmitter is near valve hole. Carefully lift tire onto turntable and position valve hole (and transmitter) 270 degrees from mounting/dismounting head.
- 5. Lubricate tire well, and remove top side of tire. Reach inside the tire and remove the transmitter.
- 6. Remove the second side of the tire as normal.



INSTALLATION

1. Place first side of tire onto rim.



2. Apply suitable silicone lubricant to new transmitter seal then install seal on transmitter. Refer to MA-11, "Fluids and Lubricants".

NOTE:

Always replace the seal after every disassembly.

TRANSMITTER

< REMOVAL AND INSTALLATION >

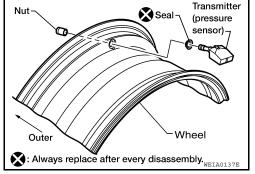
3. Mount transmitter on rim and tighten nut at a maximum speed of 10 rpm.

NOTE:

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

Transmitter nut tightening torque

: 7.7 N·m (0.79 kg-m, 68 in-lb)



4. Place wheel on turntable of tire machine. Ensure that transmitter is 270 degrees from mounting/dismounting head.

NOTE:

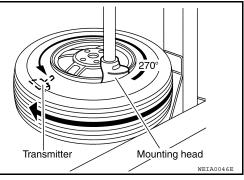
Do not touch transmitter with mounting head.

- 5. Lubricate tire well, and install second side of tire as normal. Ensure that tire does not rotate relative to rim.
- Inflate tire and balance the wheel and tire assembly. Refer to WT-60, "Adjustment".
- 7. Install wheel and tire assembly in appropriate wheel position on vehicle. Refer to <u>WT-60</u>, "Adjustment".

NOTE:

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

8. Adjust neutral position of steering angle sensor. Refer to <u>BRC-9</u>, "<u>PERFORM ZERO POINT OF STEER-ING ANGLE SENSOR</u>: Special Repair Requirement".



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SERVICE DATA AND SPECIFICATIONS (SDS)

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Road Wheel

Standard item		Allowable value	
Maximum radial runout limit	Lateral deflection	Less than 0.3 mm (0.012 in)	
	Radial deflection	Less than 0.3 mm (0.012 in)	
Maximum allowable unbalance	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:0000000005440889

Unit: kPa (kg/cm², psi)

Tire size	Air pressure	
	Front tire	Rear tire
P215/60R16	240 (2.4, 35)	240 (2.4, 35)
T135/90R16	420 (4.2, 60)	420 (4.2, 60)