SECTION SECTION ROAD WHEELS & TIRES

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WT-45

C1729

VHCL SPEED SIG ERR

PRECAUTIONS

PRECAUTIONS PFP:00001

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

NESONOES

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS 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 SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precautions Necessary for Steering Wheel Rotation After Battery Disconnect

NES000ET

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NVIS/IVIS (NISSAN/INFINITI VEHICLE IMMOBILIZER SYSTEM - NATS).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT-II to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NVIS/IVIS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

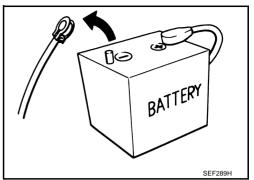
Supply power using jumper cables if battery is discharged.

- 2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
- 3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- 4. Perform the necessary repair operation.
- 5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
- 6. Perform a self-diagnosis check of all control units using CONSULT-II.

PRECAUTIONS

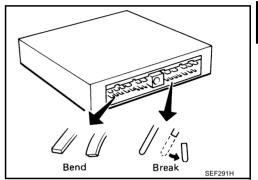
Precautions

 Before connecting or disconnecting the BCM harness connector, turn ignition switch "OFF" and disconnect the battery cable from the negative terminal. Battery voltage is applied to BCM even if ignition switch is turned "OFF".

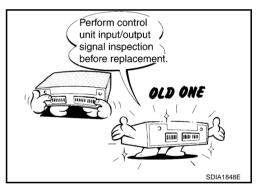


 When connecting or disconnecting pin connectors into or from BCM, take care not to damage pin terminals (bend or break).

When connecting pin connectors make sure that there are not any bends or breaks on BCM pin terminals.



 Before replacing BCM, perform control unit input/output signal inspection and make sure whether BCM functions properly or not. Refer to <u>WT-18, "BCM Input/Output Signal Reference Values"</u>.



Service Notice or Precautions

- Low tire pressure warning lamp flashes 1min, then turns ON when occurring any malfunction except low tire pressure. Delete the memory with CONSULT-II, or register the ID to turn low tire pressure warning lamp OFF. Refer to WT-26, "ERASE SELF-DIAGNOSIS", WT-26, "ID Registration Procedure".
- ID registration is required when replacing or rotating wheels, replacing transmitter or BCM. Refer to <u>WT-26</u>, "ID Registration Procedure".
- Replace grommet seal, valve core and cap of the transmitter in TPMS every tire replacement by reaching wear limit of tire.

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PREPARATION

PREPARATION PFP:00002 **Special Service Tools** NES000EQ The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here. Tool number (Kent-Moore No.) Description Tool name ID registration (J-45295) Transmitter activation tool SEIA0462E **Commercial Service Tools** NES000ER Tool name Description Power tool Loosening bolts and nuts

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING NVH Troubleshooting Chart

PFP:00003

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

Reference page			FAX-5, FSU-5	WT-53	I	I	I	I	I	I	NVH in PR section	NVH in RFD section	NVH in FAX and FSU sections	NVH in RAX and RSU sections	Refer to TIRES in this chart	Refer to ROAD WHEEL in this chart	NVH in FAX, RAX section	NVH in BR section	NVH in PS section
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	PROPELLER SHAFT	DIFFERENTIAL	FRONT AXLE AND FRONT SUSPENSION	REAR AXLE AND REAR SUSPENSION	TIRES	ROAD WHEEL	DRIVE SHAFT	BRAKE	STEERING	
		Noise	×	×	×	×	×	×	×		×	×	×	×		×	×	×	×
		Shake	×	×	×	×	×	×		×	×		×	×		×	×	×	×
		Vibration				×				×	×		×	×			×		×
	TIRES	Shimmy	×	×	×	×	×	×	×	×			×	×		×		×	×
		Judder	×	×	×	×	×	×		×			×	×		×		×	×
Symptom	Symptom Poor quality ride or handling Noise Shake ROAD WHEEL Shimmy, judder Poor quality ride or handling		×	×	×	×	×	×		×			×	×		×			
			×	×	×			×			×	×	×	×	×		×	×	×
			×	×	×			×			×		×	×	×		×	×	×
			×	×	×			×					×	×	×			×	×
			×	×	×			×					×	×	×				

^{×:} Applicable

LOW TIRE PRESSURE WARNING SYSTEM

LOW TIRE PRESSURE WARNING SYSTEM

PFP:40300

System Description DESCRIPTION

NES000EJ

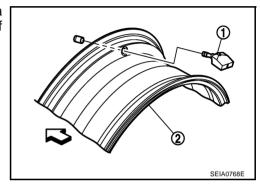
During driving, the low tire pressure warning system receives the signal transmitted from the transmitter installed in each wheel, when the tire pressure becomes low. The control unit (BCM) of this system has pressure judgement and trouble diagnosis functions.

Function

When the low tire pressure warning system detects low inflation pressure or another unusual symptom, the warning lamps in the combination meter comes on. To start the self-diagnostic results mode, ground terminal of the tire pressure warning check connector. The malfunction location is indicated by the warning lamp flashing.

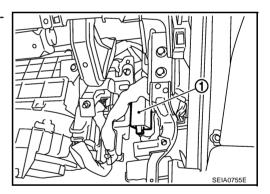
TRANSMITTER

A sensor-transmitter (1) integrated with a valve is installed on a wheel (2), and transmits a detected air pressure signal in the form of a radio wave.



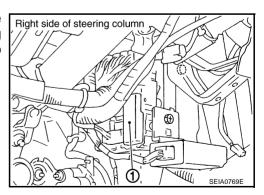
REMOTE KEYLESS ENTRY RECEIVER

The remote keyless entry receiver (1) receives the air pressure signal transmitted by the transmitter in each wheel.



BCM (BODY CONTROL MODULE)

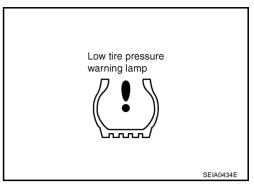
The BCM (1) reads the air pressure signal received by the remote key-less entry receiver, and controls the low tire pressure warning lamp and the buzzer operations. It also has a judgement function to detect a system malfunction.



LOW TIRE PRESSURE WARNING SYSTEM

LOW TIRE PRESSURE WARNING LAMP

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 and buzzer of combination meter are is activated.



Low Tire Pressure Warning Lamp

Condition	Low tire pressure warning lamp
Less than 186 kPa (1.86 kg/cm ² , 27 psi) *1	ON
Low tire pressure warning system malfunction	Warning lamp flashes 1 min, then turns ON. *2

^{*1:} Standard air pressure is for 230 kPa (2.3 kg/cm², 33 psi) vehicles.

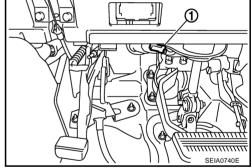
VEHICLE INFORMATION DISPLAY

Displays the air pressure of each tire. After the ignition switch is turned ON, the pressure values are not displayed until the data of each wheel stabilizes.

TIRE PRESSURE WARNING CHECK SWITCH

The following item can be checked by grounding the tire pressure warning check switch (1) harness connector terminal.

• The low tire pressure warning lamp in the combination meter will flicker according to the self-diagnostic results.



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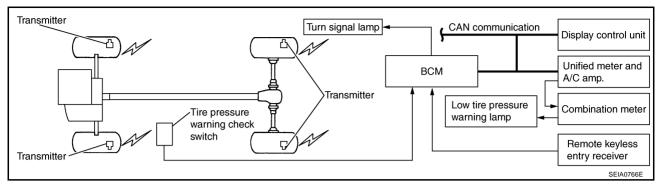
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^{*2:} Warning lamp turns ON when occurring a malfunction in CAN communication lines.

LOW TIRE PRESSURE WARNING SYSTEM

System Diagram

NES000F3



COMPONENTS FUNCTION DESCRIPTION

Component parts	Function
BCM	A low tire pressure warning system is built into the BCM, and the BCM monitors tire pressures.
Transmitter	Converts tire pressure signals to radio wave signals.
Remote keyless entry receiver	Receives radio wave signals converted from tire pressure signals.
Tire pressure warning check switch	Allows a mode to be switched to a diagnosis mode.
Turn signal lamp	ID registration of each wheel has been completed, turn signal lamp flashes two times.
Combination meter	Controls a low tire pressure warning lamp, turn signal lamp, and buzzer by signals from the unified meter and A/C amp.
Low tire pressure warning lamp	Illuminates if malfunction is detected in electrical system of low tire pressure warning system.
Unified meter and A/C amp.	Transmits the vehicle speed signal via CAN communication to BCM. Receives the tire pressure signal via CAN communication from BCM.
Display control unit	Receives the tire pressure data signal via CAN communication from BCM.

Can Communication SYSTEM DESCRIPTION

NES000E0

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. Refer to LAN-25, "CAN COMMUNICATION".

TROUBLE DIAGNOSES

PFP:00004

How to Perform Trouble Diagnosis BASIC CONCEPT

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- To perform trouble diagnosis, it is the most important to have understanding about vehicle systems (control and mechanism) thoroughly.
- It is also important to clarify customer complaints before inspec-

First of all, reproduce symptoms, and understand them fully. Ask customer about his/her complaints carefully. In some cases, it will be necessary to check symptoms by driving vehicle with customer.

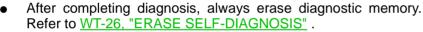


CAUTION:

Customers are not professional. It is dangerous to make an easy guess like "maybe the customer means that...," or "maybe the customer mentions this symptom".

It is essential to check symptoms right from the beginning in order to repair malfunctions completely.

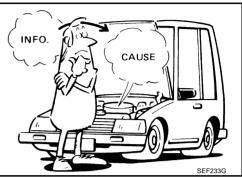
For intermittent malfunctions, reproduce symptoms based on interview with customer and past examples. Do not perform inspection on ad hoc basis. Most intermittent malfunctions are caused by poor contacts. In this case, it will be effective to shake suspected harness or connector by hand. When repairing without any symptom diagnosis, you cannot judge if malfunctions have actually been eliminated.



For intermittent malfunctions, move harness or harness connector by hand. Then check for poor contact or reproduced open circuit.

INTRODUCTION

- Before troubleshooting, verify customer complaints.
- If a vehicle malfunction is difficult to reproduce, harnesses, harness connectors or terminals may be malfunctioning. Hold and shake these parts to make sure they are securely connected.
- When using a circuit tester to measure voltage or resistance of each circuit, be careful not to damage or deform connector terminals.

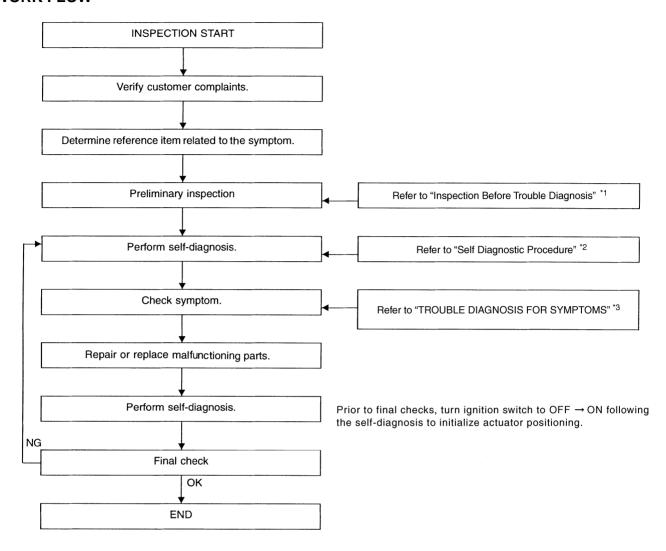


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WORK FLOW



SEIA0770E

Component Parts Location NES000F5 D A C E B E Tire pressure warning check switch A Right side of steering column В C View with the instrument passenger lower panel removed Remote keyless entry receiver Ε D Low tire pressure Transmitter warning lamp

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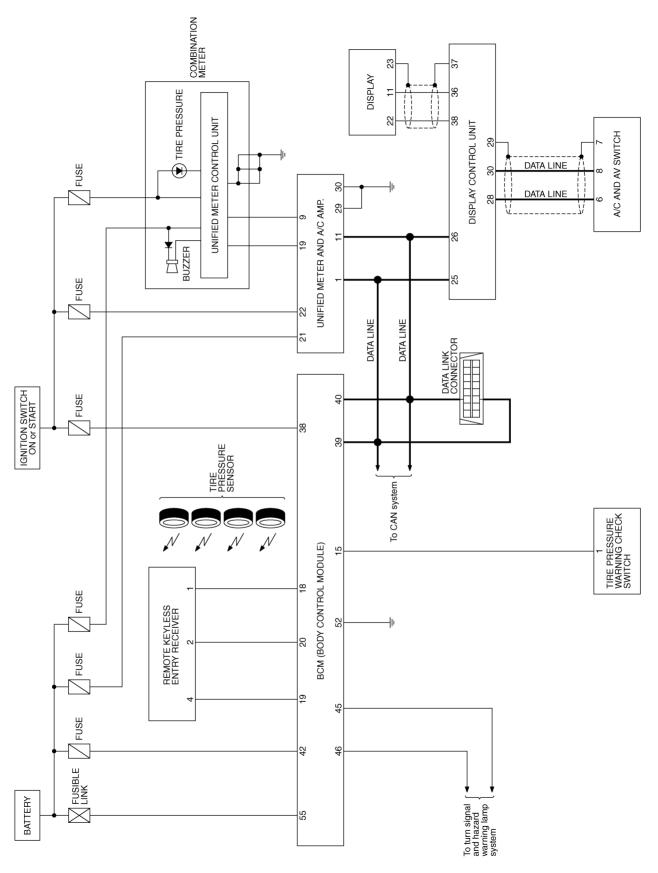
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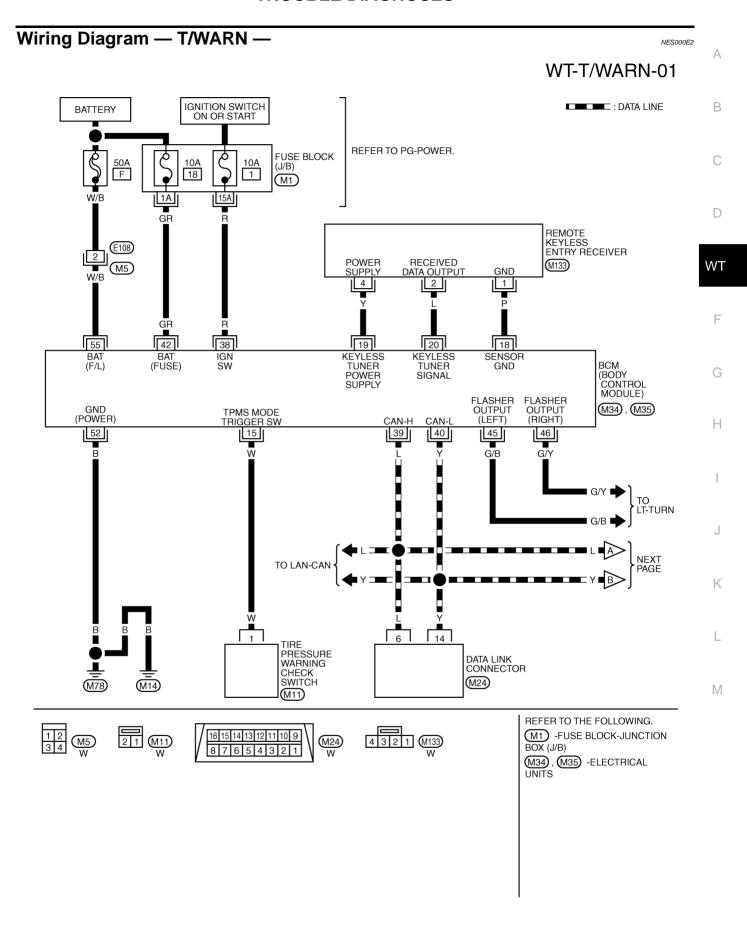
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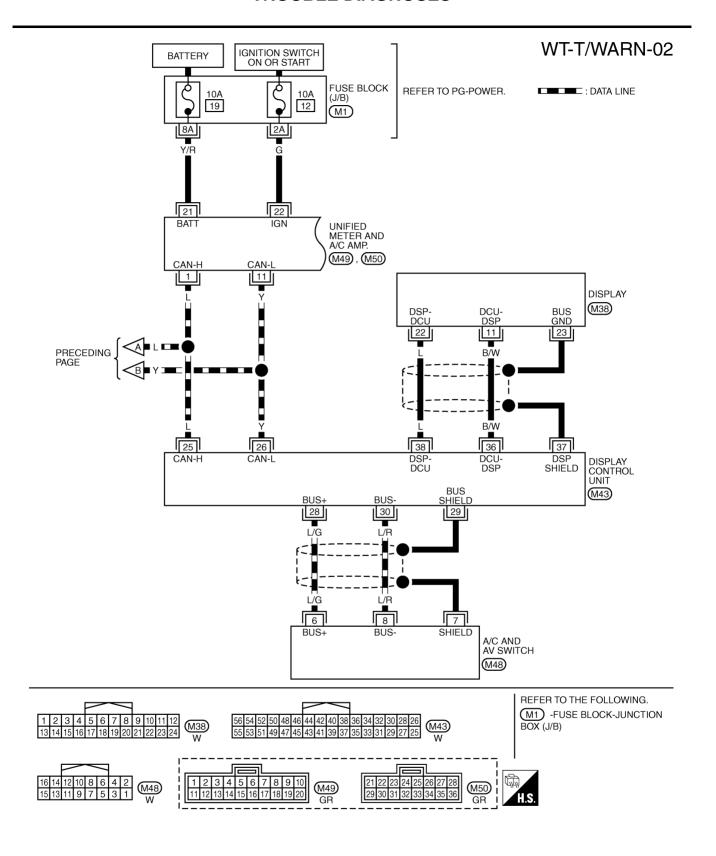
Circuit Diagram NES000F6



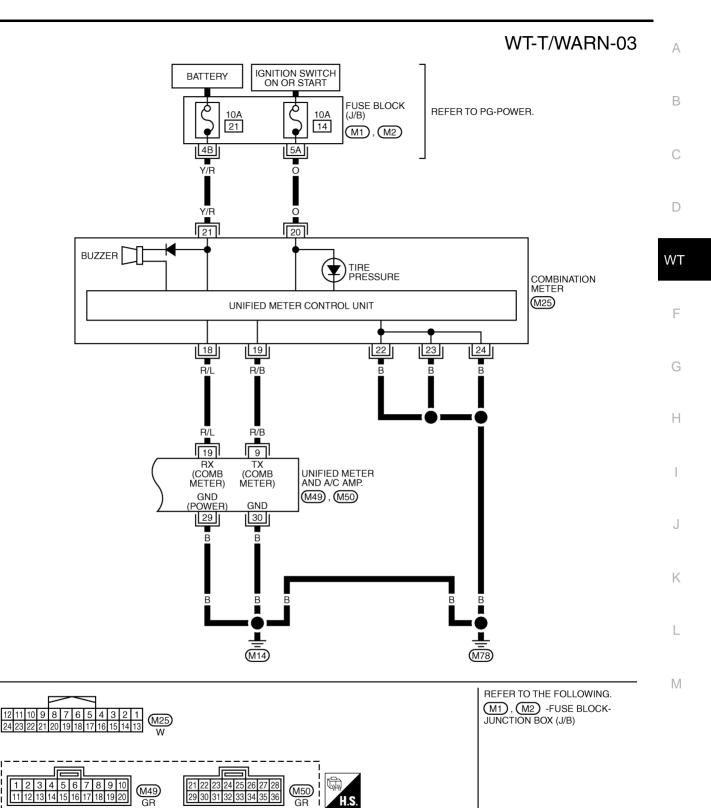
TEWB0003E



TEWB0004E



TEWB0005E



TEWB0006E

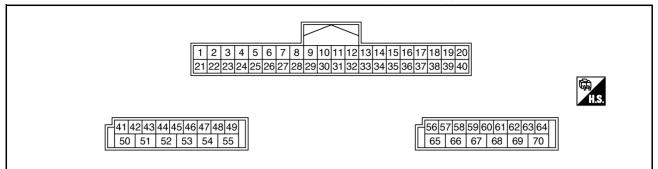
BCM Input/Output Signal Reference Values BCM INSPECTION TABLE (FOR LOW TIRE PRESSURE WARNING SYSTEM) Specifications with CONSULT-II

NESOODER

Monitor item [Unit]	Content	Condition	Display value
		Vehicle stopped	0 km/h (0 MPH)
VHCL SPEED SE [km/h] or [mph]	Wheel speed	Vehicle running CAUTION: Check air pressure of tire under standard condition.	Approximately equal to the indication on speedometer (Inside of ±10%)
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS FL [kPa], [kg/cm ²] or [psi]	Condition of front LH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS FR [kPa], [kg/cm ²] or [psi]	Condition of front RH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS RR [kPa], [kg/cm ²] or [psi]	Condition of rear LH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS RL [kPa], [kg/cm ²] or [psi]	Condition of rear RH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
ID REGST FL [DONE/YET]	Condition of front LH	Transmitter ID registered	DONE
ID RECOTTE[DONE/TET]	ID registration	Transmitter ID unregistered	YET
ID REGST FR [DONE /YET]	Condition of front RH	Transmitter ID registered	DONE
ID REGOTTR [DONE / TET]	ID registration	Transmitter ID unregistered	YET
ID REGST RR [DONE/YET]	Condition of rear LH ID	Transmitter ID registered	DONE
	registration	Transmitter ID unregistered	YET
ID REGST RL [DONE/YET]	Condition of rear RH ID	Transmitter ID registered	DONE
	registration	Transmitter ID unregistered	YET
WARNING LAMP [ON/OFF]	Low tire pressure	Low tire pressure warning lamp: ON	ON
[55.1]	warning lamp condition	Low tire pressure warning lamp: OFF	OFF
BUZZER [ON/OFF]	Condition of sound	Sound heard	ON
1		Sound not heard	OFF

Specifications Between BCM Terminals

BCM TERMINAL CONNECTOR LAYOUT



Data are reference value and are measured between each terminal and ground.

Terminal	Wire color	Item	Condi	ition	Data (Approx.)
15	W	Tire pressure warning check	Ignition switch: ON		5 V
10	v v	switch	Ignition switch: OFF		0 V
18	Р	Remote keyless entry receiver (Ground)	Alwa	ays	0 V
19	Y	Remote keyless entry receiver	Stand-by		(V) 6 4 2 0 ••• 0.2s
	•	(Power supply)	Press any of the key	fob switches	(V) 6 4 2 0 + + 0.2s
20		Remote keyless entry receiver	Ignition quitable CNI	Stand-by	(V) 6 4 2 0 •• 0.2s
20	L	(Signal)	Ignition switch: ON	Press any of the keyfob switches	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
38	R	Power supply (IC)	Ignition switch: ON		Battery voltage
30	ĸ	Power supply (IG)	Ignition switch: OFF		0 V
39	L	CAN-H	_	-	_
40	Υ	CAN-L	_	-	_
42	GR	Power supply (Fuse)	Ignition switch: ON Ignition switch: OFF		Battery voltage

Revision: 2006 August WT-19 2006 Murano

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IVI

Terminal	Wire color	Item	Condi	tion	Data (Approx.)	
45	G/B	Turn signal lamp switch (LH)	amp switch (LH) Ignition switch: ON		Battery voltage	
43	G/B	rum signariamp switch (EH)	ignition switch. Oil	Other than the above	0 V	
46	G/Y	Turn signal lamp switch (RH)	Ignition switch: ON	Turn signal switch to right	Battery voltage	
40	0/1	rum signariamp switch (IVII)	ignition switch. Oil	Other than the above	0 V	
52	В	Ground	Always		0 V	
55	W/B	Dower ownsky (E/L)	Ignition switch: ON		- Battery voltage	
55	VV/D	Power supply (F/L)	Ignition switch: OFF			

CAUTION:

When using circuit tester or oscilloscope to measure voltage for inspection, be sure not to extend forcibly any connector terminals.

CONSULT-II Function (AIR PRESSURE MONITOR) CONSULT-II MAIN FUNCTION

NES000E7

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

Diagnostic test mode	Function	Reference page
Work support	 This mode enables a technician to adjust some devices faster and more accurately by following the indications on CONSULT-II. 	<u>WT-21</u>
Self-diagnostic results	Self-diagnostic results can be read and erased quickly.	<u>WT-21</u>
Data monitor	Input/Output data in the BCM can be read.	<u>WT-23</u>
Active test	Diagnostic Test Mode in with CONSULT-II drives some actuators apart from the BCM and also shifts some parameters in a specified range.	<u>WT-24</u>

CONSULT-II SETTING PROCEDURE

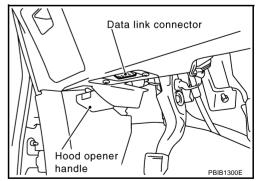
CAUTION:

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carry out CAN communication.

NOTE:

For details, refer to the separate "CONSULT-II Operations Manual".

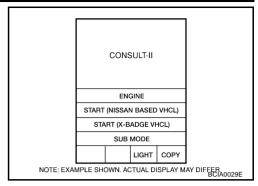
- 1. Turn ignition switch "OFF".
- 2. Connect CONSULT-II and CONSULT-II CONVERTER to data link connector on vehicle.
- Turn ignition switch "ON".



- 4. Touch "START (NISSAN BASED VHCL)".
- 5. Touch "BCM".

 If "BCM" is not indicated, go to GI-39, "CONSULT-II Data Link

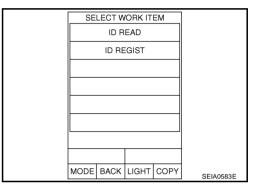
 Connector (DLC) Circuit".
- 6. Touch "AIR PRESSURE MONITOR".
- 7. Perform each diagnostic test mode according to each service procedure.



WORK SUPPORT MODE

Operation Procedure

- 1. Perform "CONSULT-II SETTING PROCEDURE". Refer to WT-20, "CONSULT-II SETTING PROCEDURE".
- 2. Touch "WORK SUPPORT".
- 3. Select from "SELECT WORK ITEM", screen of work support mode is displayed



ID Read

The registered ID number is displayed.

			_		
	ID R				
T DI	TYPE1 F	īL	9	3D9D	
ID TYPE1 FR			96	3DE9	
ID TYPE1 RR			9[07C07	
ID TYPE1 RL 9E0F8E				E0F8E	
		F	٦E.	AD	
MODE	BACK	LIGH	IT	COPY	SEIA0584E

ID Regist

Refer to WT-26, "ID Registration Procedure".

SELF-DIAG RESULT MODE

Operation Procedure

- 1. Perform "CONSULT-II SETTING PROCEDURE". Refer to WT-20, "CONSULT-II SETTING PROCEDURE".
- 2. Touch "SELF-DIAG RESULTS".

 Display shows malfunction experienced since the last erasing operation.

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Items (CONSULT-II screen terms)	Diagnostic item is detected when	Check item
FLAT TIRE FL [C1704]	Front LH tire pressure drops to 186 kPa (1.86 kg/cm², 27 psi) or less	
FLAT TIRE FR [C1705]	Front RH tire pressure drops to 186 kPa (1.86 kg/cm ² , 27 psi) or less	WT-31, "Inspections Before Trouble Diag-
FLAT TIRE RR [C1706]	Rear RH tire pressure drops to 186 kPa (1.86 kg/cm ² , 27 psi) or less	nosis"
FLAT TIRE RL [C1707]	Rear LH tire pressure drops to 186 kPa (1.86 kg/cm ² , 27 psi) or less	
[NO DATA] FL [C1708]	Data from front LH transmitter cannot be received.	
[NO DATA] FR [C1709]	Data from front RH transmitter cannot be received.	WT-32, "DTC C1708,
[NO DATA] RR [C1710]	Data from rear RH transmitter cannot be received.	C1709, C1710, C1711 [NO DATA]"
[NO DATA] RL [C1711]	Data from rear LH transmitter cannot be received.	
[CHECKSUM ERR] FL [C1712]	Checksum data from front LH transmitter is malfunctioning.	
[CHECKSUM ERR] FR [C1713]	Checksum data from front RH transmitter is malfunctioning.	WT-35, "DTC C1712,
[CHECKSUM ERR] RR [C1714]	Checksum data from rear RH transmitter is malfunctioning.	C1713, C1714, C1715 [CHECKSUM ERR]"
[CHECKSUM ERR] RL [C1715]	Checksum data from rear LH transmitter is malfunctioning.	
[PRESSDATA ERR] FL [C1716]	Air pressure data from front LH transmitter is malfunction.	
[PRESSDATA ERR] FR [C1717]	Air pressure data from front RH transmitter is malfunction.	WT-38, "DTC C1716,
[PRESSDATA ERR] RR [C1718]	Air pressure data from rear RH transmitter is malfunction.	C1717, C1718, C1719 [PRESSDATA ERR]"
[PRESSDATA ERR] RL [C1719]	Air pressure data from rear LH transmitter is malfunction.	
[CODE ERR] FL [C1720]	Function code data from front LH transmitter is malfunctioning.	
[CODE ERR] FR [C1721]	Function code data from front RH transmitter is malfunctioning.	WT-39, "DTC C1720,
[CODE ERR] RR [C1722]	Function code data from rear RH transmitter is malfunctioning.	C1721, C1722, C1723 [CODE ERR]"
[CODE ERR] RL [C1723]	Function code data from rear LH transmitter is malfunctioning.	
[BATT VOLT LOW] FL [C1724]	Battery voltage of front LH transmitter drops.	
[BATT VOLT LOW] FR [C1725]	Battery voltage of front RH transmitter drops.	WT-42, "DTC C1724,
[BATT VOLT LOW] RR [C1726]	Battery voltage of rear RH transmitter drops.	C1725, C1726, C1727 [BATT VOLT LOW]"
[BATT VOLT LOW] RL [C1727]	Battery voltage of rear LH transmitter drops.	
VHCL SPEED SIG ERR [C1729]	Vehicle speed signal is error.	WT-45, "DTC C1729 VHCL SPEED SIG ERR"

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-II.

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How to Erase Self-diagnostic Results

- 1. Perform applicable inspection of malfunctioning item and then repair or replace.
- Turn ignition switch "ON" and select "SELF-DIAG RESULTS" mode for "AIR PRESSURE MONITOR" with CONSULT-II.
- 3. Touch "ERASE" on CONSULT-II screen to erase DTC memory.

CAUTION:

If memory cannot be erased, perform applicable diagnosis.

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DATA MONITOR MODE

Operation Procedure

- Perform "CONSULT-II SETTING PROCEDURE". Refer to <u>WT-20, "CONSULT-II SETTING PROCEDURE"</u>.
- Touch "DATA MONITOR".
- Select from "SELECT MONITOR ITEM", screen of data monitor mode is displayed.

NOTE:

When malfunction is detected, CONSULT-II performs REAL-TIME DIAGNOSIS. Also, any malfunction detected while in this mode will be displayed at real time.

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Display item List

x: Standard -: Not applicable

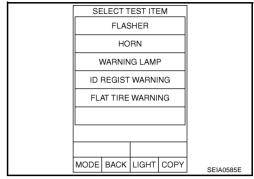
	Monitor ite	em selection		
Monitored item (Unit)	MAIN SIGNALS	SELECTION FROM MENU	Remarks	
VHCL SPEED SE [km/h] or [mph]	×	×	Vehicle speed is displayed.	
AIR PRESS FL [kpa] or [psi]	×	×	Senses the front LH tire pressure is displayed.	
AIR PRESS FR [kPa] or [psi]	×	×	Senses the front RH tire pressure is displayed.	
AIR PRESS RR [kpa] or [psi]	×	×	Senses the rear RH tire pressure is displayed.	
AIR PRESS RL [kpa] or [psi]	×	×	Senses the rear LH tire pressure is displayed.	
ID REGST FL 1 [DONE/YET]	×	×	Registration status of front LH ID is displayed.	
ID REGST FR 1 [DONE/YET]	×	×	Registration status of front RH ID is displayed.	
ID REGST RR 1 [DONE/YET]	×	×	Registration status of rear RH ID is displayed.	
ID REGST RL 1 [DONE/YET]	×	×	Registration status of rear LH ID is displayed.	
WARNING LAMP [ON/OFF]	×	×	Control status of low pressure warning lamp is displayed.	
BUZZER [ON/OFF]	×	×	Control status of buzzer in combination meter is displayed.	
Voltage [V]	_	×	The value measured by the voltage probe is displayed.	
Frequency [Hz]	_	×		
DUTY-HI (high) [%]	_	×		
DUTY-LOW (low) [%]	_	×	The value measured by the pulse probe is displayed.	
PLS WIDTH-HI [msec]	_	×		
PLS WIDTH-LOW [msec]	_	×		

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ACTIVE TEST MODE

Operation Procedure

- 1. Perform CONSULT-II SETTING PROCEDURE. Refer to <u>WT-20</u>, "CONSULT-II SETTING PROCEDURE".
- 2. Touch "ACTIVE TEST".
- Select from "SELECT TEST ITEM", screen of active test mode is displayed.



Test Item

Test item	Content
FLASHER	This test is able to check to make sure that each turn signal lamp turns on.
HORN	This test is able to check to make sure that the horn sounds.
WARNING LAMP	This test is able to check to make sure that the warning lamp turns on.
ID REGIST WARNING	This test is able to check to make sure that the buzzer sounds or the warning lamp turns on.
FLAT TIRE WARNING	This test is able to check to make sure that the buzzer sounds or the warning lamp turns on.

Self-Diagnostic Procedure

(R) SELF-DIAGNOSTIC PROCEDURE (WITH CONSULT-II)

Refer to WT-21, "SELF-DIAG RESULT MODE".

⊗ SELF-DIAGNOSTIC PROCEDURE (WITHOUT CONSULT-II)

Description

The low tire pressure warning lamp in the combination meter will flicker according to the self-diagnostic results. As for the details of the low tire pressure warning lamp flickering patterns, refer to WT-25, "Diagnostic Procedure".

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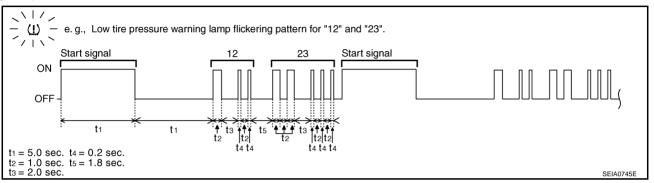
Diagnostic Procedure

- 1. Start the engine.
- 2. Perform the following procedures to enter the corresponding signals.
- a. Ground the tire pressure warning check switch harness connector terminal 1 for more than 5 seconds.
- b. Read the flickering of low tire pressure warning lamp. Refer to <u>WT-25, "Judgement Self-diagnosis"</u> . **NOTE:**

When the low tire pressure warning lamp flashes 5 Hz and continues repeating it, the system is normal.

Judgement Self-diagnosis

When a malfunction is detected, the malfunction route is indicated by flickering of the low tire pressure warning lamp.



NOTE:

When the low tire pressure warning lamp flashes 5 Hz and continues repeating it, the system is normal.

Flickering pattern	Items	Diagnostic item is detected when	Check item
15	Tire pressure value (front LH)	Front LH tire pressure drops to 186 kPa (1.86 kg/cm ² , 27 psi) or less	
16	Tire pressure value (front RH)	Front RH tire pressure drops to 186 kPa (1.86 kg/cm ² , 27 psi) or less	WT-31, "Inspections Before Trou-
17	Tire pressure value (rear RH)	Rear RH tire pressure drops to 186 kPa (1.86 kg/cm ² , 27 psi) or less	ble Diagnosis"
18	Tire pressure value (rear LH)	Rear LH tire pressure drops to 186 kPa (1.86 kg/cm ² , 27 psi) or less	
21	Transmitter no data (front LH)	Data from front LH transmitter cannot be received.	
22	Transmitter no data (front RH)	Data from front RH transmitter cannot be received.	WT-32, "DTC C1708, C1709,
23	Transmitter no data (rear RH)	Data from rear RH transmitter cannot be received.	C1710, C1711 [NO DATA]"
24	Transmitter no data (rear LH)	Data from rear LH transmitter cannot be received.	
31	Transmitter checksum error (front LH)	Checksum data from front LH transmitter is malfunctioning.	
32	Transmitter checksum error (front RH)	Checksum data from front RH transmitter is malfunctioning.	WT-35, "DTC C1712, C1713, C1714, C1715
33	Transmitter checksum error (rear RH)	Checksum data from rear RH transmitter is malfunctioning.	[CHECKSUM ERR]"
34	Transmitter checksum error (rear LH)	Checksum data from rear LH transmitter is malfunctioning.	

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Flickering pattern	Items	Diagnostic item is detected when	Check item
35	Transmitter pressure data error (front LH)	Air pressure data from front LH transmitter is malfunction.	
36	Transmitter pressure data error (front RH)	Air pressure data from front RH transmitter is malfunction.	<u>WT-38, "DTC</u> <u>C1716, C1717,</u> C1718, C1719
37	Transmitter pressure data error (rear RH)	Air pressure data from rear RH transmitter is malfunction.	[PRESSDATA ERR]"
38	Transmitter pressure data error (rear LH)	Air pressure data from rear LH transmitter is malfunction.	
41	Transmitter function code error (front LH)	Function code data from front LH transmitter is malfunctioning.	
42	Transmitter function code error (front RH)	Function code data from front RH transmitter is malfunctioning.	<u>WT-39, "DTC</u> <u>C1720, C1721,</u>
43	Transmitter function code error (rear RH)	Function code data from rear RH transmitter is malfunctioning.	C1722, C1723 [CODE ERR]"
44	Transmitter function code error (rear LH)	Function code data from rear LH transmitter is malfunctioning.	
45	Transmitter battery voltage low (front LH)	Battery voltage of front LH transmitter drops.	
46	Transmitter battery voltage low (front RH)	Battery voltage of front RH transmitter drops.	<u>WT-42, "DTC</u> <u>C1724, C1725,</u>
47	Transmitter battery voltage low (rear RH)	Battery voltage of rear RH transmitter drops.	<u>C1726, C1727</u> [BATT VOLT LOW]"
48	Transmitter battery voltage low (rear LH)	Battery voltage of rear LH transmitter drops.	
52	Vehicle speed signal error	Speed signal is not detected.	WT-45, "DTC C1729 VHCL SPEED SIG ERR"
No flickering	Tire pressure warning check switch	Tire pressure warning check switch circuit is open.	_

ERASE SELF-DIAGNOSIS

- In order to make it easier to find the cause of hard-to-duplicate malfunctions, malfunction information is stored into the control unit as necessary during use by the user. This memory is not erased no matter how many times the ignition switch is turned "ON" and "OFF".
- However, this information is erased by turning ignition switch "OFF" after performing self-diagnostics or by erasing the memory using the CONSULT-II. Refer to WT-23, "How to Erase Self-diagnostic Results".

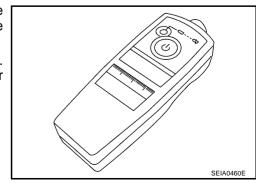
ID Registration Procedure ID REGISTRATION WITH TRANSMITTER ACTIVATION TOOL

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CAUTION:

This procedure must be done after replacement of a transmitter, BCM, or rotating wheels.

- Perform "CONSULT-II SETTING PROCEDURE". Refer to <u>WT-20, "CONSULT-II SETTING PROCE-DURE"</u>.
- Touch "WORK SUPPORT" on "SELECT DIAG MODE" screen, and select "ID REGIST".
- With the transmitter activation tool (J-45295) pushed against the front-left transmitter position of the air valve, press and hold the button for 5 seconds.
- Register the IDs in order from FR LH, FR RH, RR RH, to RR LH. When ID registration of each wheel has been completed, buzzer sounds and turn signal lamp blinks.



Activ	Activation tire position Buzzer		Turn signal lamp	CONSULT-II
1	Front LH	Once		
2	Front RH	2 times	2 times flashing	"YET" ↓ "DONE"
3	Rear RH	3 times	2 times hashing	
4	Rear LH	4 times		

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

NOTE:

Be sure to register 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

CAUTION:

This procedure must be done after replacement of a transmitter, BCM, or rotating wheels.

- 1. Perform "CONSULT-II SETTING PROCEDURE". Refer to WT-20, "CONSULT-II SETTING PROCEDURE".
- 2. Touch "WORK SUPPORT" on "SELECT DIAG MODE" screen, and select "ID REGIST".
- 3. Adjust the tire pressure to the values shown in the table below for ID registration, and drive the vehicle at 40 km/h (25 MPH) or more for several minutes.

NOTE:

If ID registration is unable, buzzer beeps.

Tire position	Tire pressure kPa (kg/cm ² , psi)
Front LH	240 (2.4, 34)
Front RH	220 (2.2, 31)
Rear RH	200 (2.0, 29)
Rear RH	180 (1.8, 26)

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

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

5. Inflate all tires to proper pressure. Refer to WT-56, "Tire".

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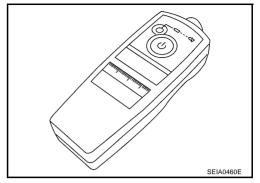
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Transmitter Wake Up Operation WITH ACTIVATION TOOL

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- 1. With the transmitter activation tool (J-45295) pushed against the front-left transmitter, press and hold the button for 5 seconds.
 - When ignition switch ON, and then low tire pressure warning lamp blinks as per the following diagram, the respective then transmitter must be wake up.



Low tire pressure warning lamp blinking timing		Activation tire position
ON a b	a : 0.3 sec. b : 1.3 sec.	Front LH
ON a a b	a : 0.3 sec. b : 1.3 sec.	Front RH
ON a a a a b	a : 0.3 sec. b : 1.3 sec.	Rear RH
ON a a a a a b	a : 0.3 sec. b : 1.3 sec.	Rear LH
ON a b	a : 2 sec. b : 0.2 sec.	All tires

SEIA0762E

- 2. Register the ID of wheel that warning lamp flashes. When wake up of registered wheel has been completed, turn signal lamp flashes two times.
- 3. After completing wake up all transmitters, make sure low tire pressure warning lamp goes out.

Trouble Diagnosis Chart for Symptoms If low tire pressure warning lamp turns ON, perform self-diagnosis. Refer to WT-24, "Self-Diagnostic Procedure".

NES000E3

Symptom	Condition	Check item	Reference page	
Low tire pressure warning lamp does not		CAN communication line		
turn ON for approx.1 second when ignition	Ignition ON	Combination meter	<u>WT-46</u>	
switch is turned ON.		ВСМ		
		ID registration		
Low tire pressure warning lamp stays ON when ignition switch is turned ON.	Engine running	Power supply and ground for BCM	<u>WT-47</u>	
when ignition switch is turned ON.		ВСМ		
Low tire pressure warning lamp blinks when	ON Engine running When Ignition ON	BCM connector or circuit	<u>WT-49</u>	
ignition switch is turned ON.		ВСМ		
Turn signal lamp blinks when ignition switch	L. W. ON	BCM connector or circuit	<u>WT-50</u>	
is turned ON.	Ignition ON	ВСМ		
		Transmitter		
ID registration cannot be completed.		Remote keyless entry receiver connector or circuit		
	Engine running	Remote keyless entry receiver	<u>WT-50</u>	
		BCM connector or circuit		
		BCM	†	

Diagnosis Item	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
	Warning light comes on immediately and turns off after 1 second.	ON 1 sec > stays OFF SEIA0592E	All wheel transmitters are "activated" (working).	None (system OK)
	Warning light blinks on for 2 seconds, then turns off for 0.2 seconds-repeats.	ON 2 sec > OFF 0.2 sec	All wheel transmitters are not activated.	Activate all wheel transmitters. Refer to WT-28, "Transmitter Wake Up Operation".
Low tire pressure warning lamp	Warning light blinks 1 time.	Blinks 1 time ON 0.3 sec > OFF 1.0 sec PEIA0073E	Front LH wheel transmitter is not activated.	Activate front LH wheel transmitter. Refer to WT-28, "Transmitter Wake Up Operation".
	Warning light blinks 2 times.	Blinks 2 times ON 0.3 sec > OFF 0.3 sec SEIA0595E	Front RH wheel transmitter is not activated.	Activate front RH wheel transmitter. Refer to WT-28, "Transmitter Wake Up Operation".
	Warning light blinks 3 times.	Blinks 3 times ON 0.3 sec > OFF 0.3 sec	Rear RH wheel transmitter is not activated.	Activate rear RH wheel transmitter. Refer to WT-28, "Transmitter Wake Up Operation".

Diagnosis Item	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
	Warning light blinks 4 times.	Blinks 4 times ON 0.3 sec > OFF 0.3 sec SEIA0597E	Rear LH wheel transmitter is not activated.	Activate rear LH wheel transmitter. Refer to <u>WT-28</u> , <u>"Transmitter Wake Up Operation"</u> .
Low tire pres-			Tire pressure is low.	Check tire pressure with CONSULT-II. Refer to WT-23. "DATA MONITOR MODE".
sure warning lamp		$\mathcal{P} lacksquare$	The fuse for combination meter from battery is pulled out.	Check the fuse for combination meter from battery. Install or replace (if needed).
	Warning light comes on and does not turn off.	Comes ON and stays ON	BCM connector pulled out.	Check BCM connector. Reconnect if needed.
			Low tire pressure or low tire pressure	Perform CONSULT-II Self- Diagnosis. Refer to WT-21, "SELF-DIAG RESULT MODE".
			warning system mal- function.	 Perform ID Registration if needed. Refer to <u>WT-26</u>. <u>"ID Registration Proce-dure"</u>.
			1. Tool J-45295 (special service tool) battery low.	1. Install new battery.
Turn signal	Turn signal lamp does not flash 2		Ignition OFF during activation.	2. Make sure ignition is ON during activation.
lamp	times or buzzer does not sound after trans- mitter activation.		3. Tool J-45295 (special service tool) not positioned correctly.	3. Position tool correctly during activation.
			Transmitters already activated.	4. None

NOTE:

If more than one wheel transmitter is NOT activated, the warning light blinking patterns for those wheels will combine. (Example: one blink/"OFF"/three blinks = Rear LH and Rear RH transmitters are not activated.)

Inspections Before Trouble Diagnosis NES000F4 DIAGNOSTIC PROCEDURE Α 1. CHECK ALL TIRE PRESSURES В Check all tire pressures. Refer to WT-56, "Tire". OK or NG OK >> GO TO 2. NG >> Check the condition of wheels (flat tire etc.). Then, adjust tire pressure to the specified value. 2. CHECK LOW TIRE PRESSURE WARNING LAMP D Turn ignition switch "OFF". Check low tire pressure warning lamp "ON" for approx. 1 second when turned ignition switch "ON". Dose low tire pressure warning lamp "ON" for approx. 1 second? WT YES >> GO TO 3. NO >> GO to WT-46, "Low Tire Pressure Warning Lamp Does Not Turn ON for Approx.1 Second When Ignition Switch Is Turned ON". F 3. CHECK CONNECTOR Disconnect BCM harness connectors. Check BCM pin terminals for damage or loose connection with harness connector. OK or NG Н OK >> GO TO 4. NG >> Repair or replace damaged parts. 4. CHECK DTC Drive at a speed of 40 km/h (25 MPH) or more for several minutes without stopping after perform self-diagnosis. Refer to WT-24, "Self-Diagnostic Procedure". OK or NG OK >> INSPECTION END NG >> Perform the self-diagnosis, inspect detected malfunction.

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TROUBLE DIAGNOSIS FOR SYSTEM DTC C1708, C1709, C1710, C1711 [NO DATA]

PFP:00000

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• Flickering pattern for 21, 22, 23 or 24

CONSULT-II REFERENCE VALUE IN DATA MONITOR MODE

Data are reference value.

Monitored item	Content	Condition	Display value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS FL [kPa], [kg/cm ²] or [psi]	Condition of front LH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS FR [kPa], [kg/cm ²] or [psi]	Condition of front RH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS RR [kPa], [kg/cm ²] or [psi]	Condition of rear LH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
AIR PRESS RL [kPa], Condition of rear RH tire air pressure		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value	

BCM TERMINALS AND REFERENCE VALUE

Data are reference value and are measured between each terminal and ground.

Terminal	Wire color	Item	Condition	Data (Approx.)
18	Р	Remote keyless entry receiver (Ground)	Always	0 V
19	Y	Remote keyless entry receiver	Stand-by	(V) 6 4 2 0 •• 0.2s OCC3879D
10	'	(Power supply)	Press any of the keyfob switches	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Terminal	Wire color	Item	С	ondition	Data (Approx.)	А
				Stand-by	(V) 6 4 2 0	В
20	ı	Remote keyless entry receiver	Ignition switch: ON		+ + 0.2s OCC3881D	С
20	L	L receiver (Signal)	ignition switch. On	Press any of the keyfob	(V) 6 4 2	D
				switches	+ 0.2s OCC3880D	WT

CAUTION:

When using circuit tester or oscilloscope to measure voltage for inspection, be sure not to extend forcibly any connector terminals.

DIAGNOSTIC PROCEDURE

1. CHECK AIR PRESSURE SIGNAL

(P) With CONSULT-II

- 1. Start engine.
- 2. Select "DATA MONITOR" mode for "AIR PRESSURE MONITOR" with CONSULT-II.
- 3. Read out the value of "AIR PRESS FL", "AIR PRESS FR", "AIR PRSEE RR" and "AIR PRESS RL".

Monitored item	Condition	Display value
AIR PRESS FL		Approximately
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH)	equal to the indication on
AIR PRESS RR	or more for several minutes.	vehicle informa-
AIR PRESS RL		tion display

	MONITOR
alue	AIR PRESS FL
ately	AIR PRESS FR
the	AIR PRESS RR
	AIR PRESS RL
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DATA MONITOR

NO DTO

0 kPa

0 kPa

0 kPa

0 kPa

Are all tire pressures displayed 0 kPa?

YES >> GO TO 2. NO >> GO TO 4.

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$\overline{2}$. CHECK HARNESS BETWEEN BCM AND REMOTE KEYLESS ENTRY RECEIVER

- 1. Turn ignition switch "OFF".
- 2. Disconnect BCM harness connector and remote keyless entry receiver harness connector.
- Check continuity between the following terminals.
- BCM harness connector M34 terminal 18 and remote keyless entry receiver harness connector M133 terminal 1.
- BCM harness connector M34 terminal 19 and remote keyless entry receiver harness connector M133 terminal 4.
- BCM harness connector M34 terminal 20 and remote keyless entry receiver harness connector M133 terminal 2.

18 - 1 : Continuity should exist.
19 - 4 : Continuity should exist.
20 - 2 : Continuity should exist.

Also check harness for short to ground and short to power.

OK or NG

OK >> GO TO 3.

NG >> Repair or replace damaged parts.

3. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver. Refer to <u>BL-81, "Check Remote Keyless Entry Receiver"</u>.

OK or NG

OK >> Check BCM pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damaged parts.

NG >> Replace the remote keyless entry receiver.

4. CHECK ID REGISTRATION

Perform ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure".

Can ID registration of all transmitters be completed?

YES >> GO TO 5.

NO >> GO TO 6 after malfunctioning transmitter replacement.

5. CHECK LOW TIRE PRESSURE WARNING SYSTEM

- 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-II "DATA MONITOR" within 15 minutes after vehicle speed becomes 17 km/h (11 MPH).

Does "DATA MONITOR ITEM" displayed the standardized value without turning tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Replace BCM.

6. CHECK ID REGISTRATION

- 1. Perform ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure".
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-II "DATA MONITOR" within 5 minutes.

Does "DATA MONITOR ITEM" displayed the standardized value without turning tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Perform the self-diagnosis, inspect detected malfunction.

Revision: 2006 August WT-34 2006 Murano

DTC C1712, C1713, C1714, C1715 [CHECKSUM ERR]

NES000FA

• Flickering pattern for 31, 32, 33 or 34

AIR PRESS RR [kPa],

AIR PRESS RL [kPa],

[kg/cm²] or [psi]

[kg/cm²] or [psi]

CONSULT-II REFERENCE VALUE IN DATA MONITOR MODE

Data are reference value.			
Monitored item	Content	Condition	Display value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS FL [kPa], [kg/cm ²] or [psi]	Condition of front LH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS FR [kPa], [kg/cm ²] or [psi]	Condition of front RH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value

Just after the engine is started

Just after the engine is started

for several minutes.

for several minutes.

Start engine and drive at 40 km/h (25 MPH) or more

Start engine and drive at 40 km/h (25 MPH) or more

BCM TERMINALS AND REFERENCE VALUE

air pressure

air pressure

Data are reference value and are measured between each terminal and ground.

Condition of rear LH tire

Condition of rear RH tire

Terminal	Wire color	Item	Condition	Data (Approx.)
18	Р	Remote keyless entry receiver (Ground)	Always	0 V
19	Remote keyless entry	Stand-by	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
10	Y	receiver (Power supply)	Press any of the keyfob switches	(V) 6 4 2 0 •• 0.2s

Revision: 2006 August WT-35 2006 Murano

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WT

0 kPa (0 kg/cm², 0 psi)

Approximately equal to

0 kPa (0 kg/cm², 0 psi)

Approximately equal to

the indication on tire

the indication on tire

gauge value

gauge value

F

G

Н

J

K

L

Terminal	Wire color	Item	С	ondition	Data (Approx.)
		Remote keyless entry		Stand-by	(V) 6 4 2 0 •• 0.2s
20	L	receiver (Signal)	Ignition switch: ON	Press any of the keyfob switches	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

CAUTION:

When using circuit tester or oscilloscope to measure voltage for inspection, be sure not to extend forcibly any connector terminals.

DIAGNOSTIC PROCEDURE

1. CHECK ID REGISTRATION

- 1. Perform the ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure".
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-II "DATA MONITOR ITEM" within 5 minutes.
- 3. Perform the self-diagnosis, replace malfunctioning transmitter.
- 4. Perform the ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure".

Can ID registration of all transmitters be completed.

YES >> GO TO 6. NO >> GO TO 2.

2. CHECK AIR PRESSURE SIGNAL

(P) With CONSULT-II

- 1. Start engine.
- 2. Select "DATA MONITOR" mode for "AIR PRESSURE MONITOR" with CONSULT-II.
- 3. Read out the value of "AIR PRESS FL", "AIR PRESS FR", "AIR PRSEE RR" and "AIR PRESS RL".

Monitored item	Condition	Display value
AIR PRESS FL		Approximately
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH)	equal to the indication on
AIR PRESS RR	or more for several minutes.	vehicle informa-
AIR PRESS RL		tion display

DATA MONITOR		
MONITOR	NO DTC	
AIR PRESS FL	0 kPa	
AIR PRESS FR	0 kPa	
AIR PRESS RR	0 kPa	
AIR PRESS RL	0 kPa	
		SEIA0749

Are all tire pressures displayed 0 kPa?

YES >> GO TO 3. NO >> GO TO 5.

3. CHECK HARNESS BETWEEN BCM AND REMOTE KEYLESS ENTRY RECEIVER 1. Turn ignition switch "OFF". 2. Disconnect BCM harness connector and remote keyless entry receiver harness connector. В Check continuity between the following terminals. BCM harness connector M34 terminal 18 and remote keyless entry receiver harness connector M133 terminal 1. BCM harness connector M34 terminal 19 and remote keyless entry receiver harness connector M133 terminal 4. BCM harness connector M34 terminal 20 and remote keyless entry receiver harness connector M133 ter-D minal 2. 18 - 1: Continuity should exist. 19 - 4: Continuity should exist. WT 20 - 2: Continuity should exist. Also check harness for short to ground and short to power. OK or NG OK >> GO TO 4. NG >> Repair or replace damaged parts. 4. CHECK REMOTE KEYLESS ENTRY RECEIVER Check remote keyless entry receiver. Refer to BL-81, "Check Remote Keyless Entry Receiver". Н OK or NG OK >> Check BCM pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damaged parts. NG >> Replace the remote keyless entry receiver. 5. CHECK ID REGISTRATION Perform ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure". Can ID registration of all transmitters be completed? YES >> GO TO 6. NO >> GO TO 7 after malfunctioning transmitter replacement. 6. CHECK LOW TIRE PRESSURE WARNING SYSTEM

- 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-II "DATA MONITOR" within 15 minutes after vehicle speed becomes 17 km/h (11 MPH).

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<u>Does "DATA MONITOR ITEM" displayed the standardized value without turning tire pressure warning lamp ON?</u>

YES >> **INSPECTION END** NO >> Replace BCM.

7. CHECK ID REGISTRATION

- 1. Perform ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure".
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-II "DATA MONITOR" within 5 minutes.

<u>Does "DATA MONITOR ITEM" displayed the standardized value without turning tire pressure warning lamp ON?</u>

YES >> INSPECTION END

NO >> GO TO 2.

Revision: 2006 August WT-37 2006 Murano

DTC C1716, C1717, C1718, C1719 [PRESSDATA ERR]

NES000FB

Flickering pattern for 35, 36, 37 or 38

CONSULT-II REFERENCE VALUE IN DATA MONITOR MODE

Data are reference value.

Monitored item	Content	Condition	Display value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS FL [kPa], [kg/cm ²] or [psi]	Condition of front LH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS FR [kPa], [kg/cm ²] or [psi]	Condition of front RH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS RR [kPa], [kg/cm ²] or [psi]	Condition of rear LH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS RL [kPa], [kg/cm ²] or [psi]	Condition of rear RH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value

DIAGNOSTIC PROCEDURE

1. CHECK TIRE PRESSURE

- 1. Adjust tire pressure to specified value. Refer to WT-56, "Tire".
- 2. Perform the ID registration of all transmitters. Refer to WT-26, "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-II "DATA MONITOR ITEM" within 15 minutes after vehicle speed become 17 km/h (11 MPH).

What is display CONSULT-II "DATA MONITOR ITEM"?

438.60 kPa (4.47 kg/cm², 63.60 psi)>>Replace malfunctioning transmitter.

Other than 438.60 kPa (4.47 kg/cm², 63.60 psi)>>INSPECTION END

2. CHECK LOE TIRE PRESSURE WARNING SYSTEM

- 1. Perform the ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure".
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-II "DATA MONITOR ITEM" within 5 minutes.

Does "DATA MONITOR ITEM" displayed the standardized value without turning tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Perform the self-diagnosis, inspect detected malfunction.

DTC C1720, C1721, C1722, C1723 [CODE ERR]

NES000FE

Flickering pattern for 41, 42, 43 or 44

CONSULT-II REFERENCE VALUE IN DATA MONITOR MODE

Data are reference value.			
Monitored item	Content	Condition	Display value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS FL [kPa], [kg/cm ²] or [psi]	Condition of front LH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS FR [kPa], [kg/cm ²] or [psi]	Condition of front RH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS RR [kPa], [kg/cm ²] or [psi]	Condition of rear LH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire

Just after the engine is started

for several minutes.

Start engine and drive at 40 km/h (25 MPH) or more

BCM TERMINALS AND REFERENCE VALUE

air pressure

AIR PRESS RL [kPa],

[kg/cm²] or [psi]

Data are reference value and are measured between each terminal and ground.

Condition of rear RH tire

Terminal	Wire color	Item	Condition	Data (Approx.)
18	Р	Remote keyless entry receiver (Ground)	Always	0 V
19	Y	Remote keyless entry	Stand-by	(V) 4 2 0 • • • 0.2s
	9 Y receiver (Power supply)	Press any of the keyfob switches	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

WT-39 Revision: 2006 August 2006 Murano Α

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WT

gauge value

gauge value

0 kPa (0 kg/cm², 0 psi)

Approximately equal to

the indication on tire

Н

Terminal	Wire color	Item	С	ondition	Data (Approx.)
		Remote keyless entry		Stand-by	(V) 6 4 2 0 •• 0.2s
20	L	receiver (Signal)	Ignition switch: ON	Press any of the keyfob switches	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

CAUTION:

When using circuit tester or oscilloscope to measure voltage for inspection, be sure not to extend forcibly any connector terminals.

DIAGNOSTIC PROCEDURE

1. CHECK ID REGISTRATION

- 1. Perform the ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure".
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-II "DATA MONITOR ITEM" within 5 minutes.
- Perform the self-diagnosis, replace malfunctioning transmitter.
- 4. Perform the ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure".

Can ID registration of all transmitters be completed.

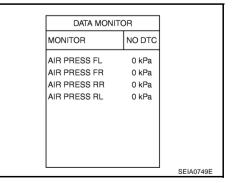
YES >> GO TO 6. NO >> GO TO 2.

2. CHECK AIR PRESSURE SIGNAL

(P) With CONSULT-II

- 1. Start engine.
- 2. Select "DATA MONITOR" mode for "AIR PRESSURE MONITOR" with CONSULT-II.
- Read out the value of "AIR PRESS FL", "AIR PRESS FR", "AIR PRSEE RR" and "AIR PRESS RL".

Monitored item	Condition	Display value
AIR PRESS FL		Approximately
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH)	equal to the indication on
AIR PRESS RR	or more for several minutes.	vehicle informa-
AIR PRESS RL		tion display



Are all tire pressures displayed 0 kPa?

YES >> GO TO 3. NO >> GO TO 5.

3. CHECK HARNESS BETWEEN BCM AND REMOTE KEYLESS ENTRY RECEIVER 1. Turn ignition switch "OFF". 2. Disconnect BCM harness connector and remote keyless entry receiver harness connector. В Check continuity between the following terminals. BCM harness connector M34 terminal 18 and remote keyless entry receiver harness connector M133 terminal 1. BCM harness connector M34 terminal 19 and remote keyless entry receiver harness connector M133 terminal 4. BCM harness connector M34 terminal 20 and remote keyless entry receiver harness connector M133 ter-D minal 2. 18 - 1: Continuity should exist. 19 - 4: Continuity should exist. WT 20 - 2: Continuity should exist. Also check harness for short to ground and short to power. OK or NG OK >> GO TO 4. NG >> Repair or replace damaged parts. 4. CHECK REMOTE KEYLESS ENTRY RECEIVER Check remote keyless entry receiver. Refer to BL-81, "Check Remote Keyless Entry Receiver". Н OK or NG OK >> Check BCM pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damaged parts. NG >> Replace the remote keyless entry receiver. 5. CHECK ID REGISTRATION Perform ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure". Can ID registration of all transmitters be completed? YES >> GO TO 6. NO >> GO TO 7 after malfunctioning transmitter replacement. 6. CHECK LOW TIRE PRESSURE WARNING SYSTEM

- 1. Drive at a speed of 40 km/h (25 MPH) or more for several minutes without stopping.
- Check all tire pressures with CONSULT-II "DATA MONITOR" within 15 minutes after vehicle speed becomes 17 km/h (11 MPH).

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<u>Does "DATA MONITOR ITEM" displayed the standardized value without turning tire pressure warning lamp ON?</u>

YES >> INSPECTION END

NO >> Replace BCM.

/. CHECK ID REGISTRATION

- 1. Perform ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure" .
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-II "DATA MONITOR" within 5 minutes.

<u>Does "DATA MONITOR ITEM" displayed the standardized value without turning tire pressure warning lamp ON?</u>

YES >> INSPECTION END

NO >> GO TO 2.

Revision: 2006 August WT-41 2006 Murano

DTC C1724, C1725, C1726, C1727 [BATT VOLT LOW]

NES000FF

Flickering pattern for 45, 46, 47 or 48

CONSULT-II REFERENCE VALUE IN DATA MONITOR MODE

Data are reference value.

Monitored item	Content	Condition	Display value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS FL [kPa], [kg/cm ²] or [psi]	Condition of front LH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS FR [kPa], [kg/cm ²] or [psi]	Condition of front RH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS RR [kPa], [kg/cm ²] or [psi]	Condition of rear LH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value
		Just after the engine is started	0 kPa (0 kg/cm ² , 0 psi)
AIR PRESS RL [kPa], [kg/cm ²] or [psi]	Condition of rear RH tire air pressure	Start engine and drive at 40 km/h (25 MPH) or more for several minutes.	Approximately equal to the indication on tire gauge value

BCM TERMINALS AND REFERENCE VALUE

Data are reference value and are measured between each terminal and ground.

Terminal	Wire color	Item	Condition	Data (Approx.)
18	Р	Remote keyless entry receiver (Ground)	Always	0 V
19	Y	Remote keyless entry receiver	Stand-by	(V) 6 4 2 0 •• 0.2s OCC3879D
10	'	(Power supply)	Press any of the keyfob switches	(V) 6 4 2 0 ••• 0.2s OCC3882D

Terminal	Wire color	Item	С	ondition	Data (Approx.)
00		Remote keyless entry		Stand-by	(V) 6 4 2 0 + 0.2s
20	L receiver (Signal)	Ignition switch: ON	Press any of the keyfob	(V) 6 4 2	
				switches	+ + 0.2s

CAUTION:

When using circuit tester or oscilloscope to measure voltage for inspection, be sure not to extend forcibly any connector terminals.

DIAGNOSTIC PROCEDURE

1. CHECK ID REGISTRATION

- 1. Perform the ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure" .
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-II "DATA MONITOR ITEM" within 5 minutes.
- 3. Perform the self-diagnosis, replace malfunctioning transmitter.
- 4. Perform the ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure".

Can ID registration of all transmitters be completed.

YES >> GO TO 6. NO >> GO TO 2.

2. CHECK AIR PRESSURE SIGNAL

(P) With CONSULT-II

- 1. Start engine.
- 2. Select "DATA MONITOR" mode for "AIR PRESSURE MONITOR" with CONSULT-II.
- 3. Read out the value of "AIR PRESS FL", "AIR PRESS FR", "AIR PRESE RR" and "AIR PRESS RL".

Monitored item	Condition	Display value
AIR PRESS FL		Approximately
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH)	equal to the indication on
AIR PRESS RR	or more for several minutes.	vehicle informa-
AIR PRESS RL		tion display

Are all tire pressures displayed 0 kPa?

YES >> GO TO 3. NO >> GO TO 5.

DATA MONI	TOR
MONITOR	NO DTC
AIR PRESS FL	0 kPa
AIR PRESS FR	0 kPa
AIR PRESS RR	0 kPa
AIR PRESS RL	0 kPa

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$\overline{3.}$ Check harness between BCM and remote keyless entry receiver

- 1. Turn ignition switch "OFF".
- 2. Disconnect BCM harness connector and remote keyless entry receiver harness connector.
- 3. Check continuity between the following terminals.
- BCM harness connector M34 terminal 18 and remote keyless entry receiver harness connector M133 terminal 1.
- BCM harness connector M34 terminal 19 and remote keyless entry receiver harness connector M133 terminal 4.
- BCM harness connector M34 terminal 20 and remote keyless entry receiver harness connector M133 terminal 2.

18 - 1 : Continuity should exist.
19 - 4 : Continuity should exist.
20 - 2 : Continuity should exist.

Also check harness for short to ground and short to power.

OK or NG

OK >> GO TO 4.

NG >> Repair or replace damaged parts.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver. Refer to BL-81, "Check Remote Keyless Entry Receiver" .

OK or NG

OK >> Check BCM pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damaged parts.

NG >> Replace the remote keyless entry receiver.

5. CHECK ID REGISTRATION

Perform ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure".

Can ID registration of all transmitters be completed?

YES >> GO TO 6.

NO >> GO TO 7 after malfunctioning transmitter replacement.

6. CHECK LOW TIRE PRESSURE WARNING SYSTEM

- 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-II "DATA MONITOR" within 15 minutes after vehicle speed becomes 17 km/h (11 MPH).

Does "DATA MONITOR ITEM" displayed the standardized value without turning tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Replace BCM.

/. CHECK ID REGISTRATION

- Perform ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure".
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-II "DATA MONITOR" within 5 minutes.

Does "DATA MONITOR ITEM" displayed the standardized value without turning tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> GO TO 2.

DTC C1729 VHCL SPEED SIG ERR

NES000FC

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Flickering pattern for 52

CONSULT-II REFERENCE VALUE IN DATA MONITOR MODE

Data are reference value	Data	are	reference	value
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Monitored item	Content	Condition	Display value
		Vehicle stopped	0 km/h (0 MPH)
VHCL SPEED SE [km/h] or [mph]	Wheel speed	Vehicle running CAUTION: Check air pressure of tire under standard condition.	Approximately equal to the indication on speedometer (Inside of ±10%)

DIAGNOSTIC PROCEDURE

1. CHECK SELF-DIAGNOSTIC RESULTS

1. Turn ignition switch OFF.

- 2. Connect CONSULT-II and CONSULT-II CONVERTER to the data link connector.
- 3. Turn the ignition switch ON.
- 4. Touch "START (NISSAN BASED VHCL)".
- 5. Touch "BCM" on "SELECT SYSTEM" screen.

NOTE:

If "BCM" is not indicated, go to Refer to GI-39, "CONSULT-II Data Link Connector (DLC) Circuit".

- 6. Touch "BCM C/U" on "SELECT SYSTEM" screen.
- 7. Touch "SELF-DIAG RESULTS" on "SELECT DIAG MODE" screen.
- 8. Check display contents in self-diagnostic results.

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

- YES >> Perform trouble diagnosis for CAN communication system. GO TO <u>LAN-3</u>, "<u>Precautions When Using CONSULT-II"</u>.
- NO >> Check combination meter refer to DI-18, "Vehicle Speed Signal Inspection".

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TROUBLE DIAGNOSIS FOR SYMPTOMS

PFP:00007

Low Tire Pressure Warning Lamp Does Not Turn ON for Approx.1 Second When Ignition Switch Is Turned ON NESSOURCE DIAGNOSTIC PROCEDURE

1. CHECK DTC WITH BCM

- 1. Turn ignition switch "OFF".
- 2. Connect CONSULT-II and CONSULT-II CONVERTER to the data link connector.
- 3. Turn the ignition switch "ON". (Do not start engine)
- 4. Touch "START (NISSAN BASED VHCL)".
- 5. Touch "BCM" on "SELECT SYSTEM" screen. If the "BCM" is not indicated, go to GI-39, "CONSULT-II Data Link Connector (DLC) Circuit".
- 6. Touch "BCM C/U" on "SELECT SYSTEM" screen.
- 7. Touch "SELF-DIAG RESULTS" on "SELECT DIAG MODE" screen.
- 8. Check display contents in self-diagnostic results.

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

YES >> Perform trouble diagnosis for CAN communication system. GO TO <u>LAN-3</u>, "<u>Precautions When Using CONSULT-II"</u>.

NO >> GO TO 2.

2. CHECK COMBINATION METER

Check combination meter function. Refer to DI-16, "Trouble Diagnosis" .

OK or NG

OK >> GO TO 3.

NG >> Check combination meter, Refer to DI-15, "Self-Diagnosis Mode of Combination Meter".

3. CHECK LOW TIRE PRESSURE WARNING LAMP

- 1. Turn ignition switch "OFF".
- Disconnect BCM harness connectors.
- 3. Turn ignition switch "ON". (Do not start engine.)

Does low tire pressure warning lamp turn on?

YES >> GO TO 4.

NO >> Check combination meter and repair or replace.

4. CHECK SYMPTOM

Check again.

OK or NG

OK >> INSPECTION END

NG >> GO TO 5.

5. CHECK BCM

Check BCM input/output signal. Refer to WT-18, "BCM Input/Output Signal Reference Values".

OK or NG

OK >> GO TO 4.

NG >> Check BCM pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damaged parts. Replace BCM. Refer to BCS-14, "Removal and Installation of BCM".

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

DIAGNOSTIC PROCEDURE

CHECK SYSTEM FOR BCM

Perform self-diagnosis. Refer to WT-24, "Self-Diagnostic Procedure".

Does self-diagnostic results indicate any malfunctions?

YES >> Perform trouble diagnosis. Refer to WT-21, "SELF-DIAG RESULT MODE" .

NO >> GO TO 2.

2. CHCEK ID REGISTRATION

Perform ID registration all transmitters. Refer to WT-26, "ID Registration Procedure".

Does low tire pressure warning lamp turn OFF?

YES >> INSPECTION END

NO >> GO TO 3.

3. CHECK POWER SUPPLY

Turn ignition switch "OFF".

2. Disconnect BCM harness connector.

Check voltage between BCM harness connector terminals and ground.

Connector	Terminal	Voltage (Approx.)	
M34	38 - Ground	0 V	
M35	42 - Ground	- Battery voltage	
	55 - Ground		

- Turn ignition switch "ON". (Do not start engine.)
- Check voltage between BCM harness connector terminals and ground.

Connector	Terminal	Voltage (Approx.)
M34	38 - Ground	
M35	42 - Ground	Battery voltage
	55 - Ground	

OK or NG

OK >> GO TO 4.

Revision: 2006 August

NG >> Check the following. If any items are damaged, repair or replace damaged parts.

- 50 A fuses [No. F located in the fuse block (J/B)]. Refer to PG-3, "POWER SUPPLY ROUTING CIRCUIT".
- 10 A fuses [No. 1, 18 located in the fuse block (J/B)]. Refer to PG-3, "POWER SUPPLY ROUT-ING CIRCUIT".
- Harness for short or open between battery and BCM harness connector M35 terminals 42 and
- Harness for short or open between ignition switch and BCM harness connector M34 terminal
- Battery and ignition switch. Refer to <u>PG-3, "POWER SUPPLY ROUTING CIRCUIT"</u>.

WT-47

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4. CHECK GROUND CIRCUIT

- 1. Turn ignition switch "OFF".
- 2. Disconnect BCM harness connector.
- Check continuity between BCM harness connector M35 terminal 52.

Continuity should exist.

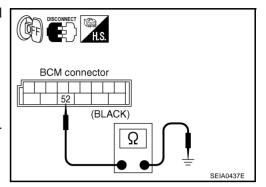
Also check harness for short to power.

OK or NG

OK >> GO TO 5.

NG

>> Repair open circuit or short to power in harness or connectors.



5. CHECK SYMPTOM

Check again.

OK or NG

OK >> INSPECTION END

NG >> GO TO 6.

6. снеск всм

Check BCM input/output signal. Refer to WT-18, "BCM Input/Output Signal Reference Values" .

OK or NG

OK >> GO TO 5.

NG

>> Check BCM pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damaged parts. Replace BCM. Refer to <u>BCS-14</u>, "Removal and Installation of BCM".

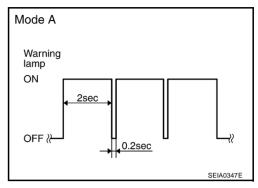
Low Tire Pressure warning Lamp Blinks When Ignition Switch Is Turned ON

SYMPTOM:

If warning lamp blinks below, the system is normal.

Blink Mode A

This mode shows transmitter status is OFF-mode.
 Perform transmitter wake up operation. Refer to <u>WT-28</u>, "<u>Transmitter Wake Up Operation</u>".



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DIAGNOSTIC PROCEDURE

1. CHECK TIRE PRESSURE WARNIG CHECK SWITCH

- 1. Turn ignition switch "OFF".
- 2. Disconnect BCM harness connectors.
- 3. Check continuity between BCM harness connector M34 terminal 15 and ground.

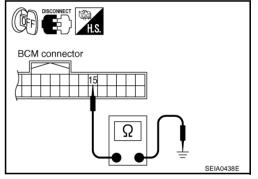
Continuity should not exist.

Also check harness for short to ground.

OK or NG

OK >> GO TO 2.

NG >> Repair short to ground in harness or connector.



2. CHECK SYMPTOM

Check again.

OK or NG

OK >> INSPECTION END

NG >> GO TO 3.

3. СНЕСК ВСМ

Check BCM input/output signal. Refer to $\underline{\text{WT-18}}$, "BCM Input/Output Signal Reference Values" . OK or NG

OK >> GO TO 2.

NG >> Check BCM pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damaged parts. Replace BCM. Refer to BCS-14, "Removal and Installation of BCM".

Turn Signal Lamp Blinks When Ignition Switch Is Turned ON DIAGNOSTIC PROCEDURE

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1. CHECK TIRE PRESSURE WARNING CHECK SWITCH CIRCUIT

- 1. Turn ignition switch "OFF".
- Disconnect BCM harness connector.
- 3. Check continuity between BCM harness connector M34 terminal 15 and ground.

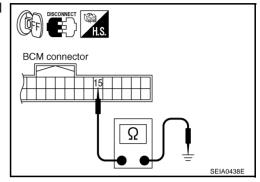
Continuity should not exist.

Also check harness for short to ground.

OK or NG

OK >> GO TO 2.

NG >> Repair short to ground in harness or connector.



2. CHECK SYMPTOM

Check again.

OK or NG

OK >> INSPECTION END

NG >> Check turn signal lamp operation. Refer to <u>LT-114, "System Description"</u>.

ID Registration Cannot Be Completed DIAGNOSTIC PROCEDURE

NES000EI

1. ID REGISTRATION

Perform ID registration of all transmitters. Refer to WT-26, "ID Registration Procedure" .

Can ID registration of all transmitters be completed?

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

2. CHECK SYMPTOM

Check again.

OK or NG

OK >> INSPECTION END

NG >> GO TO 3.

3. CHECK TRANSMITTER CIRCUIT

Perform trouble diagnosis for transmitter circuit. Refer to $\underline{\text{WT-32}}$, $\underline{\text{"TROUBLE DIAGNOSIS FOR SYSTEM"}}$. OK or NG

OK >> INSPECTION END

NG >> GO TO 2.

TRANSMITTER PFP:40700

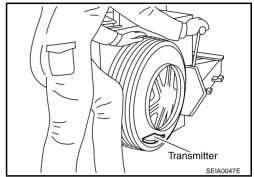
Removal and Installation REMOVAL

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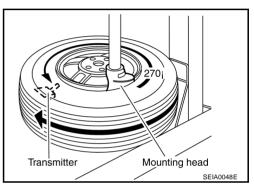
В

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



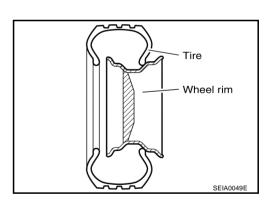
D

- 3. Turn tire so that valve hole is at bottom and bounce so that transmitter is near valve hole. Carefully lift tire onto turntable and position valve hole (and transmitter) 270 degree from mounting/dismounting head.
- 4. Lubricate tire well and remove first side of the tire. Reach inside the tire and remove the transmitter.



INSTALLATION

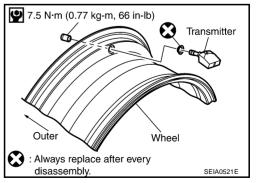
1. Put first side of tire onto rim.



2. Mount transmitter on rim and tighten nut.

CAUTION:

Speed for tightening nut should be less than 40 rpm.



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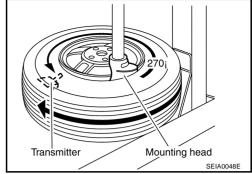
TRANSMITTER

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

NOTE:

Do not touch transmitter at mounting head.

- 4. Lubricate tire well and fit second side of tire as normal. Ensure that tire does not rotate relative to rim.
- 5. Inflate tire and fit to appropriate wheel position.



ROAD WHEEL

ROAD WHEEL PFP:40300

Inspection ALUMINUM WHEEL

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1. Check tires for wear and improper inflation.

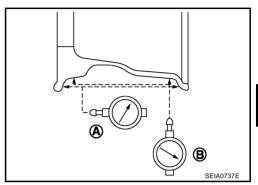
2. Check wheels for deformation, cracks and other damage. If deformed, remove wheel and check wheel runout.

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

Set dial indicator as shown in the illustration.

Lateral runout limit (A) : 0.3 mm (0.012 in) Radial runout limit (B) : 0.3 mm (0.012 in)

c. If the total runout value exceeds the limit, replace aluminum wheel.



STEEL WHEEL (FOR EMERGENCY USE)

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 steel wheel and mount wheel on a tire balance machine.

b. Set two dial indicators as shown in the illustration.

c. Set each dial indicator to "0".

d. Rotate wheel and check dial indicators at several points around the circumference of the wheel.

e. Calculate runout at each point as shown below.

Lateral runout limit (A) : (1+2)/2 Radial runout limit (B) : (3+4)/2

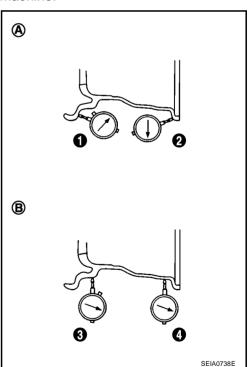
f. Select maximum positive runout value and the maximum negative value. Add the two values to determine total runout.

CALITION:

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

Lateral runout limit (A) : 1.5 mm (0.059 in) Radial runout limit (B) : 1.5 mm (0.059 in)

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



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ROAD WHEEL TIRE ASSEMBLY

ROAD WHEEL TIRE ASSEMBLY

PFP:40300

Balancing Wheels (Bonding Weight Type) REMOVAL

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1. Remove inner and outer balance weights from the road wheel.

CAUTION:

Be careful not to scratch the road wheel during removal.

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

CAUTION:

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

WHEEL BALANCE ADJUSTMENT

- If a tire balance machine has adhesion balance weight mode settings and drive-in weight mode setting, select and adjust a drive-in weight mode suitable for road wheels.
- 1. Set road wheel on wheel balancer using the center hole as a guide. Start the tire balance machine.
- 2. When inner and outer unbalance values are shown on the wheel balancer indicator, multiply outer unbalance value by 5/3 to determine balance weight that should be used. Select the outer balance weight with a value closest to the calculated value above and install 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 road wheel.
- a. Indicated unbalance value \times 5/3 = balance weight to be installed Calculation example:

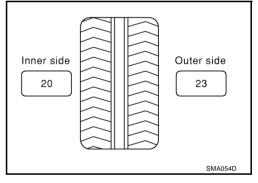
23 g $(0.81 \text{ oz}) \times 5/3 = 38.33$ g (1.35 oz) = 40 g (1.41 oz) balance weight (closer to calculated balance weight value)

NOTE:

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

Example:

37.4 = 35 g (1.23 oz)37.5 = 40 g (1.41 oz)

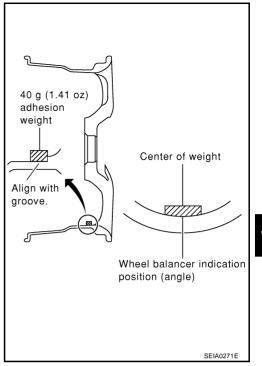


ROAD WHEEL TIRE ASSEMBLY

- b. Install balance weight in the position shown in the figure at left.
- c. When installing balance weight to road wheels, set it into the grooved area on the inner wall of the road wheel as shown in the figure 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 non-reusable; always replace with new ones.
- Do not install more than three sheets of balance weight.



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

CAUTION:

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

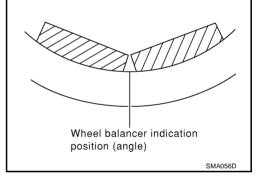
- Start wheel balancer again.
- 4. Install drive-in balance weight on inner side of road wheel in the wheel balancer indication position (angle).

CAUTION:

Do not install more than two balance weights.

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

Wheel balance	Dynamic (At rim flange)	Static
Maximum allowable unbalance	5 g (0.17 oz) (one side)	10 g (0.35 oz)



Tire Rotation NESOUGEX

- 1. Follow the maintenance schedule for tire rotation service intervals. Refer to MA-6, "Introduction of Periodic Maintenance".
- 2. Do not include the spare tire when rotating the tires.
- 3. When installing the wheel, tighten wheel nuts to the specified torque.

Wheel nuts : 108 N·m (11 kg-m, 80 ft-lb)

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.
- 4. Perform the ID registration, after tire rotation. Refer to WT-26, "ID Registration Procedure".

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS) PFP:00030 **Road Wheel** NES000EY Kind of wheel Aluminum Steel (emergency use) Lateral runout limit **Deflection limit** 0.3 mm (0.012 in) 1.5 mm (0.059 in) Radial runout limit Dynamic 5 g (0.17 oz) (per side) or less Allowable quantity of residual (On the ear part) unbalance Static (On the ear part) 10 g (0.35 oz) or less Unit: mm (in) Wheel size Offset $18 \times 7 - 1/2 \text{ JJ}$ 35 (1.38) $18 \times 4T$ 25 (0.98) **Tire** NES000EZ Unit: kPa (kg/cm², psi) Air pressure Tire size Front wheel Rear wheel P235/65R18 104T 230 (2.3, 33) 230 (2.3, 33) T165/90D18 107M 420 (4.2, 60) 420 (4.2, 60)

108 N·m (11 kg-m, 80 ft-lb)

NES000F0

Tightening Torque

Wheel nut