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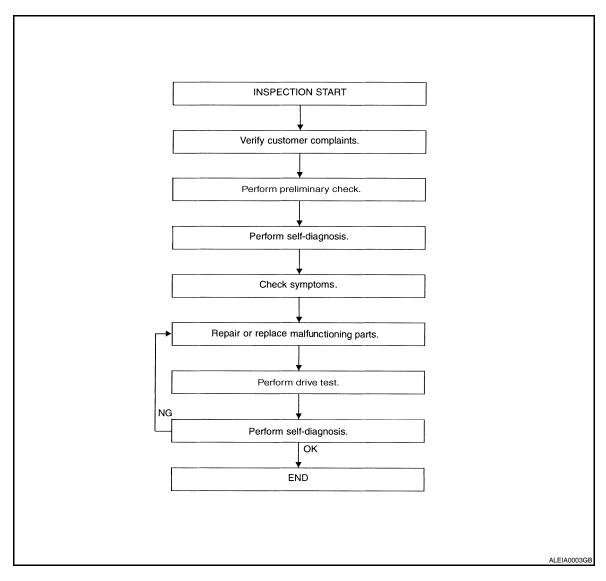
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Repair Work Flow

WORK FLOW



WT-5, "Preliminary Check"

WT-48, "Self-Diagnosis (With CONSULT-III)" WT-49, "Self-Diagnosis (Without CONSULT-III)"

WT-51, "Symptom Table"

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INFOID:0000000004212485

DETAILED FLOW

1. CUSTOMER INFORMATION

Interview the customer to obtain detailed information about the symptom.

>> GO TO 2

2. PRELIMINARY CHECK

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

>> GO TO 3

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

3.self-diagnosis

Perform SELF-DIAGNOSIS. Refer to <u>WT-49</u>, "Self-Diagnosis (Without CONSULT-III)" or <u>WT-49</u>, "Self-Diagnosis (Without CONSULT-III)".

>> GO TO 4

4.SYMPTOM

Check for symptoms. Refer to WT-51, "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-48</u>, "Self-Diagnosis (With CONSULT-III)" or <u>WT-49</u>, "Self-Diagnosis (Without CONSULT-III)".

Are any DTC's displayed?

YES >> GO TO 5

NO >> Inspection End

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

Preliminary Check

INFOID:0000000004212486

1. TIRE PRESSURE

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Check all tire pressures. Refer to WT-66, "Tire".

Do tire pressures match specification?

YES >> GO TO 2.

NO >> Adjust tire pressures 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

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>> Proceed TO <u>WT-52</u>, "Low Tire Pressure Warning Lamp Does Not Come On When Ignition Switch <u>Is Turned On"</u>.

3.BCM CONNECTOR

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

Are BCM connectors damaged or loose?

YES >> Repair or replace damaged parts.

NO >> GO TO 4.

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4. TRANSMITTER ACTIVATION TOOL

Check battery in transmitter activation tool.

Is transmitter activation tool battery fully charged?

YES >> Perform self-diagnosis. Refer to WT-48, "Self-Diagnosis (With CONSULT-III)".

NO >> Replace battery in transmitter activation tool.

INFOID:0000000004212487

Transmitter Wake Up Operation

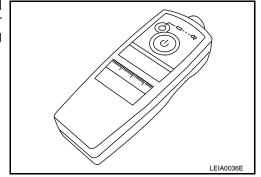
NOTE:

ittor or BCM

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)



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

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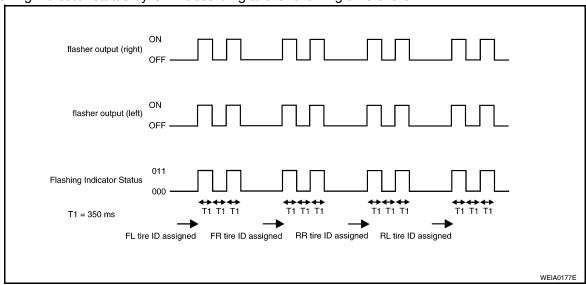
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INSPECTION AND ADJUSTMENT

< 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:0000000004212488

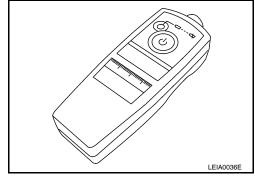
ID REGISTRATION WITH TRANSMITTER ACTIVATION TOOL

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)



 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 times hashing	"DONE"
4	Rear LH		

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

NOTE:

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

ID REGISTRATION WITHOUT TRANSMITTER ACTIVATION TOOL

NOTE:

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

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

- 1. 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	

Inflate all tires to proper pressure. Refer to <u>WT-66, "Tire"</u>.

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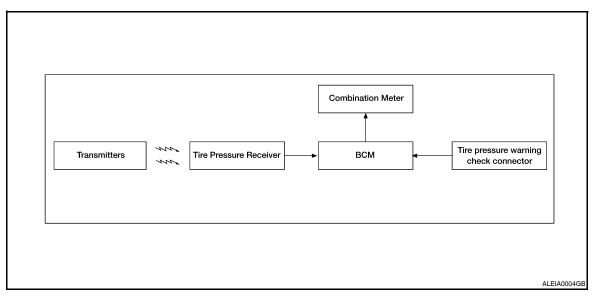
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FUNCTION DIAGNOSIS

TPMS

System Diagram

INFOID:0000000004212489



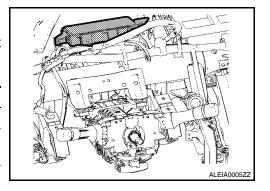
System Description

INFOID:0000000004212490

BODY CONTROL MODULE (BCM)

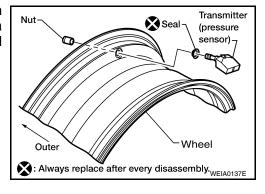
The BCM is shown with the instrument panel LH removed. The BCM reads the air pressure signal received by the tire pressure receiver, and controls the low tire pressure warning lamp as shown below. It also has a self-diagnosis function to detect a system malfunction.

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



TRANSMITTER

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



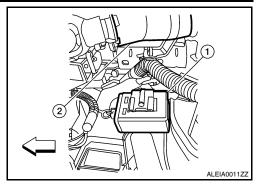
TIRE PRESSURE RECEIVER

TPMS

< FUNCTION DIAGNOSIS >

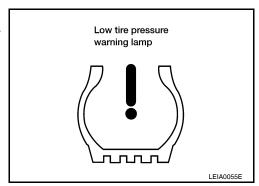
The tire pressure receiver (1) is located next to the steering column assembly (2) and is shown with the lower instrument panel LH removed. The tire pressure receiver receives the air pressure signal transmitted by the transmitter in each wheel.

∀ Vehicle front.



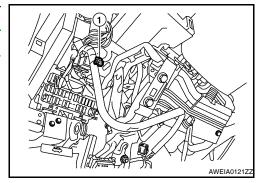
COMBINATION METER

The combination meter receives tire pressure status from the BCM using CAN communication. When a low tire pressure condition is sensed by the BCM, the low tire pressure warning lamp is activated.



TIRE PRESSURE WARNING CHECK CONNECTOR

The tire pressure warning check connector can be grounded in order to initiate self-diagnosis without a CONSULT-III. Refer to <u>WT-12</u>, <u>"Self-Diagnosis (Without CONSULT-III)"</u>. The tire pressure warning check connector (1) is located behind the lower portion of the instrument panel LH, above the hood release handle.



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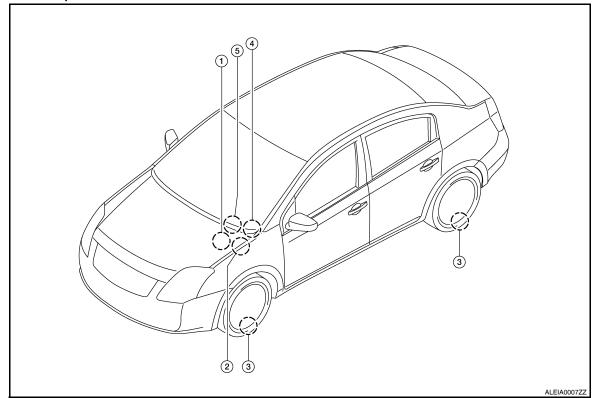
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System Components

INFOID:0000000004212491



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

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

CONSULT-III Function (BCM)

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CONSULT-III DIAGNOSTIC MODES

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

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

DESCRIPTION

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

FUNCTION

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

CONSULT-III Application to Tire Pressure Monitoring System

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

^{× :} Applicable

- : Not applicable

Data Monitor Mode

MONITOR	CONDITION	SPECIFICATION	
VHCL SPEED	Drive vehicle.	Vehicle speed (km/h or MPH)	0
AIR PRESS FL AIR PRESS FR AIR PRESS RR AIR PRESS RL	Drive vehicle for a few minutes. or Ignition switch ON and activation tool is transmitting activation signals.	Tire pressure (kPa or psi)	P

WT-11

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

MONITOR	CONDITION	SPECIFICATION
ID REGST FL1 ID REGST FR1 ID REGST RR1 ID REGST RL1		ID not registered: YET ID registered: DONE
WARNING LAMP	Ignition switch ON	Low tire pressure warning lamp on: ON Low tire pressure warning lamp off: OFF
BUZZER		Buzzer in combination meter on: ON Buzzer in combination meter off: OFF

NOTE:

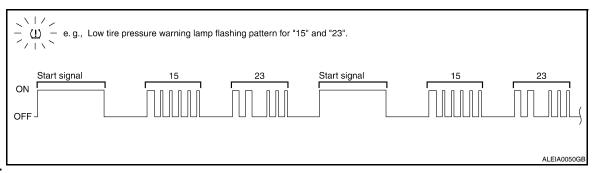
Before performing the self-diagnosis, be sure to register the ID, or the actual malfunction location may be different from that displayed on CONSULT-III.

Self-Diagnosis (Without CONSULT-III)

INFOID:0000000004212493

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.



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>

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

Flash Code	Malfunction part	Reference page
45 46 47 48	Transmitter battery voltage low (FL) Transmitter battery voltage low (FR) Transmitter battery voltage low (RR) Transmitter battery voltage low (RL)	<u>WT-16</u>
52	Vehicle speed signal	<u>WT-19</u>
53	TPMS malfunction in BCM	<u>WT-20</u>

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C1708 - C1711 DATA FROM TRANSMITTER NOT BEING RECEIVED

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

C1708 - C1711 DATA FROM TRANSMITTER NOT BEING RECEIVED

Description INFOID:0000000004212494

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.ID REGISTRATION AND VEHICLE DRIVING

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

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

YES >> Inspection End.

NO >> Refer to WT-14, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004212496

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

1.CHECK BCM

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

Are all tire pressures displayed as 0 kPa?

YES >> GO TO 2

NO >> GO TO 3

2.check tire pressure receiver connector

Check tire pressure receiver connector for damage or loose connection.

Is tire pressure receiver connector damaged or loose?

YES >> Repair or replace tire pressure receiver connector.

NO >> Replace BCM, then GO TO 3. Refer to BCS-87, "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-64, "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.
- 2. Check all tire pressures with CONSULT-III within 15 minutes after vehicle speed becomes 17 km/h (11 MPH).

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

YES >> Inspection End.

C1708 - C1711 DATA FROM TRANSMITTER NOT BEING RECEIVED

< COMPONENT DIAGNOSIS >

NO >> GO TO 5 5.ID REGISTRATION AND VEHICLE DRIVING Α 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? C YES >> Inspection End. >> Proceed to the inspection applicable to DTC. NO Special Repair Requirement INFOID:0000000004212497 D

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

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

< COMPONENT DIAGNOSIS >

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

Description INFOID:000000004212498

One or more transmitters are malfunctioning internally.

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. DRIVE VEHICLE

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

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

YES >> Inspection End.

NO >> Refer to WT-16, "Diagnosis Procedure".

Diagnosis Procedure

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

INFOID:0000000004212500

1.PERFORM ID REGISTRATION

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

>> GO TO 2

2. REPLACE TRANSMITTER

- 1. Check low tire pressure warning lamp again for flashing, replace malfunctioning transmitter. Refer to <u>WT-64, "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 >> Proceed TO WT-14, "Diagnosis Procedure".

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

< COMPONENT DIAGNOSIS >

3.DRIVE VEHICLE

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

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:0000000004212501

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:000000004212502

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.
- 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 <u>WT-18</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000004212504

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-66, "Tire".

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

YES >> Adjust tire pressure to specified value.

NO >> GÓ TO 2

2.ID REGISTRATION AND VEHICLE DRIVING

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

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

YES >> Replace transmitter. Refer to WT-64, "Removal and Installation". GO TO 3.

NO >> GO TO 3

3.ID REGISTRATION AND VEHICLE DRIVING

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

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

YES >> Inspection End.

NO >> Proceed to the inspection applicable to DTC.

Special Repair Requirement

INFOID:0000000004212505

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

	C1729 VEH	IICLE SPEED SIGNAL	
	T DIAGNOSIS >		
C1729 VEF	HICLE SPEED SIGNA	L	А
Description		INFOID:0000000004212506	
The vehicle spe	ed signal is not being detected	by the BCM.	В
DTC Logic		INFOID:0000000004212507	
DTC DETECT	ON LOGIC		С
DTC	CONSULT - III	DTC detecting condition	
C1729	VHCL SPEED SIG ERR	Vehicle speed signal is in error.	D
DTC CONFIRM	MATION PROCEDURE		
1.CHECK SEL	F-DIAGNOSTIC RESULTS		WT
2. Check displ Is the CAN CON YES >> Ref	T DIAG MODE, select the SELF ay contents on SELF DIAG RE MM CIRCUIT displayed in the ser to WT-19, "Diagnosis Procedure and pro	SULT screen. elf-diagnosis display?	F
NO >> Insp Diagnosis Pr	pection end.	INFOID:000000004212508	G
MALFUNCTIO	N CODE NO. 52 (DTC C172	29)	Н
1.CHECK SEL	F-DIAGNOSTIC RESULTS		
Check displ	T DIAG MODE", select the "SE ay contents on "SELF DIAG RI	ESULT" screen.	I
YES >> Per Flow	<u>w Chart"</u> .	Self-diagnosis display? I communication system. Refer to LAN-16, "Trouble Diagnosis MWI-35, "CONSULT-III Function (METER/M&A)".	J
Special Repa	air Requirement	INFOID:0000000004212509	K
Perform prelimir	nary check. Refer to <u>WT-5, "Pr</u>	eliminary Check".	
			L
			M
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C1734 CONTROL UNIT

< COMPONENT DIAGNOSIS >

C1734 CONTROL UNIT

Description INFOID:000000004212510

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:0000000004212512

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-81, "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.

$3.\mathtt{BCM}$ POWER SUPPLY AND GROUND

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

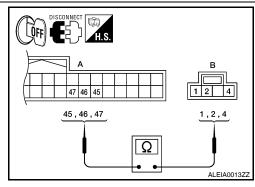
Are the power supply and grounds normal?

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"
- 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 >

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

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Does continuity exist?

YES >> GO TO 5.

NO >> Repair circuits as necessary.

5.BCM INPUT/OUTPUT SIGNALS

Check BCM input/output signals. Refer to BCS-47, "Reference Value".

Are the inputs and outputs normal?

YES >> Inspection End.

NO >> Replace BCM. Refer to BCS-87, "Removal and Installation".

Special Repair Requirement

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

WT

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INFOID:0000000004212513

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ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

VALUES ON THE DIAGNOSIS TOOL

FR WIPFR HI		1
	Other than front wiper switch HI	OFF
	Front wiper switch HI	ON
	Other than front wiper switch LO	OFF
TIX WIF LIX LOW	Front wiper switch LO	ON
	Front washer switch OFF	OFF
TIX WASHER SW	Front washer switch ON	ON
ED WIDED INT	Other than front wiper switch INT	OFF
	Front wiper switch INT	ON
	Front wiper is not in STOP position	OFF
FR WIPER STOP	Front wiper is in STOP position	ON
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDNI CICNIAL D	Other than turn signal switch RH	OFF
TURN SIGNAL R	Turn signal switch RH	ON
TUDNI CICNIAL I	Other than turn signal switch LH	OFF
TURN SIGNAL L	Turn signal switch LH	ON
FR WIPER LOW FR WASHER SW FR WIPER INT FR WIPER STOP INT VOLUME TURN SIGNAL R TURN SIGNAL L TAIL LAMP SW HI BEAM SW HEAD LAMP SW 1 HEAD LAMP SW 2 PASSING SW AUTO LIGHT SW FR FOG SW DOOR SW-DR	Other than lighting switch 1ST and 2ND	OFF
TAIL LAWP SW	Lighting switch 1ST or 2ND	ON
FR WIPER HI FR WIPER LOW FR WASHER SW FR WIPER INT FR WIPER STOP INT VOLUME TURN SIGNAL R TURN SIGNAL L TAIL LAMP SW HI BEAM SW HEAD LAMP SW 1 L HEAD LAMP SW 2 L PASSING SW AUTO LIGHT SW FR FOG SW FR FOG SW DOOR SW-DR FR DOOR SW-RS FR DOOR SW-RS FR DOOR SW-RS FR DOOR SW-RS FR FOG SW FR FOG SW FR FOG SW FR FOG SW-RS	Other than lighting switch HI	OFF
HI DEAIVI SVV	Lighting switch HI	ON
LIEAD LAMD CM 4	Other than lighting switch 2ND	OFF
HEAD LAIVIP SW 1	Lighting switch 2ND	ON
HEAD LAMP SW 2	Other than lighting switch 2ND	OFF
HEAD LAWP SW 2	Lighting switch 2ND	ON
DACCING CW	Other than lighting switch PASS	OFF
PASSING SW	Lighting switch PASS	ON
ALITO LICHT SW	Other than lighting switch AUTO	OFF
AUTO LIGHT SW	Lighting switch AUTO	ON
FR WIPER HI FR WIPER LOW FR WASHER SW FR WIPER INT FR WIPER STOP INT VOLUME TURN SIGNAL R TURN SIGNAL L TAIL LAMP SW HI BEAM SW HEAD LAMP SW 1 HEAD LAMP SW 2 PASSING SW AUTO LIGHT SW FR FOG SW DOOR SW-DR DOOR SW-AS DOOR SW-RR	Front fog lamp switch OFF	OFF
FR FOG SW	Front fog lamp switch ON	ON
DOOD SW DD	Front door LH closed	OFF
DOOR SW-DR	Front door LH opened	ON
DOOD CW AC	Front door RH closed	OFF
DOOK 244-42	Front door RH opened	ON
DOOD SW DD	Rear door RH closed	OFF
חחחגי אוי-אג	Rear door RH opened	ON
DOOR SW PI	Rear door LH closed	OFF
DOOK 9W-KL	Rear door LH opened	ON

Monitor Item	Condition	Value/Status	
DOOR SW-BK	NOTE: This item is displayed, but cannot be monitored.	OFF	
Monitor Item DOOR SW-BK CDL LOCK SW CDL UNLOCK SW KEY CYL LK-SW KEY CYL UN-SW KEY CYL SW-TR HAZARD SW REAR DEF SW FAN ON SIG AIR COND SW TR CANCEL SW TR/BD OPEN SW TRNK/HAT MNTR RKE-LOCK RKE-UNLOCK RKE-PANIC RKE-P/W OPEN	Other than power door lock switch LOCK	OFF	
ODE LOCK SW	Door lock/unlock switch LOCK	ON	
Monitor Item OOR SW-BK DL LOCK SW DL UNLOCK SW EY CYL LK-SW EY CYL UN-SW EY CYL SW-TR AZARD SW EAR DEF SW AN ON SIG IR COND SW R CANCEL SW R/BD OPEN SW RNK/HAT MNTR KE-LOCK KE-UNLOCK KE-TR/BD KE-PANIC KE-P/W OPEN KE-MODE CHG PTICAL SENSOR EQ SW-DR	Other than door lock/unlock switch UNLOCK	OFF	
	Door lock/unlock switch UNLOCK	ON	
(E) (O) (() () (O) (()	Other than front door LH key cylinder LOCK position	OFF	
KEY CYL LK-SW	Front door LH key cylinder LOCK position	ON	
	Other than front door LH key cylinder UNLOCK position	OFF	
KEY CYL UN-SW	Front door LH key cylinder UNLOCK position	ON	
KEY CYL SW-TR	NOTE: This item is displayed, but cannot be monitored.	OFF	
CDL LOCK SW CDL UNLOCK SW CEY CYL LK-SW CEY CYL UN-SW CEY CYL SW-TR HAZARD SW FAN ON SIG AIR COND SW TR CANCEL SW TR/BD OPEN SW TRNK/HAT MNTR RKE-LOCK RKE-UNLOCK RKE-TR/BD RKE-PANIC RKE-PANIC RKE-PANIC RKE-MODE CHG	When hazard switch is not pressed	OFF	
TALAKU SW	When hazard switch is pressed	ON	
REAR DEF SW	When rear window defogger switch is pressed	ON	
FAN ON SIG	When AUTO switch or fan switch is pressed	ON	
·		ON	
	Trunk lid opener cancel switch OFF	OFF	
IR CANCEL SW	Trunk lid opener cancel switch ON	ON	
REAR DEF SW FAN ON SIG AIR COND SW FR CANCEL SW FR/BD OPEN SW FRNK/HAT MNTR RKE-LOCK RKE-UNLOCK	Trunk lid opener switch OFF	OFF	
	While the trunk lid opener switch is turned ON	ON	
	Trunk lid closed	OFF	
TRNK/HAT MNTR	Trunk lid opened	ON	
	When LOCK button of Intelligent Key is not pressed	OFF	
RKE-LOCK	When LOCK button of Intelligent Key is pressed	ON	
	When UNLOCK button of Intelligent Key is not pressed	OFF	
KEY CYL UN-SW KEY CYL SW-TR HAZARD SW REAR DEF SW FAN ON SIG AIR COND SW TR CANCEL SW TR/BD OPEN SW TRNK/HAT MNTR RKE-LOCK RKE-UNLOCK RKE-TR/BD RKE-PANIC RKE-PANIC	When UNLOCK button of Intelligent Key is pressed	ON	
CDL LOCK SW CDL UNLOCK SW KEY CYL LK-SW KEY CYL UN-SW KEY CYL SW-TR HAZARD SW FAN ON SIG AIR COND SW TR CANCEL SW TR/BD OPEN SW TRNK/HAT MNTR RKE-LOCK RKE-UNLOCK RKE-TR/BD RKE-PANIC RKE-PANIC RKE-PW OPEN RKE-MODE CHG DPTICAL SENSOR REQ SW-AS	When TRUNK OPEN button of Intelligent Key is not pressed	OFF	
	When TRUNK OPEN button of Intelligent Key is pressed	ON	
	When PANIC button of Intelligent Key is not pressed	OFF	
RKE-PANIC	When PANIC button of Intelligent Key is pressed	ON	
	When UNLOCK button of Intelligent Key is not pressed and held	OFF	
RKE-P/W OPEN	When UNLOCK button of Intelligent Key is pressed and held	ON	
	When LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	OFF	
RKE-MODE CHG	When LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	ON	
ODTICAL SENSOR	When outside of the vehicle is bright	Close to 5 V	
JETICAL SENSUK	When outside of the vehicle is dark	Close to 0 V	
DEO CW DD	When front door LH request switch is not pressed	OFF	
KEQ SW-DR	When front door LH request switch is pressed	ON	
250 014/ 40	When front door RH request switch is not pressed	OFF	
REQ SW-AS	When front door RH request switch is pressed	ON	
	When trunk request switch is not pressed	OFF	
≺EQ SW-BD/TR	When trunk request switch is pressed ON		

Monitor Item	Condition	Value/Status
DUCH CW	Condition When push-button ignition switch is not pressed When push-button ignition switch is pressed Ignition switch OFF or ACC Ignition switch OFF Ignition switch ACC or ON When the brake pedal is not depressed When selector lever is in P position When selector lever is in any position other than P or N When selector lever is in P or N position Electronic steering column lock LOCK status Electronic steering column lock UNLOCK status Electronic steering column lock LOCK status Electronic steering column lock LOCK status Electronic steering column lock unlock status Electronic steering column lock unlock status Electronic steering column lock LOCK status Ignition switch OFF or ACC Ignition switch ON Front door LH UNLOCK status When push-button ignition switch is not pressed (IPDM E/R sends via CAN) When push-button ignition switch is pressed (IPDM E/R sends via CAN) Ignition switch OFF or ACC Ignition switch ON When selector lever is in P position (IPDM E/R sends via CAN) When selector lever is in any position other than P or N (IPDM E/R sends via CAN) When selector lever is in any position other than P or N (IPDM E/R sends via CAN) When selector lever is in any position other than P or N (IPDM E/R sends via CAN) When selector lever is in any position other than P (combination meter sends via CAN) When selector lever is in any position other than P (combination meter sends via CAN) When selector lever is in any position other than P (combination meter sends via CAN)	OFF
P05H 5W	When push-button ignition switch is pressed	ON
ICN DIV E/D	Ignition switch OFF or ACC	OFF
IGN KLT -F/D	Ignition switch ON	ON
ACC DIV E/R	When push-button ignition switch is not pressed When push-button ignition switch is pressed Ugnition switch OFF or ACC Ignition switch OFF Ignition switch OFF Ignition switch ACC or ON When the brake pedal is not depressed When the brake pedal is otheressed When selector lever is in any position other than P When selector lever is in any position other than P or N When selector lever is in any position Electronic steering column lock LOCK status Electronic steering column lock UNLOCK status Electronic steering column lock UNLOCK status Electronic steering column lock UNLOCK status Electronic steering column lock LOCK status Electronic steering column lock UNLOCK status Electronic steering column lock UNLOCK status Front door LH UNLOCK status Front door LH UNLOCK status When push-button ignition switch is not pressed (IPDM E/R sends via CAN) When push-button ignition switch is pressed (IPDM E/R sends via CAN) Ignition switch OFF or ACC Ignition switch OFF or ACC Ignition switch ON When selector lever is in P position (IPDM E/R sends via CAN) When selector lever is in any position other than P or N (IPDM E/R sends via CAN) When selector lever is in any position other than P (IPDM E/R sends via CAN) When selector lever is in any position other than P (Combination meter sends via CAN) When selector lever is in any position other than P (Combination meter sends via CAN) When selector lever is in any position other than N (combination meter sends via CAN) When selector lever is in any position other than N (combination meter sends via CAN) When selector lever is in N position (combination meter sends via CAN) Electronic steering column lock LOCK status (IPDM E/R sends via CAN) Electronic steering column lock LOCK status (IPDM E/R sends via CAN) Electronic steering column lock LOCK status (IPDM E/R sends via CAN) Electronic steering column lock LOCK status (IPDM E/R sends via CAN) Electronic steering column lock LOCK status (IPDM E/R sends via CAN)	OFF
ACCINET -17B	Ignition switch ACC or ON	ON
BRAKE SW 1	When the brake pedal is not depressed	ON
	When the brake pedal is depressed	OFF
DETE/CANCL SW	When selector lever is in P position	OFF
DETE/O/MOE OW	When selector lever is in any position other than P	ON
SET PN/N SW	When selector lever is in any position other than P or N	OFF
	When selector lever is in P or N position	ON
S/L -L OCK	Electronic steering column lock LOCK status	OFF
3/L -LOOK	Electronic steering column lock UNLOCK status	ON
S/L -LINI OCK	When push-button ignition switch is not pressed When push-button ignition switch is pressed Ignition switch OFF or ACC Ignition switch OFF Ignition switch OFF Ignition switch ACC or ON When the brake pedal is not depressed When the brake pedal is depressed When selector lever is in any position other than P When selector lever is in any position other than P or N When selector lever is in any position other than P or N When selector lever is in any position other than P or N When selector lever is in P or N position Electronic steering column lock UNLOCK status Electronic steering column lock UNLOCK status Electronic steering column lock UNLOCK status Electronic steering column lock LOCK status Ignition switch OFF or ACC Ignition switch ON Front door LH UNLOCK status Front door LH UNLOCK status When push-button ignition switch is not pressed (IPDM E/R send via CAN) When push-button ignition switch is pressed (IPDM E/R sends via CAN) Under the selector lever is in P position (IPDM E/R sends via CAN) When selector lever is in any position other than P (IPDM E/R sends via CAN) When selector lever is in any position other than P or N (IPDM E sends via CAN) When selector lever is in any position other than P (combination meter sends via CAN) When selector lever is in any position other than P (combination meter sends via CAN) When selector lever is in any position other than N (combination meter sends via CAN) When selector lever is in ny position (combination meter sends via CAN) When selector lever is in ny position (combination meter sends via CAN) When selector lever is in ny position (combination meter sends via CAN) When selector lever is in ny position other than N (combination meter sends via CAN) When selector lever is in N position (combination meter sends via CAN) Elegine stopped While the engine stalls At engine cranking Engine running Electronic steering column lock LOCK status (IPDM E/R sends vCAN) Electronic steering column lock UNLOCK status (IPDM E/R sends vCAN	OFF
3/L -ONLOCK	Electronic steering column lock LOCK status	ON
S/I DELAV-E/R	Ignition switch OFF or ACC	OFF
O/L IXLLAT-17D	Ignition switch ON	ON
PUSH SW IGN RLY -F/B ACC RLY -F/B BRAKE SW 1 DETE/CANCL SW SFT PN/N SW S/L -LOCK S/L -UNLOCK S/L -UNLOCK DUSH SW -IPDM IGN RLY1 F/B DETE SW -IPDM	Front door LH UNLOCK status	OFF
ONLIN OLIN DIN	Front door LH LOCK status	ON
PUSH SW -IPDM		OFF
1 0011 0W -11 DW		ON
ICN DI V1 E/D	Ignition switch OFF or ACC	OFF
IGN KLT I F/B	Ignition switch ON	ON
	When selector lever is in P position (IPDM E/R sends via CAN)	OFF
DETE SW -IPDM		ON
SFT PN -IPDM		OFF
	When selector lever is in P or N position (IPDM E/R sends via CAN)	ON
CET D. MET		OFF
SFIP-WEI	, ,	ON
OFT N. MET		OFF
SFIN-MEI	· · · ·	ON
	Engine stopped	STOP
ENGINE STATE	While the engine stalls	STALL
ENGINE STATE	At engine cranking	CRANK
	Engine running	RUN
S/LLOCK IDDM		OFF
S/L LOOK-IPDIVI		ON

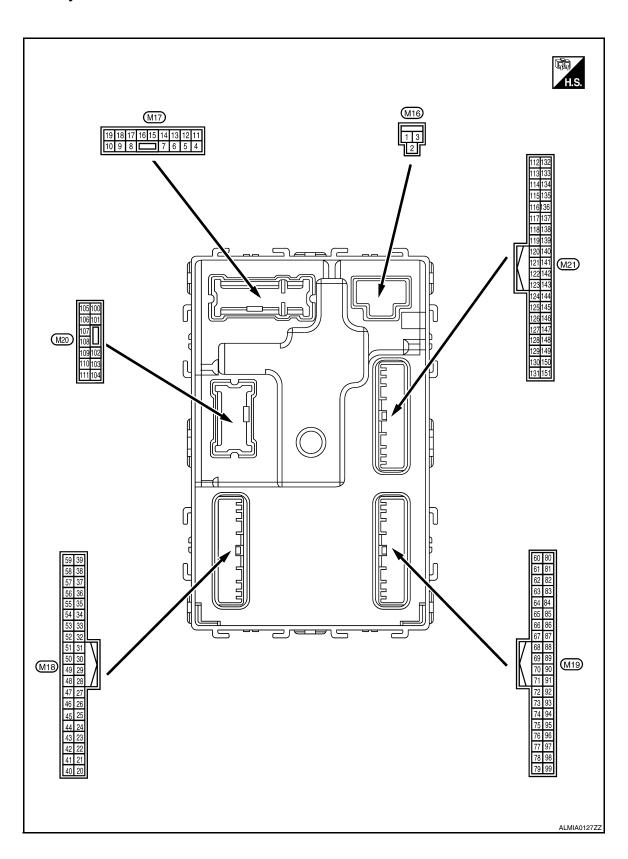
Monitor Item	Condition	Value/Status
	Electronic steering column lock UNLOCK status (IPDM E/R sends via CAN)	OFF
S/L UNLCK-IPDM	Electronic steering column lock LOCK status (IPDM E/R sends via CAN)	ON
0# PELAY PEO	Ignition switch OFF or ACC	OFF
S/L RELAY-REQ	Ignition switch ON	ON
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
	Front door LH LOCK status	LOCK
DR DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY
	Front door LH UNLOCK status	UNLK
	Front door RH LOCK status	LOCK
AS DOOR STATE	Wait with selective UNLOCK operation (5 seconds)	READY
	Front door RH UNLOCK status	UNLK
S/L UNLCK-IPDM S/L RELAY-REQ VEH SPEED 1 VEH SPEED 2 DR DOOR STATE AS DOOR STATE ID OK FLAG PRMT ENG STAT PRMT RKE STAT KEY SW -SLOT RKE OPE COUN1 RKE OPE COUN2 AIR PRESS FL AIR PRESS RR	Ignition switch ACC or ON	RESET
	Ignition switch OFF	SET
DDMT FNO OT:T	When the hybrid system start is prohibited	RESET
PRMT ENG STAT	When the hybrid system start is permitted	SET
PRMT RKE STAT	NOTE: This item is displayed, but cannot be monitored.	RESET
1/E)/ 0)// 0) 0.T	When Intelligent Key is not inserted into key slot	OFF
KEY SW -SLUT	When Intelligent Key is inserted into key slot	ON
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored.	Operation frequency of Intelligent Key
AIR PRESS FL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	When ID of front LH tire transmitter is registered (refer to WT-6, "ID Registration Procedure")	DONE
	When ID of front LH tire transmitter is not registered (refer to WT-6. "ID Registration Procedure")	YET
ID REGST FR1	When ID of front RH tire transmitter is registered (refer to WT-6, "ID Registration Procedure")	DONE
	When ID of front RH tire transmitter is not registered (refer to WT-6, "ID Registration Procedure")	YET
ID REGST RR1	When ID of rear RH tire transmitter is registered (refer to <u>WT-6, "ID Registration Procedure"</u>)	DONE
	When ID of rear RH tire transmitter is not registered (refer to WT-6. "ID Registration Procedure")	YET
ID REGST RI 1	When ID of rear LH tire transmitter is registered (refer to WT-6, "ID Registration Procedure")	DONE
D REGOT RET	When ID of rear LH tire transmitter is not registered (refer to WT-6, "ID Registration Procedure")	YET

< ECU DIAGNOSIS >

Monitor Item	Condition	Value/Status
WARNING LAMP	Tire pressure indicator OFF	OFF
	Tire pressure indicator ON	ON

Terminal Layout

INFOID:0000000004499292



Physical Values

INFOID:0000000004499293

Α

	inal No.	Description				Value	E
(Wire	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
1 (W/B)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage	(
2 (R/Y)	Ground	Battery power supply output	Output	Ignition switch OF	F	Battery voltage	
3 (L/W)	Ground	Ignition power supply output	Output	Ignition switch ON	ı	Battery voltage	
4	Ground	Interior room lamp	Output	After passing the in er operation time	nterior room lamp battery sav-	0V	٧
(P/W)	Giouna	power supply	Output	Any other time after lamp battery save	er passing the interior room roperation time	Battery voltage	
5	Ground	Front door RH UN-	Output	Front door RH	UNLOCK (actuator is activated)	Battery voltage	
(G/Y)	Giouna	LOCK	Output	FIGHT GOOLKH	Other than UNLOCK (actuator is not activated)	0V	(
7	Ground	Step lamp	Output	Room lamp timer	ON	Battery voltage	
(R/W)	Ground	Step lamp	Output	Room lamp times	OFF	0V	
8	Cround	All doors LOCK	Output	put All doors	LOCK (actuator is activated)	Battery voltage	
(V)	Ground	All doors LOCK	Other than LOCK (actual is not activated)		Other than LOCK (actuator is not activated)	0V	
9	Ground	Front door LH UN-	Output	Front door LH	UNLOCK (actuator is activated)	Battery voltage	
(G)	Giouna	LOCK	Output Front door LH Other than UNLOCK (at ator is not activated)	Other than UNLOCK (actuator is not activated)	0V		
10	Ground	Rear door RH and rear door LH UN-	0 1 1	Rear door RH	UNLOCK (actuator is activated)	Battery voltage	
(G/Y)	Oround	LOCK	Output	and rear door LH	Other than UNLOCK (actuator is not activated)	0V	
11 (Y/R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage	
13 (B)	Ground	Ground	_	Ignition switch ON		0V	
14 (R/Y)	Ground	Push-button ignition switch illumination ground	Input	Tail lamp	OFF	NOTE: When the illumination brightening/dimming level is in the neutral position (V) 10 2 ms JSNIA0010GB	
15			_		OFF	Battery voltage	
(Y/L)	Ground	ACC indicator lamp	Output	Ignition switch	n switch ACC	0V	

	inal No.	Description				Value	
(Wire	e color) (-)	Signal name	Input/ Output	Condition		(Approx.)	
(')	(-)		Culput		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 1 s PKID0926E 6.5V	
					Turn signal switch OFF	0V	
18 (G/O)	Ground	Turn signal (LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5V	
19		Room lamp timer		Interior room	Lamps fully OFF	Battery voltage	
(Y)	Ground	control	Output	lamp	Lamps fully ON	0V	
21		0 11 1		Ignition switch	When outside of the vehi- cle is bright	Close to 5V	
(P/B)	Ground	Optical sensor signal	Input	ŎN	When outside of the vehi- cle is dark	Close to 0V	
24 (R/W)	Ground	Stop lamp switch 1	Input		_	Battery voltage	
26	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (brake pedal is not depressed)	0V	
(O/L)	Oround	Otop lamp Switch 2	прис	Otop lamp switch	ON (brake pedal is depressed)	Battery voltage	
27 (G/W)	Ground	Front door lock assembly LH (unlock sensor)	Input	Front door LH	LOCK status	(V) 15 10 5 0 10 ms JPMIA0011GB	
					UNLOCK status	0V	
29	Ground	Key slot switch	Input	When Intelligent K	ey is inserted into key slot	Battery voltage	
(Y)	Cround	NOY SICE SWILLIE	трис	When Intelligent K	ey is not inserted into key slot	0V	
30	Ground	ACC feedback signal	Input	Ignition switch	OFF	0	
(V/Y)	2.300	5 - 12 2 2 2 2 2 3 2 3 3 3 1 di			ACC or ON	Battery voltage	
31 (G)	Ground	Ignition relay-2 feed- back signal	Input	Ignition switch	OFF	0V	
(G)		DACK SIGNAL			ON	Battery voltage	

	inal No.	Description			0 1111	Value	
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	
32 (R/B)	Ground	Front door RH switch	Input	Front door RH switch	OFF (when front door RH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (when front door RH opens)	0V	
33	0	Compressor ON sig-	11	A/O = '1-1-	OFF	Battery voltage	
(SB)	Ground	nal	Input	A/C switch	ON	0V	
34*		Front door lock as-		Front door lock	OFF (neutral)	Battery voltage	
(L/R)	Ground	sembly LH (key cylin- der switch) (unlock)	Input	assembly LH (key cylinder switch)	ON (unlock)	0V	
36*			_	Door lock/unlock	Lock	Battery Voltage	
(GR)	Ground	Lock switch signal	Input	switch	Unlock	0V	
37 (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 10 10 ms JPMIA0012GB	
					ON	0V	
38 (GR/	Ground	Rear window defog- ger ON signal	Input	Rear window de- fogger switch	OFF	Battery Voltage V	
W)					ON	0V	
39* (GR/	Ground	Unlock switch signal	Input	Door lock/unlock switch	Unlock	Battery Voltage	
R)				SWITCH	Lock	0V	
40* (Y/G)	Ground	Power window serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB	
				Ignition switch OF	F or ACC	0V	
41		Duch hutton ignition		Engine switch	ON	5.5V	
41 (W)	Ground	Push-button ignition switch illumination	Output	(push switch) illu- mination	OFF	0V	
42				LOCK indicator	ON	0V	
(R)	Ground	LOCK indicator lamp	Output	lamp	OFF	Battery voltage	
45 (P)	Ground	Receiver & sensor ground	Input	Ignition switch ON	 	0V	

	inal No. e color)	Description			Condition	Value	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	
46	Ground	Receiver & sensor	Output	Ignition switch	OFF	0V	
(V/W)	Giodila	power supply output	Output	ignition switch	ACC or ON	5.0V	
					Standby state	(V) 6 4 2 0 *** 0.2s	
47 (G/O)	Ground	Tire pressure receiver signal	Input/ Output	Ignition switch ON	When receiving the signal from the transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
48	Ground	Selector lever P/N	Input	Selector lever	P or N position	12.0V	
(R/B)	Ground	position signal	input	Selector level	Except P and N positions	OV	
					ON	0V	
49 (L/O)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB	
					OFF	Battery voltage	
					All switch OFF	0V	
		Combination switch OUTPUT 5			Lighting switch 1ST		
				Combination	Lighting switch high-beam	(V)	
50 (LG/	Ground		Output	switch	Lighting switch 2ND	10	
B)			- 5.00	(Wiper intermit- tent dial 4)	Turn signal switch RH	0 2 ms JPMIA0031GB	
						10.7V	
					All switch OFF (Wiper intermittent dial 4)	0V	
				Combination switch	Front wiper switch HI (Wiper intermittent dial 4)	(V)	
51 (L/W)	Ground	Combination switch OUTPUT 1	Output		Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	15 10 5 0 2 ms JPMIA0032GB	

	inal No.	Description				\/o!	
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	F
52 (G/B)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switch OFF (Wiper intermittent dial 4) Front washer switch ON (Wiper intermittent dial 4) Any of the conditions below with all switch OFF Wiper intermittent dial 1 Wiper intermittent dial 5 Wiper intermittent dial 6	0V (V) 15 10 5 0 2 ms JPMIA0033GB 10.7V]
					All switch OFF	0V	W
					Front wiper switch INT		
53 (LG/ R)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	Front wiper switch LO Lighting switch AUTO	(V) 15 10 5 0 2 ms JPMIA0034GB	F
					All switch OFF	0V	-
54 (G/Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	Front fog lamp switch ON Lighting switch 2ND Lighting switch flash-to- pass Turn signal switch LH	(V) 15 10 5 2 ms JPMIA0035GB 10.7V	
55				Front blower mo-	ON	Battery voltage	ŀ
(BR/ W)	Ground	Front blower monitor	Input	tor switch	OFF	0V	
56	One	Front door lock as-	المناصدا	Front door lock	OFF (neutral)	Battery voltage	
(L/B)	Ground	sembly LH (key cylin- der switch) (lock)	Input	assembly LH (key cylinder switch)	ON (lock)	0V	
57 (W)	Ground	Tire pressure warn- ing check switch	Input		_	Battery voltage	ľ
58 (SB)	Ground	Front door LH switch	Input	Front door LH switch	OFF (front door LH CLOSE) ON (front door LH OPEN)	(V) 15 10 5 0 JPMIA0011GB 11.8V	r C
						t and the second	
59	Ground	Rear window defog-	Output	Rear window de-	Active	Battery voltage	

	inal No. e color)	Description	less 11		Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
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
(B/R)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
61	Ground	Center console antenna 2 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(W/R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s JMKIA0063GB
62	Ground	Front outside handle RH antenna (-)		When the front door RH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(B/Y)			Output		When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	ninal No.	Description			• ""	Value	
(+)	re color)	Signal name	Input/ Output		Condition	(Approx.)	А
63		Front outside handle		When the front door RH request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(LG)	Ground	RH antenna (+)	Output	switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	F
64	Ground	Front outside handle LH antenna (-)	Output	When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	G H
(V)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	J K
65	0	Front outside handle LH antenna (+)	Output	When the front door LH request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 1	M
(P)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 1 1 1 1 1 1 1 1 1 1	P

	inal No.	Description				Value
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)
66	Ground	Instrument panel an-	Output	ut Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 S S S S S S S S S
(K)	(R) Ground tenna (-)	tenna (-)			When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
67	Ground	Instrument panel antenna (+)	Output	t Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(G)	Ground				When Intelligent Key is not in the passenger compartment	(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	Ground	Ignition relay-2 con-	Output	Ignition switch	OFF or ACC	0V
(R/B)		trol	4	Jac Igilillon switch	ON	Battery voltage

Terminal No. (Wire color)		Description			O a saltition	Value	
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)	Α
71			Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	B
(L/O)	Ground	Remote keyless entry receiver signal	Output	When operating either button on Intelligent Key		(V) 15 10 5 0 1 ms JMKIA0065GB	F
	Ground	Combination switch INPUT 5	Input	nput Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V	G H
75 (R/Y)					Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3V	J K
					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 JPMIA0040GB 1.3V	M

	inal No. e color)	Description				Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
			Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4V
76	Ground	Combination switch			Lighting switch high-beam (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
(R/G)	Siguria	INPUT 3			Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB
77	0	Push-button ignition	1	Engine switch	Pressed	0V
(BR)	Ground	switch	Input	(push switch)	Not pressed	Battery voltage
78 (P)	Ground	CAN-L	Input/ Output		_	_
79 (L)	Ground	CAN-H	Input/ Output		_	_
					OFF	0V
80 (R/L)	Ground	Key slot illumination Output	Key slot illumina- tion	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB	
					ON	6.5V
					UN	Battery voltage

< ECU DIAGNOSIS >

	inal No.	Description				Value		
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)		
81	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	Battery voltage		
(LG)	0.00		Carpar	.9	ON	0V		
83	Ground	ACC relay control	Output	Ignition switch	OFF	0V		
(L)	0.00	-	Сифи	ig	ACC or ON	Battery voltage		
84 (Y/R)	Ground	ECTV device (detent switch)	Output		_	Battery voltage		
85	0	Electronic steering	1	Electronic steer-	Lock status	0V		
(L/O)	Ground	column lock condition No. 1	Input	ing column lock	Unlock status	Battery voltage		
86	Cround	Electronic steering column lock condition	lnnut	Electronic steer-	Lock status	Battery voltage	١	
(G/R)	Ground	No. 2	Input	ing column lock	Unlock status	OV		
87	Ground	ECTV device (detent	lpput	Selector lever	P position	0V		
(G/B)	Ground	switch)	Input	Selector level	Any position other than P	Battery voltage		
					ON (pressed)	0V		
88 (P/L)	Ground	Front door RH request switch	Input	Front door RH request switch	OFF (not pressed)	(V) 15 10 10 ms 10 ms JPMIA0016GB		
					ON (pressed)	0V		
89 (B/W)	Ground	Front door LH request switch	Input	Front door LH request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB		
90	Ground	Front blower motor	Output	Ignition switch	OFF or ACC	0V		
(Y)	Sibulia	relay control	Carput	iginuon switon	ON	Battery voltage		
91 (L/R)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFI	F	Battery voltage		
94	0	Electronic steering	0	Indition of Male	OFF or ACC	Battery voltage		
(G/Y)	Ground	column lock CPU power supply	Output	Ignition switch	ON	0V		

	inal No. e color)	Description			On all the	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 0 2 ms JPMIA0037GB	
95 (R/W)	Ground	Combination switch Input	Input	Combination switch (Wiper intermittent dial 4)	switch (Wiper intermit-	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB	
						Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB

< ECU DIAGNOSIS >

	inal No.	Description				Value	А
(+)	e color)	Signal name	Input/ Output		Condition	(Approx.)	^
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB	B C
						1.4V	D
					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0	WT F
96 (P/B)	Ground	Combination switch INPUT 4	Input	Combination switch		JPMIA0038GB 1.3V	G
(175)			mpac	Switch	Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5	Н
						JPMIA0036GB	I
					Any of the conditions below	(V) 15 10 5	J
					with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	10 5 0 2 ms	K
						JРМIA0039GB 1.3V	L

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	inal No.	Description						
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)		
	.,,		·		All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB		
					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 5 0 2 ms JPMIA0040GB		
					Pressed	0 V		
98 (G/R)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB		

< ECU DIAGNOSIS >

	inal No.	Description				Value	А
(+)	e color) (-)	Signal name	Input/ Output		Condition	(Approx.)	Α
					LOCK status	Battery voltage	В
99 (L/Y)	Ground	Electronic steering column lock CPU communication	Input/ Output	Electronic steer- ing column lock	LOCK or UNLOCK	(V) 15 10 5 0 JMKIA0066GB	C D
					For 15 seconds after UN- LOCK	Battery voltage	WT
					15 seconds or later after UNLOCK	OV	_
103	Cround	Trunk lid opening	Output	Trunk lid	Open (trunk lid opener actuator is activated)	Battery voltage	F
(V)	Ground	Trunk ilu operiirig	Output	Trunk iid	Close (trunk lid opener actuator is not activated)	OV	G
110	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0V	
(V/W)	Glouliu	Trunk room lamp	Output	Trunk room lamp	OFF	Battery voltage	Н
					When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	J
114 (B)	Ground	Trunk room antenna 1 (-)	Output	Ignition switch OFF			K
					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	L

WT-41

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	inal No. e color)	Description	Inn: +/		Condition	Value
(+)	(-)	Signal name	Input/ Output		Condition	(Approx.)
115		Trunk room antenna		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Ground	1 (+)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
118	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 1 s JMKIA0062GB
(L/O)	Glodina	na (-)	Guipui	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 11 1 s JMKIA0063GB
119 (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 11 1 s JMKIA0062GB
W)	Giouna	na (+)	Output is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	Δ
127		Ignition relay (IPDM	-		OFF or ACC	Battery voltage	
(BR/ W)	Ground	E/R) control	Output	Ignition switch	ON	0V	В
130 (Y/G)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (trunk is closed)	(V) 15 10 5 0	C
						JРМIA0011GB 11.8V	W
					ON (trunk is open)	0V	
132	Crawad	Start signal	Output	Ignition switch	When selector lever is in P or N position and the brake peddle is not depressed	OV	F
(R)	Ground	ON ON	ON	When selector lever is in P or N position and the brake peddle is depressed	Battery voltage	G	
					ON (pressed)	OV	
141 (G/R)	Ground	Trunk request switch	Input	Trunk request switch	OFF (not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB	H I J
144		Request switch buzz-		Request switch	Sounding	0V	
(GR)	Ground	er er	Output	buzzer	Not sounding	Battery voltage	K
147	0	Trunk lid opener	lance 1	Trunk lid opener	Pressed	0V	
(L/R)	Ground	switch	Input	switch	Not pressed	Battery voltage	L
148 (R/W)	Ground	Rear door RH switch	Input	Rear door RH switch	OFF (when rear door RH closes)	(V) 15 10 5 0 10 ms	M
						JPMIA0011GB 11.8V	
					ON (when rear door RH opens)	0V	0

	inal No.	Description				Value	
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	
	(-)		Calput				
149 (R/B)	Ground	Rear door LH switch	Input	Rear door LH switch	OFF (when rear door LH closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	
					ON (when rear door LH opens)	0V	

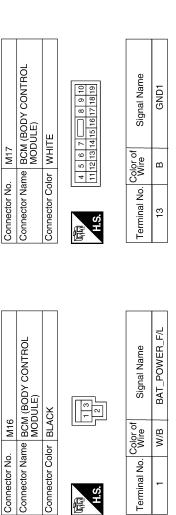
^{*:} With LH and RH front window anti-pinch system

WT-45

AWEWA0013G

TIRE PRESSURE MONITORING SYSTEM CONNECTORS

Connector No. M5 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	SM 4M — 3M 2M 1M H.S. H.S.	Terminal No. Color of Signal Name	12M P -						
Connector No. M3 Connector Name FUSE BLOCK (J/B) Connector Color WHITE	3N	Terminal No. Color of Signal Name	1N W/L -	2N G –					
Connector No. M1 Connector Name WIRE TO WIRE Connector Color WHITE	(中) 176 166 176 166 166 166 166 166 167 1			886 576 568 556	636 626 616 606 596 546 536 526 516	72G 71G 70G 69G 68G 67G 66G 60G 70G 70G 70G 70G 70G 70G 70G 70G 70G 7	896 826 816	Terminal No. Wire Signal Name	82G W/B –



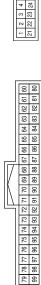
Terminal No.

AAEIA0008GB

Connector No.	M24
Connector Name	Connector Name COMBINATION METER
Connector Color WHITE	WHITE

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 2 22 23 24 25 28 27 28 29 30 31 32 33 34 35 36
3 4 5 6 7 8 9 10 11 23 24 25 26 27 28 29 30 31
3 4 5 6 7 8 9 10 11 23 24 25 26 27 28 29 30 31
3 4 5 6 7 8 9 10 23 24 25 26 27 28 29 30
3 4 5 6 7 8 23 24 25 26 27 28
3 4 5 6 7 8 23 24 25 26 27 28
3 4 5 6 23 24 25 26
3 4 5
3 4
e 8
1

Signal Name	BATT	NSI	GND	GND	CAN-H	CAN-L	GND
Color of Wire	M/L	0	В	В	٦	Ь	В
Terminal No.	-	2	င	4	21	22	23



		16 17	36 37		Signal Nam
	l	15	35		a
	l	14	34		g
_	<u> </u>	13	33		S
		12	35		
		#	31		
		10	30		<u></u>
		8 9 10 11 12 13 14 15	26 27 28 29 30 31 32 33 34 35		Color of Wire
_	ı	8	87		응통
	l	4	22		0
	l	9	26		Э.
	l	_	_		ž
	l	S	25		
	l	3 4	54		Ľ.
	l	3	23		Œ
	l	2	21 22 23 24 25		Terminal No.
	l	-	21		
				_	

Signal Name

Color of Wire

Terminal No.

CAN-H

CAN-L

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78 79

Signal Name	BATT	IGN	GND	GND	CAN-H	CAN-L	GND	
Color of Wire	M/L	0	В	В	٦	Ь	В	
Terminal No.	F	2	ε	4	21	22	23	

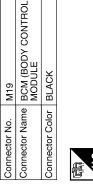




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Color of Wire	Ь	0/9	W/N
Ferminal No.	1	2	4

SIGNAL GND

Signal Name



Connector Name | BCM (BODY CONTROL MODULE)

M18

Connector No.

GREEN

Connector Color

BLACK



	Signal Name	IGN_F/B	GND_RF2_A/L	A/L_SENS_KEYLESS_ TUNER_POWER SUPPLY	KEYLESS_TUNER_ SIGNAL
	color of Wire	G	Ь	M/A	G/O

45 33

46 47

Terminal No.

TPMS_MODE_ TRIGGER_SW

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Connector No. Connector Name	H.S.
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			Ter			
Connector Name TIRE PRESSURE WARNING CHECK CONNECTOR	ITE	2	Signal Name		I	
= <u>=</u> =	lor WH		Color of	e Av	≯	
Connector ina	Connector Color WHITE	原 H.S.	Terminal No.		-	



Signal Name	I	
Color of Wire	×	
minal No.	-	

	T.S.
惛	7

Connector No.

Color of Wire Si	M	
Terminal No.	-	

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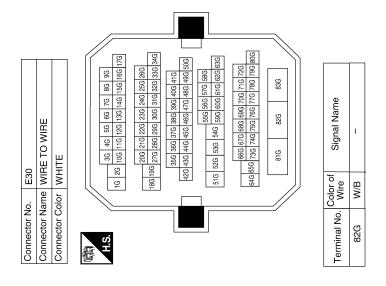
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ABEIA0050GB

INFOID:0000000004212518

Self-Diagnosis (With CONSULT-III)

FUNCTION

Self-Diagnostic Results Mode

< ECU DIAGNOSIS >

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:0000000004212519

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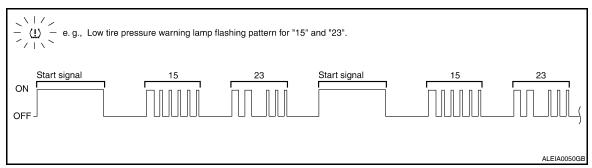
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SELF DIAGNOSTIC PROCEDURE (WITHOUT CONSULT-III)

- 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".

Transmitter no data (RR) Transmitter no data (RR) Transmitter no data (RR) Transmitter no data (RL) Transmitter checksum error (FL) Transmitter checksum error (RR) Transmitter checksum error (RR) Transmitter checksum error (RL) Transmitter pressure data error (FL) Transmitter pressure data error (RR) Transmitter pressure data error (RR) Transmitter pressure data error (RL) Transmitter pressure data error (RL) Transmitter function code error (FL) Transmitter function code error (FR) Transmitter function code error (RR) Transmitter function code error (RR)	Flash Code	Malfunction part	eference page
Transmitter no data (FR) Transmitter no data (RR) Transmitter no data (RR) Transmitter no data (RL) Transmitter checksum error (FL) Transmitter checksum error (FR) Transmitter checksum error (RR) Transmitter checksum error (RR) Transmitter checksum error (RL) Transmitter pressure data error (FL) Transmitter pressure data error (FR) Transmitter pressure data error (RR) Transmitter pressure data error (RR) Transmitter pressure data error (RR) Transmitter pressure data error (RL) Transmitter function code error (FL) Transmitter function code error (FR) Transmitter function code error (FR) Transmitter function code error (RR) Transmitter function code error (RR)	16 17	• • • • • • • • • • • • • • • • • • • •	_
Transmitter checksum error (FR) Transmitter checksum error (RR) Transmitter checksum error (RL) Transmitter pressure data error (FL) Transmitter pressure data error (FR) Transmitter pressure data error (RR) Transmitter pressure data error (RR) Transmitter pressure data error (RL) Transmitter pressure data error (RL) Transmitter function code error (FL) Transmitter function code error (FR) Transmitter function code error (FR) Transmitter function code error (RR)	22 23	ansmitter no data (FR) ansmitter no data (RR)	<u>WT-14</u>
Transmitter pressure data error (FR) Transmitter pressure data error (RR) Transmitter pressure data error (RL) Transmitter pressure data error (RL) Transmitter function code error (FL) Transmitter function code error (FR) Transmitter function code error (RR)	32 33	ansmitter checksum error (FR) ansmitter checksum error (RR)	<u>WT-16</u>
42 Transmitter function code error (FR) 43 Transmitter function code error (RR)	36 37	ansmitter pressure data error (FR) ansmitter pressure data error (RR)	WT-18
44 Transmitter function code error (RL)	42	ansmitter function code error (FR)	<u>WT-16</u>
Transmitter battery voltage low (FL) 46 Transmitter battery voltage low (FR) 47 Transmitter battery voltage low (RR) 48 Transmitter battery voltage low (RL)	46 47	ansmitter battery voltage low (FR) ansmitter battery voltage low (RR)	<u>WT-16</u>
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TPMS

SYMPTOM DIAGNOSIS

TPMS

Symptom Table

INEOID:0000000004212520	

Symptom	Reference
Low tire pressure warning lamp does not come on when ignition switch is turned ON.	<u>WT-52</u>
Low tire pressure warning lamp stays on when ignition switch is turned ON.	<u>WT-53</u>
Low tire pressure warning lamp flashes when ignition switch is turned ON.	<u>WT-54</u>
Hazard warning lamps flash when ignition switch is turned ON.	<u>WT-55</u>
ID registration cannot be completed.	<u>WT-56</u>

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LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

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

DIAGNOSTIC PROCEDURE

1.SELF-DIAGNOSTIC RESULT CHECK

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

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

YES >> Malfunction in CAN communication system. Refer to <u>LAN-27, "CAN System Specification Chart".</u>

NO >> GO TO 2

2.CHECK COMBINATION METER

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Replace combination meter. Refer to MWI-135, "Removal and Installation".

3. CHECK LOW TIRE PRESSURE WARNING LAMP

Disconnect BCM harness connector.

Does the low tire pressure warning lamp activate?

YES >> Replace BCM. Refer to BCS-87, "Removal and Installation".

NO >> Check combination meter operation.

LOW TIRE PRESSURE WARNING LAMP STAYS ON

< SYMPTOM DIAGNOSIS > LOW TIRE PRESSURE WARNING LAMP STAYS ON Α Low Tire Pressure Warning Lamp Stays On When Ignition Switch Is Turned On В DIAGNOSTIC PROCEDURE 1.BCM CONNECTORS Turn ignition switch OFF. Disconnect BCM harness connectors. Check terminals for damage or loose connections. D Is the inspection result normal? YES >> GO TO 2 NO >> Repair or replace damaged parts. WT 2.BCM POWER SUPPLY AND GROUND CIRCUITS Check BCM power supply and ground circuits. Refer to BCS-42, "Diagnosis Procedure". Is the inspection result normal? F YES >> Replace BCM. Refer to BCS-87, "Removal and Installation". NO >> Repair BCM circuits. Н J K L M Ν 0

LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP BLINKS

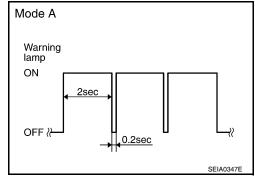
Low Tire Pressure Warning Lamp Flashes When Ignition Switch Is Turned On

INFOID:0000000004212523

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>".



DIAGNOSTIC PROCEDURE

1. CHECK BCM CONNECTORS

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

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace damaged parts.

2.CHECK TIRE PRESSURE WARNING CHECK CONNECTOR CIRCUIT

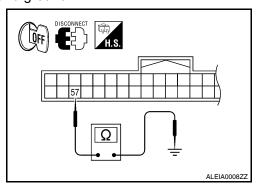
Check continuity between BCM harness connector M18 terminal 57 and ground.

Continuity should not exist.

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-87</u>, "Removal and Installation".

NO >> Repair circuit for short to ground.



HAZARD WARNING LAMPS FLASH

< SYMPTOM DIAGNOSIS >

HAZARD WARNING LAMPS FLASH Hazard Warning Lamps Flash When Ignition Switch Is Turned On DIAGNOSTIC PROCEDURE 1. CHECK BCM GROUND CIRCUIT Check BCM ground circuit. Refer to BCS-42, "Diagnosis Procedure". Is the inspection result normal? YES >> Replace BCM. Refer to BCS-87, "Removal and Installation". NO >> Repair BCM ground circuit.

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ID REGISTRATION CANNOT BE COMPLETED

< SYMPTOM DIAGNOSIS >

ID REGISTRATION CANNOT BE COMPLETED

ID Registration Cannot Be Completed

INFOID:0000000004212525

DIAGNOSTIC PROCEDURE

1. PERFORM ID REGISTRATION OF ALL TRANSMITTERS

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

Can ID registration of all transmitters be completed?

YES >> Inspection End.

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

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

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

Reference page		<u>WT-60</u>	<u>09-LW</u>	<u>09-LW</u>	<u>09-LW</u>	<u>09-LW</u>	I	I	<u>WT-66</u>	FAX-2, "NVH Troubleshooting Chart", FSU-2, "NVH Troubleshooting Chart"	RAX-2, "NVH Troubleshooting Chart", RSU-2, "NVH Troubleshooting Chart"	Refer to TIRES in this chart.	Refer to ROAD WHEEL in this chart.	FAX-2, "NVH Troubleshooting Chart"	BR-6, "NVH Troubleshooting Chart"	ST-2, "NVH Troubleshooting Chart"	
Possible cause and SUSPECTED PARTS		Improper installation, looseness	Out-of-round	Imbalance	Incorrect tire pressure	Uneven tire wear	Deformation or damage	Non-uniformity	Incorrect tire size	FRONT AXLE AND FRONT SUSPENSION	REAR AXLE AND REAR SUSPENSION	TIRES	ROAD WHEELS	DRIVE SHAFT	BRAKE	STEERING	
		Noise	×	×	×	×	×	×	×		×	×		×	×	×	×
		Shake	×	×	×	×	×	×		×	×	×		×	×	×	×
TIRES	Vibration				×				×	×	×			×		×	
	Shimmy	×	×	×	×	×	×	×	×	×	×		×		×	×	
	Shudder	×	×	×	×	×	×		×	×	×		×		×	×	
Symptom		Poor quality ride or handling	×	×	×	×	×	×		×	×		×	×			
		Noise	×	×	×			×			×	×	×		×	×	×
BOAD	Shake	×	×	×			×			×	×	×		×	×	×	
	ROAD WHEEL	Shimmy, Shudder	×	×	×			×			×	×	×			×	×
		Poor quality ride or handling	×	×	×			×			×	×	×				

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INFOID:0000000004212526

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.

Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:0000000004501286

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both 12-volt battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both 12volt battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work.
 If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the 12-volt battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the 12-volt battery disconnected or discharged, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

Connect both 12-volt battery cables.

NOTE:

Supply power using jumper cables if 12-volt battery is discharged.

- 2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
- 3. Disconnect both 12-volt battery cables. The steering lock will remain released with both 12-volt battery cables disconnected and the steering wheel can be turned.
- 4. Perform the necessary repair operation.
- When the repair work is completed, re-connect both 12-volt battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
- 6. Perform self-diagnosis check of all control units using CONSULT-III.

Precaution for work

INFOID:0000000004212528

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

PREPARATION

PREPARATION

PREPARATION

Special Service Tool

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

Tool number (Kent-Moore No.) Tool name		Description	
KV991B1000 (J-45295) Transmitter activation tool	WEIA0144E	Transmitter wake up operation ID registration procedure	

Commercial Service Tools

INFOID:0000000004212530

INFOID:0000000004212529

Tool name		Description	
Power tool		Loosening bolts and nuts	
	PBICO190E		

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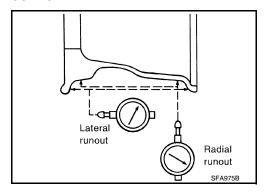
ON-VEHICLE MAINTENANCE

ROAD WHEEL

Inspection INFOID:0000000004212531

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

Wheel runout (Dial indicator value) : Refer to WT-66.



TIRE PRESSURE RECEIVER

< ON-VEHICLE REPAIR >

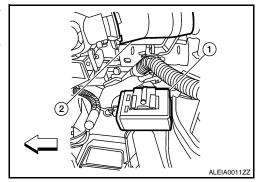
ON-VEHICLE REPAIR

TIRE PRESSURE RECEIVER

Removal and Installation

REMOVAL

- 1. Remove instrument lower cover (LH). Refer to IP-12, "Removal and Installation".
- 2. Locate tire pressure receiver (1) to the right of the steering column (2) and disconnect the tire pressure receiver connector.
- 3. Remove the tire pressure receiver (1) from bracket using a suitable tool to release the bracket.
 - <⊐: Vehicle front



INSTALLATION

Installation is in the reverse order of removal.

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ROAD WHEEL TIRE ASSEMBLY

Adjustment

WHEEL BALANCE

Remove inner and outer balance weights from the wheel.

CAUTION:

- Be careful not to scratch the wheel during removal procedures.
- 2. Using releasing agent, remove double-faced adhesive tape from the wheel.

CAUTION:

- · Be careful not to scratch the wheel during removal.
- · After removing double-faced adhesive tape, wipe clean traces of releasing agent from the wheel.
- 3. Set wheel on wheel balancer using the center hole as a guide. Start the tire balance machine.
 - If a tire balance machine has adhesion balance weight mode settings and drive-in weight mode setting, select and adjust a drive-in weight mode suitable for wheels.
- 4. When inner and outer unbalance values are shown on the wheel balancer indicator, multiply outer unbalance value by 1.6 to determine balance weight that should be used. Select the outer balance weight with a value closest to the calculated value and install it to the designated outer position of, or at the designated angle in relation to the road wheel.

CAUTION:

- Do not install the inner balance weight before installing the outer balance weight.
- Before installing the balance weight, be sure to clean the mating surface of the wheel.

Indicated unbalance value \times 5/3 = balance weight to be installed Calculation example:

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

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

Example:

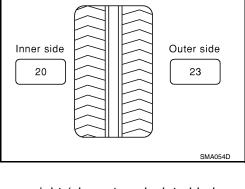
$$37.4 g = 35 g (1.23 oz.)$$

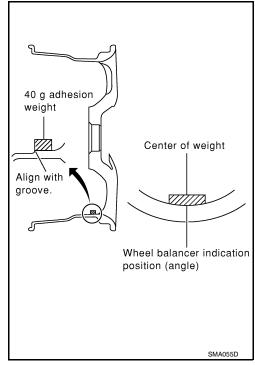
 $37.5 g = 40 g (1.41 oz.)$

- a. Install balance weight in the position shown.
- b. When installing balance weight to wheels, set it into the grooved area on the inner wall of the wheel as shown so that the balance weight center is aligned with the wheel balancer indication position (angle).

CAUTION:

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





ROAD WHEEL TIRE ASSEMBLY

< ON-VEHICLE REPAIR >

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

CAUTION:

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

- Start wheel balancer again.
- 6. Install drive-in balance weight on inner side of road wheel in the wheel balancer indication position (angle).

CAUTION:

Do not install more than two balance weights.

- 7. Start wheel balancer. Make sure that inner and outer residual unbalance values are 5 g (0.18 oz.) each or below.
 - If either residual unbalance value exceeds 5 g (0.18 oz.), repeat installation procedures.

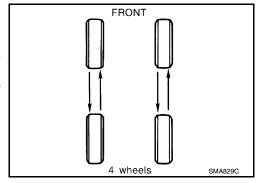
Wheel balance (Maximum allowable unbalance):

Maximum allowable un-	Dynamic (At rim flange)	5 g (0.18 oz.) (one side)
balance	Static	10 g (0.35 oz.)

TIRE ROTATION

- Follow the maintenance schedule for tire rotation service intervals. Refer to MA-4, "Explanation General Maintenance".
- Do not include the T-type spare tire when rotating the tires. **CAUTION:**
 - 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.

Tightening torque of : 113 N·m (12 kg-m, 83 ft-lb) wheel nut



Wheel balancer indication position (angle)

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REMOVAL AND INSTALLATION

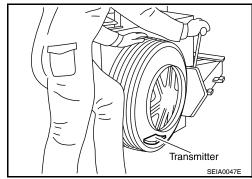
TRANSMITTER

Removal and Installation

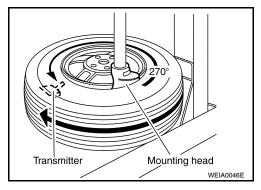
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REMOVAL

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

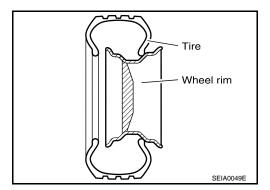


- 4. Turn tire so that valve hole is at bottom, and gently bounce the tire to ensure transmitter is near valve hole. Carefully lift tire onto turntable and position valve hole (and transmitter) 270 degrees from mounting/dismounting head.
- 5. Lubricate tire well, and remove top side of tire. Reach inside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



INSTALLATION

1. Place first side of tire onto rim.



2. Apply suitable silicone lubricant to new transmitter seal then install seal on transmitter. Refer to MA-10. "Fluids and Lubricants".

NOTE:

Always replace the seal after every disassembly.

TRANSMITTER

< REMOVAL AND INSTALLATION >

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

NOTE:

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

Transmitter nut tightening torque

: 7.7 N·m (0.79 kg-m, 68 in-lb)

Nut

Transmitter (pressure sensor)

Outer

Wheel

Always replace after every disassembly. WEIA0137E

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

NOTE:

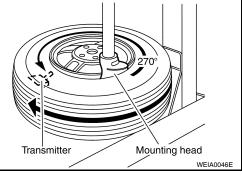
Do not touch transmitter with mounting head.

- 5. Lubricate tire well, and install second side of tire as normal. Ensure that tire does not rotate relative to rim.
- Inflate tire and balance the wheel and tire assembly. Refer to WT-62, "Adjustment".
- 7. Install wheel and tire assembly in appropriate wheel position on vehicle. Refer to <u>WT-62</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 BRC-9, "PERFORM ZERO POINT OF STEER-ING ANGLE SENSOR: Special Repair Requirement".



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SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Road Wheel

Standard item	Allowable value				
Manian and distance and the id	Lateral deflection	Less than 0.3 mm (0.012 in)			
Maximum radial runout limit	Radial deflection	Less than 0.3 mm (0.012 in)			
Maximum allowable unbalance	Dynamic (At rim flange)	Less than 5 g (0.18 oz) (one side)			
	Static (At rim flange)	Less than 10 g (0.35 oz)			

Tire (INFOID:0000000004212536

Unit: kPa (kg/cm², psi)

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