# SECTION WT **ROAD WHEELS & TIRES**

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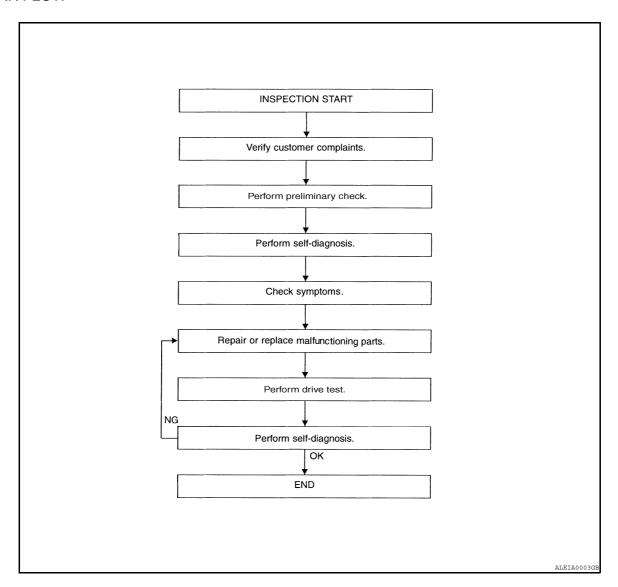
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# **BASIC INSPECTION**

### DIAGNOSIS AND REPAIR WORKFLOW

Repair Work Flow

**WORK FLOW** 



WT-5, "Preliminary Check"

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

WT-54, "Symptom Table"

**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

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#### **DIAGNOSIS AND REPAIR WORKFLOW**

#### < BASIC INSPECTION >

# 3. SELF-DIAGNOSIS

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

>> GO TO 4

#### 4.SYMPTOM

Check for symptoms. Refer to WT-54, "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-44</u>, "Self-Diagnosis (With CONSULT-III)" or <u>WT-44</u>, "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:000000005434607

### 1. TIRE PRESSURE

Check all tire pressures. Refer to WT-69, "Tire".

Do tire pressures match specification?

YES >> GO TO 2

NO >> Adjust tire pressure to specified value.

2.LOW TIRE PRESSURE WARNING LAMP

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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-55, "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.

Are BCM connectors damaged or loose?

YES >> Repair or replace damaged parts.

NO >> GO TO 4 Н

### 4. TRANSMITTER ACTIVATION TOOL

Check battery in transmitter activation tool.

Is transmitter activation tool battery fully charged?

>> Perform SELF-DIAGNOSIS. Refer to WT-44, "Self-Diagnosis (With CONSULT-III)".

NO >> Replace battery in transmitter activation tool.

INFOID:0000000005434608

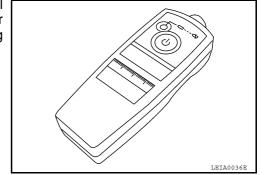
### Transmitter Wake Up Operation

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)



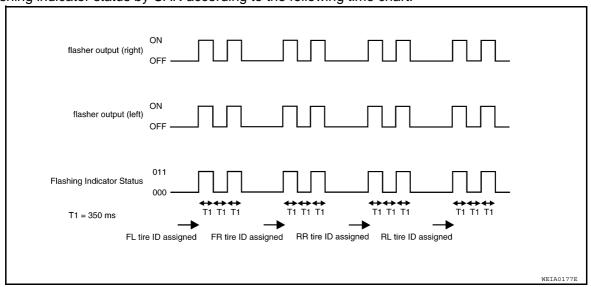
Repeat this procedure for each tire in the following order: FL, FR, RR, RL.

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#### 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.



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

### **ID Registration Procedure**

INFOID:000000005434609

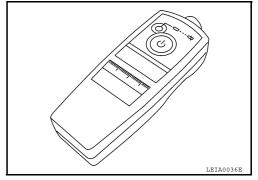
#### ID REGISTRATION WITH TRANSMITTER ACTIVATION TOOL

#### 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 hashing	"DONE"
4	Rear LH		

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.

- Connect CONSULT-III.
- 2. 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/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)

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-69, "Tire".

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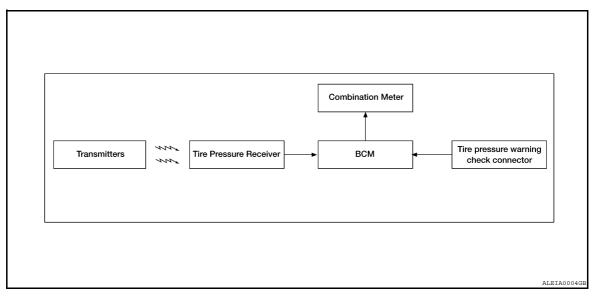
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# **FUNCTION DIAGNOSIS**

### **TPMS**

System Diagram

INFOID:0000000005434610



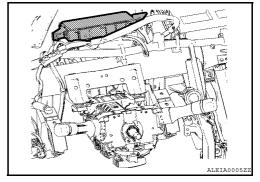
# System Description

INFOID:0000000005434611

### **BODY CONTROL MODULE (BCM)**

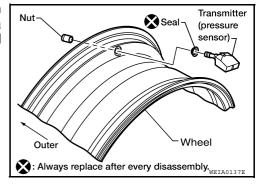
The BCM is shown with the instrument panel LH removed. The BCM reads the air pressure signal received by the tire pressure receiver, and controls the low tire pressure warning lamp as shown below. It also has a self-diagnosis function to detect a system malfunction.

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 <sup>2</sup> , 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.

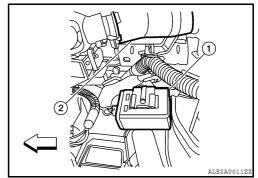


#### TIRE PRESSURE RECEIVER

#### **TPMS**

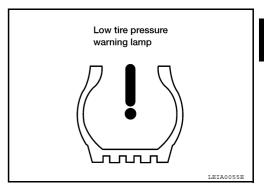
#### < FUNCTION DIAGNOSIS >

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.



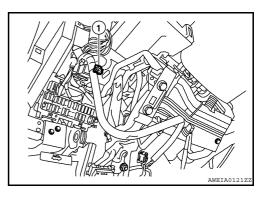
#### **COMBINATION METER**

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-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.



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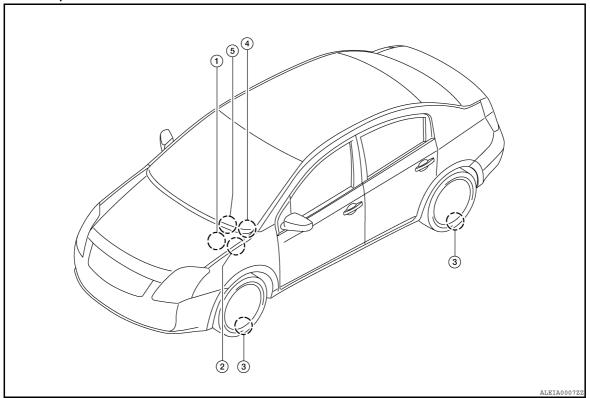
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< FUNCTION DIAGNOSIS >
System Components

INFOID:0000000005434612



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

### **DIAGNOSIS SYSTEM (BCM)**

#### < FUNCTION DIAGNOSIS >

### **DIAGNOSIS SYSTEM (BCM)**

### CONSULT-III Function (BCM)

#### INFOID:0000000005434613

#### 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	×	×

<sup>×:</sup> 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	Igrition switch ON	
ID REGST RL1		

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<sup>-:</sup> Not applicable

### **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

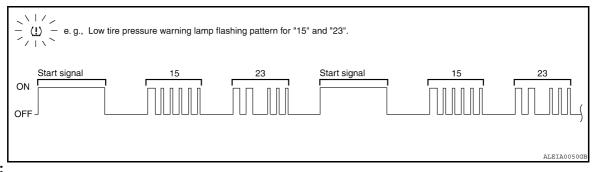
Test item	Content	
ID REGIST	The identification number of the transmitter is registered in the BCM.	
ID READ	The identification registration number of the transmitter is read by the BCM.	

### Self-Diagnosis (Without CONSULT-III)

INFOID:0000000005778708

#### SELF DIAGNOSTIC PROCEDURE (WITHOUT CONSULT-III)

- 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.



#### 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)	WT-16
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:0000000005434615

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.
- 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 >> Refer to WT-14, "Diagnosis Procedure".

### **Diagnosis Procedure**

INFOID:0000000005434617

#### 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 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-96, "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-67, "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.

#### 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".

INFOID:0000000005434618

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

< COMPONENT DIAGNOSIS >

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

Description INFOID:000000005434619

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 <u>WT-16, "Diagnosis Procedure"</u>.

### 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:000000005434621

### 1.PERFORM ID REGISTRATION

- Carry out ID registration of all transmitters. Refer to <u>WT-6, "ID Registration Procedure"</u>.
- 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-67, "Removal and Installation"</u>.
- 2. Carry out ID registration of all transmitters.

#### Can ID registration of all transmitters be completed?

YES >> GO TO 3

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

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### 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.

#### 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.

### Special Repair Requirement

INFOID:0000000005778709

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 INFOID:0000000005434623

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

### 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.
- 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:0000000005434625

#### 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-69, "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".
- 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-67, "Removal and Installation". GO TO 3.

NO >> GO TO 3

### 3.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

INFOID:0000000005778710

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

#### C1729 VEHICLE SPEED SIGNAL

#### < COMPONENT DIAGNOSIS > C1729 VEHICLE SPEED SIGNAL Α Description INFOID:000000005434627 The vehicle speed signal is not being detected by the BCM. B **DTC** Logic INFOID:0000000005434628 DTC DETECTION LOGIC DTC CONSULT-III DTC detecting condition D C1729 VHCL SPEED SIG ERR Vehicle speed signal is in error. DTC CONFIRMATION PROCEDURE 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:0000000005434629 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-26, "CAN System Specification Chart". >> Check combination meter. Refer to MWI-42, "CONSULT-III Function (METER/M&A)". NO Special Repair Requirement INFOID:0000000005778711 Perform preliminary check. Refer to WT-5, "Preliminary Check".

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#### C1734 CONTROL UNIT

#### < COMPONENT DIAGNOSIS >

#### C1734 CONTROL UNIT

Description INFOID:000000005434631

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

### 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:0000000005434633

### 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-70, "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-42, "Diagnosis Procedure".

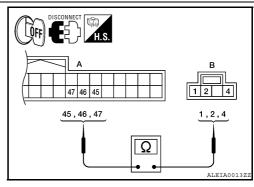
#### Are the power supply and grounds normal?

YES >> GO TO 4.

NO >> Repair power supply or grounds as necessary.

### 4. CHECK HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

- 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.



#### C1734 CONTROL UNIT

#### < COMPONENT DIAGNOSIS >

ВСМ		Tire pressure receiver		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M18	45	M70	1		
	46		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-47, "Reference Value".

### Are the inputs and outputs normal?

YES >> Inspection End.

>> Replace BCM. Refer to BCS-96, "Removal and Installation". NO

### Special Repair Requirement

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

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INFOID:0000000005778712

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# **ECU DIAGNOSIS**

# BCM (BODY CONTROL MODULE)

Reference Value

#### VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ED WIDED III	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
ED WACHED OW	Front washer switch OFF	OFF
FR WASHER SW	Front washer switch ON	ON
FR WIPER INT	Other than front wiper switch INT	OFF
FR WIPER INT	Front wiper switch INT	ON
ED WIDED CTOD	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
TURN SIGNAL R	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TURN SIGNAL L	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	OFF
TAIL LAWP SW	Lighting switch 1ST or 2ND	ON
HI BEAM SW	Other than lighting switch HI	OFF
HI BEAIN SW	Lighting switch HI	ON
HEAD LAMP SW 1	Other than lighting switch 2ND	OFF
TILAD LAWF SW T	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
HEAD LAWF 3W 2	Lighting switch 2ND	ON
PASSING SW	Other than lighting switch PASS	OFF
FAGSING SW	Lighting switch PASS	ON
AUTO LIGHT SW	Other than lighting switch AUTO	OFF
AOTO LIGITI OW	Lighting switch AUTO	ON
FR FOG SW	Front fog lamp switch OFF	OFF
11110000	Front fog lamp switch ON	ON
DOOR SW-DR	Driver door closed	OFF
DOOK SW-DK	Driver door opened	ON
DOOR SW-AS	Passenger door closed	OFF
DOOK SW-AS	Passenger door opened	ON
DOOR SW-RR	Rear door RH closed	OFF
DOOK GW-KK	Rear door RH opened	ON
DOOR SW-RL	Rear door LH closed	OFF
DOOK OW-IVE	Rear door LH opened	ON

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### < ECU DIAGNOSIS >

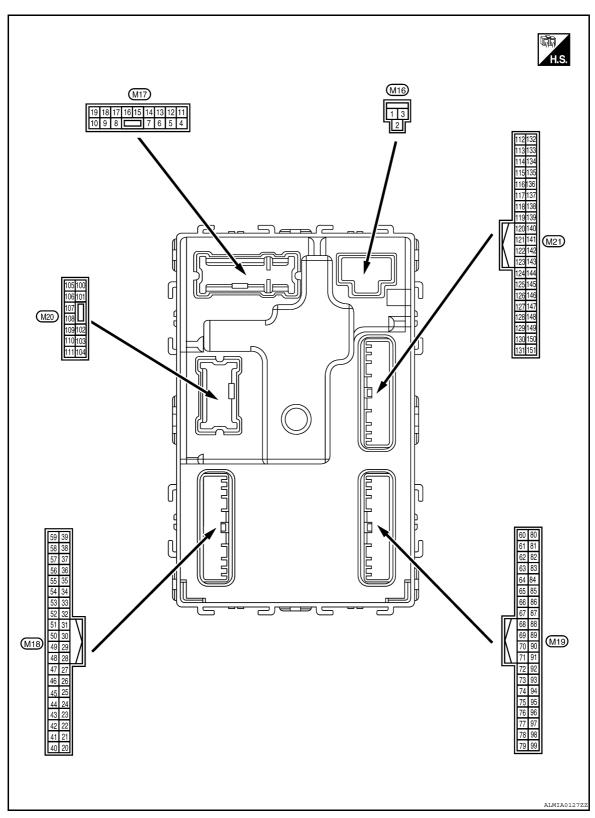
Monitor Item	Condition	Value/Status
CDL LOCK SW	Other than power door lock switch LOCK	OFF
CDL LOCK SW	Power door lock switch LOCK	ON
CDL TINI OCK 8/W	Other than power door lock switch UNLOCK	OFF
ODE ONLOCK OV	Power door lock switch UNLOCK	ON
CDL LOCK SW  CDL UNLOCK SW  CEY CYL LK-SW  CEY CYL UN-SW  CEAR DEF SW  CRANCEL	Other than driver door key cylinder LOCK position	OFF
KET OTE EK-5W	Driver door key cylinder LOCK position	ON
KEY CYL LINLSW	Other than driver door key cylinder UNLOCK position	OFF
KET OTE ON OW	Driver door key cylinder UNLOCK position	ON
HAZARD SW	When hazard switch is not pressed	OFF
TINE/IND OW	When hazard switch is pressed	ON
REAR DEF SW	When rear window defogger switch is pressed	ON
TR CANCEL SW	Trunk lid opener cancel switch OFF	OFF
TIT CANCLE OV	Trunk lid opener cancel switch ON	ON
TR/RD OPEN SW	Trunk lid opener switch OFF	OFF
TIVED OF EN OW	While the trunk lid opener switch is turned ON	ON
Monitor Item CDL LOCK SW CDL UNLOCK SW CEY CYL LK-SW CEY CYL UN-SW CEAR DEF SW CR CANCEL SW CR/BD OPEN SW CRNK/HAT MNTR CRKE-LOCK CRKE-UNLOCK CRKE-PANIC	Trunk lid closed	OFF
	Trunk lid opened	ON
DKE'I OCK	When LOCK button of Intelligent Key is not pressed	OFF
KKL-LOOK	When LOCK button of Intelligent Key is pressed	ON
BKETINI OCK	When UNLOCK button of Intelligent Key is not pressed	OFF
TAKE ONLOOK	When UNLOCK button of Intelligent Key is pressed	ON
RKE-TR/RD	When TRUNK OPEN button of Intelligent Key is not pressed	OFF
ICICE-TTV DD	When TRUNK OPEN button of Intelligent Key is pressed	ON
BKE-DANIC	When PANIC button of Intelligent Key is not pressed	OFF
MIL-I AINIO	When PANIC button of Intelligent Key is pressed	ON
RKE-TR/BD  RKE-PANIC  RKE-P/W OPEN	When UNLOCK button of Intelligent Key is not pressed and held	OFF
IXIXE-I /VV OI LIN	When UNLOCK button of Intelligent Key is pressed and held	ON
DKE WODE CHG	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF
KKE-WODE ONO	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON
ODTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V
OF HOAL BENOOK	When outside of the vehicle is dark	Close to 0 V
DEO SW DD	When driver door request switch is not pressed	OFF
REQ 3W-DR	When driver door request switch is pressed	ON
REO SW. AS	When passenger door request switch is not pressed	OFF
NLQ 3W-A3	When passenger door request switch is pressed	ON
DEO SW/ DD/TD	When trunk request switch is not pressed	OFF
REQ 3W-BD/TR	When trunk request switch is pressed	ON
DUSH SW	When engine switch (push switch) is not pressed	OFF
1 0011 011	When engine switch (push switch) is pressed	ON
ICN DI V2 E/D	Ignition switch OFF or ACC	OFF
IGN KLTZ-F/B	Ignition switch ON	ON
ACC DIVE	Ignition switch OFF	OFF
ACC KLY-F/B	Ignition switch ACC or ON	ON

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Monitor Item	Condition	Value/Status
CLUTCH SW	When the clutch pedal is not depressed	OFF
CLUTCH SW	When the clutch pedal is depressed	ON
DDAKE CW 1	When the brake pedal is not depressed	ON
BRAKE SW I	When the brake pedal is depressed	OFF
ETE/CANCL SW  FT PN/N SW  NLK SEN-DR  USH SW-IPDM  GN RLY1 F/B  ETE SW -IPDM  FT PN -IPDM  FT P-MET  FT N-MET  H SPEED 1  EH SPEED 1  EH SPEED 2  OOR STAT-DR  OOR STAT-AS  OOK FLAG  RMT ENG STAT  EY SW -SLOT	When selector lever is in P position	OFF
DETE/CANCE SW	When selector lever is in any position other than P	ON
SET DNI/NI SW	When selector lever is in any position other than P or N	OFF
SEL FININ SW	When selector lever is in P or N position	ON
LINI K CEN DD	Driver door UNLOCK status	OFF
UNLK SEN-DR	Driver door LOCK status	ON
DUCU CW IDDM	When engine switch (push switch) is not pressed	OFF
POSH 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
EH SPEED 2	When selector lever is in P position	OFF
DETE SW -IPDM	When selector lever is in any position other than P	ON
05T DV 100M	When selector lever is in any position other than P or N	OFF
SET PN -IPDM	When selector lever is in P or N position	ON
	When selector lever is in any position other than P	OFF
SELP-MET	When selector lever is in P position	ON
057.11.1457	When selector lever is in any position other than N	OFF
SFI N-MEI	When selector lever is in N position	ON
	Engine stopped	STOP
ENGINE OTATE	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
	When the engine start is prohibited	RESET
PRMT ENG STAT	When the engine start is permitted	SET
	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 Key
	The key ID that the key slot receives does not accord with any key ID registered to BCM.	YET
CONFRM ID ALL	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE

Monitor Item	Condition	Value/Status	
CONFIDMIDA	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	YET	_ <i>/</i> -
CONFIRM ID4	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE	E
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	YET	_
CONTINUIDS	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	
CONTINUIDZ	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	W
OOM IKWIDI	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE	F
TD /	The ID of fourth key is not registered to BCM	YET	
TP 2 TP 1 AIR PRESS FL	The ID of fourth key is registered to BCM	DONE	_
TP 3	The ID of third key is not registered to BCM	YET	
1173	The ID of third key is registered to BCM	DONE	<del></del>
TDO	The ID of second key is not registered to BCM	YET	  -
IP2	The ID of second key is registered to BCM	DONE	_
TD 4	The ID of first key is not registered to BCM	YET	_
IPI	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	R PRESS FR Ignition switch ON (only when the signal from the transmitter is received)		
Ignition switch ON (only when the signal from the transmitter is re-		Air pressure of rear RH tire	k
AIR PRESS FR  ceived)  AIR PRESS RR  Ignition switch ON (only when the signal from the transmitter is received)  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	DONE	
ID REGGITE!	When ID of front LH tire transmitter is not registered	YET	
ID REGST FR1	When ID of front RH tire transmitter is registered	DONE	
ID REGGI FRI	When ID of front RH tire transmitter is not registered	YET	_
ID DECOT DD4	When ID of rear RH tire transmitter is registered	DONE	<del></del>
ID REGST RR1	When ID of rear RH tire transmitter is not registered	YET	
ID DECOT DL 4	When ID of rear LH tire transmitter is registered	DONE	_
ID REGST RL1	When ID of rear LH tire transmitter is not registered	YET	_
	Tire pressure indicator OFF	OFF	_ (
WARNING LAMP	Tire pressure indicator ON	ON	_
	Tire pressure warning alarm is not sounding	OFF	— F
BUZZER	Tire pressure warning alarm is sounding		

Terminal Layout



Physical Values

Terminal No. (Wire color)		Description					Value	Δ
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)		
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage	E	
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	I	Battery voltage		
4	Cround	Interior room lamp	Output	After passing the i	nterior room lamp battery sav-	OV		
(P/W)	Ground	power supply	Output	Any other time aft lamp battery save	er passing the interior room or operation time	Battery voltage	W	
5	Crownd	Front door RH UN-	Outnut	Front door DII	UNLOCK (actuator is activated)	Battery voltage		
(G/Y)	Ground	LOCK	Output	Front door RH	Other than UNLOCK (actuator is not activated)	ov	F	
7	0	Otan Inna	0	Ctor love	ON	OV		
(R/W)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage		
8	8 (V) Ground All doors L	Ground	- d All d 1 001/	0	All deem	LOCK (actuator is activated)	Battery voltage	
(V)			All doors LOCK	Output	All doors	Other than LOCK (actuator is not activated)	OV	H
9	9 Ground Front door LI LOCK		. Front door LH UN-			UNLOCK (actuator is activated)	Battery voltage	I
(G)		LOCK	Output	Front door LH	Other than UNLOCK (actuator is not activated)	ov		
10 <sup>1</sup>	0	Rear door RH and	0.1.1	Rear door RH	UNLOCK (actuator is activated)	Battery voltage	·	
(G/Y)	Ground	rear door LH UN- LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	ov	k	
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage		
13 (B)	Ground	Ground	_	Ignition switch ON	ı	ov	L	
					OFF	0V		
					NOTE: When the illumination brightening/dimming level is in the neutral position	N		
14 <sup>6</sup> (R/Y)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	(V) 10 0	C	
						JSNIA0010GB	_	

	inal No.	Description		Condition		Value
(+)	e color)	Signal name	Input/ Output			(Approx.)
	( )				OFF	0V  NOTE:  When the illumination brighten-
14 <sup>1</sup> (O/W)	Ground	Engine switch (push switch) illumination ground	Input	Tail lamp	ON	ing/dimming level is in the neutral position  (V)  10  0  JSNIA0010GB
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
(Y/L)			1	3 ** * **	ACC or ON	0V
					Turn signal switch OFF	0V
17 (G/B)	Ground	Turn signal (RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 PKID0926E
					Turn signal switch OFF	6.5 V
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	OFF	Battery voltage
(Y)	Ground	control	Output	lamp	ON	0V
21	Ground	Optical sensor signal	Input	Ignition switch	When outside of the vehi- cle is bright	Close to 5V
(P/B)	Ground	Optical serisor signal	прис	ON	When outside of the vehi- cle is dark	Close to 0V
22	Ground	Clutch interlock	Innut	Clutch interlock	OFF (clutch pedal is not depressed)	ov
(R/Y)	Orouna	switch	Input	switch	ON (clutch pedal is depressed)	Battery voltage
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage
26	Ground	Stop Jamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	ov
(O/L)	Ground	d Stop lamp switch 2			ON (brake pedal is depressed)	Battery voltage

	inal No.	Description				Value	
(Wire (+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	Α
27	Ground	Front door lock as- sembly LH (unlock	Input	Front door LH	LOCK status	(V) 15 10 5 0	В
(G/W)		sensor)			UNLOCK status	10 ms JPMIA0011GB	D
29				When Intelligent K	Cey is inserted into key slot	Battery voltage	
(Y)	Ground	Key slot switch	Input		ey is not inserted into key slot		W
30 (V/Y)	Ground	ACC feedback signal	Input	Ignition switch	OFF ACC or ON	0 Battery voltage	F
31	Ground	Rear window defog-	Input	Rear window de-	OFF	0V	
(G)	Ciound	ger feedback signal	input	fogger switch	ON	Battery voltage	G
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 11.8 V	Н
					ON (when front door RH opens)	0V	J
33 (SB)	Ground	Compressor ON sig- nal	Input	A/C switch	OFF ON	9.0 - 12.0V 0V	K
34 <sup>2</sup>		Front door lock as-		Front door lock	OFF (neutral)	5V	
(L/R)	Ground	sembly LH (key cylin- der switch) (unlock)	Input	assembly LH (key cylinder switch)	ON (unlock)	0V	L
36 <sup>2</sup>	Ground	Lock switch signal	Input	Door lock/unlock	Lock	Battery voltage	_
(GR)		3.9	1, 4.2	switch	Unlock	0V	
37 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 10 ms  JPMIA0012GB 1.1V	N N
					ON	0V	
38		D		D	OFF	5V	Р
(GR/ W)	Ground	Rear window defog- ger ON signal	Input	Rear window de- fogger switch	ON	0V	
39 <sup>2</sup>				Door lock/unlock	Unlock	Battery voltage	
(GR/ R)	Ground	Unlock switch signal	Input	switch	Lock	OV	

40 <sup>3</sup> (Y/G) Gr  41 (W) Gr  42 (R) Gr  45 (P) Gr		Description Input/		Condition		Value
41 (W) Gr 42 (R) Gr 45 (P) Gr	(-)	Signal name	Output		Condition	(Approx.)
(W) Gr 42 (R) Gr 45 (P) Gr 46 Gr	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms 10.2V
(W) Gr 42 (R) Gr 45 (P) Gr 46 Gr				Ignition switch OFI	or ACC	0V
42 (R) Gr 45 (P) Gr	المستحد	Engine switch (push	O. 14m. 14	Engine switch	ON	5.5V
(R) Gr 45 (P) Gr 46 Gr	Ground	switch) illumination	Output	(push switch) illu- mination	OFF	0V
45 (P) Gr	Ground	LOCK indicator lamp	Output	LOCK indicator	ON	OV
(P) Gr	z. curiu		Juput	lamp	OFF	Battery voltage
	Ground	Receiver & sensor ground	Input	Ignition switch ON		oV
	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V
(V/W) G	J. Garia	power supply output	Catput		ACC or ON	5.0V
47		Tire pressure receiv-	Input/	lanition switch	Standby state	(V) 6 4 2 0 •• 0.2s
(G/O)	Ground	er signal	Output	Ignition switch ON	When receiving the signal from the transmitter	(V) 4 2 0 ••• 0.2s
48 Gr	Ground	Selector lever P/N	Input	Selector lever	P or N position	12.0V
(R/G)		position signal			Except P and N positions	0V
					ON	0V
49 (L/O) Gr	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0
					OFF	11.3V Battery voltage

	inal No.	Description				Value	Λ
(Wire (+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switch OFF	OV	В
					Lighting switch 1ST		
50				Combination	Lighting switch high-beam	(V) 15	
50 (LG/	Ground	Combination switch OUTPUT 5	Output	switch (Wiper intermit-	Lighting switch 2ND	10	С
В)		001110115		tent dial 4)	Turn signal switch RH	2 ms JPMIA0031GB	D
					All switch OFF (Wiper intermittent dial 4)	ov	W
					Front wiper switch HI (Wiper intermittent dial 4)	(V)	_
51 (L/W)	Ground	Combination switch OUTPUT 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	15 10 5 0	F G
					Wiper intermittent dial 7      Wiper intermittent dial 7  All switch OFF	10.7V	Н
					(Wiper intermittent dial 4)	0V	
		Combination switch OUTPUT 2	Output	Combination switch	Front washer switch ON (Wiper intermittent dial 4)	(V)	I
52 (G/B)	Ground				Any of the conditions below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5	10 5 0 2 ms	J
					Wiper intermittent dial 6	JPMIA0033GB 10.7V	K
					All switch OFF	OV	
					Front wiper switch INT		L
				Combination	Front wiper switch LO	(V) 15	
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0	IV
						JPMIA0034GB 10.7V	N
					All switch OFF	0V	
					Front fog lamp switch ON		0
				Combination	Lighting switch 2ND	(V) 15	
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	switch (Wiper intermit-	Lighting switch flash-to- pass	10 5 0	
				tent dial 4)	Turn signal switch LH	2 ms JPMIA0035GB	
55					ON	Battery voltage	
(BR/ W)	Ground	Front blower monitor	Input	Front blower mo- tor switch	OFF	0V	

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output	33.Id.iidii		(Approx.)
56 <sup>2</sup>		Front door lock as-		Front door lock	OFF (neutral)	5V
(L/B)	Ground	sembly LH (key cylin- der switch) (lock)	Input	assembly LH (key cylinder switch)	ON (lock)	0V
57 (W)	Ground	Tire pressure warning 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 11.8V
					ON (front door LH OPEN)	0V
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage
(G/R)	Cround	ger relay	Catput	fogger	Not activated	OV
60		Front console antenna 2 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s  JMKIA0062GB
60 (B/R)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
61	Ground	Center console an-	Qutput	Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(W/R)	Ground	tenna 2 (+)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

	inal No. e color)	Description				Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	
62 <sup>4</sup>		Front outside handle		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 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	
63 <sup>4</sup> (LG)	Constant	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 1 1 s  JMKIA0062GB	
	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
64 <sup>4</sup>	Ground	Front outside handle	Output	When the front door LH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	
(V)	Ground	LH 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. e color)	Description		0		Value	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	
65 <sup>4</sup>	Ground	Front outside handle	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	
(P)		LH antenna (+)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s  JMKIA0063GB	
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	Ground	Remote keyless entry	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
(L/O)	Ground	receiver signal	Output	When operating either button on Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB	

### < ECU DIAGNOSIS >

Terminal No. (Wire color)		Description				Value	
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms  JPMIA0041GB 1.4V	B C
75 (R/Y)	Ground	Combination switch INPUT 5	Input	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB	WT
							G
					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 2 ms	Н
						1.3V	

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	inal No.	Description				V/I	
	e color)	Signal name	Input/	•	Condition	Value (Approx.)	
(+)	(-)		Output				
	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	
76					Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB	
(R/G)					Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 2 ms JPMIA0037GB	
					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		<u> </u>	_	
79 (L)	Ground	CAN-H	Input/ Output		_	_	
			•		OFF	OV	
80 (R/L)	Ground	Key slot illumination O	Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB	
					ON	Battery voltage	
81 (LG)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0V Battery voltage	
· -/					UN	battory voltage	

#### < ECU DIAGNOSIS >

	inal No. e color)	Description			Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
83	Ground	ACC relay control	Output	Ignition switch	OFF	OV
(L)	Giodila	ACC Telay Control	Juipui	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)	Ground	tion switch	iriput	Selector level	Any position other than P	Battery voltage
					ON (pressed)	OV
88 <sup>4</sup> (P/L)	Ground	Front door RH request switch	Innut		OFF (not pressed)	(V) 15 10 10 10 ms  JPMIA0016GB 1.0V
					ON (pressed)	0V
89 <sup>4</sup> (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 10 ms JPMIA0016GB 1.0V
90	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	OV
(Y)	Siodila	lay control	Jaipat	ig.mion ownor	ON	Battery voltage
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFI	F	Battery voltage

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#### < ECU DIAGNOSIS >

	ninal No. e color)	Description				Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB
					Turn signal switch LH	(V) 15 10 5 2 ms 1.3V
95 (R/W)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 JPMIA0036GI 1.3V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3V
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB

#### < ECU DIAGNOSIS >

	ninal No. e color)	Description				Value	А
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	$\wedge$
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	B C
96	Ground	Combination switch INPUT 4	Input	Combination switch	Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB	WT F
(P/B)					Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms  JPMIA0036GB	G H
					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 0 2 ms	J K
						JPMIA0039GB 1.3V	L

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#### < ECU DIAGNOSIS >

	inal No. e color)	Description	lan: #/		Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF	(V) 15 10 5 2 ms  JPMIA0041GB 1.4V
					Lighting switch flash-to- pass	(V) 15 10 5 0 2 ms JPMIA0037GB
97 (R/B)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	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 2 ms  JPMIA0040GB  1.3V
					Pressed	0 V
98 (G/O)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB

#### < ECU DIAGNOSIS >

	inal No.	Description				Value	
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	А
103	Ground	Trunk lid opening	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage	В
(V)	Giouna	ттапк на ореннід	Output	Trunk iid	Close (trunk lid opener actuator is not activated)	ov	
110 (V/W)	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V	С
(V/VV)					OFF	Battery voltage	
114	Ground	Rear parcel shelf antenna 1 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB	WT F
(B)	Glound				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	G
115	Ground	ound Rear parcel shelf antenna 1 (+)	Outro	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	J
(W)			Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	L M

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#### < ECU DIAGNOSIS >

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
1184		Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(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 <sup>4</sup> (BR/	Ground	Rear bumper anten-	Output	When the trunk lid request switch	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
W)	Glound	na (+)	Guipar	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s  JMKIA0063GB
127 (BR/	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	Battery voltage
W)		E/R) control	•		ON	0V
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
					ON (trunk is open)	0V

#### < ECU DIAGNOSIS >

	inal No.	Description	I		0 10	Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
				Ignition switch OFF (M/T vehi-	When the clutch pedal is depressed	Battery voltage
		Starter motor relay control		cle)	When the clutch pedal is not depressed	0V
132 (R)	Ground		Output	Ignition switch ON (other than M/ T vehicle)	When selector lever is in P or N position and the brake is depressed	Battery voltage
					When selector lever is in P or N position and the brake is not depressed	0V
140	Cravind	Engine switch (push	lanut	Engine switch	Pressed	0V
(BR)	Ground	switch)	Input	(push switch)	Not pressed	Battery voltage
					ON (pressed)	0V
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
144 <sup>4</sup>	Ground	Intelligent Key warn- ing buzzer	Output	Request switch buzzer	Sounding	OV
(GR)					Not sounding	Battery voltage
144 <sup>5</sup> (GR)	Ground	Outside warning buzzer	Output	Outside warning buzzer	Sounding	0V
					Not sounding Pressed	Battery voltage  OV
147 (L/R)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Not pressed	Battery voltage
					Not pressed	
148 <sup>1</sup> (R/W)	Ground	d Rear door RH switch	Input	Rear door RH	OFF (when rear door RH closes)	(V) 15 10 5 0
						JPMIA0011GB 11.8V
					ON (when rear door RH opens)	OV
		Rear door LH switch	Input		OFF (when rear door LH	(V) 15 10 0
149 <sup>1</sup> (R/B)	Ground			Rear door LH switch	closes)	10 ms
						JPMIA0011GB 11.8V
					ON (when rear door LH opens)	oV

<sup>1:</sup> Sedan

<sup>2:</sup> With LH front window anti-pinch

#### < ECU DIAGNOSIS >

- 3: With LH and RH front window anti-pinch
- 4: With Intelligent Key
- 5: Without Intelligent Key
- 6: Coupe

#### Self-Diagnosis (With CONSULT-III)

INFOID:0000000005434640

#### **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.

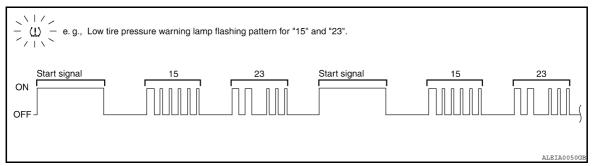
#### Self-Diagnosis (Without CONSULT-III)

INFOID:0000000005434641

#### 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.

#### < ECU DIAGNOSIS >



#### 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

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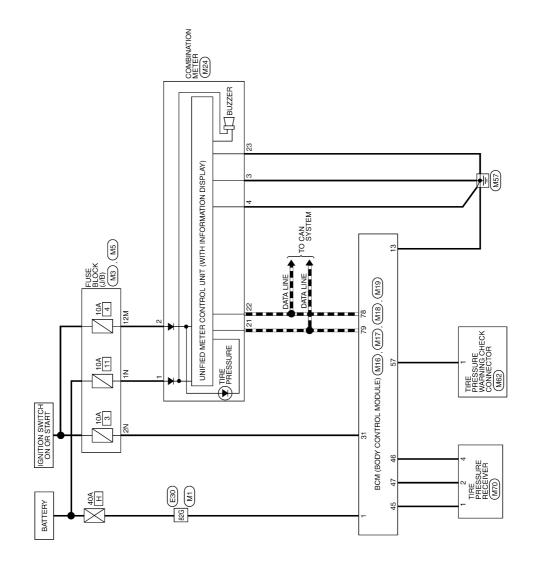
# WIRING DIAGRAM

# TIRE PRESSURE MONITORING SYSTEM

**COUPE** 

**COUPE**: Wiring Diagram

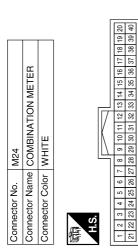
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TIRE PRESSURE MONITORING SYSTEM - COUPE

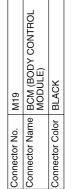
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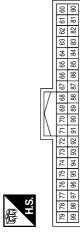
								А
	(J/B)	[হায়ু]	Signal Name -					В
	Connector No. M5 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	5M 4M 3M 2M 1M  12M 11M 10M 9M 8M 7M 6M						С
	No. M5 Name FUS Color WH	5M 41	Color of Wire					D
	Connector No. Connector Color	H.S.	Terminal No.					WT
								F
UPE	3LOCK (J/B)	NZ N	Signal Name			M17 BCM (BODY CONTROL MODULE) WHITE		G
S - CO	M3 ne FUSE E or WHITE	3N 8N 7N 6N 5N 4N	Color of Wire	5			Color of Wire B	Н
TIRE PRESSURE MONITORING SYSTEM CONNECTORS - COUPE	Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	S.H.	Terminal No.			Connector No. Connector Name Connector Color	minal No.	I
EM COL								J
SYSTE							1,	K
ORING	문	56 46 36 126 116 106 26 16 226 216 206	336   326   316   306   296   286   276   196   186       416   406   399   396   376   386   356     506   496   486   477   486   456   446   439   426	SSG   STG   SSG   SSG	Signal Name -	Connector No. M16 Connector Name BCM (BODY CONTROL MODULE) Connector Color BLACK	Signal Name BAT_POWER_F/L	L
MONIT	RE TO WIF	96 86 76 66 56 46 36 176 176 186 26 26 26 26 26 26 26 2 26 26 2 26 2	44G 33G 32G 31G 30G 29G 28G 27G 19G/15 41G 40G 39G 38G 37G 38G 35G 50G 49G 48G 47G 46G 45G 44G 43G 42G	120   170   150		M16 BCM (BOD' MODULE) BLACK		M
SSURE	Connector No. M1 Connector Name WIRE TO WIRE Connector Color WHITE	9G 8 17G 16G 11	34G 33G 32 41G 4 50G 49G 44	586 57 636 626 61. 726 71. 806 796 78.	al No. Wire Wire W/B	Connector No. No. Connector Name E Connector Color E	al No. Wire	N
E PRE	Connector No. Connector Nam Connector Colc	H.S.			Terminal No. 82G	Connec	H.S. Terminal No.	0
H							ABEIA0094GB	Р



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

			ø		
onnector Name TIRE PRESSURE RECEIVER	ПЕ	2 3 4	Signal Name	GND	IVINOIO
= = = = =	olor WHITE		Color of Wire	Ь	0/0
onnector Na	onnector Color	H.S.	erminal No.	1	Ċ





Color of Signal Nar Wire P CAN-L CAN-H
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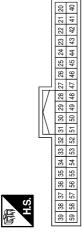


F	H.S.

Color of Wire	Ь	0/5	M/A
Terminal No.	-	2	4

POWER

Connector No. M18 Connector Name BCM (BODY CONTROL MODULE) Connector Color GREEN		
--	--	--



of 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	Ф	W/V	G/O	≯
Terminal No. Wire	31	45	46	47	25

Connector No.	M62
Connector Name	Connector Name TIRE PRESSURE WARNING CHECK CONNECTOR
Connector Color WHITE	WHITE





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**SEDAN** 

66G 67G 68G 69G 70G 71G 72G 64G 65G 73G 74G 75G 76G 77G 78G 79G 80G

83G

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Signal Name

Terminal No. Wire

ГG

82G

55G 56G 57G 58G 51G 52G 53G 54G 59G 60G 61G 62G 63G

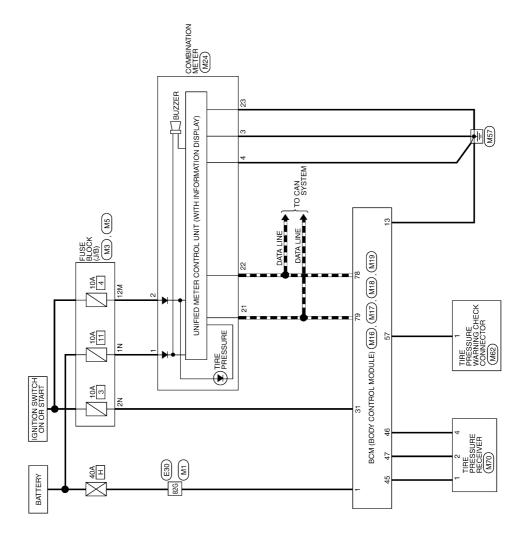
20G 21G 22G 23G 24G 25G 26G 19G 27G 28G 29G 30G 31G 32G 33G

35G 36G 37G 38G 39G 40G 41G 42G 43G 44G 45G 46G 47G 48G 49G 50G

Connector Name | WIRE TO WIRE

Connector No.

Connector Color WHITE



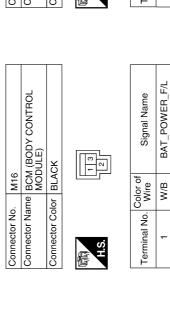
TIRE PRESSURE MONITORING SYSTEM - SEDAN

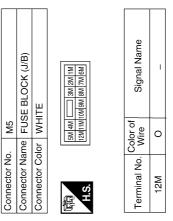
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# TIRE PRESSURE MONITORING SYSTEM CONNECTORS - SEDAN

Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	Signal Name	
me FUSE	Color of Wire G	
Connector No. M3 Connector Name FUSE B Connector Color WHITE	minal No.	
0 0 0		
Signal Name		
Solor of Wire		
Terminal No. Color of Wire 82G W/B		
Ter		
Connector No. M1 Connector Name WIRE TO WIRE Connector Color WHITE	96 86 76 66 56 46 36  176 186 156 146 136 116 106 26 16  286 286 246 236 236 236 236 236 236 236 236 236 23	

<u> </u>						
M17		A (BODY CONTROL DULE)	ІТЕ	7   8 9 10 14 15 16 17 18 19	Signal Name	LQND1
Connector No Connector Co Connector Co Connector Co The Connector Co The Connector Na The C	. M17	me BCN MOI	lor WH	11 12 13	Color of Wire	В
	Connector No	Connector Na	Connector Co	原 H.S.	Terminal No.	13





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WT-51 Revision: September 2009 2010 Altima Α

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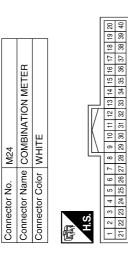
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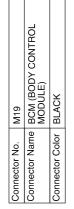
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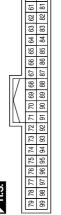
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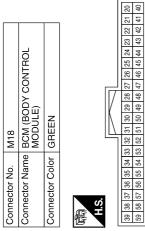
Signal Name	BATT	IGN	GND (POWER)	GND (ILL)	CAN-H	CAN-L	GND (CIRCUIT)
Color of Wire	M/L	0	В	В	٦	Ь	В
Terminal No.	-	2	3	4	21	22	23





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Signal Nam	CAN-L	CAN-H
Color of Wire	Ь	٦
Terminal No.	78	62
Termir	7	7



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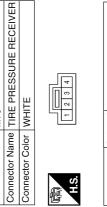
Signal Name	IGN F/B	GND RF2 A/L	A/L SENS KEYLESS TUNER POWER SUPPLY	KEYLESS TUNER SI	TPMS MODE TRIGGER SW
Color of Wire	ŋ	Ь	W/N	G/O	W
Terminal No. Wire	31	45	46	47	57



M70

Connector No.

Connector No.





LOW\_TIRE

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Connector Name TIRE PI CHECK	me TIRE CHE	TIRE PRESSURE WARNING CHECK CONNECTOR WHITE
H.S. Terminal No.	Color of Wire	Signal Name

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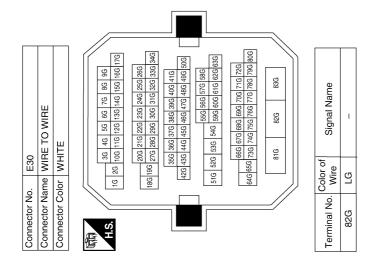
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#### **TPMS**

# SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS

# **TPMS**

Symptom Table INFOID:0000000005434642

Symptom	Reference		
Low tire pressure warning lamp does not come on when ignition switch is turned ON.	<u>WT-55</u>		
Low tire pressure warning lamp stays on when ignition switch is turned ON.			
Low tire pressure warning lamp flashes when ignition switch is turned ON.			
Hazard warning lamps flash when ignition switch is turned ON.			
ID registration cannot be completed.	<u>WT-59</u>		

#### LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

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# < 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 INFOID:0000000005434643 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? >> Malfunction in CAN communication system. YES Refer to LAN-26, "CAN System Specification Chart". >> GO TO 2 NO 2.CHECK COMBINATION METER Check combination meter operation. Refer to MWI-42, "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? >> Replace BCM. Refer to BCS-96, "Removal and Installation". YES >> Check combination meter operation. NO

Revision: September 2009 WT-55 2010 Altima

#### LOW TIRE PRESSURE WARNING LAMP STAYS ON

#### < SYMPTOM DIAGNOSIS >

#### LOW TIRE PRESSURE WARNING LAMP STAYS ON

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

NFOID:0000000005434644

#### 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 BCM POWER SUPPLY AND GROUND CIRCUITS

Check BCM power supply and ground circuits. Refer to BCS-42, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

NO >> Repair BCM circuits.

#### 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

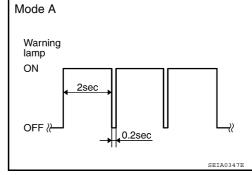
INFOID:0000000005434645

Regarding Wiring Diagram information, refer to <u>WT-46, "COUPE : Wiring Diagram"</u> or <u>WT-50, "SEDAN : Wiring Diagram"</u>.

#### 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 <u>WT-5</u>, "<u>Transmitter Wake Up Operation</u>".



#### 1. CHECK BCM CONNECTORS

- 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

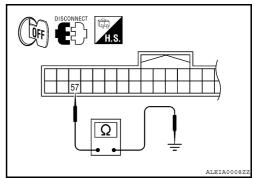
Check continuity between BCM harness connector M18 terminal 57 and ground.

#### Continuity should not exist.

#### Is the Inspection result normal?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

NO >> Repair circuit for short to ground.



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#### HAZARD WARNING LAMPS FLASH

#### < SYMPTOM DIAGNOSIS >

#### HAZARD WARNING LAMPS FLASH

Hazard Warning Lamps Flash When Ignition Switch Is Turned On

INFOID:0000000005434646

#### DIAGNOSTIC PROCEDURE

1. CHECK BCM GROUND CIRCUIT

Check BCM ground circuit. Refer to BCS-42, "Diagnosis Procedure".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-96, "Removal and Installation".

NO >> Repair BCM ground circuit.

#### ID REGISTRATION CANNOT BE COMPLETED

#### < SYMPTOM DIAGNOSIS >

>> Inspection End.

>> GO TO WT-14, "Diagnosis Procedure".

YES

NO

# ID REGISTRATION CANNOT BE COMPLETED ID Registration Cannot Be Completed 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?

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#### NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

# NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

#### **NVH Troubleshooting Chart**

INFOID:0000000005434648

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

Reference	page		<u>WT-63</u>	<u>WT-63</u>	<u>WT-63</u>	<u>69-LW</u>	<u>WT-63</u>	I	I	69-TW	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-4, "NVH Troubleshooting Chart"
Possible ca PARTS	ause and S	SUSPECTED	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 quality ride or handling	×	×	×			×			×	×	×				

<sup>×:</sup> Applicable

#### **PRECAUTIONS**

#### < PRECAUTION >

#### **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.

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#### **PREPARATION**

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# **PREPARATION**

#### **PREPARATION**

### Special Service Tool

INFOID:0000000005434652

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**

INFOID:0000000005434653

Tool name		Description
Power tool		Loosening bolts and nuts
	PBIC0190E	

## **ON-VEHICLE MAINTENANCE**

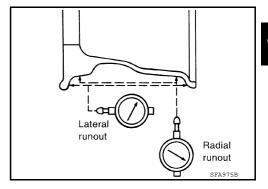
#### **ROAD WHEEL**

Inspection INFOID:0000000005434654

#### **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.
- 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-69.



#### STEEL WHEEL

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

Radial runout = (A+B)/2 Lateral runout = (C+D)/2

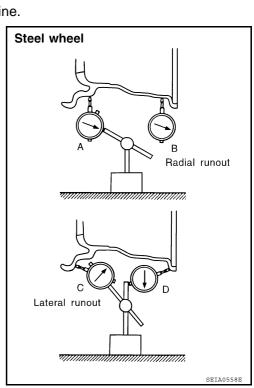
 Select maximum positive runout value and the maximum negative value.

Add the two values to determine total runout.

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

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

Wheel runout : Refer to WT-69.



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#### TIRE PRESSURE RECEIVER

#### < ON-VEHICLE REPAIR >

# **ON-VEHICLE REPAIR**

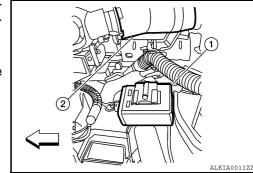
#### TIRE PRESSURE RECEIVER

#### Removal and Installation

#### INFOID:0000000005434655

#### **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 (2) and disconnect tire pressure receiver electrical connector.
  - Front
- 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.

#### ROAD WHEEL TIRE ASSEMBLY

Adjustment INFOID:0000000005786173

#### 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:**

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

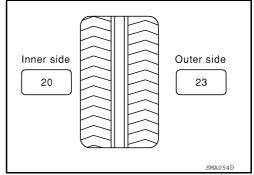
3. Install balance weight in the position shown.

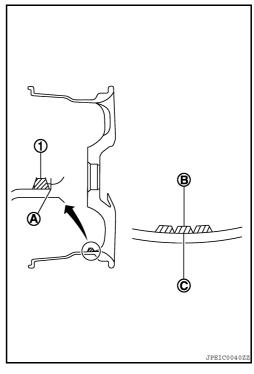
#### **CAUTION:**

- 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.





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#### **ROAD WHEEL TIRE ASSEMBLY**

#### < ON-VEHICLE REPAIR >

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

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-69	, "Road Wheel".			

#### TIRE ROTATION

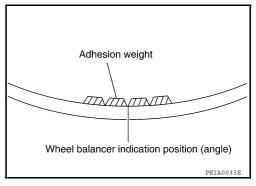
- Follow the maintenance schedule for tire rotation service intervals.
   Refer to MA-5, "FOR NORTH AMERICA: Explanation of General Maintenance".
- When installing the wheel, tighten wheel nuts to the specified torque.

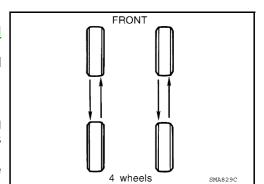
#### **CAUTION:**

- 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.

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

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





# **REMOVAL AND INSTALLATION**

#### **TRANSMITTER**

#### Removal and Installation

#### INFOID:0000000005434657

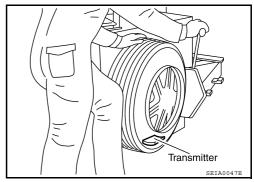
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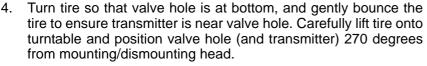
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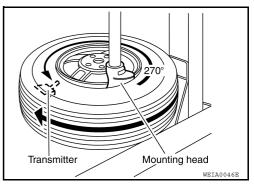
#### **REMOVAL**

- 1. Remove wheel and tire using power tool.
- 2. Deflate tire. Unscrew transmitter retaining nut and allow transmitter to fall into tire.
- 3. 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.



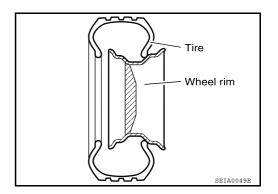


- 5. Lubricate tire well, and remove top side of tire. Reach inside the tire and remove the transmitter.
- Remove the second side of the tire as normal.



#### INSTALLATION

1. Place first side of tire onto rim.



Apply suitable silicone lubricant to new transmitter seal then install seal on transmitter. Refer to MA-15.
 "FOR USA AND CANADA: Fluids and Lubricants".

**WT-67** 

#### NOTE:

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Always replace the seal after every disassembly.

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2010 Altima

#### **TRANSMITTER**

#### < REMOVAL AND INSTALLATION >

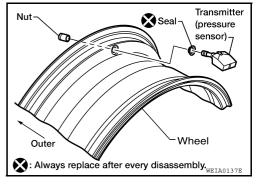
3. Mount transmitter on rim and tighten nut at a maximum speed of 10 rpm.

#### 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:

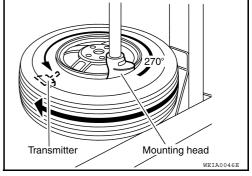
Do not touch transmitter with mounting head.

- 5. Lubricate tire well, and install second side of tire as normal. Ensure that tire does not rotate relative to rim.
- 6. Inflate tire and balance the wheel and tire assembly. Refer to WT-65, "Adjustment".
- 7. Install wheel and tire assembly in appropriate wheel position on vehicle. Refer to <u>WT-65</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 <a href="BRC-66">BRC-66</a>, "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION: Special Repair Requirement".



#### **SERVICE DATA AND SPECIFICATIONS (SDS)**

< SERVICE DATA AND SPECIFICATIONS (SDS)

# SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Road Wheel

Standard item		Allowable value						
Standard Item		Aluminum Steel						
Maximum radial	Lateral deflection	Less than 0.3 mm (0.012 in)	Less than 1.5 mm (0.059 in)					
runout limit	Radial deflection	Less than 0.3 mm (0.012 in)	Less than 1.5 mm (0.059 in)					
Maximum allowable	Dynamic (At rim flange)	Less than 5 g (0	18 oz) (one side)					
unbalance	Static (At rim flange)	Less than 10 g (0.35 oz)						

Tire (NFOID:0000000005796917

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

Tire size	Air pressure					
Tire Size	Front tire	Rear tire				
P215/60R16	220 (2.2, 32)	220 (2.2, 32)				
P215/55R17	230 (2.3, 33)	230 (2.3, 33)				
P235/45R18	230 (2.3, 33)	230 (2.3, 33)				
T135/70R16	420 (4.2, 60)	420 (4.2, 60)				
T135/90D16	420 (4.2, 60)	420 (4.2, 60)				

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