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PRECAUTIONS

PRECAUTIONS PFP:00001

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

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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 Man-

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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 for Battery Service

NES000BK

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

Service Notice or Precautions

ES000CM

 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-22, "How to Erase Self-diagnosis Results", WT-19, "ID Registration Procedure".

- ID registration is required when replacing or rotating wheels, replace transmitter or BCM. Refer to <u>WT-19</u>, <u>"ID Registration Procedure"</u>.
- 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 Special Service Tools The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here. Tool number (Kent-Moore No.) Tool name (J-45295) Transmitter activation tool ID registration

Commercial Service Tools

NES000BM

Tool name		Description
Power tool	PBIC0190E	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.

		1 7				,					,			- 1					
Reference pa	nge		FAX-4, FSU-8	<u>MT-6</u>	<u>MT-7</u>	WT-38	I	I	I	WT-38	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 RAX section.	NVH in BR section.	NVH in PS section.
Possible cause and SUSPECTED PARTS		Improper installation, looseness	Out-of-round	Unbalance	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 WHEELS	DRIVE SHAFT	BRAKE	STEERING	
		Noise	×	×	×	×	×	×	×		×	×	×	×		×	×	×	×
		Shake	×	×	×	×	×	×		×	×		×	×		×	×	×	×
		Vibration				×				×	×		×	×			×		×
	TIRES	Shimmy	×	×	×	×	×	×	×	×			×	×		×		×	×
		Judder	×	×	×	×	×	×		×			×	×		×		×	×
Symptom		Poor quality ride or handling	×	×	×	×	×	×		×			×	×		×			
		Noise	×	×	×			×			×	×	×	×	×		×	×	×
ROAD	Shake	×	×	×			×			×		×	×	×		×	×	×	
	WHEEL	Shimmy, Judder	×	×	×			×					×	×	×			×	×
	Poor quality ride or handling	×	×	×			×					×	×	×					

^{×:} Applicable

ROAD WHEEL

ROAD WHEEL PFP:40300

Inspection ALUMINUM WHEEL

NES00031

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

Wheel runout (Dial indicator value):

Refer to WT-38, "SERVICE DATA AND SPECIFICA-TIONS (SDS)".

STEEL WHEEL

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

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

 Select maximum positive runout value and the maximum negative value.

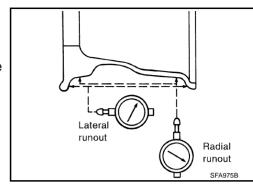
Add the two values to determine total runout.

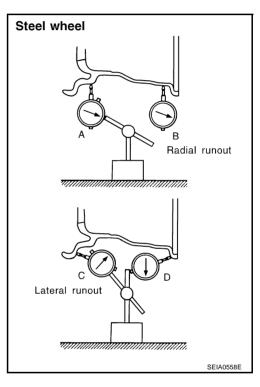
In case a positive or negative value is not available, use the maximum value (negative or positive) for total runout.

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

Wheel runout:

Refer to <u>WT-38</u>, "SERVICE DATA AND SPECIFICA-TIONS (SDS)".





ROAD WHEEL TIRE ASSEMBLY

ROAD WHEEL TIRE ASSEMBLY

PFP:40300

Balancing Wheels (Bonding Weight Type) REMOVAL

NES00032

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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 tire balance machine using the center hole as a guide. Start the tire balance machine.
- 2. When inner and outer unbalance values are shown on the tire balance machine 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.

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

23 g (0.81 oz) \times 5/3 = 38.33 g (1.35 oz) \Rightarrow 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.

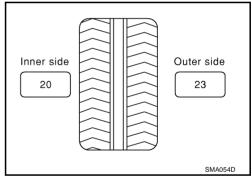
Example:

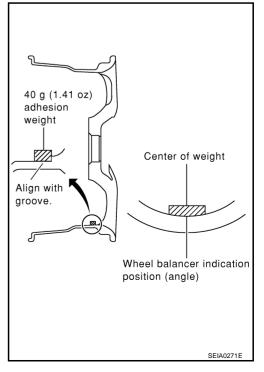
 $37.4 \Rightarrow 35 \text{ g } (1.23 \text{ oz})$ $37.5 \Rightarrow 40 \text{ g } (1.41 \text{ oz})$

- Install balance weight in the position shown in the figure.
- b. 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 tire balance machine indication position (angle).

CAUTION:

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





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ROAD WHEEL TIRE ASSEMBLY

c. 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.

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

CAUTION:

Do not install more than two balance weights.

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

Wheel balance (Maximum allowable unbalance):

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

Tire Rotation NESO0033

Wheel balancer indication

SMA056E

position (angle)

CAUTION:

Do not include the T-type spare tire when rotating the tires.

NOTE

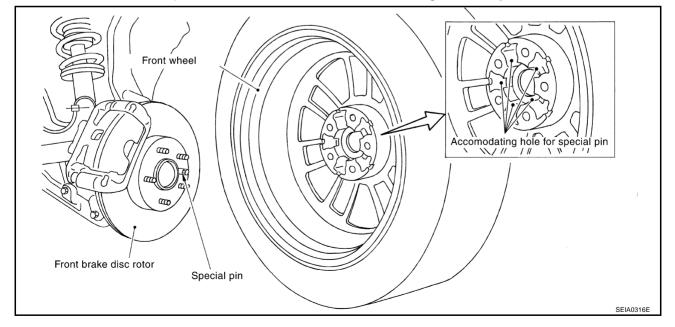
Tire cannot be rotated in vehicle, as front tire are different size from rear tire and the direction of wheel rotation is fixed in each tire.

DESCRIPTION

Safety Device Preventing from Being Incorrectly Installed

Front brake disc rotor and front wheel

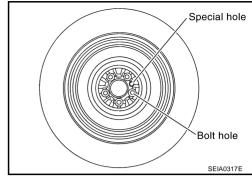
 Front and rear wheel size for this model differs, therefore a special pin has been installed on the front brake disc rotor. To accommodate this pin a hole has been provided on the front wheel (the rear wheel does not have this hole.) and in some case the rear wheel is being mistakenly installed on the front.



ROAD WHEEL TIRE ASSEMBLY

T-type spare tire wheel

 T-type spare tire wheel for this model has a special hole designed to avoid the pin on front disc rotor.



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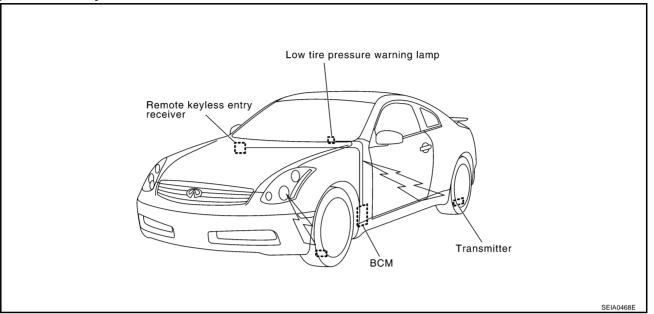
TIRE PRESSURE MONITORING SYSTEM

TIRE PRESSURE MONITORING SYSTEM

PFP:40720

System Components

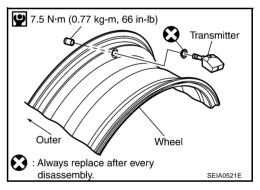
NES00034



System Description TRANSMITTER

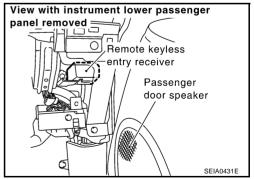
NES00035

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



REMOTE KEYLESS ENTRY RECEIVER

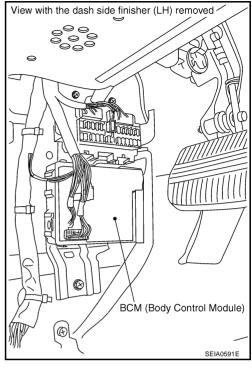
The remote keyless entry receiver receives the air pressure signal transmitted by the transmitter in each wheel.



TIRE PRESSURE MONITORING SYSTEM

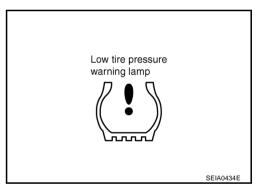
BCM (BODY CONTROL MODULE)

The BCM reads the air pressure signal received by the remote keyless entry receiver, and controls the low tire pressure warning lamp r operations. It also has a judgement function to detect a system malfunction.



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 combination meter low tire pressure warning lamp and buzzer are activated.



Low tire pressure warning lamp indication

Condition	Low tire pressure warning lamp		
Less than 166 kPa (1.7 kg/cm ² , 24 psi) [Note 1]	ON		
Less than 188 kPa (1.9 kg/cm ² , 27 psi) [Note 2]			
Low tire pressure warning system malfunction [Other diagnostic item]	Warning lamp flashes 1 min, then turns ON.		

Note 1: Standard air pressure is for 210 kpa (2.1 kg/cm², 30 psi) vehicles.

Note 2: Standard air pressure is for 240 kpa (2.4 kg/cm², 35 psi) vehicles.

Can Communication SYSTEM DESCRIPTION

NES000BN

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-47, "CAN System Specification Chart".

Revision: 2006 August WT-11 2007 G35 Coupe

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TROUBLE DIAGNOSIS

PFP:00004

How to Perform Trouble Diagnosis BASIC CONCEPT

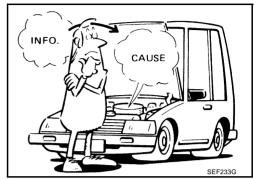
NES000BT

- 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 inspection.

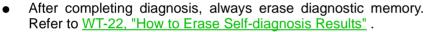
First of all, reproduce symptoms, and understand them fully. Ask customer about his/her complaints carefully. In some cases, it will be necessary to check symptoms by driving vehicle with customer.

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".



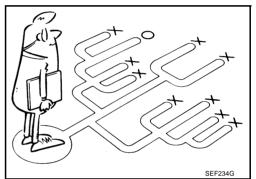
- It is essential to check symptoms right from the beginning in order to repair malfunctions completely.
 - For intermittent malfunctions, reproduce symptoms based on interview with customer and past examples. Do not perform inspection on ad hoc basis. Most intermittent malfunctions are caused by poor 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.



WORK FLOW Α INSPECTION START Reference item В Verify customer complaints. Determine reference item related to the symptom. D Preliminary inspection Preliminary check WT Perform self-diagnosis. Self-diagnosis Check symptom. TROUBLE DIAGNOSIS FOR SYMPTOMS G Repair or replace malfunctioning parts. Н Prior to final checks, turn ignition switch to OFF → ON fol-Perform self-diagnosis. lowing the self-diagnosis to initialize actuator positioning. NG Final check OK **END** SEIA0100E

WT-21

Trouble diagnosis for symptoms:

WT-32

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Preliminary check:

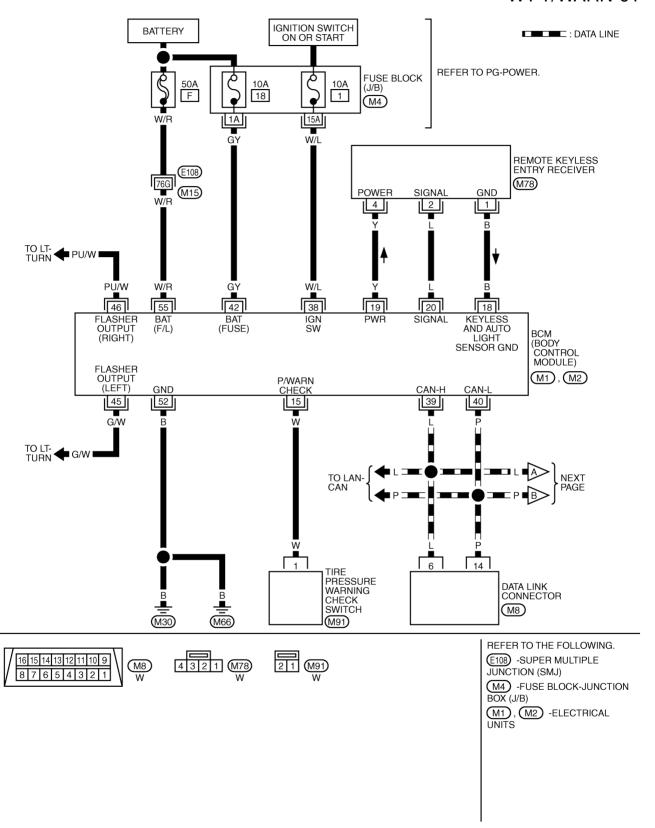
WT-28

Self-diagnosis:

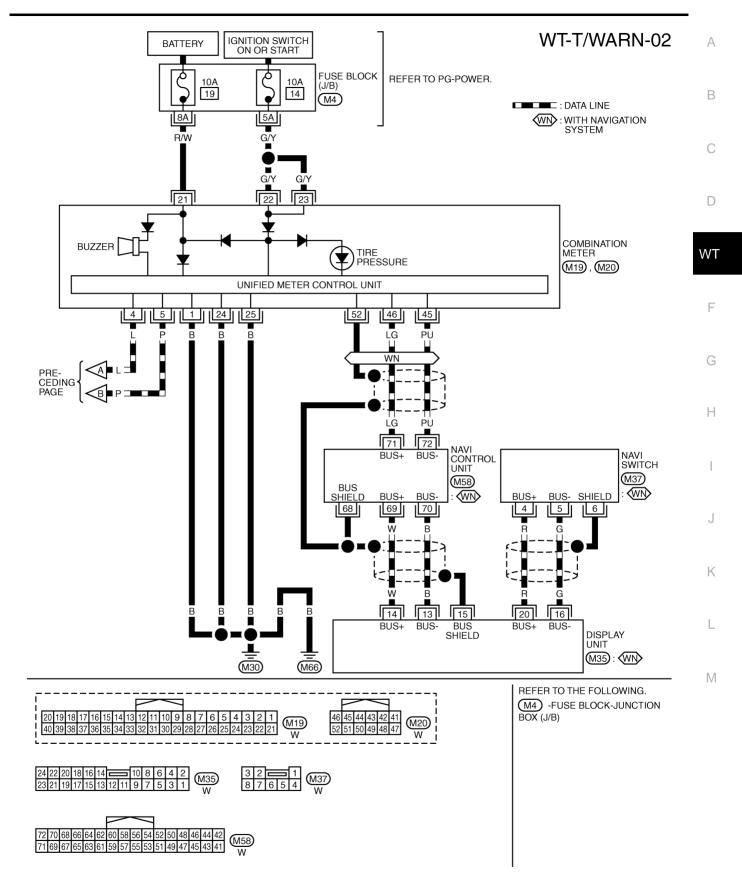
Wiring Diagram — T/WARN —

FS00037

WT-T/WARN-01



TEWM0109E



TEWM0154E

Trouble Diagnosis Chart TROUBLE DIAGNOSIS CHART FOR SYMPTOMS

NES000BU

If low tire pressure warning lamp turns ON, perform self-diagnosis. Refer to WT-21, "SELF-DIAG RESULTS MODE".

Symptom	Check item	Reference page
	CAN communication line	
Warning lamp does not come on when ignition switch is turned on.	Combination meter	<u>WT-32</u>
tarriou ori.	BCM	
	ID registration	
Warning lamp stays on when ignition switch is turned on.	BCM connector or circuit	<u>WT-32</u>
	BCM	
Warning lamp blinks when ignition switch is turned on.	BCM connector or circuit	WT-34
warning lamp blinks when ignition switch is turned on.	BCM	<u> </u>
Turn signal lamp blinks when ignition switch is turned	BCM connector or circuit	WT-35
on.	BCM	<u>W1-55</u>
	Transmitter	
	Remote keyless entry receiver connector or circuit	
ID registration can not be operated.	Remote keyless entry receiver	<u>WT-35</u>
	BCM connector or circuit	
	BCM	

Control Unit Input/Output Signal Standard

NES00038

Standards using a circuit tester and oscilloscope

Terminal (Wire color)	Item	Condition	Voltage (V) Approx. value	В
15 (W)	Tire pressure warning check connector	Always	5 V	
18 (B)	Remote keyless entry receiver (Ground)	_	0 V	С
19 (Y) Remote keyless entry receiver		Stand-by	(V) 6 4 2 0 ••• 0.2s OCC3879D	D W1
	(Power supply)	Press any of the keyfob switches	(V) 6 4 2 0 → 0.2s OCC3882D	F
		Stand-by	(V) 6 4 2 0 ••• 0.2s	H
20 (L)	Remote keyless entry receiver (Signal)	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	K
38 (W/L)	Ignition switch	Ignition switch ON or START	Battery voltage (12 V)	•
39 (L)	Data line (CAN H)	_	_	M
40 (P)	Data line (CAN L)	_	_	•
42 (GY)	Battery power supply (Fuse)	Always	Battery voltage (12 V)	•
45 (G/W)	Turn signal (left)	 Ignition switch ON Combination switch is turn signal (left) ON 	(V) 15 10 500 ms SKIA3009J	

Terminal (Wire color)	ltem	Condition	Voltage (V) Approx. value
46 (PU/W)	Turn signal (right)	 Ignition switch ON Combination switch is turn signal (right) ON 	(V) 15 10 500 ms SKIA3009J
52 (B)	Ground	_	0 V
55 (W/R)	Battery power supply (F/L)	Always	Battery voltage (12 V)

ID Registration Procedure ID REGISTRATION WITH ACTIVATION TOOL

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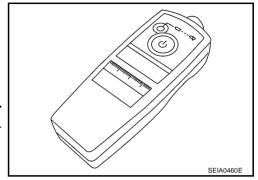
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This procedure must be done after replacement of a transmitter or BCM.

- 1. Perform "CONSULT-II Start Procedure". Refer to GI-37, "CONSULT-II Start Procedure".
- 2. Touch "WORK SUPPORT" on "SELECT DIAG MODE" screen, and select "ID REGIST".
- 3. With the activation tool (J-45295) pushed against the front-left transmitter position of the tire air valve, press the button then keep 5 seconds.
- 4. Register the IDs in order from FR LH, FR RH, RR RH to RR LH. When ID registration of each wheel has been completed, turn signal lamp (LH/ RH) blinks.

_	Ac	tivation tire position	Turn signal lamp	CONSULT-II
	1	Front LH	<u> </u>	
	2	Front RH	2 times flashing	"YET"
	3	Rear RH		"DONE"
	4	Rear LH		



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 ACTIVATION TOOL

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

- 1. Perform "CONSULT-II Start Procedure". Refer to GI-37, "CONSULT-II Start 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 a few minutes.

Tire position	Tire pressure kPa (kg/cm ² , psi)
Front – Left	240 (2.4, 34)
Front – Right	220 (2.2, 31)
Rear – Right	200 (2.0, 29)
Rear – Left	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-38, "SERVICE DATA AND SPECIFICATIONS (SDS)".

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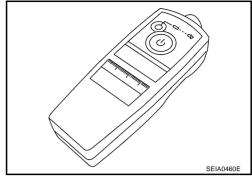
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Transmitter Wake Up Operation WITH ACTIVATION TOOL

NES000BW

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



Warning lamp blinking timing		Need to activation tire position
ON a b	a : 0.3sec b : 1.3sec	Front LH
ON a a b	a : 0.3sec b : 1.3sec	Front RH
ON a a a a b	a : 0.3sec b : 1.3sec	Rear RH
ON a a a a a b	a : 0.3sec b : 1.3sec	Rear LH
ON a b	a : 2sec b : 0.2sec	All tire

SEIA0378E

- 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 of all transmitters, make sure low tire pressure warning lamp goes out.

CONSULT-II Function (BCM) CONSULT-II MAIN FUNCTION

NES000BY

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

BCM diagno- sis part	Mode	Function	Reference
		This mode enables a technician to adjust some devices faster and more accurately by following the indications on CONSULT-II.	WT-20, "WORK SUP- PORT MODE".
Air pressure	SELF-DIAG RESULTS	Self-diagnostic results can be read and erased quickly.	WT-21, "SELF-DIAG RESULTS MODE".
monitor	DATA MONITOR	Input/Output data in the control unit can be read.	WT-22, "DATA MONI- TOR MODE".
	ACTIVE TEST	Diagnostic Test Mode in with CONSULT-II drives some actuators apart from the control unit (BCM) and also shifts some parameters in a specified range.	WT-24, "ACTIVE TEST MODE".

CONSULT-II SETTING PROCEDURE

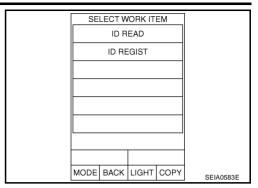
Perform "CONSULT-II Start Procedure". Refer to GI-37, "CONSULT-II Start Procedure" .

WORK SUPPORT MODE

Operation Procedure

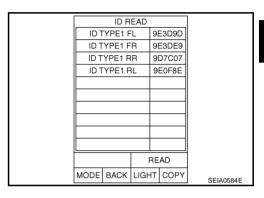
- 1. Perform "CONSULT-II Start Procedure". Refer to GI-37, "CONSULT-II Start Procedure".
- Touch "WORK SUPPORT".

Select from "SELECT WORK ITEM", screen of work support made is displayed



ID Read

The registered ID number is displayed.



ID Regist

Refer to WT-19, "ID Registration Procedure".

SELF-DIAG RESULTS MODE

Operation Procedure

- 1. Perform "CONSULT-II Start Procedure". Refer to GI-37, "CONSULT-II Start Procedure".
- 2. Touch "SELF-DIAG RESULTS". Display shows malfunction experienced since the last erasing operation.

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Display	Item List		
DTC	Diagnostic item	Diagnostic item is detected when ···	Check items
C1704	LOW_PRESSURE_FL	Front-left tire pressure drops to * kPa (* kg/cm² , * psi) or less.	
C1705	LOW_PRESSURE_FR	Front-right tire pressure drops to * kPa (* kg/cm², * psi) or less.	
C1706	LOW_PRESSURE RR	Rear-right tire pressure drops to * kPa (* kg/cm², * psi) or less.	_
C1707	LOW_PRESSURE_RL	Rear-left tire pressure drops to * kPa (* kg/cm², * psi) or less.	
C1708	[NO_DATA]_FL	Data from front-left transmitter cannot be received.	
C1709	[NO_DATA]_FR	Data from front-right transmitter cannot be received.	W/T 20
C1710	[NO_DATA]_RR	Data from rear-right transmitter cannot be received.	<u>WT-29</u>
C1711	[NO_DATA]_RL	Data from rear-left transmitter cannot be received.	
C1712	[CHECKSUM_ERR]_FL	Checksum data from front-left transmitter is malfunctioning.	
C1713	[CHECKSUM_ERR]_FR	Checksum data from front-right transmitter is malfunctioning.	W/T 20
C1714	[CHECKSUM_ERR]_RR Checksum data from rear-right transmitter is malfunctioning.		<u>WT-29</u>
C1715	[CHECKSUM_ERR]_RL	Checksum data from rear-left transmitter is malfunctioning.	
C1716	[PRESSDATA_ERR]_FL	Air pressure data from front-left transmitter is malfunctioning.	
C1717	[PRESSDATA_ERR]_FR	Air pressure data from front-right transmitter is malfunctioning.	W/T 20
C1718	[PRESSDATA_ERR]_RR	Air pressure data from rear-right transmitter is malfunctioning.	<u>WT-30</u>
C1719	[PRESSDATA_ERR]_RL	Air pressure data from rear-left transmitter is malfunctioning.	
C1720	[CODE_ERROR]_FL	Function code data from front-left transmitter is malfunctioning.	
C1721	[CODE_ERROR]_FR	Function code data from front-right transmitter is malfunctioning.	W/T 20
C1722	[CODE_ERROR]_RR	Function code data from rear-right transmitter is malfunctioning.	<u>WT-29</u>
C1723	[CODE_ERROR]_RL	Function code data from rear-left transmitter is malfunctioning.	
C1724	[BATT_VOLT_LOW]_FL	Battery voltage of front-left transmitter drops.	
C1725	[BATT_VOLT_LOW]_FR	Battery voltage of front-right transmitter drops.	WT-29
C1726	26 [BATT_VOLT_LOW]_RR Battery voltage of rear-right transmitter drops.		<u>vv 1-29</u>
C1727	[BATT_VOLT_LOW]_RL	Battery voltage of rear-left transmitter drops.	
C1729	VHCL_SPEED_SIG_ERR	Vehicle speed signal is error.	<u>WT-31</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-II.

*:

- 166 kPa (1.7 kg/cm², 24 psi): Standard air pressure is for 210 kpa (2.1 kg/cm², 30 psi) vehicles.
- 188 kPa (1.9 kg/cm², 27 psi): Standard air pressure is for 240 kpa (2.4 kg/cm², 35 psi) vehicles.

How to Erase Self-diagnosis Results

- 1. Perform application inspection of malfunctioning item and then repair or replace.
- 2. 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.

DATA MONITOR MODE

Operation Procedure

- 1. Perform "CONSULT-II Start Procedure". Refer to GI-37, "CONSULT-II Start Procedure".
- 2. 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.

Display Item List

x: Standard -	 Not applicable
---------------	------------------------------------

	SELECT MC	NITOR ITEM		
Monitor item (Unit)	ALL SIGNALS	SELECTION FROM MENU	Remarks	
VEHICLE SPEED [km/h] or [mph]	×	×	Vehicle speed is displayed.	
AIR PRESS FL [kpa] or [psi]	×	×	Tire pressure is displayed.	
AIR PRESS FR [kPa] or [psi]	×	×	Tire pressure is displayed.	
AIR PRESS RR [kpa] or [psi]	×	×	Tire pressure is displayed.	
AIR PRESS RL [kpa] or [psi]	×	×	Tire pressure is displayed.	
ID REGST FL 1 [DONE/YET]	×	×	Registration ID is displayed.	
ID REGST FR 1 [DONE/YET]	×	×	Registration ID is displayed.	
ID REGST RR 1 [DONE/YET]	×	×	Registration ID is displayed.	
ID REGST RL 1 [DONE/YET]	×	×	Registration ID is displayed.	
WARNING LAMP [ON/OFF]	×	×	Control status of low tire pressure warning lamp is displayed.	
BUZZER [ON/OFF]	×	×	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]	_	×	1	

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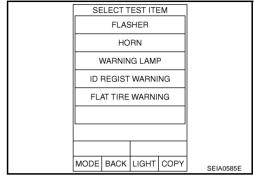
ACTIVE TEST MODE

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.

Operation Procedure

- 1. Perform "CONSULT-II Start Procedure". Refer to GI-37, "CONSULT-II Start Procedure".
- 2. Touch "ACTIVE TEST".
- Select from "SELECT TEST ITEM", screen of active test mode is displayed.



TEST ITEM LIST

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.

Diagnosis Procedure with Warning Lamp Function (Without CONSULT-II) DESCRIPTION

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During driving, the low tire pressure warning system receives the signal transmitted from the transmitter installed in each wheel, and gives alarms 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. Refer to <u>PG-40</u>, "<u>HARNESS</u>".

MALFUNCTION CODE CHART

Reference	Diagnosis item	Code (warning lamp blinks)
	Front-left tire pressure drops to * kPa (* kg/cm² , * psi) or less.	15
	Front-right tire pressure drops to * kPa (* kg/cm², * psi) or less.	16
	Rear-right tire pressure drops to * kPa (* kg/cm², * psi) or less.	17
	Rear-left tire pressure drops to * kPa (* kg/cm², * psi) or less.	18
	Transmitter no data (front - left)	21
WT 00	Transmitter no data (front - right)	22
<u>WT-29</u>	Transmitter no data (rear - right)	23
	Transmitter no data (rear - left)	24
	Transmitter checksum error (front - left)	31
WT 20	Transmitter checksum error (front - right)	32
<u>WT-29</u>	Transmitter checksum error (rear - right)	33
	Transmitter checksum error (rear - left)	34
	Transmitter pressure data error (front - left)	35
WT 20	Transmitter pressure data error (front - right)	36
<u>WT-30</u>	Transmitter pressure data error (rear - right)	37
	Transmitter pressure data error (rear - left)	38
	Transmitter function code error (front - left)	41
WT 00	Transmitter function code error (front - right)	42
<u>WT-29</u>	Transmitter function code error (rear - right)	43
	Transmitter function code error (rear - left)	44
	Transmitter battery voltage low (front - left)	45
WT-29	46 Transmitter battery voltage low (front - right)	
<u>vv1-29</u>	47 Transmitter battery voltage low (rear - right)	
	Transmitter battery voltage low (rear - left)	48
<u>WT-31</u>	Vehicle speed signal	52

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^{• 166} kPa (1.7 kg/cm², 24 psi): Standard air pressure is for 210 kpa (2.1 kg/cm², 30 psi) vehicles.

 ¹⁸⁸ kPa (1.9 kg/cm², 27 psi): Standard air pressure is for 240 kpa (2.4 kg/cm², 35 psi) vehicles.

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 transmit- ters are "activated" (working).	None (system OK)
	Warning light blinks on for 2 seconds, then turns off for 0.2 seconds-repeats.	Blinks: ON 2 sec > OFF 0.2 sec SEIA0593E	All wheel transmitters are not activated.	Activate all wheel transmitters. Refer to WT-20, "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-20, "Transmitter Wake Up Oper ation".
	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-20, "Transmitter Wake Up Oper ation".
	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-20, "Transmitter Wake Up Oper ation".

Diagnosis Item	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action	A
	Warning light blinks 4 times.	Blinks 4 times ON 0.3 sec > OFF 0.3 sec SEIA0597E	Rear LH wheel trans- mitter is not acti- vated.	Activate rear LH wheel transmitter. Refer to WT-20, "Transmitter Wake Up Operation".	E
Low tire pressure warning lamp	Warning light comes on and does not turn off.	Comes ON and stays ON	Tire pressure is low.	Check tire pressure with CONSULT-II. Refer to WT-22. "DATA MONITOR MODE".	W
Warning light blinks on for 0.5 seconds then turns off for 0.5 seconds-repeats for 1 minute, and then		5 seconds as off for 0.5 repeats for and then	The fuse for combination meter from battery is pulled out.	Check the fuse for combination meter from battery. Install or replace (if needed).	F
	5 5		BCM connector pulled out.	Check BCM connector. Reconnect if needed.	(
	then turns off for 0.5 seconds-repeats for		Low tire pressure or low tire pressure	Perform CONSULT-II Self- Diagnosis. Refer to WT-21, "SELF-DIAG RESULTS MODE".	F
	,		warning system mal- function.	Perform ID Registration if needed. Refer to <u>WT-19</u> , <u>"ID Registration Procedure"</u> .	I
			1. Tool J-45295 (special service tool) battery low.	1. Install new battery.	J
Turn signal lamp does not flash 2 times or horn do not sound after	Turn signal lamp	pes not flash 2 nes or horn does ot sound after trans-	2. Ignition OFF during activation.	Make sure ignition is ON during activation.	k
	does not flash 2 times or horn does not sound after trans- mitter activation.		3. Tool J-45295 (special service tool) not positioned correctly.	Position tool correctly during activation.	L
			4. 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.)

Preliminary Check BASIC INSPECTION

NES000CI

1. CHECK ALL TIRE PRESSURES

Check all tire pressures. Refer to <u>WT-38, "SERVICE DATA AND SPECIFICATIONS (SDS)"</u>.

OK or NG

OK >> GO TO 2.

NG >> Adjust tire pressure to specified value.

2. CHECK LOW TIRE PRESSURE WARNING LAMP ACTIVATION

Check low tire pressure warning lamp activation.

Dose low tire pressure warning lamp activate for 1 second when ignition switch is turned "ON"?

YES >> GO TO 3.

NO >> Check fuse and combination meter.

3. CHECK CONNECTOR

- 1. Disconnect BCM harness connectors M90 and M91.
- 2. Check terminals for damage or loose connection.

OK or NG

OK >> GO TO 4.

NG >> Repair or replace damaged parts.

4. CHECK ACTIVATION TOOL

Check activation tool battery.

OK or NG

OK >> Perform self-diagnosis.

NG >> Replace activation tool battery.

TROUBLE DIAGNOSIS FOR SELF-DIAGNOSTIC ITEMS

TROUBLE DIAGNOSIS FOR SELF-DIAGNOSTIC ITEMS PFP:00000 Α Transmitter or Control Unit (BCM) NES0003F **MALFUNCTION CODE NO. 21, 22, 23 OR 24** 1. CHECK CONTROL UNIT В Drive for several minutes. Check all tire pressures with CONSULT-II "DATA MONITOR". Are all tire pressures displayed 0 kPa? >> GO TO 2. YES NO >> GO TO 3. 2. CHECK REMOTE KEYLESS ENTRY RECEIVER CONNECTOR D Disconnect remote keyless entry receiver harness connector M78. WT Check terminals for damage or loose connection. 3. Reconnect harness connector. OK or NG OK >> Replace BCM refer to BCS-16, "Removal and Installation of BCM", then GO TO 3. NG >> Repair or replace remote keyless entry receiver harness connector. 3. ID REGISTRATION Perform ID registration of all transmitters. Are there any tires that ID can not be registered to? Н YES >> Replace transmitter of the tire, then GO TO 5. NO >> GO TO 4 4. VEHICLE DRIVING 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). Does "DATA MONITOR" display tire pressure as normal without any warning lamp? >> INSPECTION END YES K NO >> GO TO 5. 5. ID REGISTRATION AND VEHICLE DRIVING Perform 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. Then check all tire pressures with CONSULT-II "DATA MONITOR" within 5 minutes. Does "DATA MONITOR" display tire pressure as normal without any warning lamp? >> INSPECTION END YES NO >> GO TO the inspection applicable to DTC. Transmitter - 1 NES0003G MALFUNCTION CODE NO. 31, 32, 33, 34, 41, 42, 43, 44, 45, 46, 47 OR 48 1. ID REGISTRATION (CORRECTION OF TRANSMITTER LOCATION) Perform 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.

>> GO TO 2.

TROUBLE DIAGNOSIS FOR SELF-DIAGNOSTIC ITEMS

2. REPLACE TRANSMITTER

- 1. Check low tire pressure warning condition again, and replace malfunctioning transmitter.
- 2. Perform ID registration of all transmitters.

Can ID registration of all transmitters be completed?

YES >> GO TO 3.

NO >> GO TO the inspection 1. Refer to WT-29, "Transmitter or Control Unit (BCM)".

3. VEHICLE DRIVING

• 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" display tire pressure as normal without any warning lamp?

YES >> INSPECTION END

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

Transmitter - 2 MALFUNCTION CODE NO. 35, 36, 37 OR 38

NES0003H

1. CHECK ALL TIRE PRESSURES

Check all tire pressures. Refer to <u>WT-38, "SERVICE DATA AND SPECIFICATIONS (SDS)"</u>.

Are there any tires whose pressure is "64 psi" or more?

YES >> Adjust tire pressure to specified value.

NO >> GÓ TO 2.

2. VEHICLE DRIVING

- Perform ID registration of all transmitters.
- 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).
 - >> Replace transmitter with new one if "DATA MONITOR" display 64 psi or more. Then GO TO 3.

3. ID REGISTRATION AND VEHICLE DRIVING

- 1. Perform 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. Then check all tire pressures with CONSULT-II "DATA MONITOR" within 5 minutes.

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

YES >> INSPECTION END

NO >> GO TO the inspection applicable to DTC.

TROUBLE DIAGNOSIS FOR SELF-DIAGNOSTIC ITEMS

Vehicle Speed Signal NES00031 MALFUNCTION CODE NO. 52 Α 1. CHECK SELF-DIAGNOSTIC RESULTS В Perform "CONSULT-II Start Procedure". Refer to GI-37, "CONSULT-II Start Procedure". 1. Touch "BCM C/U" on "SELECT SYSTEM" screen. 3. Touch "SELF-DIAG RESULTS" on "SELECT DIAG MODE" screen. С 4. Check display contents in self-diagnostic results. Is the "CAN COMM CIRCUIT" displayed in the self-diagnosis display? >> Perform trouble diagnosis for CAN communication system. GO TO LAN-47, "CAN System Specification Chart". NO >> Check combination meter refer to DI-15, "Vehicle Speed Signal Inspection".

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TROUBLE DIAGNOSIS FOR SYMPTOMS

PFP:00007

Warning Lamp Does Not Come On When Ignition Switch Is Turned On DIAGNOSTIC PROCEDURE

NES000C4

1. CHECK SELF-DIAGNOSTIC RESULTS

- 1. Perform "CONSULT-II Start Procedure". Refer to GI-37, "CONSULT-II Start Procedure".
- 2. Touch "BCM C/U" on "SELECT SYSTEM" screen.
- 3. Touch "SELF-DIAG RESULTS" on "SELECT DIAG MODE" screen.
- 4. 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-47</u>, "<u>CAN System Specification Chart</u>".

NO >> GO TO 2.

2. CHECK COMBINATION METER

Check combination meter function.

OK or NG

OK >> GO TO 3.

NG >> Check combination meter. Refer to <u>DI-13</u>, "Trouble <u>Diagnosis"</u>.

3. Check low tire pressure warning Lamp

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connectors M1 and M2.

Does the warning lamp activate?

YES >> Replace BCM. Refer to BCS-16, "Removal and Installation of BCM".

NO >> Check combination meter and repair or replace.

Warning Lamp Stays On When Ignition Switch Is Turned On DIAGNOSTIC PROCEDURE

NES000C5

1. PERFORM SELF-DIAGNOSIS

- 1. Turn ignition switch ON. (Do not start engine.)
- 2. Select "SELF-DIAG RESULTS" mode for "AIR PRESSURE MONITOR" with CONSULT-II.
- 3. Touch "ERASE".
- 4. Turn ignition switch OFF.
- Start engine.

Does low tire pressure warning lamp turn OFF?

YES >> INSPECTION END

NO >> GO TO 2.

2. PERFORM ID REGISTRATION

Perform ID registration all transmitters. Refer to WT-19, "ID Registration Procedure".

Does low tire pressure warning lamp turn OFF?

YES >> INSPECTION END

NO >> GO TO 3.

3. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connectors M1 and M2.
- Check terminals for damage or loose connections.

OK or NG

OK >> GO TO 4.

NG >> Repair or replace damaged parts.

4. CHECK POWER SUPPLY CIRCUIT (BATTERY)

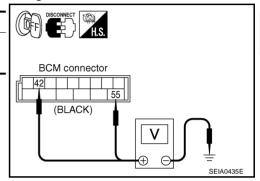
Check voltage between BCM harness connector M2 terminals 42, 55 and ground.

Terr	Voltage (Approx.)		
(+)	(–)	Battery voltage	
42, 55	Ground	Dattery Voltage	

OK or NG

OK >> GO TO 5.

NG >> Check BCM power supply circuit for open or short.



5. CHECK POWER SUPPLY CIRCUIT (IGN)

- 1. Turn ignition switch ON.
- 2. Check voltage between BCM harness connector M1 terminal 38 and ground.

Terr	Voltage (Approx.)		
(+)	(–)	Battery voltage	
38	Ground		

OK or NG

OK >> GO TO 6.

NG >> Check BCM power supply circuit for open or short.

BCM connector | SEIA0436E

6. CHECK GROUND CIRCUIT

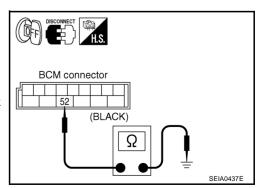
- Turn ignition switch OFF.
- 2. Check continuity between BCM harness connector M2 terminal 52 and ground.

Continuity should exist.

OK or NG

OK >> Replace BCM. Refer to <u>BCS-16</u>, "Removal and Installation of BCM".

NG >> Repair or replace BCM ground circuit.



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Warning Lamp Blinks When Ignition Switch Is Turned On

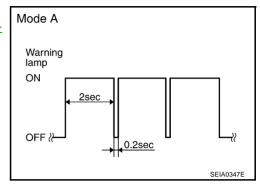
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NOTE

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-20, "Transmitter Wake Up Operation"</u>.



DIAGNOSTIC PROCEDURE

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connector M1.
- 3. Check terminals for damage or loose connections.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace damaged parts.

2. CHECK TIRE PRESSURE WARNING CHECK SWITCH CIRCUIT

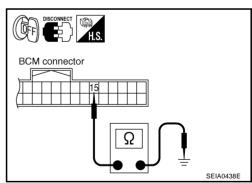
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connector.
- Check continuity between BCM harness connector M1 terminal 15 and ground.

Continuity should exist.

OK or NG

OK >> Replace BCM. Refer to BCS-16, "Removal and Installation of BCM".

NG >> Repair or replace harness connector.



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

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1. CHECK TIRE PRESSURE WARNING CHECK SWITCH CIRCUIT

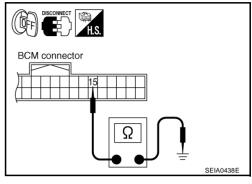
- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connector.
- Check continuity between BCM harness connector M1 terminal 15 and ground.

Continuity should exist.

OK or NG

OK >> Check turn signal lamp operation. Refer to <u>LT-77</u>, <u>"TURN SIGNAL AND HAZARD WARNING LAMPS"</u>.

NG >> Repair or replace harness connector.



ID Registration Can Not Be Completed DIAGNOSTIC PROCEDURE

NES000C8

1. ID REGISTRATION (ALL)

Perform ID registration of all transmitters.

Can ID registration of all transmitters be completed?

YES >> INSPECTION END

NO >> GO TO WT-29, "TROUBLE DIAGNOSIS FOR SELF-DIAGNOSTIC ITEMS".

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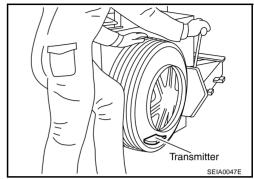
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TRANSMITTER PFP:40700

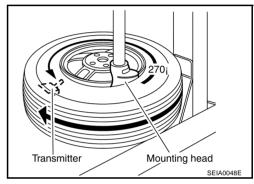
Removal and Installation

NES00030

- 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.

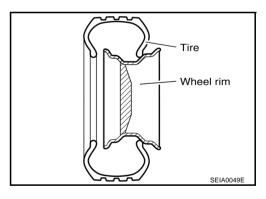


- 3. Turn tire so that valve hole is at bottom and bounce so that transmitter is near valve hole. Carefully lift tire onto turntable and position valve hole (and transmitter) 270 degree from mounting/dismounting head.
- 4. Lubricate tire well and remove first side of the tire. Reach inside the tire and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



INSTALLATION

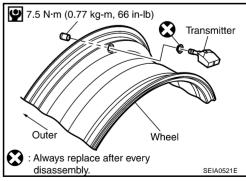
1. Put first side of tire onto rim.



2. Mount transmitter on rim and tighten nut.

CAUTION:

Speed for tightening nut should be less than 40 rpm.

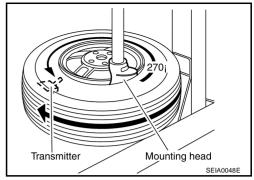


TRANSMITTER

 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.

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SERVICE DATA AND SPECIFICATIONS (SDS)

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PFP:00030

Road Wheel

NES0003P

Kind of wheel		Aluminum	Steel (for temporary use)	
Deflection limit	Lateral deflection	Less than 0.3 mm (0.012 in)	Less than 1.5 mm (0.059 in)	
Deflection limit	Vertical deflection	Less than 0.3 min (0.012 m)	Less than 1.5 min (0.059 m)	
Allowable quantity of residual	Dynamic (At rim flange)	Less than 5g (0.17 oz) (one side)		
unbalance	Static (At rim flange)	Less than 10g (0.35 oz)		

Tire NES0003Q

Unit: kPa (kg/cm², psi)

Tire size	Air pressure		
Tile Size	Front	Rear	
P225/50R17 93V	210 (2.1, 30)	_	
P235/50R17 95V	_	210 (2.1, 30)	
225/45R18 91W	240 (2.4, 35)	_	
245/45R18 96W	_	240 (2.4, 35)	
225/40R19 89Y	240 (2.4, 35)	_	
245/40R19 94Y	_	240 (2.4, 35)	
T145/80D17	420 (4	420 (4.2, 60)	

Tightening Torque

NES000DK

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Wheel nut		108 N.m (11 kg-m, 80 ft-lb)