SECTION WHEELS & TIRES C

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PRECAUTIONS

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

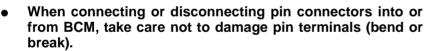
The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

WARNING:

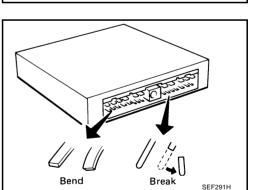
- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation 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

 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".

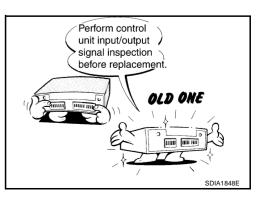


When connecting pin connectors make sure that there are not any bends or breaks on BCM pin terminals.



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• Before replacing BCM, perform control unit input/output signal inspection and make sure whether BCM functions properly or not. Refer to <u>WT-17</u>, <u>"Control Unit Input/Output Signal Standard"</u>.



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PRECAUTIONS

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 <u>WT-18</u>, "ID Registration Procedure".
- ID registration is required when replacing or rotating wheels, replacing transmitter or BCM. Refer to <u>WT-18, "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.

PREPARATION

PREPARATION

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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		Description	В
(J-45295) Transmitter activation tool	SEIA0462E	ID registration	C D WT
Commercial Service To	ols		NES000GK
Tool name		Description	F
Power tool		Removing wheel nuts	G
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NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING NVH Troubleshooting Chart

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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			<u>FAX-4, FAX-10</u> , <u>FSU-6</u>	<u>WT-7</u>	I	I	I	I	I	I	NVH in PR section	NVH in RFD section	NVH in FAX and FSU section	NVH in RAX and RSU section	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	×	×	×	×	×	×	×		×	×	×	×		×	×	×	х
		Shake	×	×	×	×	×	×		×	×		×	×		×	×	×	Х
		Vibration				×				×	×		×	×			×		×
	TIRES	Shimmy	×	×	×	×	×	×	×	×			×	×		×		×	×
	Symptom	Judder	×	×	×	×	×	×		×			×	×		×		×	×
Symptom		Poor quality ride or handling	×	×	×	×	×	×		×			×	×		×			
ROAD WHEEL		Noise	×	×	×			×			×	×	×	×	×		×	×	×
	Shake	×	×	×			×			×		×	×	×		×	×	×	
	ROAD WHEEL	Shimmy, Judder	×	×	×			×					×	×	×			×	Х
		Poor quality ride or handling	×	×	×			×					×	×	×				

×: Applicable

ROAD WHEEL

ROAD WHEEL

Inspection ALUMINUM WHEEL

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

Wheel runout (Dial indicator value): Refer to <u>WT-39, "SERVICE DATA"</u>

STEEL WHEEL

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

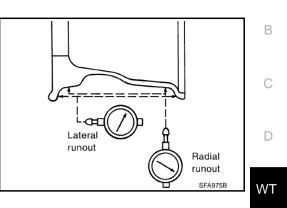
Radial runout = (A + B)/2Lateral runout = (C + D)/2

f. Select maximum positive runout value and the maximum negative value.

Add the two values to determine total runout.

In case a positive or negative value is not available, use the maximum value (negative or positive) for total runout. If the total runout value exceeds the limit, replace steel wheel.

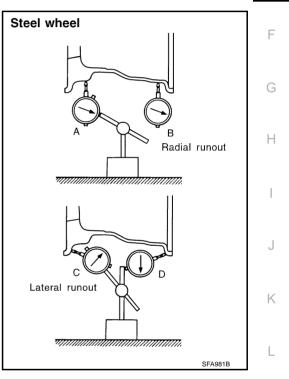
Wheel runout : Refer to WT-39, "SERVICE DATA"



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ROAD WHEEL TIRE ASSEMBLY

Balancing Wheels (Bonding Weight Type) REMOVAL

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.
 - 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.

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

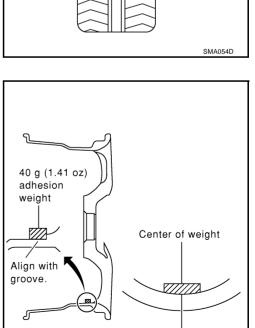
Example:

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

- a. 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 wheel balancer 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.



Inner side

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Outer side

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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 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 5.0 g (0.2 oz) each or below.
 - If either residual unbalance value exceeds 5.0 g (0.2 oz), repeat installation procedures.

Wheel balance (Maximum allowable unbalance):

Maximum allowable	Dynamic (At rim flange)	5.0 g (0.2 oz) (one side)
unbalance	Static (At rim flange)	20 g (0.7 oz)

Tire Rotation

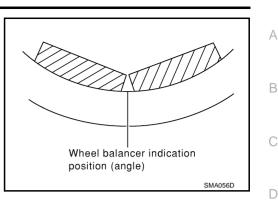
- After rotating the tires, adjust the tire pressure.
- Retighten the wheel nuts when the vehicle has been driven for 1,000 km (600 miles) (also in cases of a flat tire, etc.).

CAUTION:

- Do not include the T-type spare tire when rotating the tires.
- When installing wheels, tighten them diagonally by dividing the work two to three times in order to prevent the wheels from developing any distortion.
- Use NISSAN genuine wheel nuts for aluminum wheels.

Tightening torque of wheel nut

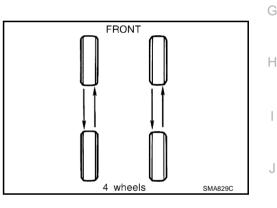
○ : 108 N⋅m (11 kg, 80 ft-lb)



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LOW TIRE PRESSURE WARNING SYSTEM

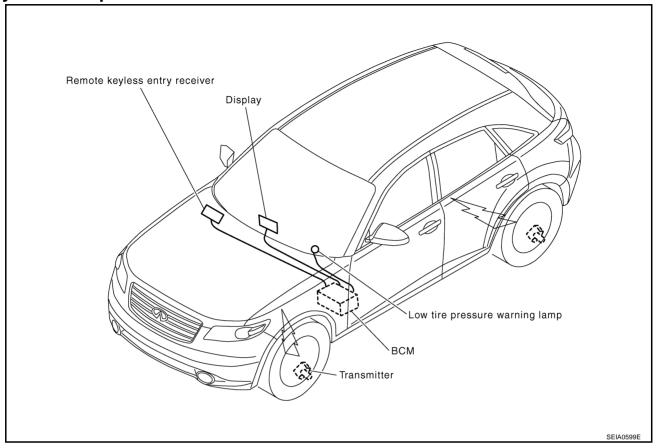
LOW TIRE PRESSURE WARNING SYSTEM

System Components

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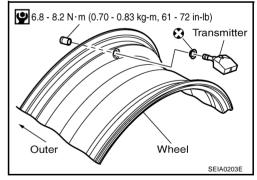


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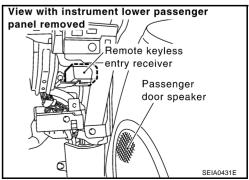
System Description TRANSMITTER

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.



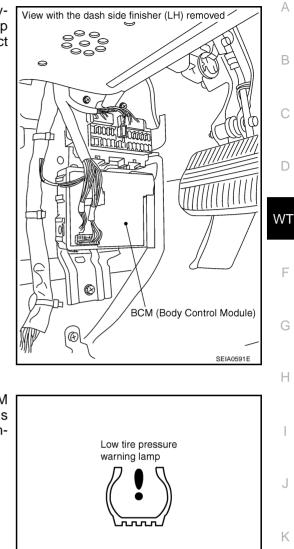
REMOTE KEYLESS ENTRY RECEIVER

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



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 and the buzzer 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

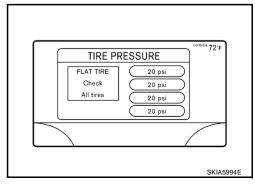
Condition	Warning lamp	Buzzer	
Less than 178 kPa (1.78 kg/cm ² , 26 psi) [Note 1]	ON	Sounds for 10 sec.	M
Low tire pressure warning system malfunction [Other diagnostic item]	Warning lamp flashes 1 min, then turns ON	OFF	

Note 1: Standard air pressure is for 220 kpa (2.2 kg/cm² , 32 psi) vehicles.

DISPLAY UNIT

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.



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CAN COMMUNICATION

System Description

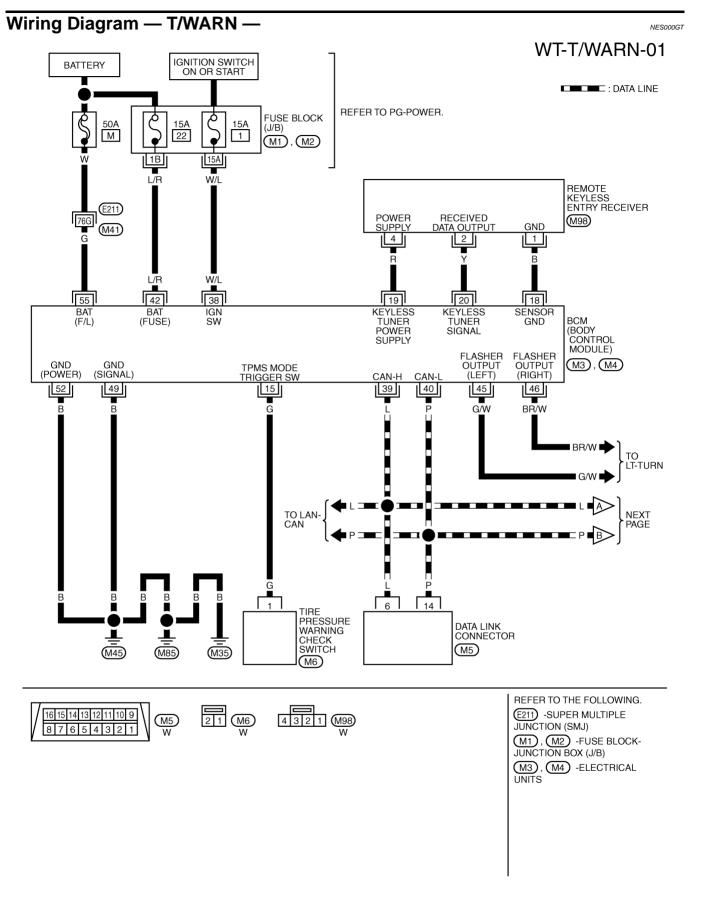
CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information 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-27, "CAN COMMUNICATION".

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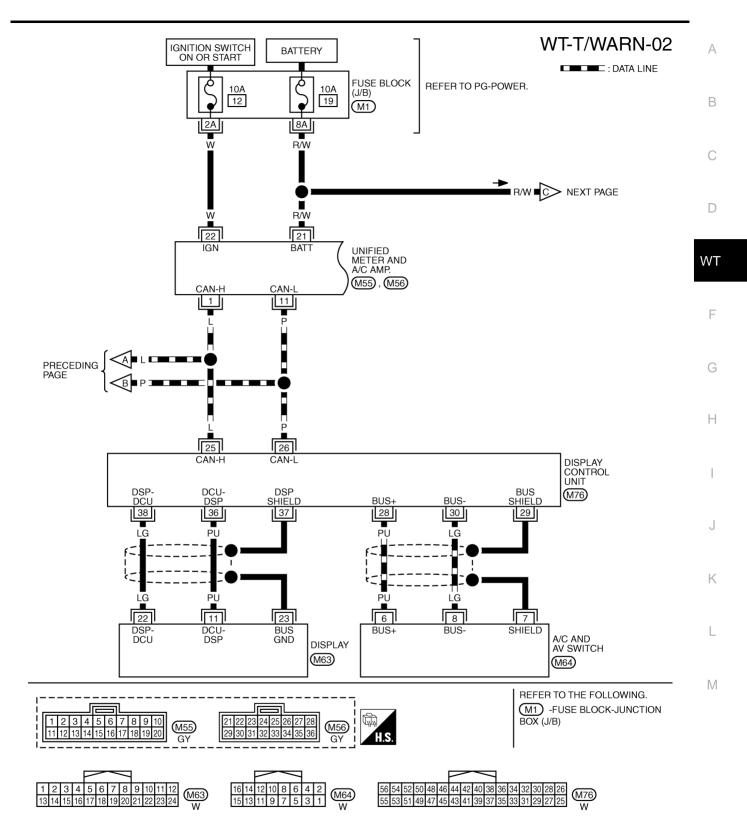
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TROUBLE DIAGNOSES PFP:00004 А **Schematic** NES000GS COMBINATION METER В 33 37 DISPLAY С 30 TIRE PRESSURE Ξ 22 38 UNIFIED METER CONTROL UNIT DISPLAY CONTROL UNIT A/C AND AV SWITCH D 20 FUSE DATA LINE 30 ω 30 WΤ DATA LINE 80 ശ UNIFIED METER AND A/C AMP. 29 V თ 26 Ξ <u>е</u> F BUZZER 兌 25 G ∕| FUSE 5 22 DATA LINE DATA LINE Н DATA LINK CONNECTOR IGNITION SWITCH ON or START ∕| FUSE I 38 40 Ĥ TIRE PRESSURE SENSOR J 39 Κ To CAN system Ň N N N TIRE PRESSURE WARNING CHECK SWITCH BCM (BODY CONTROL MODULE) L 18 2 REMOTE KEYLESS ENTRY RECEIVER Μ 2 45 FUSE 49 19 FUSE To turn signal and hazard warning lamp system 42 49 BATTERY 52 55

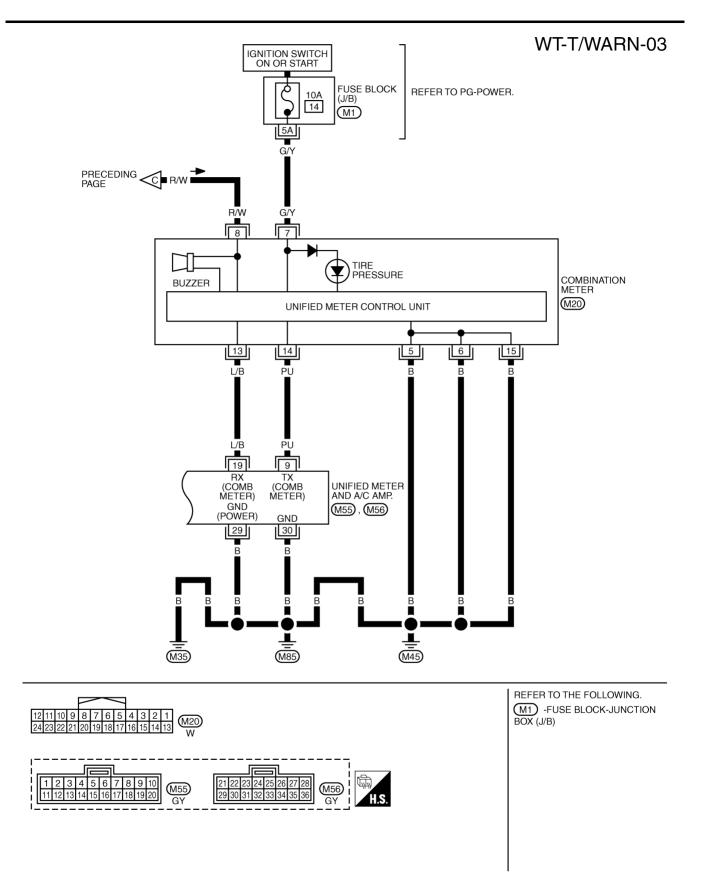
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TEWM0149E



TEWM0150E



TEWM0151E

Control Unit Input/Output Signal Standard

Standards using a circuit tester and oscilloscope

Term	inal	Item	Condition	Voltage (V)		
+ (wire color)	-		Condition	Approx. value		
15 (G)		Tire pressure warning check connector	Always	5V		
18 (B)		Remote keyless entry receiver (Ground)	_	ov		
19 (R)		Remote keyless entry receiver	Stand-by	(V) 6 4 2 0 + 0.2s OCC3879D		
		(Power supply)	Press any of the key fob switches	(V) 4 2 0 + 0.2s OCC3882D		
	Ground	Remote keyless entry receiver	Stand-by	(V) 6 4 2 0 • • 0.2s OCC3881D		
20 (Y)		(Signal)	Press any of the key fob switches	(V) 6 4 2 0 • • 0.2s		
38 (W/L)		Ignition switch	Ignition switch ON or START	Battery voltage (12V)		
39 (L)		CAN-H	_	_		
40 (P)		CAN-L	_	_		
42 (L/R)	•	Battery power supply (Fuse)	Always	Battery voltage (12V)		
45 (G/W)		Turn signal (left)	 Ignition switch ON Combination switch is turn signal (left) 	(V) 15 10 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 5 0 5 5 0 5 5 0 5 5 5 5 5 5 5 5 5 5 5 5 5		

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Terminal		Item	Condition	Voltage (V)		
+ (wire color)	-		Contanion	Approx. value		
46 (BR/W)	Ground	Turn signal (right)	 Ignition switch ON Combination switch is turn signal (right) 	(V) 15 10 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0		
49 (B)		Ground		0V		
52 (B)		Ground		00		
55 (G)		Battery power supply (F/L)	Always	Battery voltage (12V)		

ID Registration Procedure ID REGISTRATION WITH ACTIVATION TOOL

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

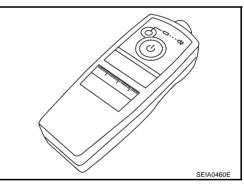
CAUTION:

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunction might be detected during self-diagnosis depending on control unit which performs CAN communication.

- 1. With the ignition switch OFF, connect CONSULT-II and CONSULT-II CONVERTER to the data link connector, then turn the ignition switch ON.
- 2. Select "START (NISSAN BASED VHCL)".
- 3. Select "BCM" on "SELECT SYSTEM" screen. NOTE:

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

- 4. Select "AIR PRESSURE MONITOR" on "SELECT WORK ITEM" screen.
- 5. Select "WORK SUPPORT" on "SELECT DIAG MODE" screen, and select "ID REGIST".
- 6. With the activation tool (J-45295) pushed against the front-left transmitter position of the tire air valve, press and hold the button 5 seconds.



7. Register the IDs in order from FR LH, FR RH, RR RH or RR LH. When ID registration of each wheel has been completed, a buzzer sounds and turn signal lamp (LH/ RH) blinks.

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

8. 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

ID	REGISTRATION WITHOUT ACTIVATION TOC)L					
Th	is procedure must be done after replacement of	a transmitter or BCM.	А				
lf (VITION: CONSULT-II is used with no connection of CONS ring self-diagnosis depending on control unit wh	ULT-II CONVERTER, malfunction might be detected hich performs CAN communication.	В				
1.	 With the ignition switch OFF, connect CONSULT-II and CONSULT-II CONVERTER to the data link con- nector, then turn the ignition switch ON. 						
2.	2. Select "START (NISSAN BASED VHCL)".						
3.	Select "BCM" on "SELECT SYSTEM" screen.						
4.	NOTE: If "BCM" is not indicated, go to <u>GI-39, "CONSULT-I</u> Select "AIR PRESSURE MONITOR" on "SELECT		D				
5.	5. Select "WORK SUPPORT" on "SELECT DIAG MODE" screen, and select "ID REGIST".						
6.	Adjust the tire pressure to the values shown in the 40 km/h (25 MPH) or more for a few minutes.	e table below for ID registration, and drive the vehicle at	WT				
	Tire position	Tire pressure kPa (kg/cm ² , psi)	F				
	Front – Left	240 (2.4, 34)					
	Front – Right	220 (2.2, 31)					
	Rear – Right	200 (2.0, 29)	G				
	Rear – Left	180 (1.8, 26)					
7.	After completing all ID registrations, press "END" to	o complete the procedure.	Н				
	Activation tire position	CONSULT-II					
	Front LH		1				
	Front RH "YET"						
	Rear RH	"DONE"					
	Rear LH		J				
8	Inflate all tires to proper pressure Refer to WT-39	"Tire"					

8. Inflate all tires to proper pressure. Refer to WT-39, "Tire".

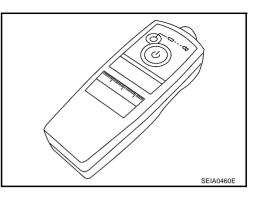
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Transmitter Wake Up Operation WITH ACTIVATION TOOL

- 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 following 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

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- 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.

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Self-Diagnosis DESCRIPTION

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 and the buzzer sounds.

LOW TIRE PRESSURE WARNING LAMP DIAGNOSTIC CHART

Diagnosis Item	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action	WT
	Warning lamp comes on immediately and turns off after 1 sec- ond	ON 1 sec > stays OFF SEIA0592E	All wheel transmit- ters are "activated" (working).	None (system OK)	F
	Warning lamp blinks on for 2 seconds, then turns off for 0.2 seconds-repeats	ON 2 sec > OFF 0.2 sec	All wheel transmit- ters are not acti- vated.	Activate all wheel transmit- ters. Refer to <u>WT-20.</u> <u>"Transmitter Wake Up Oper-</u> <u>ation"</u> .	H
Low tire pres- sure warning lamp	Warning lamp blinks 1 time	Blinks 1 time ON 0.3 sec > OFF 1.3 sec SEIA0594E	Front LH wheel transmitter is not activated.	Activate front LH wheel transmitter. Refer to <u>WT-20,</u> <u>"Transmitter Wake Up Oper-</u> <u>ation"</u> .	J
	Warning lamp 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 <u>WT-20,</u> <u>"Transmitter Wake Up Oper-ation"</u> .	M
	Warning lamp blinks 3 times	Blinks 3 times ON 0.3 sec > OFF 0.3 sec SEIA0596E	Rear RH wheel transmitter is not activated.	Activate rear RH wheel transmitter. Refer to <u>WT-20,</u> <u>"Transmitter Wake Up Oper-ation"</u> .	

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Diagnosis Item	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
	Warning lamp blinks 4 times	Blinks 4 times ON 0.3 sec > OFF 0.3 sec SELA0597E	Rear LH wheel transmitter is not activated.	Activate rear LH wheel transmitter. Refer to <u>WT-20,</u> <u>"Transmitter Wake Up Oper-</u> <u>ation"</u> .
Low tire pres- sure warning lamp			The fuse for combi- nation meter from battery is pulled out.	Check the fuse for combina- tion meter from battery. Install or replace (if needed).
amp		Comes ON and stays ON SEIA0598E	BCM connector pulled out.	Check BCM connector. Re- connect if needed.
	Warning lamp comes on and does not turn off		Low tire pressure or low tire pressure warning system mal- function.	Perform CONSULT-II Self Diagnosis. Refer to <u>WT-</u> 21, "Self-Diagnosis".
				 Perform ID Registration if needed. Refer to <u>WT-18,</u> <u>"ID Registration Proce-</u> <u>dure"</u>.
			1. Tool J-45295 (spe- cial service tool) battery low.	1. Install new battery.
	Turn signal lamp		2. Ignition OFF dur- ing activation.	2. Make sure ignition is ON during activation.
Turn signal lamp	does not flash 2 times or horn does not sound after trans- mitter activation.		3. Tool J-45295 (spe- cial service tool) not positioned cor- rectly.	3. Position tool correctly dur- ing activation.
			4. Transmitters already activated.	4. None

NOTE:

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

CONSULT-II Function FUNCTION

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

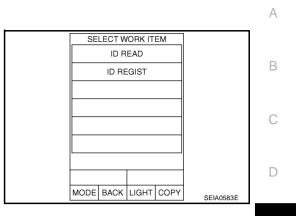
Diagnostic test mode	Function	Reference
WORK SUPPORT	This mode enables a technician to adjust some devices faster and more accurately by following the indications on CONSULT-II.	WT-23, "WORK SUP- PORT MODE".
SELF-DIAGNOSTIC RESULTS	Self-diagnostic results can be read and erased quickly.	WT-23, "SELF-DIAGNOS- TIC RESULTS MODE".
DATA MONITOR	Input/Output data in the control unit can be read.	WT-24, "DATA MONITOR 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

Refer to GI-38, "CONSULT-II Start Procedure" .

WORK SUPPORT MODE Operation Procedure

- 1. Touch necessary test item.
- 2. The "Work support" screen will be displayed, so perform the following test.



Test Item

- ID Read
- ID Regist

ID Read

The registered ID number is displayed.

ID R	EAD			
ID TYPE1 F	EL	9E3D9D		
ID TYPE1 F	R	9E3DE9		
ID TYPE1 F	R	9D7C07		
ID TYPE1 F	۹L	9E0F8E		
	F	READ	1	
MODE BACK	LIGH	T COPY	SEIA0584	F

ID Regist Refer to <u>WT-18, "ID Registration Procedure"</u>.

SELF-DIAGNOSTIC RESULTS MODE

Diagnostic item	Diagnostic item is detected when …	
FLAT - TIRE - FL FLAT - TIRE - FR FLAT - TIRE - RR FLAT - TIRE - RL	Front-left tire pressure drops to 178 kPa (1.78 kg/cm ² , 26 psi) or less. Front-right tire pressure drops to 178 kPa (1.78 kg/cm ² , 26 psi) or less. Rear-right tire pressure drops to 178 kPa (1.78 kg/cm ² , 26 psi) or less. Rear-left tire pressure drops to 178 kPa (1.78 kg/cm ² , 26 psi) or less.	
[NO-DATA] - FL [NO-DATA] - FR [NO-DATA] - RR [NO-DATA] - RL	Data from front-left transmitter can not be received. Data from front-right transmitter can not be received. Data from rear-right transmitter can not be received. Data from rear-left transmitter can not be received.	
[CHECKSUM- ERR] - FL [CHECKSUM- ERR] - FR [CHECKSUM- ERR] - RR [CHECKSUM- ERR] - RL	Checksum data from front-left transmitter is malfunctioning. Checksum data from front-right transmitter is malfunctioning. Checksum data from rear-right transmitter is malfunctioning. Checksum data from rear-left transmitter is malfunctioning.	
[PRESS DATA- ERR] - FL [PRESS DATA- ERR] - FR [PRESS DATA- ERR] - RR [PRESS DATA- ERR] - RL	Air pressure data from front-left transmitter is malfunctioning. Air pressure data from front-right transmitter is malfunctioning. Air pressure data from rear-right transmitter is malfunctioning. Air pressure data from rear-left transmitter is malfunctioning.	
[CODE- ERR] - FL [CODE- ERR] - FR [CODE- ERR] - RR [CODE- ERR] - RL	Function code data from front-left transmitter is malfunctioning. Function code data from front-right transmitter is malfunctioning. Function code data from rear-right transmitter is malfunctioning. Function code data from rear-left transmitter is malfunctioning.	

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Diagnostic item	Diagnostic item is detected when …
[BATT - VOLT - LOW] - FL [BATT - VOLT - LOW] - FR [BATT - VOLT - LOW] - RR [BATT - VOLT - LOW] - RL	Battery voltage of front-left transmitter drops. Battery voltage of front-right transmitter drops. Battery voltage of rear-right transmitter drops. Battery voltage of rear-left transmitter drops.
VHCL_SPEED_SIG_ERR	Vehicle speed signal is error.

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.

DATA MONITOR MODE

MONITOR	CONDITION	SPECIFICATION	
VEHICLE SPEED	Drive vehicle.	Vehicle speed (km/h or MPH)	
AIR PRESS FL AIR PRESS FR AIR PRESS RR AIR PRESS RL	 Drive vehicle for a few minutes. or Ignition switch ON and activation tool is transmitting activation signals. 	Tire pressure (kPa or Psi)	
ID REGST FL 1 ID REGST FR 1 ID REGST RR 1 ID REGST RL 1		Registration ID: DONE No registration ID: YET	
WARNING LAMP	Ignition switch ON	Low tire pressure warning lamp on: ON Low tire pressure warning lamp off: OFF	
BUZZER		Buzzer in combination meter on: ON Buzzer in combination meter off: OFF	

NOTE:

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

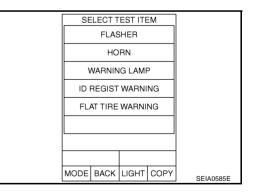
ACTIVE TEST MODE

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. Touch necessary test item.
- 2. The "Active Test" screen will be displayed, so perform the following test.

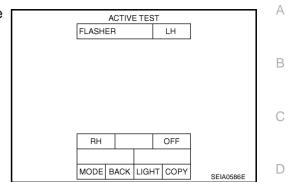


Test Item

- Flasher
- Horn
- Warning lamp
- ID regist warning
- Flat tire warning

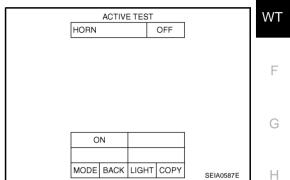
Flasher

Touch "LH" and "RH" on the display, and then check to make sure that each turn signal lamp turns on.



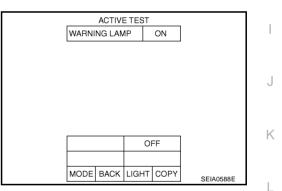
Horn

Touch "LH" and "RH" on the display, and then check to make sure that the horn sounds.



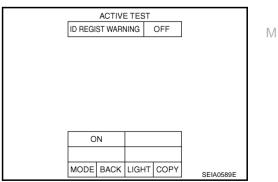
Warning Lamp

Touch "LH" and "RH" on the display, and then check to make sure that the warning lamp turns on.



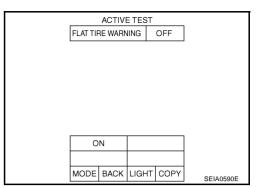
ID Regist Warning

Touch "LH" and "RH" on the display, and then check to make sure that the buzzer sounds or the warning lamp turns on.



Flat Tire Warning

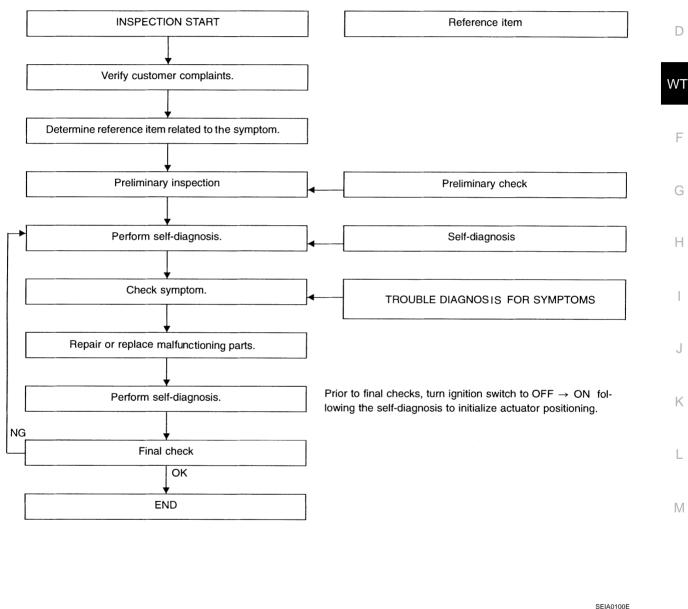
Touch "LH" and "RH" on the display, and then check to make sure that the buzzer sounds or the warning lamp turns on.



How to Perform Trouble Diagnosis for Quick and Accurate Repair 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



Preliminary check:

WT-28 Self-diagnosis:

<u>WT-21</u> Tro

Trouble diagnosis for symptoms:

WT-33

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Preliminary Check

BASIC INSPECTION

1. CHECK ALL TIRE PRESSURES

• Check all tire pressures. Refer to <u>WT-39, "Tire"</u>.

OK or NG

OK >> GO TO 2.

NG >> Adjust tire pressure to specified value.

2. CHECK LOW TIRE PRESSURE WARNING LAMP ACTIVATION

- 1. Check low tire pressure warning lamp activation.
- 2. Does low tire pressure warning lamp activate for 1 second when ignition switch is turned "ON"?

Does warning lamp activate?

YES >> GO TO 3.

NO >> Check fuse and combination meter.

$3. \ \mathsf{CHECK} \ \mathsf{CONNECTOR}$

1. Disconnect BCM harness connectors M3 and M4.

2. Check terminals for damage or loose connection.

OK or NG

OK >> GO TO 4.

NG >> Repair or replace damaged parts.

4. CHECK TRANSMITTER TOOL

Check activation tool battery.

OK or NG

- OK >> Perform self-diagnosis.
- NG >> Replace activation tool battery.

NES000GZ

alfunction Code/Symptom Chart		
Code/Symptom	Malfunction part	Reference page
15 16 17 18	Front-left tire pressure drops to 178 kPa (1.78 kg/cm ² , 26 psi) or less. Front-right tire pressure drops to 178 kPa (1.78 kg/cm ² , 26 psi) or less. Rear-right tire pressure drops to 178 kPa (1.78 kg/cm ² , 26 psi) or less. Rear-left tire pressure drops to 178 kPa (1.78 kg/cm ² , 26 psi) or less.	_
21 22 23 24	Transmitter no data (front - left) Transmitter no data (front - right) Transmitter no data (rear - right) Transmitter no data (rear - left)	<u>WT-30</u>
31 32 33 34	Transmitter checksum error (front - left) Transmitter checksum error (front - right) Transmitter checksum error (rear - right) Transmitter checksum error (rear - left)	<u>WT-30</u>
35 36 37 38	Transmitter pressure data error (front - left) Transmitter pressure data error (front - right) Transmitter pressure data error (rear - right) Transmitter pressure data error (rear - left)	<u>WT-31</u>
41 42 43 44	Transmitter function code error (front - left) Transmitter function code error (front - right) Transmitter function code error (rear - right) Transmitter function code error (rear - left)	<u>WT-30</u>
45 46 47 48	Transmitter battery voltage low (front - left) Transmitter battery voltage low (front - right) Transmitter battery voltage low (rear - right) Transmitter battery voltage low (rear - left)	<u>WT-30</u>
52	Vehicle speed signal	<u>WT-32</u>
Warning lamp does not come on when gnition switch is turned on.	Fuse or combination meter BCM connector or circuit BCM	<u>WT-33</u>
Warning lamp stays on when ignition switch is turned on.	Combination meter BCM connector or circuit BCM	<u>WT-33</u>
Warning lamp blinks when ignition switch s turned on.	BCM connector or circuit BCM Transmitter's mode off ID registration not yet	<u>WT-35</u>
Turn signal lamp blinks when ignition switch is turned on.	BCM connector or circuit BCM	<u>WT-36</u>
ID registration can not be operated.	Transmitter Remote keyless entry receiver connector or circuit Remote keyless entry receiver BCM connector or circuit BCM	<u>WT-36</u>

TROUBLE DIAGNOSIS FOR SELF-DIAGNOSTIC ITEMS

Inspection 1: Transmitter or Control Unit (BCM) MALFUNCTION CODE NO. 21, 22, 23 OR 24

PFP:00000

NES000H1

1. CHECK CONTROL UNIT

• Drive for several minutes. Check all tire pressures with CONSULT-II "DATA MONITOR ITEM". Are all tire pressures displayed 0 kPa?

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

2. CHECK REMOTE KEYLESS ENTRY RECEIVER CONNECTOR

- 1. Disconnect remote keyless entry receiver harness connector M98.
- 2. Check terminals for damage or loose connection.
- 3. Reconnect harness connector.

OK or NG

- OK >> Replace BCM refer to <u>BCS-15, "Removal and Installation of BCM"</u>, then GO TO 3.
- NG >> Repair or replace remote keyless entry receiver harness connector.

3. ID REGISTRATION

• Perform ID registration of all transmitters.

Is there any tire that ID can not be registered to?

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 ITEM" within 15 minutes after vehicle speed becomes 17 km/h (11 MPH).

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

YES >> INSPECTION END

NO >> GO TO 5.

5. ID REGISTRATION AND VEHICLE DRIVING

- 1. 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 ITEM" within 5 minutes.

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

- YES >> INSPECTION END
- NO >> GO TO the inspection applicable to DTC.

Inspection 2: Transmitter - 1 MALFUNCTION CODE NO. 31, 32, 33, 34, 41, 42, 43, 44, 45, 46, 47 OR 48

NES000H2

1. ID REGISTRATION (CORRECTION OF TRANSMITTER LOCATION)

- 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.

>> GO TO 2.

TROUBLE DIAGNOSIS FOR SELF-DIAGNOSTIC ITEMS

2.	REPLACE TRANSMITTER	Δ
1.	Check low tire pressure warning condition again, replace malfunctioning transmitter.	
2.	Perform ID registration of all transmitters.	В
	n ID registration of all transmitters be completed?	D
N N	 ES >> GO TO 3. O >> GO TO the inspection 1. Refer to <u>WT-30, "Inspection 1: Transmitter or Control Unit (BCM)"</u>. 	0
3.	VEHICLE DRIVING	С
•	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.	D
	es "DATA MONITOR ITEM" displayed tire pressure as normal without any warning lamp?	
YI N(ES >> INSPECTION END. O >> Replace malfunctioning transmitter, and perform "Step 3" again. 	WT
Ins MA	Spection 3: Transmitter - 2 ALFUNCTION CODE NO. 35, 36, 37 OR 38	F
1.	CHECK ALL TIRE PRESSURES	
•	Check all tire pressures. Refer to <u>WT-39, "Tire"</u> .	G
Are	e there any tires whose pressure is "64 psi" or more?	
YI N(ES >> Adjust tire pressure to specified value. O >> GO TO 2. 	Н
2.	VEHICLE DRIVING	
1.	Perform ID registration of all transmitters.	
2.	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).	J
	>> Replace transmitter with new one if "DATA MONITOR ITEM" displayed 64 psi or more. Then GO TO 3.	K
3.	ID REGISTRATION AND VEHICLE DRIVING	
1.	Perform ID registration of all transmitters.	L
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.	M
Doe	es "DATA MONITOR ITEM" display tire pressure as normal without any warning lamp?	IVI
Y	ES >> INSPECTION END	

NO >> GO TO the inspection applicable to DTC.

Inspection 4: Vehicle Speed Signal MALFUNCTION CODE NO. 52

NES000H4

1. CHECK SELF-DIAGNOSIS RESULTS

- 1. With the ignition switch OFF, connect CONSULT-II and CONSULT-II CONVERTER to the data link connector, then turn the ignition switch ON.
- 2. Select "START (NISSAN BASED VHCL)".
- 3. Select "BCM" on "SELECT SYSTEM" screen. NOTE:

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

- 4. Select "BCM C/U" on "SELECT SYSTEM" screen.
- 5. Select "SELF-DIAG RESULTS" on "SELECT DIAG MODE" screen.
- 6. Check display contents in self-diagnostic results.

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

- YES >> Malfunction in CAN communication system. GO TO <u>LAN-3</u>, "Precautions When Using CON-<u>SULT-II"</u>.
- NO >> No malfunction. Check combination meter refer to <u>DI-5, "System Description"</u>.

TROUBLE DIAGNOSIS FOR SYMPTOMS

TROUBLE DIAGNOSIS FOR SYMPTOMS	•
Inspection 1: Warning Lamp Does Not Come On When Ignition Switch Is Turned	A
	B
1. CHECK SELF-DIAGNOSIS RESULTS	
1. With the ignition switch OFF, connect CONSULT-II and CONSULT-II CONVERTER to the data link connector, then turn the ignition switch ON.	С
 Select "START (NISSAN BASED VHCL)". Select "BCM" on "SELECT SYSTEM" screen. 	D
NOTE:	D
 If the "BCM" is not indicated, go to <u>GI-39, "CONSULT-II Data Link Connector (DLC) Circuit"</u>. Select "BCM C/U" on "SELECT WORK ITEM" screen, and select "SELF-DIAG RESULTS". Select "SELF-DIAG RESULTS" on "SELECT DIAG MODE" screen. 	W
 Check display contents in self-diagnostic results. <u>Is "CAN COMM CIRCUIT" displayed in the self-diagnosis display items?</u> YES >> Malfunction in CAN communication system. GO TO <u>LAN-3</u>, "Precautions When Using CON- 	F
NO >> No malfunction. GO TO 2. 2. CHECK COMBINATION METER	G
Check combination meter function.	Н
OK or NG	
OK>> GO TO 3.NG>> Check combination meter. Refer to DI-5, "System Description".	I
3. CHECK LOW TIRE PRESSURE WARNING LAMP	1
 Disconnect BCM harness connectors M3 and M4. Does the warning lamp activate? 	
YES >> Replace BCM. Refer to <u>BCS-15, "Removal and Installation of BCM"</u> . NO >> Check combination meter and repair or replace.	K
Inspection 2: Warning Lamp Stays On When Ignition Switch Is Turned On	3
1. CHECK CONNECTOR	
1. Disconnect BCM harness connectors M3 and M4.	- M

2. Check terminals for damage or loose connections.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace damaged parts.

2. CHECK POWER SUPPLY CIRCUIT (BATTERY)

Make sure voltage between BCM harness connector M4 terminals 42 (GY), 55 (R) and ground.

			Voltago
(+) (-)			Voltage
Connector	Terminal (Wire color)	Crownd	12V
M4 42 (L/R), 55 (G)		Ground	120

OK or NG

OK

NG

OK >> GO TO 3.

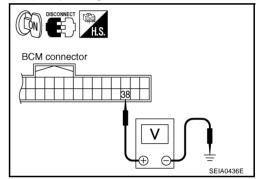
NG >> Check BCM power supply circuit for open or short.

3. CHECK POWER SUPPLY CIRCUIT (IGN)

- Turn ignition switch ON. 1.
- 2. Make sure voltage between BCM harness connector M3 terminal 38 (W/L) and ground.

Terminal (+) (-)		Voltore	
		()	Voltage
Connector	Terminal (Wire color)	Ground	12V
M3	38 (W/L)		

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



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BCM connector

(BLACK)

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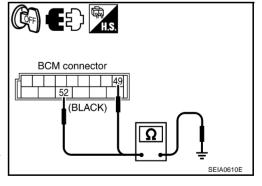
4. CHECK GROUND CIRCUIT

>> GO TO 4.

Check continuity between BCM harness connector M4 terminal 49(B), 52 (B) and ground.

Terminal (+) (-)		Continuity	
		(–)	- Continuity
Connector	Terminal (Wire color)	Ground	Should exist.
M4	49 (B), 52 (B)		
OK or NG			

OK >> Replace BCM. Refer to BCS-15, "Removal and Installation of BCM" . NG >> Repair or replace BCM ground circuit.

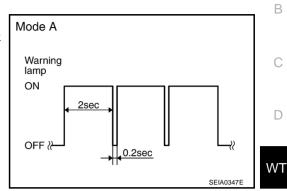


Inspection 3: Warning Lamp Blinks When Ignition Switch Is Turned On

NOTE:

If warning lamp blink 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, "Trans-</u> <u>mitter Wake Up Operation"</u>.



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DIAGNOSTIC PROCEDURE

1. CHECK CONNECTOR

- 1. Disconnect BCM harness connector M3.
- 2. 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

• Check continuity between BCM harness connector M3 terminal 15 (G) and ground.

	, ,				
Terminal		Continuity			
(+)	(-)	Continuity	<u></u>	
Connector	Terminal (Wire color)	Ground	Should not exist.		ŀ
M3	15 (G)				
OK or NG					l
		fer to <u>BCS-1</u>	5, "Removal and Installa-		
	<u>n of BCM"</u> .			SEIA0438E	
NG >> Re	pair or replace l	harness conr	nector.		ľ

TROUBLE DIAGNOSIS FOR SYMPTOMS

Inspection 4: Turn Signal Lamp Blinks When Ignition Switch Is Turned On NESCOUTE

1. CHECK TIRE PRESSURE WARNING CHECK SWITCH CIRCUIT

• Check continuity between BCM harness connector M3 terminal 15 (G) and ground.

Terminal (+) (-)		Continuity	
		(–)	Continuity
Connector	Terminal (Wire color)	Ground	Should not exist.
M3	15 (G)		

OK or NG

- OK >> Check turn signal lamp operation. Refer to <u>LT-90, "System Description"</u>.
 NG >> Repair or replace harness connector.
- Inspection 5: ID Registration Can Not Be Completed

DIAGNOSTIC PROCEDURE

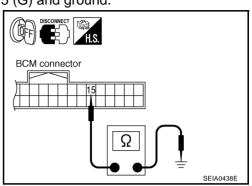
1. ID REGISTRATION (ALL)

• Perform ID registration of all transmitters.

Can ID registration of all transmitters be completed?

YES >> INSPECTION END

NO >> GO TO <u>WT-30, "TROUBLE DIAGNOSIS FOR SELF-DIAGNOSTIC ITEMS"</u>.



NES000H9

REMOVAL AND INSTALLATION

Transmitter REMOVAL

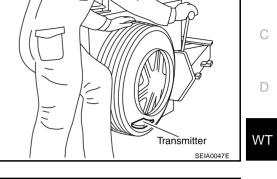
- 1. Deflate tire. Unscrew transmitter retaining nut and allow transmitter to fall into tire.
- 2. Gently bounce tire so that transmitter falls to bottom of tire. Place on tire changing machine and break both tire beads ensuring that the transmitter remains at the bottom of the tire.

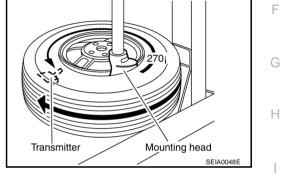
- 3. Turn tire so that valve hole is at bottom and bounce so that transmitter is near valve hole. Carefully lift tire onto turntable and position valve hole (and transmitter) 270 degree from mounting/ dismounting head.
- 4. Lubricate tire well and remove first side of the tire. Reach inside the tire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

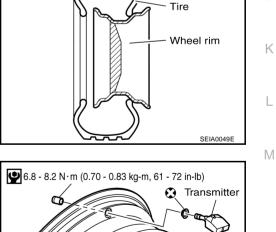
INSTALLATION

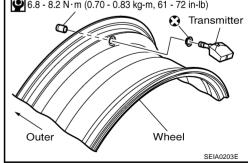
1. Put first side of tire onto rim.

2. Mount transmitter on rim and tighten nut.









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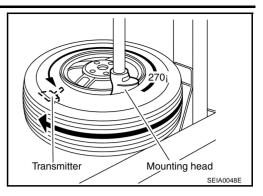
В

REMOVAL AND INSTALLATION

3. 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.

SERVICE DATA

SERVICE DATA Road Wheel

PFP:00030

NES000HB

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Kind of wheel		Aluminum	Steel (for emergency use)	
Maximum radial runout limit	Lateral deflection	Less than 0.3 mm (0.012 in)	Less than 1.5 mm (0.059 in)	
Maximum radial runout limit	Vertical deflection	Less than 0.3 mm (0.012 in)	Less than 1.5 mm (0.059 in)	
Maximum allowable unbalance	Dynamic (At rim flange)	Less than 5.0 g (0.2 oz) (per side)	_	
	Static (At rim flange)	Less than 20 g (0.7 oz)	_	

Tire

NES000HC

Unit: kPa (kg/cr	m²,	psi)
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Air pressure		
Front	Rear	WT
220 (2.2, 32)	220 (2.2, 32)	
220 (2.2, 32)	220 (2.2, 32)	
420 (4.2, 60)	420 (4.2, 60)	F
	Front 220 (2.2, 32) 220 (2.2, 32)	Front Rear 220 (2.2, 32) 220 (2.2, 32) 220 (2.2, 32) 220 (2.2, 32)

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