

WT
SECTION
ROAD WHEELS & TIRES

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000012523032

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.

Service Notice and Precautions for TPMS

INFOID:000000012857595

WARNING:

Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.

- Low tire pressure warning lamp blinks for 1 minute, then turns ON when occurring any malfunction except low tire pressure. Erase the self-diagnosis memories for Tire Pressure Monitoring System (TPMS), or register the ID to turn low tire pressure warning lamp OFF. For ID registration, refer to [WT-25. "Description"](#).
- ID registration is required when replacing or rotating wheels, replacing tire pressure sensor or low tire pressure warning control unit. Refer to [WT-26. "Description"](#).
- Replace grommet seal, valve core and valve cap of tire pressure sensor in TPMS, when replacing each tire by reaching the wear limit. Refer to [WT-65. "Removal and Installation"](#).
- Never install tire pressure sensor from other vehicles. Tire pressure monitoring system (TPMS) does not function if specified Genuine NISSAN tire pressure sensor is not installed.
- Because the tire pressure sensor conforms to North America radio law, the following items must be observed.
 - The sensor may be used only in North America.
 - It may not be used in any method other than the specified method.
 - It must not be disassembled or modified.

PREPARATION

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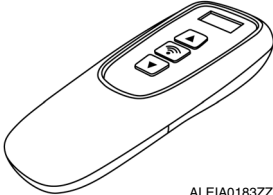
PREPARATION

PREPARATION

Special Service Tool


INFOID:000000012523033

The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
<p>— (J-50190) Signal Tech II</p>  <p>ALEIA0131ZZ</p>	<ul style="list-style-type: none"> • Activate and display TPMS transmitter IDs • Display tire pressure reported by the TPMS transmitter • Read TPMS DTCs • Register TPMS transmitter IDs • Test remote keyless entry keyfob relative signal strength • Check Intelligent Key relative signal strength • Confirm vehicle Intelligent Key antenna signal strength • Compatible with future sensors • Equipped with a display
<p>KV48105501 (J-45295-A) Transmitter activation tool</p>  <p>ALEIA0183ZZ</p>	<ul style="list-style-type: none"> • Activate TPMS transmitter IDs • Compatible with future sensors • Equipped with a display (KV48105501 only)

Commercial Service Tool

INFOID:000000012523034

Tool name	Description
<p>Power tool</p>  <p>PIIB1407E</p>	<p>Loosening nuts, screws and bolts</p>

COMPONENT PARTS

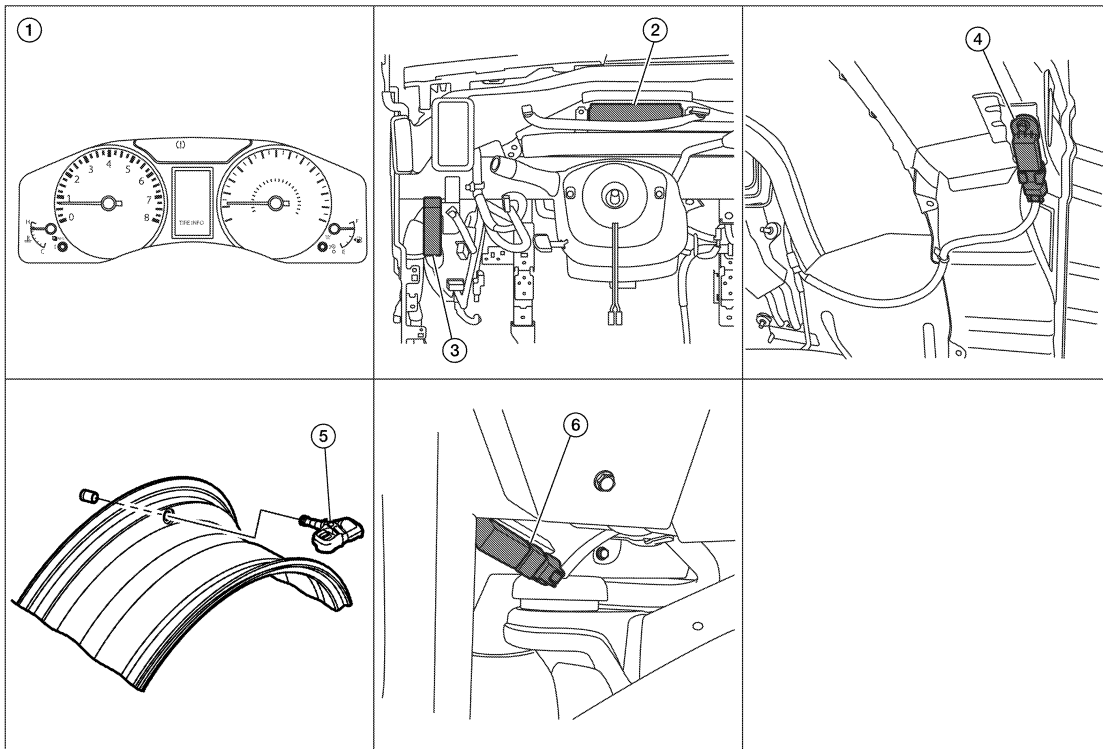
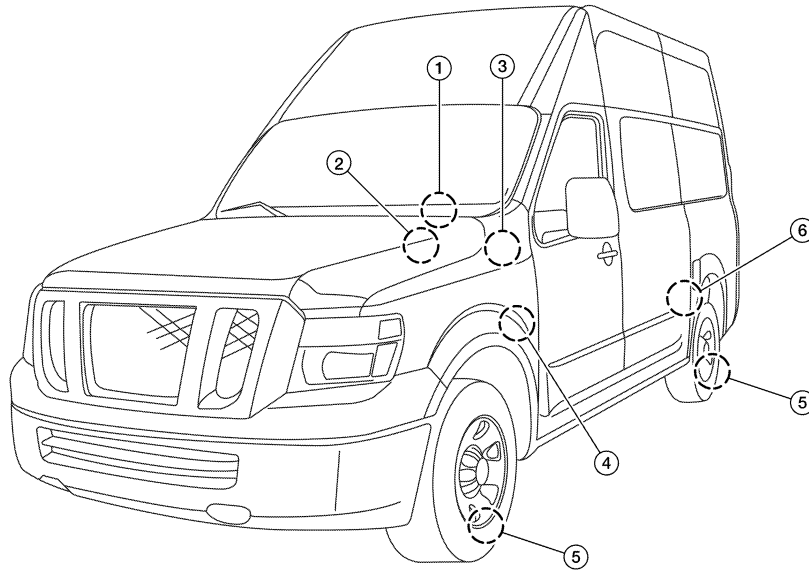
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000012523035



- | | | |
|---|-------------------------|--|
| 1. Combination meter | 2. BCM | 3. Low tire pressure warning control unit |
| 4. Tire pressure receiver front LH (RH similar) | 5. Tire pressure sensor | 6. Tire pressure receiver rear LH (RH similar) |

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

Component Description

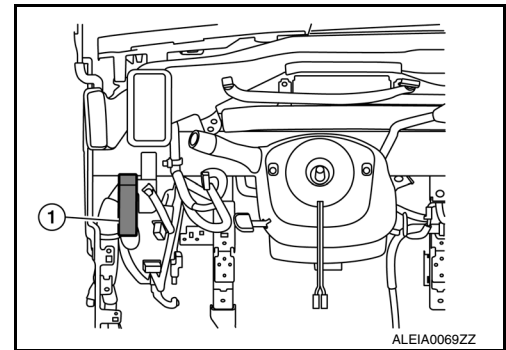
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Component parts	Reference/Function
Tire pressure sensor	WT-6. "Tire Pressure Sensor"
Tire pressure receiver	WT-7. "Tire Pressure Receiver"
Low tire pressure warning control unit	WT-6. "Low Tire Pressure Warning Control Unit"
Low tire pressure warning light	WT-7. "Low Tire Pressure Warning Light"
BCM	BCS-6. "BODY CONTROL SYSTEM : System Description"
ABS actuator and electric unit (control unit)	BRC-12. "VDC/TCS/ABS : System Description"

Low Tire Pressure Warning Control Unit

INFOID:0000000112523037

- The low tire pressure warning control unit (1) receives the tire pressure signal as an input from the tire pressure receiver. The tire pressure receiver receives the tire pressure signal from the tire pressure sensor in each wheel through a radio signal.
- The low tire pressure warning control unit uses CAN communication to illuminate the low tire pressure warning light in the combination meter when low tire pressure or a system fault exists.
- The low tire pressure warning control unit has a self diagnosis function that allows it to detect system malfunctions.

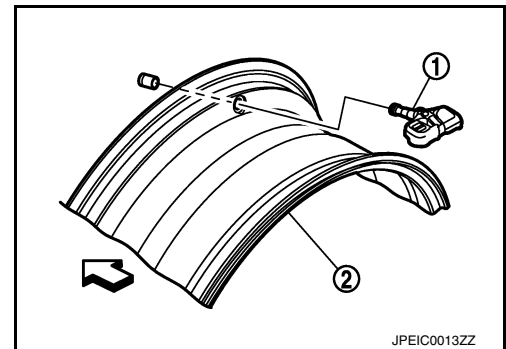


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Tire Pressure Sensor

INFOID:0000000112523038

A tire pressure sensor (1) integrated with an air valve is installed in each wheel (2), and transmits the detected air pressure in the form of a radio signal to the tire pressure receivers.



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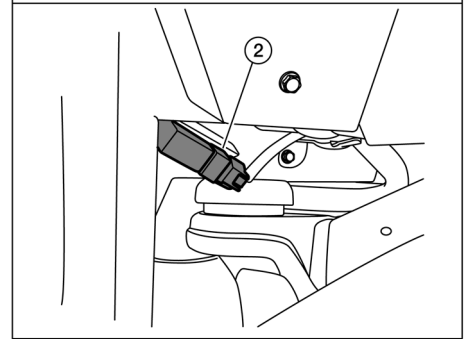
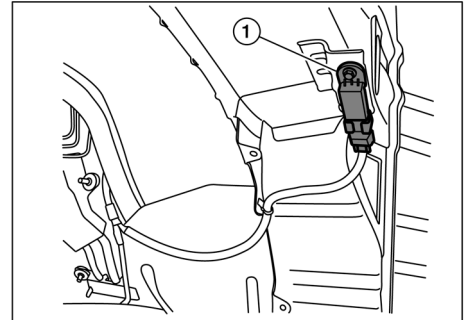
COMPONENT PARTS

< SYSTEM DESCRIPTION >

Tire Pressure Receiver

INFOID:000000012523039

The front tire pressure receiver (1) and rear tire pressure receiver (2) receive the air pressure through a radio signal from the tire pressure sensor at each wheel, and send the air pressure signal to the low tire pressure warning control unit.



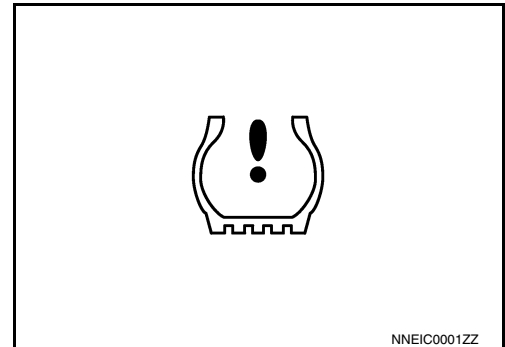
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Low Tire Pressure Warning Light

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

A "CHECK TIRE" pressure warning will also be displayed in the vehicle information display. Refer to the Owner's Manual for additional information.



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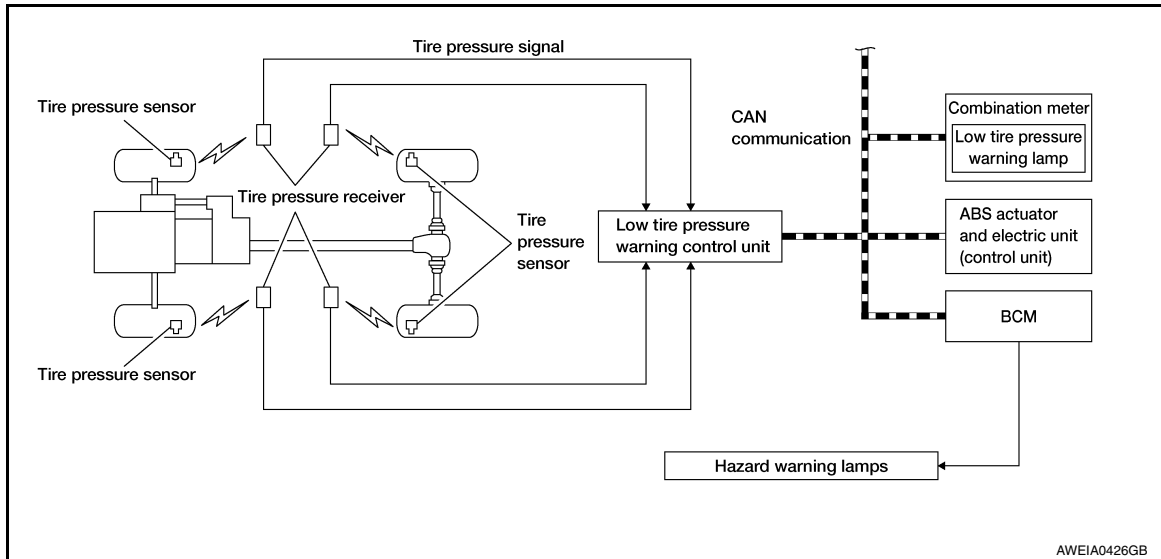
SYSTEM

System Description

INFOID:000000012523041

- The low tire pressure warning control unit has pressure judgment and trouble diagnosis functions. When the low tire pressure warning control unit detects low inflation pressure or another unusual symptom, the low tire pressure warning lamp in the combination meter is illuminated.
- If the tire pressure is less than the specified value, the low tire pressure warning lamp illuminates.
- The TPMS (Tire Pressure Monitoring System) is activated when vehicle speed is 40 km/h (25 MPH) or more.
- The tire pressure information for each wheel is displayed in the vehicle information display.

SYSTEM DIAGRAM



INPUT/OUTPUT SIGNAL

Component	Signal Description
Low tire pressure warning control unit	Transmits the low tire pressure warning lamp signal via CAN communication to combination meter.
BCM	Receives the hazard request signal via CAN communication from the low tire pressure warning control unit.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal (ABS) via CAN communication to low tire pressure warning control unit.

LOW TIRE PRESSURE WARNING LAMP CONTROL CONDITION

Low tire pressure warning control unit uses CAN communication to illuminate the low tire pressure warning lamp in the combination meter.

Condition	Low tire pressure warning lamp
Ignition switch: OFF	OFF
Ignition switch: ON (System normal)	Warning lamp turns on for 1second, then turns OFF.
When tire pressure is low	ON
Tire pressure monitoring system malfunction	Warning lamp blinks 1 minute, then turns ON.
When performing ID registration	Refer to WT-26, "Work Procedure" .

HAZARD WARNING LAMP CONTROL CONDITION

The low tire pressure warning control unit transmits a hazard request signal to the BCM. The BCM flashes the hazard warning lamps under the following conditions:

- When ID registration of each wheel has been completed. Refer to [WT-26, "Work Procedure"](#).

DIAGNOSIS SYSTEM (LOW TIRE PRESSURE WARNING CONTROL UNIT)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (LOW TIRE PRESSURE WARNING CONTROL UNIT)

CONSULT Function

INFOID:000000012523042

NOTE:

The Signal Tech II Tool [- (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

FUNCTION

CONSULT can display each diagnostic item using the following direct diagnostic modes.

Direct Diagnostic Mode	Description
ECU Identification	The low tire pressure warning control unit part number is displayed.
Self Diagnostic Result	The low tire pressure warning control unit self diagnostic results are displayed.
Data Monitor	The low tire pressure warning control unit input/output data is displayed in real time.
Active Test	The low tire pressure warning control unit activates outputs to test components.
Work support	The settings for low tire pressure warning control unit functions can be changed.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

ECU IDENTIFICATION

Part number of low tire pressure warning control unit is displayed.

SELF DIAGNOSTIC RESULT

Refer to [WT-16, "DTC Index"](#).

DATA MONITOR

Monitor Item [Unit]	Description
VHCL SPEED SE [km/h or mph]	Indicates vehicle speed signal received from ABS actuator and electric unit (control unit) on CAN communication line.
AIR PRESS FL [kPa, kg/cm ² or Psi]	Indicates air pressure of front LH tire.
AIR PRESS FR [kPa, kg/cm ² or Psi]	Indicates air pressure of front RH tire.
AIR PRESS RR [kPa, kg/cm ² or Psi]	Indicates air pressure of rear RH tire.
AIR PRESS RL [kPa, kg/cm ² or Psi]	Indicates air pressure of rear LH tire.
ID REGST FL1 [Done/Yet]	Indicates ID registration status of front LH tire pressure sensor.
ID REGST FR1 [Done/Yet]	Indicates ID registration status of front RH tire pressure sensor.
ID REGST RR1 [Done/Yet]	Indicates ID registration status of rear RH tire pressure sensor.
ID REGST RL1 [Done/Yet]	Indicates ID registration status of rear LH tire pressure sensor.
WARNING LAMP [Off/On]	Indicates condition of low tire pressure warning light in combination meter.
BUZZER [Off/On]	Indicates condition of buzzer in combination meter.

ACTIVE TEST

Test Item	Description
BUZZER	This test is able to check buzzer operation [Off/On].
WARN LAMP	This test is able to check low tire pressure warning light operation [Off/On].

WORK SUPPORT

DIAGNOSIS SYSTEM (LOW TIRE PRESSURE WARNING CONTROL UNIT)

< SYSTEM DESCRIPTION >







Support Item	Description
ID REGIST	Refer to WT-26. "Description" .

CAN DIAG SUPPORT MNTR

Refer to [LAN-16. "Trouble Diagnosis Flow Chart"](#).





Self Diagnosis Without CONSULT

INFOID:000000012523043

Diagnosis items	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
Low tire pressure warning lamp	The low tire pressure warning lamp illuminates for 1 second, then turns OFF.	 ON 1 sec > stays OFF SEIA0592E	ID registration for all tire pressure sensors at wheels is completed.	No procedure. (No system malfunctions)
	The low tire pressure warning lamp repeats blinking ON for 2 seconds and OFF for 0.2 seconds.	 ON 2 sec > OFF 0.2 sec SEIA0593E	ID registration for all tire pressure sensors at wheels is not completed.	Perform the ID registration for all tire pressure sensors at wheels. Refer to WT-26. "Work Procedure" .
	The low tire pressure warning lamp blinks once.	 Blinks 1 time ON 0.3 sec > OFF 1.0 sec JPEIC0090GB	The front LH wheel tire pressure sensor is not activated.	Perform the ID registration for the tire pressure sensor at front LH wheel. Refer to WT-26. "Work Procedure" .
	The low tire pressure warning lamp repeats blinking twice.	 Blinks 2 times ON 0.3 sec > OFF 0.3 sec SEIA0595E	The front right wheel tire pressure sensor is not activated.	Perform the ID registration for the tire pressure sensor at front right wheel. Refer to WT-26. "Work Procedure" .
	The low tire pressure warning lamp repeats blinking for 3 times.	 Blinks 3 times ON 0.3 sec > OFF 0.3 sec SEIA0596E	The rear right wheel tire pressure sensor is not activated.	Perform the ID registration for the tire pressure sensor at rear right wheel. Refer to WT-26. "Work Procedure" .
	The low tire pressure warning lamp repeats blinking for 4 times.	 Blinks 4 times ON 0.3 sec > OFF 0.3 sec SEIA0597E	The rear LH wheel tire pressure sensor is not activated.	Perform the ID registration for the tire pressure sensor at rear LH wheel. Refer to WT-26. "Work Procedure" .

DIAGNOSIS SYSTEM (LOW TIRE PRESSURE WARNING CONTROL UNIT)

< SYSTEM DESCRIPTION >

Diagnosis items	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
Low tire pressure warning lamp	The low tire pressure warning lamp turns ON and stays illuminated.	 Comes ON and stays ON <small>SEIA0598E</small>	Low tire pressure	Check the tire pressure for all wheels and adjust to the specified value. Refer to WT-69. "Tire" .
	The low tire pressure warning lamp repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated.	   Blinks 1 min ON 0.5 sec > OFF 0.5 sec and stays ON <small>SEIA0788E</small>	The combination meter fuse is open or removed (or pulled out).	Check and install the combination meter fuse. If necessary, replace the fuse.
		The low tire pressure warning control unit harness connector is removed.	Check the connection conditions of the low tire pressure warning control unit harness connector, and repair if necessary.	
		Tire Pressure Monitoring System (TPMS) malfunction.	<ul style="list-style-type: none"> Perform self-diagnosis. If necessary, perform tire pressure sensor ID registration. Refer to WT-26. "Work Procedure". 	
Hazard warning lamp	The hazard warning lamp does not blink twice when the tire pressure sensor is activated.	—	The tire pressure sensor activation tool does not activate.	Replace the battery in the tire pressure sensor activation tool.
			The ignition switch is OFF when the tire pressure sensor ID registration is performed.	Turn the ignition switch ON when performing the tire pressure sensor ID registration.
			The tire pressure sensor activation tool is not used in the correct position.	Operate the tire pressure sensor activation tool in the correct position when performing the ID registration.
			The tire pressure sensor is already awake.	No procedure.

NOTE:

If tire pressure sensor ID registration is not completed for two or more tire pressure sensors, the applicable low tire pressure warning lamp blinking patterns are displayed continuously.

(Example: Blinks once/OFF/blinks 3 times = ID registration is not completed at the front LH wheel and rear RH wheel tire pressure sensors.)

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LOW TIRE PRESSURE WARNING CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

LOW TIRE PRESSURE WARNING CONTROL UNIT

Reference Value

INFOID:0000000012523044

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

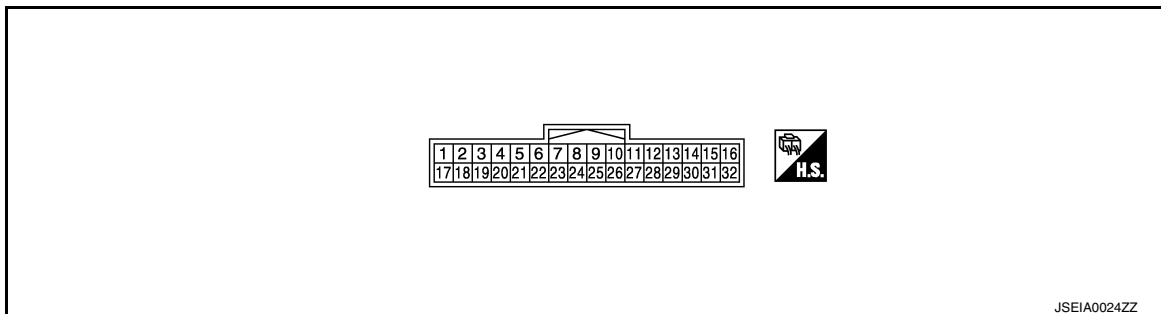
- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

VALUES ON THE DIAGNOSIS TOOL

Monitor item	Condition	Value/Status
VHCL SPEED SE	While driving	Equivalent to speedometer reading
AIR PRESS FL	Front left tire air pressure value*	kPa, kg/cm ² , psi
AIR PRESS FR	Front right tire air pressure value*	kPa, kg/cm ² , psi
AIR PRESS RL	Rear left tire air pressure value*	kPa, kg/cm ² , psi
AIR PRESS RR	Rear right tire air pressure value*	kPa, kg/cm ² , psi
ID REGST FL1	Front LH tire pressure sensor ID is registered	Done
	Front LH tire pressure sensor ID is not registered	Yet
ID REGST FR1	Front RH tire pressure sensor ID is registered	Done
	Front RH tire pressure sensor ID is not registered	Yet
ID REGST RR1	Rear RH tire pressure sensor ID is registered	Done
	Rear RH tire pressure sensor ID is not registered	Yet
ID REGST RL1	Rear LH tire pressure sensor ID is registered	Done
	Rear LH tire pressure sensor ID is not registered	Yet
BUZZER	Buzzer in combination meter OFF	Off
	Buzzer in combination meter ON	On
WARNING LAMP	Low tire pressure warning light ON	On
	Low tire pressure warning light OFF	Off

*: Vehicle must be driven at 40 km/h (25 mph) or more for 10 minutes.

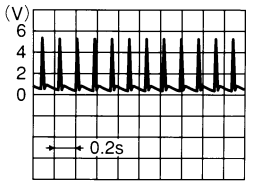
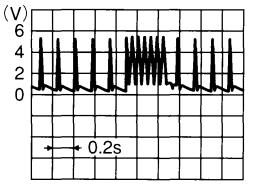
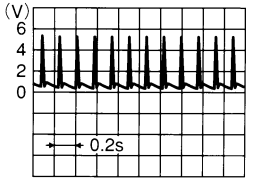
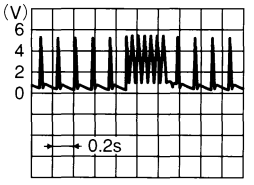
TERMINAL LAYOUT



PHYSICAL VALUES

LOW TIRE PRESSURE WARNING CONTROL UNIT

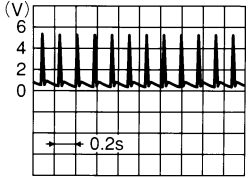



< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
1 (P)	—	CAN-L	Input/ Output	—	—	
2 (L)	—	CAN-H	Input/ Output	—	—	
3 (Y)	Ground	Tire pressure receiver rear RH signal	Input	Ignition switch ON	Standby status	 Approx. 4.5 V
					When signal is received	 Approx. 4.5 V
4 (L)	Ground	Tire pressure receiver rear LH signal	Input	Ignition switch ON	Standby status	 Approx. 4.5 V
					When signal is received	 Approx. 4.5 V

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LOW TIRE PRESSURE WARNING CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)	Description		Condition	Value (Approx.)	
	Signal name	Input/ Output			
5 (R)	Ground	Tire pressure receiver front RH signal	Input	Ignition switch ON	Standby status  OCC3879D Approx. 4.5 V
					When signal is received  OCC3880D Approx. 4.5 V
6 (W)	Ground	Tire pressure receiver front LH signal	Input	Ignition switch ON	Standby status  OCC3879D Approx. 4.5 V
					When signal is received  OCC3880D Approx. 4.5 V
7 (SB)	Ground	Tire pressure receiver rear RH power supply	Output	Ignition switch ON	Approx. 9 - 16 V
				Ignition switch OFF	0 V
8 (GR)	Ground	Tire pressure receiver rear LH power supply	Output	Ignition switch ON	Approx. 9 - 16 V
				Ignition switch OFF	0 V
9 (BR)	Ground	Tire pressure receiver front RH power supply	Output	Ignition switch ON	Approx. 9 - 16 V
				Ignition switch OFF	0 V
10 (LG)	Ground	Tire pressure receiver front LH power supply	Output	Ignition switch ON	Approx. 9 - 16 V
				Ignition switch OFF	0 V
15 (R)	Ground	Power supply	Input	Ignition switch ON	Battery voltage
				Ignition switch OFF	0 V
19 (R)	Ground	Tire pressure receiver rear RH signal (sensitivity)	Input	Ignition switch ON	Approx. 0.7 V
				Ignition switch OFF	0 V
20 (P)	Ground	Tire pressure receiver rear LH signal (sensitivity)	Input	Ignition switch ON	Approx. 0.7 V
				Ignition switch OFF	0 V

LOW TIRE PRESSURE WARNING CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
21 (GR)	Ground	Tire pressure receiver front RH signal (sensitivity)	Input	Ignition switch ON	Approx. 0.7 V
				Ignition switch OFF	0 V
22 (O)	Ground	Tire pressure receiver front LH signal (sensitivity)	Input	Ignition switch ON	Approx. 0.7 V
				Ignition switch OFF	0 V
23 (LG)	Ground	Tire pressure receiver rear RH ground	Input	Always	0 V
24 (L)	Ground	Tire pressure receiver rear LH ground	Input	Always	0 V
25 (W)	Ground	Tire pressure receiver front RH ground	Input	Always	0 V
26 (G)	Ground	Tire pressure receiver front LH ground	Input	Always	0 V
30 (O)	Ground	Hazard	Output	When tire pressure sensor ID regis- tration of each wheel has been com- pleted.	12 V
32 (B)	Ground	Ground	—	Always	0 V

DTC Inspection Priority Chart

INFOID:000000012523045

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	Detected items (DTC)
1	<ul style="list-style-type: none"> • U1000 CAN COMM CIRCUIT • U1010 CONTROL UNIT (CAN)
2	<ul style="list-style-type: none"> • C1704 LOW PRESSURE FL • C1705 LOW PRESSURE FR • C1706 LOW PRESSURE RR • C1707 LOW PRESSURE RL
3	<ul style="list-style-type: none"> • C1755 PR RECEIV COND FL • C1756 PR RECEIV COND FR • C1757 PR RECEIV COND RR • C1758 PR RECEIV COND RL
4	<ul style="list-style-type: none"> • C1708 [NO DATA] FL • C1709 [NO DATA] FR • C1710 [NO DATA] RR • C1711 [NO DATA] RL
5	<ul style="list-style-type: none"> • C1716 [PRESSDATA ERR] FL • C1717 [PRESSDATA ERR] FR • C1718 [PRESSDATA ERR] RR • C1719 [PRESSDATA ERR] RL
7	<ul style="list-style-type: none"> • C1728 RECEIVER ID NO REG
8	<ul style="list-style-type: none"> • C1729 VHCL SPEED SIG ERR
9	<ul style="list-style-type: none"> • C1750 [RECEIVER ERR] FL • C1751 [RECEIVER ERR] FR • C1752 [RECEIVER ERR] RR • C1753 [RECEIVER ERR] RL
10	<ul style="list-style-type: none"> • C1754 CONT UNIT (EEPROM)

LOW TIRE PRESSURE WARNING CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

DTC Index

INFOID:000000012523046

DTC	Items (CONSULT screen terms)	Reference
C1704	LOW PRESSURE FL	WT-30, "DTC Logic"
C1705	LOW PRESSURE FR	
C1706	LOW PRESSURE RR	
C1707	LOW PRESSURE RL	
C1708	[NO DATA] FL	WT-32, "DTC Logic"
C1709	[NO DATA] FR	
C1710	[NO DATA] RR	
C1711	[NO DATA] RL	
C1716	[PRESSDATA ERR] FL	WT-36, "DTC Logic"
C1717	[PRESSDATA ERR] FR	
C1718	[PRESSDATA ERR] RR	
C1719	[PRESSDATA ERR] RL	
C1728	RECEIVER ID NO REG	WT-38, "DTC Logic"
C1729	VHCL SPEED SIG ERR	WT-41, "DTC Logic"
C1750	[RECEIVER ERR] FL	WT-43, "DTC Logic"
C1751	[RECEIVER ERR] FR	
C1752	[RECEIVER ERR] RR	
C1753	[RECEIVER ERR] RL	
C1754	CONT UNIT (EEPROM)	WT-46, "DTC Logic"
C1755	PR RECEIV COND FL	WT-49, "DTC Logic"
C1756	PR RECEIV COND FR	
C1757	PR RECEIV COND RR	
C1758	PR RECEIV COND RL	
U1000	CAN COMM CIRCUIT	WT-51, "DTC Logic"
U1010	CONTROL UNIT (CAN)	WT-52, "DTC Logic"

NOTE:

If more than one DTC is displayed, refer to [WT-15, "DTC Inspection Priority Chart"](#).

TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

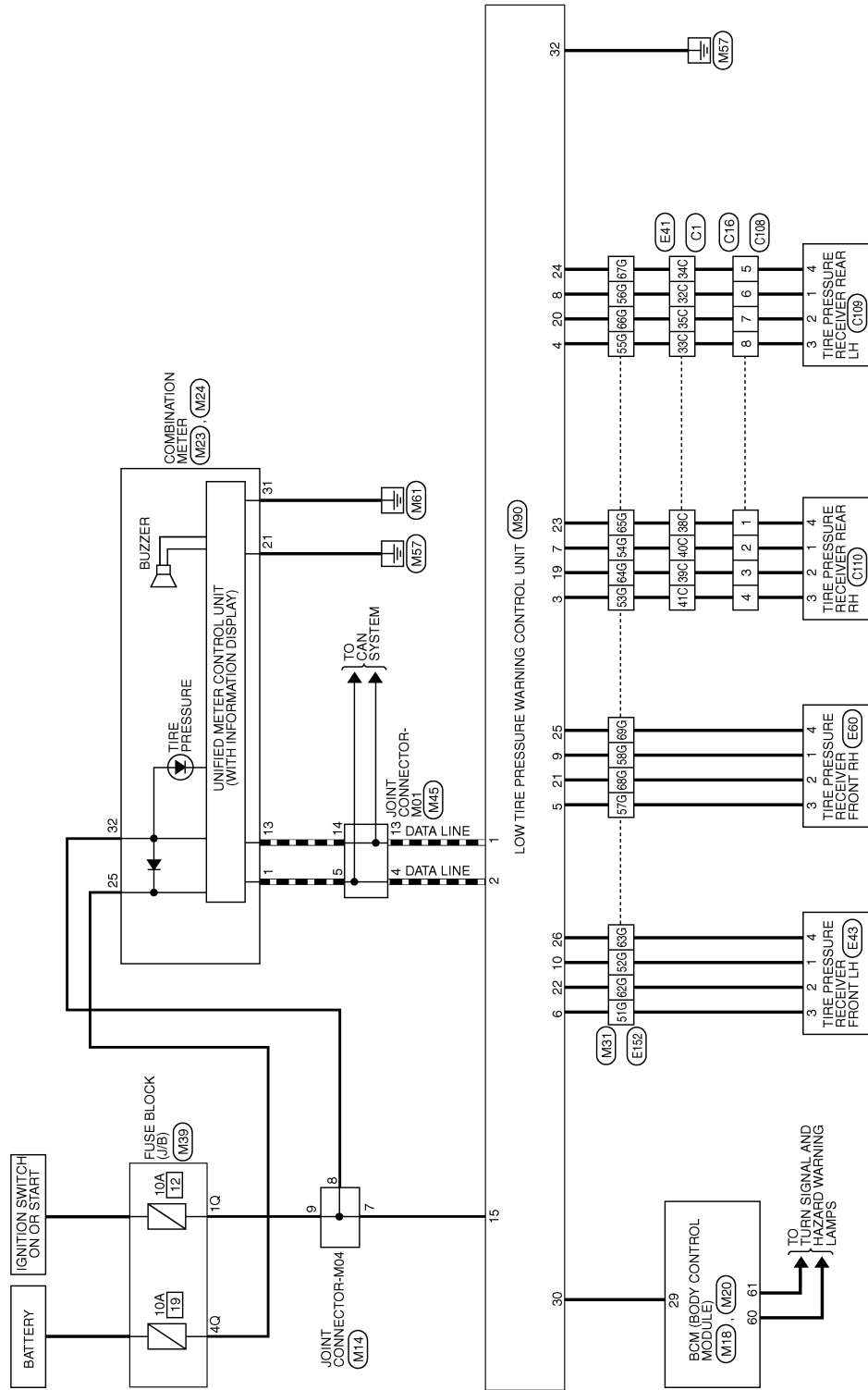
WIRING DIAGRAM

TIRE PRESSURE MONITORING SYSTEM

Wiring Diagram

INFOID:0000000012523047

TIRE PRESSURE MONITORING SYSTEM



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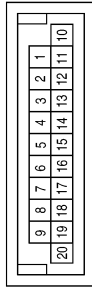
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TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

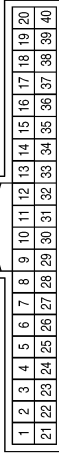
TIRE PRESSURE MONITORING SYSTEM CONNECTORS

Connector No.	M14
Connector Name	JOINT CONNECTOR-M04
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
7	R	-
8	R	-
9	R	-

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



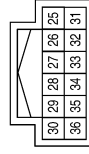
Terminal No.	Color of Wire	Signal Name
29	O	HAZARD SW

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



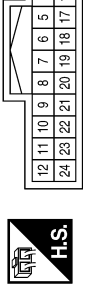
Terminal No.	Color of Wire	Signal Name
60	Y	FLASHER OUTPUT (LEFT)
61	G	FLASHER OUTPUT (RIGHT)

Connector No.	M23
Connector Name	COMBINATION METER
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
25	Y	BATTERY
31	B	GND (POWER)
32	R	RUN START

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE

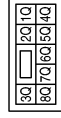


Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
13	P	CAN-L
21	B	GND (ILL)

TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

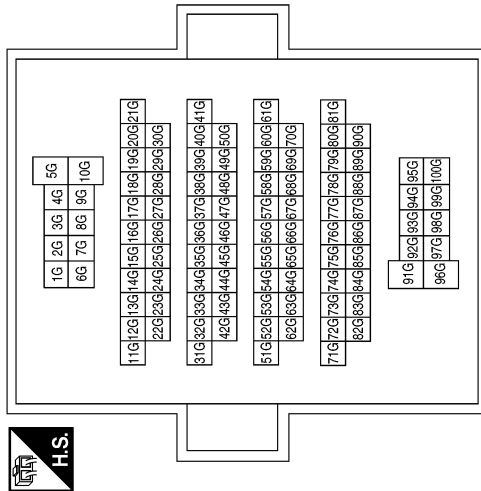
Connector No.	M39
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



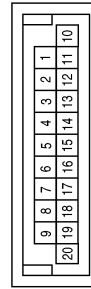
Terminal No.	Color of Wire	Signal Name
1Q	R	-
4Q	Y	-

Terminal No.	Color of Wire	Signal Name
51G	W	-
52G	LG	-
53G	Y	-
54G	SB	-
55G	L	-
56G	GR	-
57G	R	-
58G	BR	-
62G	O	-
63G	G	-
64G	R	-
65G	LG	-
66G	P	-
67G	L	-
68G	GR	-
69G	W	-

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M45
Connector Name	JOINT CONNECTOR-M01
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
4	L	-
5	L	-
13	P	-
14	P	-

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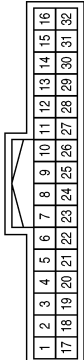
TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
21	GR	RSSI FR
22	O	RSSI FL
23	LG	GND RR
24	L	GND RL
25	W	GND FR
26	G	GND FL
27	-	-
28	-	-
29	-	-
30	O	HAZARD
31	-	-
32	B	GND

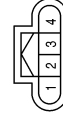
Terminal No.	Color of Wire	Signal Name
7	SB	VCC RR
8	GR	VCC RL
9	BR	VCC FR
10	LG	VCC FL
11	-	-
12	-	-
13	-	-
14	-	-
15	R	IGN
16	-	-
17	-	-
18	-	-
19	R	RSSI RR
20	P	RSSI RL

Connector No.	M90
Connector Name	LOW TIRE PRESSURE WARNING CONTROL UNIT
Connector Color	WHITE



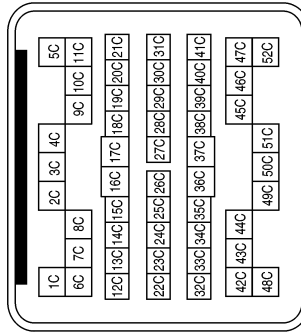
Terminal No.	Color of Wire	Signal Name
1	P	CAN-L
2	L	CAN-H
3	Y	DATA RR
4	L	DATA RL
5	R	DATA FR
6	W	DATA FL

Connector No.	E43
Connector Name	TIRE PRESSURE RECEIVER FRONT LH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
32C	GR	-
33C	L	-
34C	L	-
35C	P	-
38C	GR	-
39C	R	-
40C	SB	-
41C	Y	-

Connector No.	E41
Connector Name	WIRE TO WIRE
Connector Color	GRAY

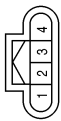


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TIRE PRESSURE MONITORING SYSTEM

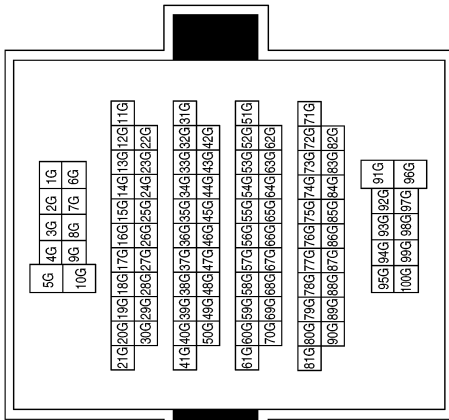
< WIRING DIAGRAM >

Connector No.	E60
Connector Name	TIRE PRESSURE RECEIVER FRONT RH
Connector Color	BLACK



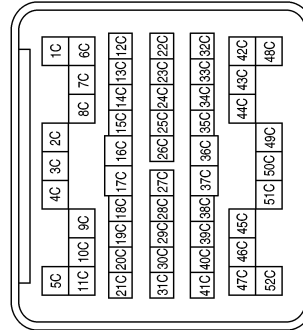
Terminal No.	Color of Wire	Signal Name
1	BR	-
2	GR	-
3	R	-
4	W	-

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Color	WHITE



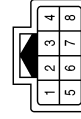
Terminal No.	Color of Wire	Signal Name
51G	W	-
52G	LG	-
53G	Y	-
54G	SB	-
55G	L	-
56G	GR	-
57G	R	-
58G	BR	-
62G	O	-
63G	G	-
64G	R	-
65G	GR	-
66G	P	-
67G	L	-
68G	GR	-
69G	W	-

Connector No.	C1
Connector Name	WIRE TO WIRE
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
32C	GR	-
33C	L	-
34C	L	-
35C	P	-
38C	GR	-
39C	R	-
40C	SB	-
41C	Y	-

Connector No.	C16
Connector Name	WIRE TO WIRE
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	GR	-
2	SB	-
3	R	-
4	Y	-
5	L	-
6	GR	-
7	P	-
8	L	-

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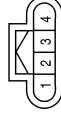
A B C D E F G H I J K L M N O P

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TIRE PRESSURE MONITORING SYSTEM

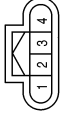
< WIRING DIAGRAM >

Connector No.	C110
Connector Name	TIRE PRESSURE RECEIVER REAR RH
Connector Color	BLACK



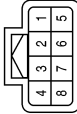
Terminal No.	Color of Wire	Signal Name
1	SB	-
2	R	-
3	Y	-
4	GR	-

Connector No.	C109
Connector Name	TIRE PRESSURE RECEIVER REAR LH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	GR	-
2	P	-
3	L	-
4	L	-

Connector No.	C108
Connector Name	WIRE TO WIRE
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	GR	-
2	SB	-
3	R	-
4	Y	-
5	L	-
6	GR	-
7	P	-
8	L	-

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000012523048

1. COLLECT INFORMATION FROM CUSTOMER

Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2. TIRE PRESSURE INSPECTION

Check the tire pressure for all wheels. Refer to [WT-69, "Tire"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace tire(s) or wheel(s).

3. CHECK LOW TIRE PRESSURE WARNING LIGHT

Check that the low tire pressure warning light illuminates for approximately 1 second after the ignition switch is turned ON, then turns OFF.

Does the low tire pressure warning light turn OFF?

YES >> GO TO 4.

NO >> GO TO 5.

4. CHECK VEHICLE INFORMATION DISPLAY TIRE PRESSURE INFORMATION

Check that the tire pressure displayed in vehicle information display matches tire pressure inspection from step 2.

Does the vehicle information display match tire pressure inspection?

YES >> Inspection End.

NO >> Refer to [MWI-13, "INFORMATION DISPLAY : System Description"](#).

5. CHECK VEHICLE INFORMATION DISPLAY PRESSURE WARNING

Check the vehicle information display for a "CHECK TIRE" pressure warning.

Is "CHECK TIRE" displayed in the vehicle information display?

YES >> GO TO 7.

NO >> GO TO 6.

6. CHECK VEHICLE INFORMATION DISPLAY ERROR WARNING

Check the vehicle information display for a "TPMS ERROR" warning.

Is "TPMS ERROR" displayed in the vehicle information display?

YES >> GO TO 7.

NO >> GO TO 8.

7. PERFORM SELF DIAGNOSTIC RESULT

Perform self diagnostic result. Refer to [WT-9, "CONSULT Function"](#).

Are any DTCs displayed?

YES >> Refer to [WT-16, "DTC Index"](#). If two or more DTCs are displayed, refer to [WT-15, "DTC Inspection Priority Chart"](#).

NO >> GO TO 8.

8. PERFORM DIAGNOSIS APPLICABLE TO THE SYMPTOM

Perform diagnosis applicable to the symptom. Refer to [WT-54, "Symptom Table"](#).

>> GO TO 9.

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

9.FINAL CHECK

Perform self diagnostic result again, and check that the malfunction is repaired. After checking, erase the self diagnosis memory. Refer to [WT-9, "CONSULT Function"](#).

>> Inspection End.

ADDITIONAL SERVICE WHEN REPLACING LOW TIRE PRESSURE WARNING CONTROL UNIT

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING LOW TIRE PRESSURE WARNING CONTROL UNIT

Description

INFOID:000000012523049

When replacing low tire pressure warning control unit, tire pressure sensor ID registration is required.

Work Procedure

INFOID:000000012523050

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

1.PERFORM TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration.

>> Refer to [WT-26. "Work Procedure"](#).

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ID REGISTRATION

< BASIC INSPECTION >

ID REGISTRATION

Description

INFOID:000000012523051

This procedure must be performed after replacement of a tire pressure sensor, low tire pressure warning control unit or rotation of the wheels.

Work Procedure

INFOID:000000012523052

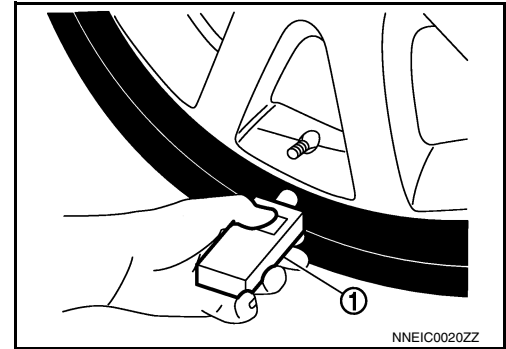
TPMS ID registration can be performed using one of the following procedures:

- Transmitter Activation tool [KV48105501 (J-45295-A)] with CONSULT (preferred method)
- Signal Tech II tool [- (J-50190)] with CONSULT (preferred method)
- Signal Tech II tool [- (J-50190)] without CONSULT
- CONSULT only
- Using combination meter

TPMS REGISTRATION WITH TRANSMITTER ACTIVATION TOOL [KV48105501 (J-45295-A)]

With CONSULT

1. Turn the ignition switch ON.
2. Using CONSULT, select "Work support" in AIR PRESSURE MONITOR. Then, select "ID REGIST."
3. Select "Start" on "ID REGIST" screen.
4. Hold the transmitter activation tool [KV48105501 (J-45295-A)] (1) against the side of the left front tire, near the valve stem.
5. With the tool held at a 0 to 15 degree angle to the tire, press and hold the transmitter activation tool button until the indicator lamp turns OFF (approximately 5 seconds).
6. Repeat steps 4 and 5 for the remaining tires in this order: right front, right rear and left rear.



7. When ID registration is complete, check the following pattern at each wheel.

Sequence	ID registration position	Turn signal lamp	CONSULT
1	Front LH	2 blinks	"Yet (red)" ↓ "Done (green)"
2	Front RH		
3	Rear RH		
4	Rear LH		

8. After the ID registration procedure for all wheels is complete, press "End" on the CONSULT to finish ID registration.
9. Test drive the vehicle to ensure that the TPMS lamp is OFF and no warning messages are present.

TPMS REGISTRATION WITH SIGNAL TECH II TOOL [- (J-50190)]

NOTE:

The Signal Tech II must be updated with the newest software version in order to perform the below procedures. The Signal Tech II software updates can only be downloaded from a CONSULT unit with ASIST. Other versions of ASIST will not show the updates.

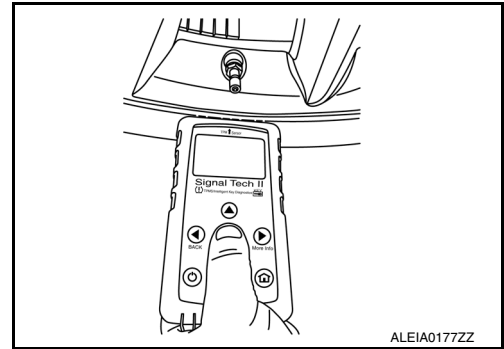
With CONSULT

1. Adjust the tire pressure for all tires to the recommended value. Refer to [WT-69, "Tire"](#).
2. Turn the ignition switch ON.
3. Using CONSULT, select "Work support" in AIR PRESSURE MONITOR. Then, select "ID REGIST."
4. Select "Start" on "ID REGIST" screen.
5. Turn on the Signal Tech II tool [- (J-50190)].

ID REGISTRATION

< BASIC INSPECTION >

6. Hold the Signal Tech II against the side of the left front tire, near the valve stem.
7. With the tool held at a 0 to 15 degree angle to the tire, select "Activate Sensor" from the main menu, then press and release the "OK" button to activate the sensor. Once the sensor is activated, the vehicle parking lamps will flash and the sensor ID will appear on the CONSULT screen.
8. Repeat steps 6 and 7 for the remaining tires in this order: right front, right rear and left rear.
9. When ID registration is complete, check the following pattern at each wheel.

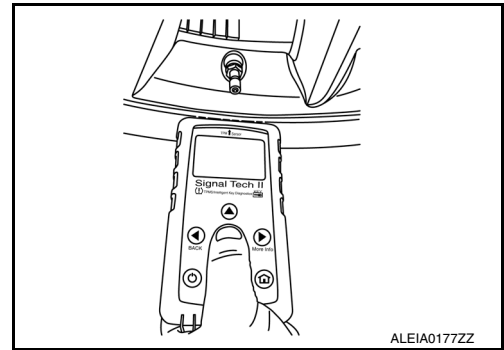


Sequence	ID registration position	Turn signal lamp	CONSULT
1	Front LH	2 blinks	"Yet (red)" ↓ "Done (green)"
2	Front RH		
3	Rear RH		
4	Rear LH		

10. Once all sensors have been activated, select "End" on the CONSULT to finish ID registration.
11. Test drive the vehicle to ensure that the TPMS lamp is OFF and no warning messages are present.

⊗ Without CONSULT

1. Adjust the tire pressure for all tires to the recommended value. Refer to [WT-69, "Tire"](#).
2. Turn on the Signal Tech II tool [- (J-50190)] and select "TPMS Check" from the main menu.
3. Select vehicle model and year.
4. When prompted, hold the Signal Tech II against the side of the left front tire, near the valve stem.
5. With the tool held at a 0 to 15 degree angle to the tire, press and release the "OK" button to activate the sensor. Once the sensor is activated, the tool will sound a tone and the tire pressure will be displayed.
6. Repeat steps 4 and 5 for the remaining tires in this order: right front, right rear and left rear.
7. When prompted, connect the tool to the data link connector. The tool will connect to the BCM, read the VIN, read sensor IDs and check for TPMS DTCs. Along with DTCs detected, one of the following will be displayed next to each wheel:
 - N/A - Not applicable because no ID found by the tool
 - OK - Wheel and sensor are in original position
 - NEW - New ID found compared to BCM
 - RT - Wheel has been rotated
 - Low Press - Low tire pressure
8. If no DTC is present or the repair has been completed, press the "OK" button to register the IDs and clear DTCs.
9. Test drive the vehicle to ensure that the TPMS lamp is OFF and no warning messages are present.
10. Print a Signal Tech II Audit Report for your records. Refer to the Signal Tech II User Guide for instructions.



TPMS REGISTRATION WITH CONSULT ONLY

Ⓟ With CONSULT

1. Adjust the tire pressure for all wheels to match the list below.

Tire position	Tire pressure kPa (kg/cm ² , psi)
Front LH	240 (2.4, 35)
Front RH	220 (2.2, 32)
Rear RH	200 (2.0, 29)
Rear LH	180 (1.8, 26)

ID REGISTRATION

< BASIC INSPECTION >

2. Turn the ignition switch ON.
3. Using CONSULT, select "Work support" in AIR PRESSURE MONITOR. Then, select "ID REGIST."
4. Select "Start" on "ID REGIST" screen.
5. Drive the vehicle at a speed greater than 40 km/h (25 MPH) for 3 minutes or more.
6. After ID registration for all wheels is complete, press "End" on the CONSULT to finish ID registration.

ID registration position	CONSULT
Front LH	"Yet (red)" ↓ "Done (green)"
Front RH	
Rear RH	
Rear LH	

7. Adjust the tire pressures for all tires to the recommended value. Refer to [WT-69, "Tire"](#).
8. Test drive the vehicle to ensure that the TPMS lamp is OFF and no warning messages are present.

USING COMBINATION METER

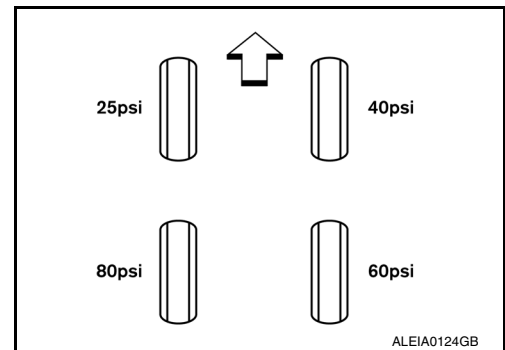
After rotating the tires, the TPMS sensor position needs to be relearned.

1. Decrease air pressure for at least 30 seconds continuously for each tire [more than 10 psi (34.5 kPa) within 30 seconds] to place the TPMS system into relearn mode for 30 minutes.
2. Adjust the tire pressure to the levels shown in the illustration.
3. On the combination meter, start the relearn procedure using the INFO knob as follows: SETTINGS→TPMS MENU→RE-LEARN→CONFIRM→LEARNING.
The TPMS warning lamp flashes continuously when the system is relearning the tire positions.

NOTE:

The relearn procedure can be cancelled by placing the ignition switch in the OFF position or by driving the vehicle over 3 mph (5 km/h).

4. When the relearn procedure is successfully completed:
 - the message "RELEARN OK" is displayed in the combination meter.
 - the hazard lamps flash once.
 - the horn chirps once.
 - the combination meter chimes 3 times
5. Adjust the tire pressures to the cold tire pressure specification. Refer to [WT-69, "Tire"](#).
 - If the tire pressures are correct, the TPMS warning lamp turns OFF.
 - If the tires are not inflated to the correct cold tire pressure, the TPMS warning lamp illuminates. Recheck the tire pressures and adjust as necessary.



If a different message is displayed or if the relearn procedure is stopped before completion, the new tire positions are not learned. Repeat the complete relearn procedure to reset the tire positions.

If "NOT READY→SEE MANUAL" is displayed, the tire sensors did not enter learn mode properly. Decrease the air pressure for at least 30 seconds continuously for each tire [more than 10 psi (34.5 kPa) within 30 seconds] to enter the proper mode. If the tire pressure cannot be reduced at least 10 psi (34.5 kPa) to adjust them to the relearn pressures, inflate the tires to at least 10 psi (34.5 kPa) above the specified pressures. Readjust the tire pressures according to the learn mode in step 2 and then select TPMS MENU→RE-LEARN→CONFIRM from the combination meter SETTINGS menu to complete the relearn procedure.

If "INCOMPLETE→SEE MANUAL" is displayed, the system could not detect the specific tire pressures shown in the learn mode diagram in step 2. Ensure each tire is set to its proper pressure according to the diagram and select TPMS MENU→RE-LEARN→CONFIRM from the combination meter SETTINGS menu to complete the relearn procedure.

If the relearn procedure does not work, check the following and retry the procedure:

- Devices which emit electronic interference should be turned OFF before starting the relearn procedure. The interference may prevent the system from learning the new tire positions. Turn OFF or remove sources of electrical interference. If necessary, move the vehicle to another location, then perform the complete relearn procedure to reset the tire positions.
- Use an air pump that is capable of inflating the tires to the required pressure specifications. The air pump must be capable of inflating a tire at least 10 psi (34.5 kPa) in 30 seconds.
- If the reset TPMS function is unintentionally selected, place the ignition switch in the OFF position, then to the ON position to end the relearn procedure.

ID REGISTRATION

< BASIC INSPECTION >

- If the vehicle is not recognizing the new tire pressure levels, move the vehicle forward 40 inches (1 meter). Place the ignition switch in the OFF position, then to the ON position. Perform the relearn procedure beginning at step 1. Make sure that the tire pressures are increased or decreased at least 10 psi (34.5 kPa).

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C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

DTC Logic

INFOID:000000012523053

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible causes
C1704	LOW PRESSURE FL	Front LH wheel pressure drops to 283 kPa (2.89 kg/cm ² , 41 psi) or less	Low tire pressure
C1705	LOW PRESSURE FR	Front RH wheel pressure drops to 283 kPa (2.89 kg/cm ² , 41 psi) or less	
C1706	LOW PRESSURE RR	Rear RH wheel pressure drops to 431 kPa (4.39 kg/cm ² , 62.5 psi) or less	
C1707	LOW PRESSURE RL	Rear LH wheel pressure drops to 431 kPa (4.39 kg/cm ² , 62.5 psi) or less	

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

1. Turn the ignition switch ON.
2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-69, "Tire"](#).
3. Perform "Self Diagnostic Result".

Is DTC "C1704", "C1705", "C1706", or "C1707" detected?

- YES >> Proceed to [WT-30, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:000000012523054

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

1. CHECK DATA MONITOR

With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Stop the vehicle.
3. Select "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR" and "AIR PRESS RL" in "Data Monitor" of "AIR PRESSURE MONITOR".
4. Within 5 minutes after vehicle stopped, check that the tire pressures are within specification. Refer to [WT-69, "Tire"](#).

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

Monitor item	Displayed value
AIR PRESS FL	Approximately equal to the indication on tire gauge value for front LH tire
AIR PRESS FR	Approximately equal to the indication on tire gauge value for front RH tire
AIR PRESS RR	Approximately equal to the indication on tire gauge value for rear RH tire
AIR PRESS RL	Approximately equal to the indication on tire gauge value for rear LH tire

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace malfunctioning components.

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C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

DTC Logic

INFOID:000000012523055

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1708	[NO DATA] FL	Tire pressure data signal from the front LH wheel tire pressure sensor cannot be detected.	<ul style="list-style-type: none">• Harness or connector connection malfunction• Tire pressure sensor ID registration incomplete• Tire pressure sensor malfunction
C1709	[NO DATA] FR	Tire pressure data signal from the front RH wheel tire pressure sensor cannot be detected.	
C1710	[NO DATA] RR	Tire pressure data signal from the rear RH wheel tire pressure sensor cannot be detected.	
C1711	[NO DATA] RL	Tire pressure data signal from the rear LH wheel tire pressure sensor cannot be detected.	

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Stop the vehicle.
3. Perform “Self Diagnostic Result”.

Is DTC “C1708”, “C1709”, “C1710” or “C1711” detected?

- YES >> Proceed to [WT-32, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:000000012523056

Regarding Wiring Diagram information, refer to [WT-17, "Wiring Diagram"](#).

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

1. CHECK DATA MONITOR

With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Stop the vehicle.
3. Select “AIR PRESS FL”, “AIR PRESS FR”, “AIR PRESS RR” and “AIR PRESS RL” in “Data Monitor” of “AIR PRESSURE MONITOR”.
4. Within 5 minutes after vehicle is stopped, read the values displayed on CONSULT.

Are all tire pressures displayed 0 kPa (psi)?

- YES >> GO TO 2.

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 8.

2. CHECK RECEIVER POWER CIRCUIT CONTINUITY

1. Turn the ignition switch OFF.
2. Disconnect low tire pressure warning control unit and tire pressure receivers connectors.
3. Check continuity between low tire pressure warning control unit connector and tire pressure receiver connectors.

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M90	10	E43 (Front LH)	1	Yes
	9	E60 (Front RH)		
	8	C109 (Rear LH)		
	7	C110 (Rear RH)		

4. Check continuity between low tire pressure warning control unit connector and ground.

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M90	10	Ground	No
	9		
	8		
	7		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning harness or connector.

3. CHECK RECEIVER SIGNAL CIRCUIT

1. Check continuity between low tire pressure warning control unit connector and tire pressure receiver connectors.

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M90	6	E43 (Front LH)	3	Yes
	5	E60 (Front RH)		
	4	C109 (Rear LH)		
	3	C110 (Rear RH)		

2. Check the continuity between low tire pressure warning control unit connector and ground.

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M90	6	Ground	No
	5		
	4		
	3		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning harness or connector.

4. CHECK RECEIVER SIGNAL SENSITIVITY CIRCUIT

1. Check continuity between low tire pressure warning control unit connector and tire pressure receiver connectors.

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M90	22	E43 (Front LH)	2	Yes
	21	E60 (Front RH)		
	20	C109 (Rear LH)		
	19	C110 (Rear RH)		

2. Check the continuity between low tire pressure warning control unit harness connector and ground.

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M90	22	Ground	No
	21		
	20		
	19		

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning harness or connector.

5. CHECK RECEIVER GROUND CIRCUIT

1. Check continuity between low tire pressure warning control unit connector and tire pressure receiver connectors.

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M90	26	E43 (Front LH)	4	Yes
	25	E60 (Front RH)		
	24	C109 (Rear LH)		
	23	C110 (Rear RH)		

2. Check the continuity between low tire pressure warning control unit harness connector and ground.

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M90	26	Ground	No
	25		
	24		
	23		

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning harness or connector.

6. CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

1. Connect low tire pressure warning control unit harness connector.
2. Turn the ignition switch ON.
3. Check voltage between tire pressure receiver connector and ground.

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Tire pressure receiver		—	Voltage
Connector	Terminal		
E43 (Front LH)	1	Ground	Approx. 9 - 16 V
E60 (Front RH)			
C109 (Rear LH)			
C110 (Rear RH)			

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace the low tire pressure warning control unit. Refer to [WT-64. "Removal and Installation"](#).

7. TIRE PRESSURE RECEIVER SIGNAL

Check tire pressure receiver signal. Refer to [WT-43. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace malfunctioning components.

8. TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to [WT-26. "Work Procedure"](#).

Is tire pressure sensor ID registration completed?

YES >> GO TO 9.

NO >> Replace applicable tire pressure sensor. Refer to [WT-65. "Removal and Installation"](#).

9. CHECK TIRE PRESSURE SIGNAL

With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Stop the vehicle.
3. Select "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR" and "AIR PRESS RL" in "Data Monitor" of "AIR PRESSURE MONITOR".
4. Within 5 minutes after vehicle stopped, check that the tire pressures are within specification. Refer to [WT-69. "Tire"](#).

Monitor item	Displayed value
AIR PRESS FL	Approximately equal to the indication on tire gauge value for front LH tire
AIR PRESS FR	Approximately equal to the indication on tire gauge value for front RH tire
AIR PRESS RR	Approximately equal to the indication on tire gauge value for rear RH tire
AIR PRESS RL	Approximately equal to the indication on tire gauge value for rear LH tire

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace the low tire pressure warning control unit. Refer to [WT-64. "Removal and Installation"](#).

C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

DTC Logic

INFOID:000000012523057

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1716	[PRESSDATA ERR] FL	Malfunction in the tire pressure data* from the front LH wheel tire pressure sensor.	<ul style="list-style-type: none">• Tire pressure sensor ID registration incomplete• Tire pressure sensor malfunction
C1717	[PRESSDATA ERR] FR	Malfunction in the tire pressure data* from the front RH wheel tire pressure sensor.	
C1718	[PRESSDATA ERR] RR	Malfunction in the tire pressure data* from the rear RH wheel tire pressure sensor.	
C1719	[PRESSDATA ERR] RL	Malfunction in the tire pressure data* from the rear LH wheel tire pressure sensor.	

*: In this case the low tire pressure warning control unit judges that the tire pressure is 879.08 kPa (8.96 kg/cm², 127.5 psi).

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

1. Turn the ignition switch ON.
2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-69, "Tire"](#).
3. Perform "Self Diagnostic Result".

Is DTC "C1716", "C1717", "C1718", or "C1719" detected?

- YES >> Proceed to [WT-36, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:000000012523058

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

1. CHECK TIRE PRESSURE

Check the air pressure of all wheels. Refer to pressure observed during "DTC CONFIRMATION PROCEDURE".

Is the inspection result normal?

- YES >> Replace the DTC-detected malfunctioning tire pressure sensor. Refer to [WT-65, "Removal and Installation"](#).
NO >> GO TO 2.

2. CHECK TIRE PRESSURE SIGNAL

With CONSULT

1. Perform tire pressure sensor ID registration for all wheels. Refer to [WT-26, "Work Procedure"](#).

C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

2. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
3. Stop the vehicle.
4. Select "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR" and "AIR PRESS RL" in "Data Monitor" of "AIR PRESSURE MONITOR."
5. Within 5 minutes after vehicle is stopped, read the values displayed on CONSULT.

Are tire pressures displayed as 879.08 kPa (8.96 kg/cm², 127.5 psi)?

- YES >> Replace tire pressure sensor that tire pressure is displayed as 879.08 kPa (8.96 kg/cm², 127.5 psi). Refer to [WT-65. "Removal and Installation"](#).
- NO >> Perform "DTC CONFIRMATION PROCEDURE" again. Refer to [WT-36. "DTC Logic"](#).

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C1728 RECEIVER ID

< DTC/CIRCUIT DIAGNOSIS >

C1728 RECEIVER ID

DTC Logic

INFOID:0000000012523059

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1728	RECEIVER ID NO REG	Receiver ID registration cannot be performed.	<ul style="list-style-type: none">• Tire pressure receiver malfunction• Low tire pressure warning control unit malfunction

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

Ⓟ With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Stop the vehicle.
3. Perform "Self Diagnostic Result".

Is DTC "C1728" detected?

- YES >> Proceed to [WT-38, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012523060

Regarding Wiring Diagram information, refer to [WT-17, "Wiring Diagram"](#).

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

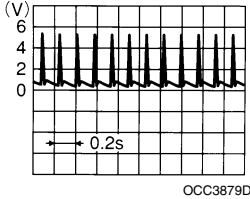
1. CHECK TIRE PRESSURE RECEIVER INPUT SIGNAL

1. Turn ignition switch ON.
2. Check the input signal waveform between the low tire pressure warning control unit connector and ground.

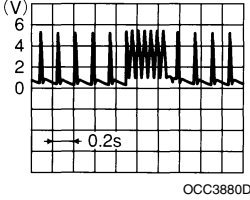
C1728 RECEIVER ID

< DTC/CIRCUIT DIAGNOSIS >

STANDBY STATUS

Low tire pressure warning control unit		—	Value (Approx.)
Connector	Terminal		
M90	3	Ground	 <p style="text-align: center;">Approx. 4.5 V</p>
	4		
	5		
	6		

WHEN SIGNAL IS RECEIVED

Low tire pressure warning control unit		—	Value (Approx.)
Connector	Terminal		
M90	3	Ground	 <p style="text-align: center;">Approx. 4.5 V</p>
	4		
	5		
	6		

Is the inspection result normal?

YES >> Check connector for loose connection, then perform "DTC CONFIRMATION PROCEDURE" again. Refer to [WT-38, "DTC Logic"](#).

NO >> GO TO 2.

2. CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

1. Disconnect the tire pressure receiver connector.
2. Turn ignition switch ON.
3. Check voltage between tire pressure receiver connector and ground.

Tire pressure receiver		—	Voltage
Connector	Terminal		
E43 (Front LH)	1	Ground	Approx. 9 - 16 V
E60 (Front RH)			
C109 (Rear LH)			
C110 (Rear RH)			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning harness or connector.

3. CHECK TIRE PRESSURE RECEIVER GROUND CIRCUIT

1. Turn the ignition switch OFF.
2. Disconnect low tire pressure warning control unit connector.
3. Check continuity between low tire pressure warning control unit connector and tire pressure receiver connector.

C1728 RECEIVER ID

< DTC/CIRCUIT DIAGNOSIS >

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M90	26	E43 (Front LH)	4	Yes
	25	E60 (Front RH)		
	24	C109 (Rear LH)		
	23	C110 (Rear RH)		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning harness or connector.

4.CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT CIRCUIT

Check the low tire pressure warning control unit circuit. Refer to [WT-46, "Diagnosis Procedure"](#).

Is the low tire pressure warning control unit circuit normal?

YES >> Replace the tire pressure receiver. Refer to [WT-67, "FRONT TIRE PRESSURE RECEIVER : Removal and Installation"](#) (Front), [WT-68, "REAR TIRE PRESSURE RECEIVER : Removal and Installation"](#) (Rear).

NO >> Repair or replace malfunctioning components.

C1729 VEHICLE SPEED SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

C1729 VEHICLE SPEED SIGNAL

DTC Logic

INFOID:0000000012523061

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1729	VHCL SPEED SIG ERR	Vehicle speed signal not detected.	<ul style="list-style-type: none">• CAN communication malfunction• Low tire pressure warning control unit malfunction• ABS actuator and electric unit (control unit) malfunction

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more without stopping.
2. Stop the vehicle.
3. Perform "Self Diagnostic Result".

Is DTC "C1729" detected?

- YES >> Proceed to [WT-41, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012523062

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

1. PERFORM ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF DIAGNOSTIC RESULT

With CONSULT

Perform "Self Diagnostic Result" for "ABS". Refer to [BRC-32, "CONSULT Function \(ABS\)"](#).

Are any DTCs detected?

- YES >> Refer to [BRC-44, "DTC Index"](#).
NO >> GO TO 2.

2. PERFORM LOW TIRE PRESSURE WARNING CONTROL UNIT SELF DIAGNOSTIC RESULT

With CONSULT

Perform "Self Diagnostic Result" for "AIR PRESSURE MONITOR".

Is DTC "C1729" detected?

- YES >> Replace the low tire pressure warning control unit. Refer to [WT-64, "Removal and Installation"](#).
NO >> GO TO 3.

3. CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT INPUT/OUTPUT SIGNAL

C1729 VEHICLE SPEED SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

Check the low tire pressure warning control unit input/output signal values. Refer to [WT-12, "Reference Value"](#).

Is the inspection result normal?

- YES >> Check pin terminal and connection of each harness connector for malfunctioning conditions.
- NO >> Replace the low tire pressure warning control unit. Refer to [WT-64, "Removal and Installation"](#).

C1750, C1751, C1752, C1753 RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

C1750, C1751, C1752, C1753 RECEIVER

DTC Logic

INFOID:000000012523063

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1750	[RECEIVER ERR] FL	The front LH tire pressure receiver does not receive a signal.	Tire pressure receiver malfunction
C1751	[RECEIVER ERR] FR	The front RH tire pressure receiver does not receive a signal.	
C1752	[RECEIVER ERR] RR	The rear RH tire pressure receiver does not receive a signal.	
C1753	[RECEIVER ERR] RL	The rear LH tire pressure receiver does not receive a signal.	

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Stop the vehicle.
3. Perform "Self Diagnostic Result".

Is DTC "C1750", "C1751", "C1752", or "C1753" detected?

- YES >> Proceed to [WT-43, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:000000012523064

Regarding Wiring Diagram information, refer to [WT-17, "Wiring Diagram"](#).

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

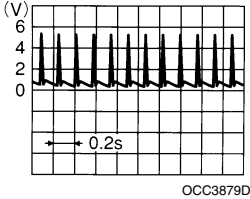
1. CHECK TIRE PRESSURE RECEIVER INPUT SIGNAL

1. Turn ignition switch ON.
2. Check the input signal waveform between the low tire pressure warning control unit connector and ground.

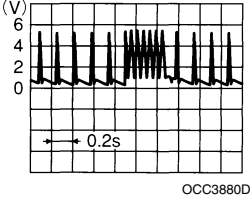
C1750, C1751, C1752, C1753 RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

STANDBY STATUS

Low tire pressure warning control unit		—	Value (Approx.)
Connector	Terminal		
M90	3	Ground	 <p style="text-align: center;">Approx. 4.5 V</p>
	4		
	5		
	6		

WHEN SIGNAL IS RECEIVED

Low tire pressure warning control unit		—	Value (Approx.)
Connector	Terminal		
M90	3	Ground	 <p style="text-align: center;">Approx. 4.5 V</p>
	4		
	5		
	6		

Is the inspection result normal?

YES >> Check connector for loose connection, then perform "DTC CONFIRMATION PROCEDURE" again. Refer to [WT-43, "DTC Logic"](#).

NO >> GO TO 2.

2. CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

1. Disconnect tire pressure receiver connector.
2. Turn ignition switch ON.
3. Check voltage between tire pressure receiver connector and ground.

Tire pressure receiver		—	Voltage
Connector	Terminal		
E43 (Front LH)	1	Ground	Approx. 9 - 16 V
E60 (Front RH)			
C109 (Rear LH)			
C110 (Rear RH)			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning harness or connector.

3. CHECK TIRE PRESSURE RECEIVER GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect low tire pressure warning control unit connector.
3. Check continuity between low tire pressure warning control unit connector and tire pressure receiver connector.

C1750, C1751, C1752, C1753 RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M90	26	E43 (Front LH)	4	Yes
	25	E60 (Front RH)		
	24	C109 (Rear LH)		
	23	C110 (Rear RH)		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning harness or connector.

4. CHECK FOR CHANGE TO THE TIRE PRESSURE RECEIVER INSTALLATION POSITION

NOTE:

Example: Front LH tire pressure receiver OK/NG judgment when DTC "C1750" is detected.

Ⓜ With CONSULT

1. Exchange the positions of the front LH tire pressure receiver and the front RH tire pressure receiver.
2. Perform "DTC CONFIRMATION PROCEDURE" again. Refer to [WT-43, "DTC Logic"](#).

Is DTC "C1751" detected?

YES >> Replace the exchanged front RH tire pressure receiver.

NO >> Check the low tire pressure warning control unit circuit. Refer to [WT-46, "Diagnosis Procedure"](#).

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C1754 LOW TIRE PRESSURE WARNING CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

C1754 LOW TIRE PRESSURE WARNING CONTROL UNIT

DTC Logic

INFOID:000000012523065

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

DTC DETECTION LOGIC

DTC	Display Item	Malfunction detected condition	Possible causes
C1754	CONT UNIT (EEPROM)	Memory (EEPROM) system malfunction is detected in the low tire pressure warning control unit	Low tire pressure warning control unit malfunction

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more without stopping.
2. Stop the vehicle.
3. Perform “Self Diagnostic Result”.

Is DTC “C1754” detected?

YES >> Proceed to [WT-46. "Diagnosis Procedure"](#).

NO >> Inspection End.

Diagnosis Procedure

INFOID:000000012523066

Regarding Wiring Diagram information, refer to [WT-17. "Wiring Diagram"](#).

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

1. CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Perform the trouble diagnosis for power supply and ground circuit. Refer to [WT-53. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace malfunctioning components.

2. CHECK TIRE PRESSURE RECEIVER CIRCUIT

1. Disconnect the tire pressure receiver connector.
2. Check the continuity between the low tire pressure warning control unit connector and tire pressure receiver connector.

C1754 LOW TIRE PRESSURE WARNING CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

Low tire pressure warning control unit		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	
M90	6	E43 (Front LH)	3	Yes
	22		2	
	10		1	
	26		4	
	5	E60 (Front RH)	3	
	21		2	
	9		1	
	25		4	
	4	C109 (Rear LH)	3	
	20		2	
	8		1	
	24		4	
	3	C110 (Rear RH)	3	
	19		2	
	7		1	
	23		4	

3. Check the continuity between the low tire pressure warning control unit connector and ground.

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M90	6	Ground	No
	22		
	10		
	26		
	5		
	21		
	9		
	25		
	4		
	20		
	8		
	24		
	3		
	19		
7			
23			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning harness or connector.

3. PERFORM SELF DIAGNOSTIC RESULT AGAIN

With CONSULT

1. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-69, "Tire"](#).
2. Perform tire pressure sensor ID registration for all wheels. Refer to [WT-26, "Work Procedure"](#).
3. Perform "Self Diagnostic Result".

C1754 LOW TIRE PRESSURE WARNING CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

Is DTC "C1754" detected?

- YES >> Replace the low tire pressure warning control unit. Refer to [WT-64, "Removal and Installation"](#).
- NO >> Check for looseness or damage at the harness connector pins of the low tire pressure warning control unit. Repair or replace if necessary.

C1755, C1756, C1757, C1758 POOR RECEIVING CONDITIONS

< DTC/CIRCUIT DIAGNOSIS >

C1755, C1756, C1757, C1758 POOR RECEIVING CONDITIONS

DTC Logic

INFOID:0000000012523067

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

DTC DETECTION LOGIC

NOTE:

If DTC C1755, C1756, C1757 or C1758 is detected along with C1708, C1709, C1710 or C1711, first diagnose C1755, C1756, C1757 or C1758.

DTC	Display Item	Malfunction detected condition	Possible causes
C1755	PR RECEIV COND FL	The data signal from the front LH wheel tire pressure sensor cannot be detected due to external electromagnetic interference for 10 minutes or more (DTC C1708 is displayed at the same time).	External electromagnetic interference
C1756	PR RECEIV COND FR	The data signal from the front RH wheel tire pressure sensor cannot be detected due to external electromagnetic interference for 10 minutes or more (DTC C1709 is displayed at the same time).	
C1757	PR RECEIV COND RR	The data signal from the rear RH wheel tire pressure sensor cannot be detected due to external electromagnetic interference for 10 minutes or more (DTC C1710 is displayed at the same time).	
C1758	PR RECEIV COND RL	The data signal from the rear LH wheel tire pressure sensor cannot be detected due to external electromagnetic interference for 10 minutes or more (DTC C1711 is displayed at the same time).	

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Stop the vehicle.
3. Perform "Self Diagnostic Result".

Is DTC "C1755", "C1756", "C1757", or "C1758" detected?

- YES >> Proceed to [WT-49, "Diagnosis Procedure"](#).
 NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012523068

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

1. TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to [WT-26, "Work Procedure"](#).

Is tire pressure sensor ID registration completed?

C1755, C1756, C1757, C1758 POOR RECEIVING CONDITIONS

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 2.

NO >> Change the work location and perform ID registration again.

2. CHECK TIRE PRESSURE SIGNAL

With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Stop the vehicle.
3. Select "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR" and "AIR PRESS RL" in "Data Monitor" of "AIR PRESSURE MONITOR".
4. Within 5 minutes after vehicle stopped, check that the tire pressures are within specification. Refer to [WT-69, "Tire"](#).

Monitor item	Displayed value
AIR PRESS FL	Approximately equal to the indication on tire gauge value for front LH tire
AIR PRESS FR	Approximately equal to the indication on tire gauge value for front RH tire
AIR PRESS RR	Approximately equal to the indication on tire gauge value for rear RH tire
AIR PRESS RL	Approximately equal to the indication on tire gauge value for rear LH tire

Is the inspection result normal?

YES >> GO TO 3.

NO >> Change the work location, then GO TO 1.

3. CHECK SELF DIAGNOSIS RESULT

With CONSULT

1. Erase self-diagnosis memory for the low tire pressure warning control unit.
2. Turn ignition switch OFF, and wait for 10 seconds or more.
3. Perform "DTC CONFIRMATION PROCEDURE" again. Refer to [WT-49, "DTC Logic"](#).

Are DTC "C1755", "C1756", "C1757", or "C1758" and "C1708", "C1709", "C1710", or "C1711" detected?

YES >> Change the work location, then GO TO 1.

NO >> Check the input/output signal values. Refer to [WT-12, "Reference Value"](#).

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

U1000 CAN COMM CIRCUIT

Description

INFOID:000000012523069

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 on 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 communicates data but selectively reads required data only.

DTC Logic

INFOID:000000012523070

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
U1000	CAN COMM CIRCUIT	Low tire pressure warning control unit is not communicating CAN communication signal for 2 seconds or more.	<ul style="list-style-type: none">• CAN communication malfunction• Malfunction of low tire pressure warning control unit

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

1. Drive for several minutes at a speed of 40 km/h (25 MPH) or more.
2. Stop the vehicle.
3. Perform "Self Diagnostic Result".

Is DTC "U1000" detected?

- YES >> Proceed to [WT-51, "Diagnosis Procedure"](#).
- NO >> Inspection End.

Diagnosis Procedure

INFOID:000000012523071

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

Proceed to [LAN-16, "Trouble Diagnosis Flow Chart"](#).

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000012523072

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 on 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 communicates data but selectively reads required data only.

DTC Logic

INFOID:000000012523073

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
U1010	CONTROL UNIT (CAN)	Detecting error during the initial diagnosis of CAN controller of low tire pressure warning control unit.	Malfunction of low tire pressure warning control unit

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

1. Drive for several minutes at a speed of 40 km/h (25 MPH) or more.
2. Stop the vehicle.
3. Perform "Self Diagnostic Result".

Is DTC "U1010" detected?

- YES >> Proceed to [WT-52, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:000000012523074

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

1. CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT

Check low tire pressure warning control unit connector for disconnection or deformation.

Is the inspection result normal?

- YES >> Replace low tire pressure warning control unit. Refer to [WT-64, "Removal and Installation"](#).
NO >> Repair or replace malfunctioning components.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000012523075

Regarding Wiring Diagram information, refer to [WT-17, "Wiring Diagram"](#).

1. CHECK FUSE/FUSIBLE LINK

1. Turn ignition switch OFF.
2. Check the 10 A fuse [No. 12 in fuse block (J/B)].

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Replace the fuse after repairing the affected circuit.

2. CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT POWER SUPPLY CIRCUIT

1. Disconnect low tire pressure warning control unit connector.
2. Turn ignition switch ON.
3. Check voltage between low tire pressure warning control unit connector and ground.

Low tire pressure warning control unit		—	Voltage
Connector	Terminal		
M90	15	Ground	Battery voltage

4. Turn ignition switch OFF.
5. Check voltage between low tire pressure warning control unit connector and ground.

Low tire pressure warning control unit		—	Voltage
Connector	Terminal		
M90	15	Ground	0 V

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Check the following. If any items are damaged, repair or replace damaged parts.
- Harness for short or open between ignition switch and low tire pressure warning control unit harness connector.
 - Battery voltage.

3. CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between low tire pressure warning control unit connector and ground.

Low tire pressure warning control unit		—	Continuity
Connector	Terminal		
M90	32	Ground	Yes

Is the inspection result normal?

- YES >> Inspection End.
NO >> Repair open circuit in harness or connectors.

TPMS SYMPTOMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

TPMS SYMPTOMS

Symptom Table

INFOID:0000000012523076

Symptom	Reference
Low tire pressure warning light does not turn ON.	WT-55
Low tire pressure warning light does not turn OFF.	WT-56
Low tire pressure warning light blinks.	WT-57
Tire pressure information in vehicle information display does not exist.	WT-58
ID registration cannot be completed.	WT-59

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

Diagnosis Procedure

INFOID:000000012523077

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

1.PERFORM SELF DIAGNOSTIC RESULT

Perform "Self Diagnostic Result".

Is DTC "U1000" detected?

- YES >> Malfunction in CAN communication system. Refer to [LAN-16, "Trouble Diagnosis Flow Chart"](#).
- NO >> GO TO 2

2.CHECK COMBINATION METER

Check combination meter operation. Refer to [MWI-8, "METER SYSTEM : System Description"](#).

Is the inspection result normal?

- YES >> Replace low tire pressure warning control unit. Refer to [WT-64, "Removal and Installation"](#).
- NO >> Replace combination meter. Refer to [MWI-68, "Removal and Installation"](#).

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LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

Diagnosis Procedure

INFOID:000000012523078

1. INSPECT LOW TIRE PRESSURE WARNING CONTROL UNIT CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect low tire pressure warning control unit connector.
3. Check terminals for damage or loose connections.

Is the inspection result normal?

- YES >> GO TO 2
NO >> Repair or replace damaged parts.

2. LOW TIRE PRESSURE WARNING CONTROL UNIT POWER SUPPLY AND GROUND CIRCUITS

Check low tire pressure warning control unit power supply and ground circuits. Refer to [WT-53, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> Replace low tire pressure warning control unit. Refer to [WT-64, "Removal and Installation"](#).
NO >> Repair low tire pressure warning control unit circuits.

LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP BLINKS

Diagnosis Procedure

INFOID:000000012523079

NOTE:

If low tire pressure warning light repeats blinking ON for 2 seconds and OFF for 0.2 seconds, ID registration for all tire pressure sensors is not complete.

Perform tire pressure sensor ID registration. Refer to [WT-26. "Work Procedure"](#).

1. CHECK LOW TIRE PRESSURE WARNING CONTROL UNIT CONNECTOR

1. Turn ignition switch OFF.
2. Disconnect low tire pressure warning control unit connector.
3. Check terminals for damage or loose connections.

Is the inspection result normal?

- YES >> Replace low tire pressure warning control unit. Refer to [WT-64. "Removal and Installation"](#).
NO >> Repair or replace harness or connector.

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"TIRE PRESSURE" INFORMATION IN DISPLAY UNIT DOES NOT EXIST

< SYMPTOM DIAGNOSIS >

"TIRE PRESSURE" INFORMATION IN DISPLAY UNIT DOES NOT EXIST

Diagnosis Procedure

INFOID:000000012523080

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

1. PERFORM SELF DIAGNOSTIC RESULT

Perform "Self Diagnostic Result".

Is DTC "U1000" detected?

- YES >> Malfunction in CAN communication system. Refer to [LAN-16. "Trouble Diagnosis Flow Chart"](#).
- NO >> Check combination meter operation. Refer to [MWI-8. "METER SYSTEM : System Description"](#).

ID REGISTRATION CANNOT BE COMPLETED

< SYMPTOM DIAGNOSIS >

ID REGISTRATION CANNOT BE COMPLETED

Diagnosis Procedure

INFOID:000000012523081

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS sensor IDs
- Display tire pressure reported by the TPMS sensor
- Read TPMS DTCs
- Register TPMS sensor IDs

1. PERFORM ID REGISTRATION OF ALL TIRE PRESSURE SENSORS

Perform tire pressure sensor ID registration. Refer to [WT-26, "Work Procedure"](#).

Can ID registration of all tire pressure sensors be completed?

YES >> Inspection End.

NO >> Refer to [WT-10, "Self Diagnosis Without CONSULT"](#).

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NOISE, VIBRATION, AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

NOISE, VIBRATION, AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

INFOID:000000012523082

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

Symptom		Possible cause and SUSPECTED PARTS													Reference page		
		Out-of-round	Imbalance	Incorrect tire pressure	Uneven tire wear	Deformation or damage	Non-uniformity	Incorrect tire size	DIFFERENTIAL	FRONT AXLE AND FRONT SUSPENSION	REAR AXLE AND REAR SUSPENSION	TIRES	ROAD WHEEL	BRAKE	STEERING		
Noise	TIRES	×	×	×	×	×	×	×	×	×	×	×	×	×	×	WT-61	
		×	×	×	×	×	×	×	×	×	×	×	×	×	×	WT-62	
				×													WT-69
		×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	FSU-8, "Front Wheel Alignment"
	ROAD WHEEL	×	×	×	×	×	×	×	×	×	×	×	×	×	×	—	
		×	×			×										—	
		×	×			×										WT-69	
		×	×			×										DLN-34, "NVH Troubleshooting Chart"	
Shake	TIRES	×	×	×	×	×	×	×	×	×	×	×	×	×	×	FAX-4, "NVH Troubleshooting Chart" (FAX), FSU-5, "NVH Troubleshooting Chart" (FSU)	
		×	×	×	×	×	×	×	×	×	×	×	×	×	×	RAX-4, "NVH Troubleshooting Chart" (RAX), RSU-4, "NVH Troubleshooting Chart" (RSU)	
																Refer to TIRES in this chart.	
																Refer to ROAD WHEEL in this chart.	
Vibration	TIRES															BR-7, "NVH Troubleshooting Chart"	
																ST-5, "NVH Troubleshooting Chart"	
Shimmy, shudder	ROAD WHEEL																
Poor quality ride or handling	TIRES																

×: Applicable

WHEEL

< PERIODIC MAINTENANCE >

PERIODIC MAINTENANCE

WHEEL

Inspection

INFOID:000000012523083

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 on a balancer machine.
 - b. Set two dial indicators as shown.
 - 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.

$$\text{Lateral deflection} = (W+X)/2$$

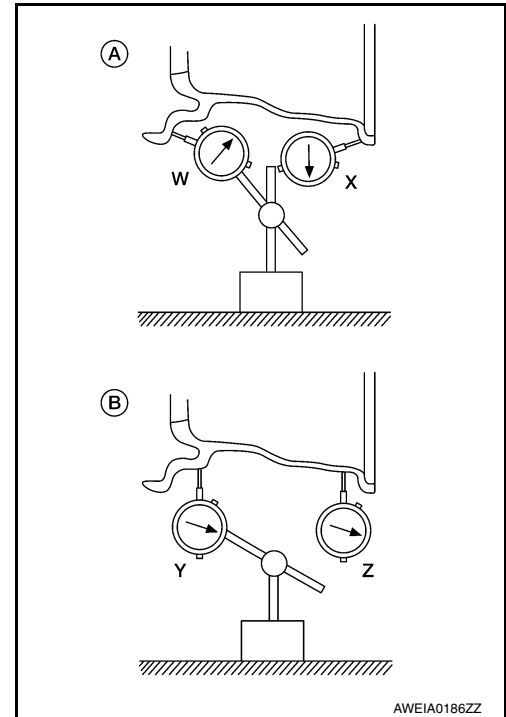
$$\text{Vertical deflection} = (Y+Z)/2$$

- 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 the steel wheel.

Radial runout

Lateral deflection (A) : Refer to [WT-69, "Road Wheel"](#).

Vertical deflection (B) : Refer to [WT-69, "Road Wheel"](#).



WHEEL AND TIRE ASSEMBLY

< PERIODIC MAINTENANCE >

WHEEL AND TIRE ASSEMBLY

Adjustment

INFOID:000000012523084

BALANCING WHEELS (ADHESIVE WEIGHT TYPE)

Preparation Before Adjustment

Remove inner and outer balance weights from the road wheel. Using releasing agent, remove double-faced adhesive tape from the road wheel.

CAUTION:

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

Wheel Balance Adjustment

- If a balancer machine has an adhesive weight mode setting, select the adhesive weight mode setting and skip Step 2. below. If a balancer machine only has the clip-on (rim flange) weight mode setting, follow Step 2. to calculate the correct size adhesive weight.

1. Set road wheel on balancer machine using the center hole as a guide. Start the balancer machine.
2. For balancer machines that only have a clip-on (rim flange) weight mode setting, follow this step to calculate the correct size adhesive weight to use. When inner and outer imbalance values are shown on the balancer machine indicator, multiply outer imbalance value by 5/3 (1.67) to determine balance weight that should be used. Select the outer balance weight with a value closest to the calculated value above and install in to the designated outer position of, or at the designated angle in relation to the road wheel.

- a. Indicated imbalance value $\times 5/3$ (1.67) = balance weight to be installed

Calculation example:

$23 \text{ g (0.81 oz)} \times 5/3 (1.67) = 38.33 \text{ g (1.35 oz)} \Rightarrow 40 \text{ g (1.41 oz)}$
balance weight (closer to calculated balance weight value)

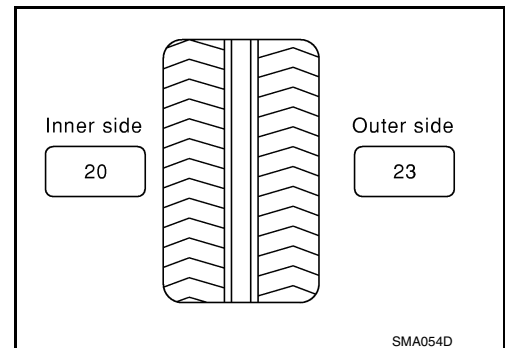
NOTE:

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

Example:

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

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



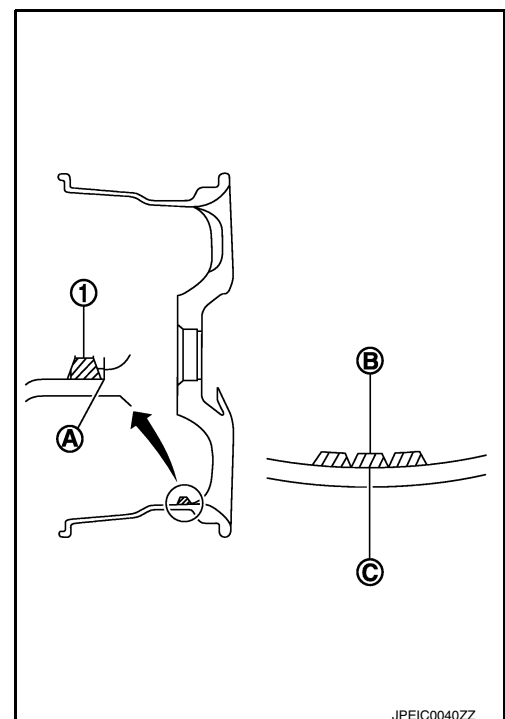
3. Install balance weight in the position shown.

CAUTION:

- **Do not install the inner balance weight before installing the outer balance weight.**
- **Before installing the balance weight, be sure to clean the mating surface of the road wheel.**
- When installing balance weight (1) to road wheel, set it into the grooved area (A) on the inner wall of the road wheel as shown so that the balance weight center (B) is aligned with the balancer machine indication position (angle) (C).

CAUTION:

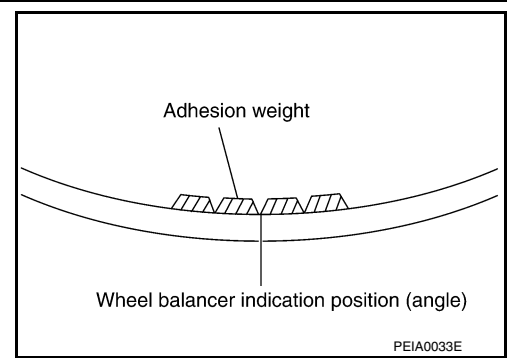
- **Always use Genuine NISSAN adhesive balance weights.**
- **Balance weights are non-reusable; always replace with new ones.**
- **Do not install more than three sheets of balance weight.**



WHEEL AND TIRE ASSEMBLY

< PERIODIC MAINTENANCE >

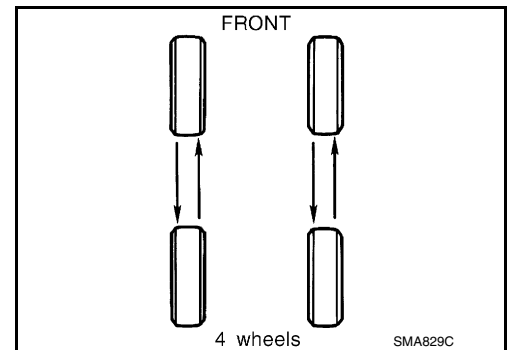
4. If calculated balance weight value exceeds 50 g (1.76 oz), install two balance weight sheets in line with each other as shown.
CAUTION:
Do not install one balance weight sheet on top another.
5. Start balancer machine again.
6. Install balance weight on inner side of road wheel in the balancer machine indication position (angle).
CAUTION:
Do not install more than two balance weights.
7. Start balancer machine. Make sure that inner and outer residual imbalance values are 5 g (0.17 oz) each or below.
8. If either residual imbalance value exceeds 5 g (0.17 oz), repeat installation procedures.



Wheel balance	Dynamic (At flange)	Static (At flange)
Maximum allowable imbalance	Refer to WT-69, "Road Wheel" .	

TIRE ROTATION

- Follow the maintenance schedule for tire rotation service intervals. Refer to [MA-9, "FOR USA AND CANADA : Introduction of Periodic Maintenance"](#) (United States and Canada), or [MA-12, "FOR MEX-ICO : Introduction of Periodic Maintenance"](#) (Mexico).
- When installing the wheel, tighten wheel nuts to the specified torque.
CAUTION:
 - **Do not include the spare tire when rotating the tires.**
 - **When installing wheels, tighten them diagonally by dividing the work two to three times in order to prevent the wheels from developing any distortion.**
 - **Be careful not to tighten wheel nut at torque exceeding the criteria for preventing strain of disc rotor.**



Wheel nut tightening : 187 N·m (19 kg-m, 138 ft-lb) torque

- Perform the transmitter ID registration, after tire rotation. Refer to [WT-26, "Work Procedure"](#).

LOW TIRE PRESSURE WARNING CONTROL UNIT

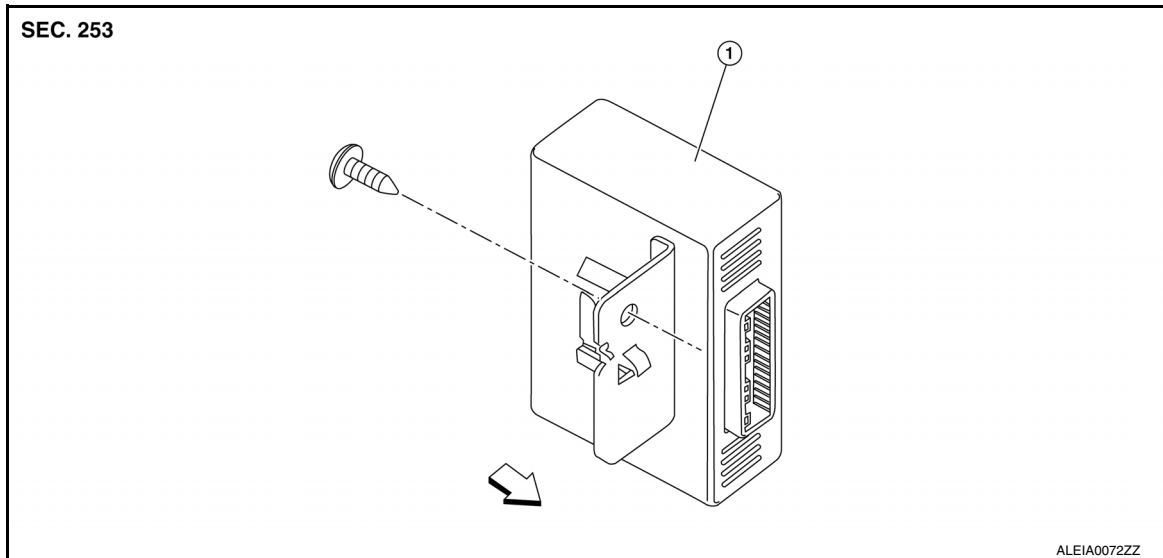
< UNIT REMOVAL AND INSTALLATION >

UNIT REMOVAL AND INSTALLATION

LOW TIRE PRESSURE WARNING CONTROL UNIT

Exploded View

INFOID:000000012523085



1. Low tire pressure warning control unit

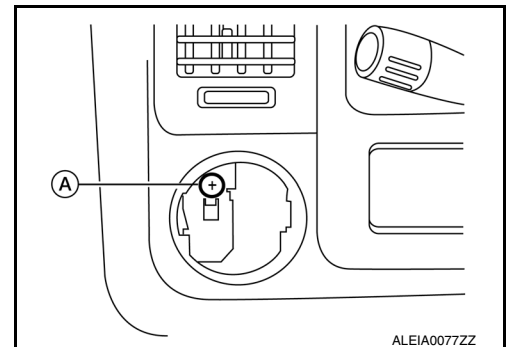
← Front

Removal and Installation

INFOID:000000012523086

REMOVAL

1. Remove the instrument lower panel LH. Refer to [JP-18, "Removal and Installation"](#).
2. Disconnect the harness connector from the low tire pressure warning control unit.
3. Remove the lighting switch. Refer to [EXL-125, "Removal and Installation"](#).
4. Remove the low tire pressure warning control unit screw (A), using the access hole that was created by the removal of the lighting switch.
5. Remove the low tire pressure warning control unit.



INSTALLATION

Installation is in the reverse order of removal.

- Perform transmitter ID registration after replacing low tire pressure warning control unit. Refer to [WT-26, "Description"](#).

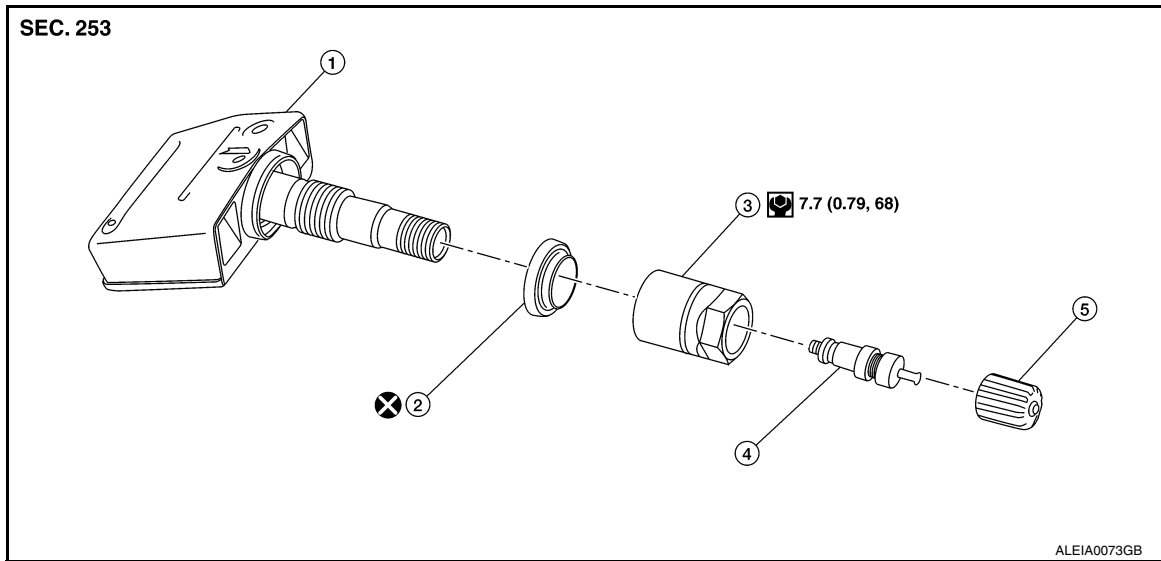
TRANSMITTER

< UNIT REMOVAL AND INSTALLATION >

TRANSMITTER

Exploded View

INFOID:000000012523087



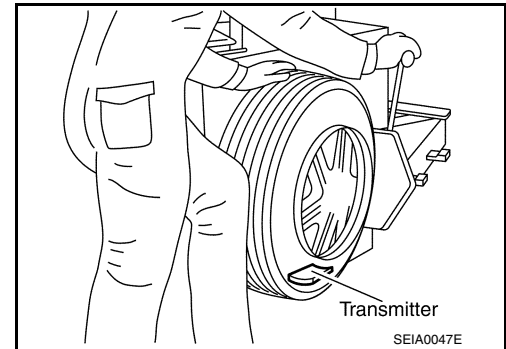
- | | | |
|----------------|-----------------|--------------|
| 1. Transmitter | 2. Grommet seal | 3. Valve nut |
| 4. Valve core | 5. Cap | |

Removal and Installation

INFOID:000000012523088

REMOVAL

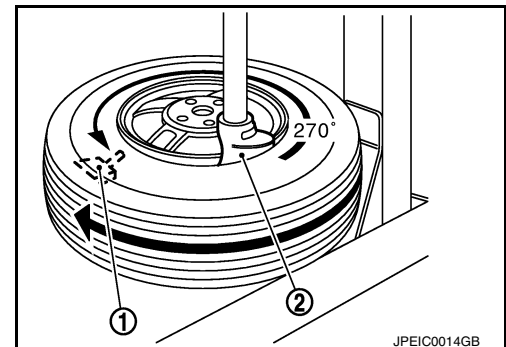
1. Deflate tire. Unscrew transmitter retaining nut and allow transmitter to fall into tire.
2. Gently bounce tire so that transmitter falls to bottom of tire. Place on tire changing machine and break both tire beads, ensuring that the transmitter remains at the bottom of the tire.



3. Turn tire so that valve hole is at bottom and bounce tire so that transmitter (1) is near valve hole. Carefully lift tire onto turntable and position valve hole (and transmitter) 270° from mounting/dismounting head (2).
4. Lubricate the tire well with a suitable non-silicone lubricant, and remove first side of the tire. Reach inside the tire and remove the transmitter.

CAUTION:

Do not use silicone lubricant. Use of silicone lubricant will deteriorate the tire and wheel.

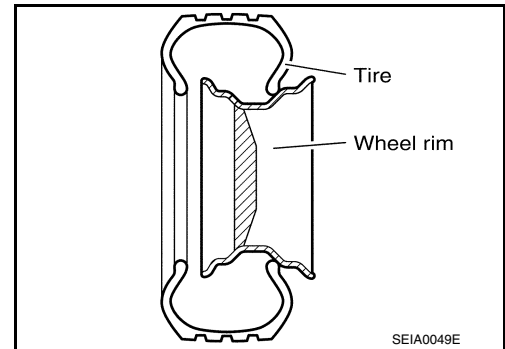


INSTALLATION

TRANSMITTER

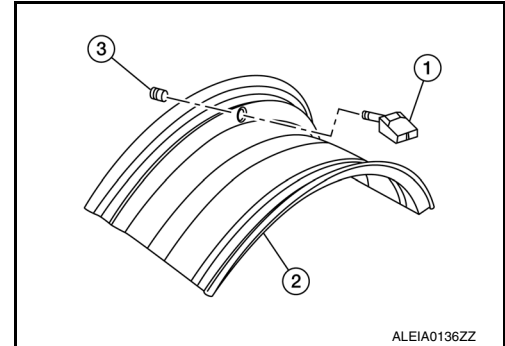
< UNIT REMOVAL AND INSTALLATION >

1. Put first side of tire onto rim.



2. Mount transmitter (1) on rim (2) and tighten nut (3).

CAUTION:
Do not reuse seal.



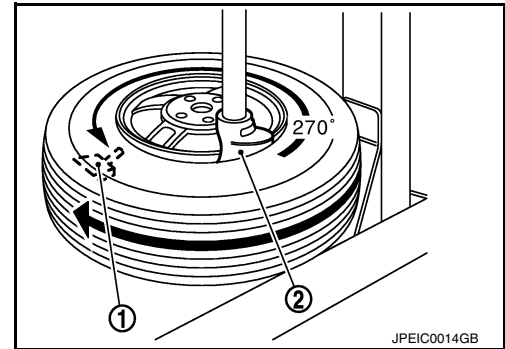
3. Place wheel on turntable of tire machine. Ensure that transmitter (1) is 270° from mounting head (2) when second side of tire is fitted.

NOTE:
Do not touch transmitter at mounting head.

4. Lubricate the tire well with a suitable non-silicone lubricant, and fit second side of tire as normal. Ensure that tire does not rotate relative to rim.

CAUTION:
Do not use silicone lubricant. Use of silicone lubricant will deteriorate the tire and wheel.

5. Inflate tire and fit to appropriate wheel position.
6. Perform the transmitter wake-up operation after replacing transmitter. Refer to [WT-26, "Description"](#).



TIRE PRESSURE RECEIVER

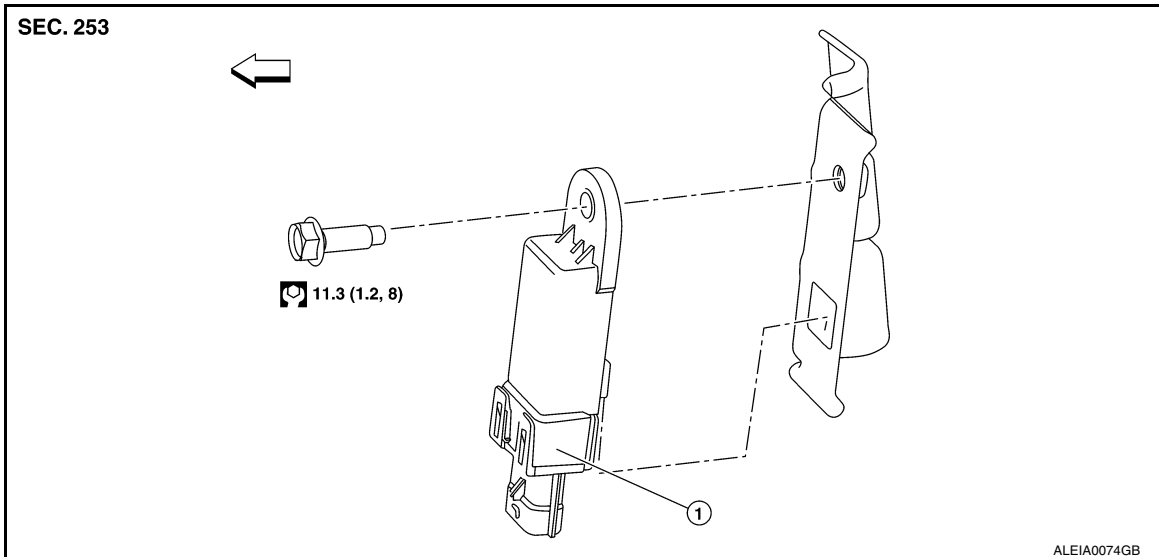
< UNIT REMOVAL AND INSTALLATION >

TIRE PRESSURE RECEIVER

FRONT TIRE PRESSURE RECEIVER

FRONT TIRE PRESSURE RECEIVER : Exploded View

INFOID:0000000012523089



1. Front tire pressure receiver

← Front

FRONT TIRE PRESSURE RECEIVER : Removal and Installation

INFOID:0000000012523090

REMOVAL

1. Remove the front fender protector. Refer to [EXT-33. "Removal and Installation"](#).
2. Disconnect the harness connector from the front tire pressure receiver.
3. Remove the front tire pressure receiver bolt.
4. Remove front tire pressure receiver.

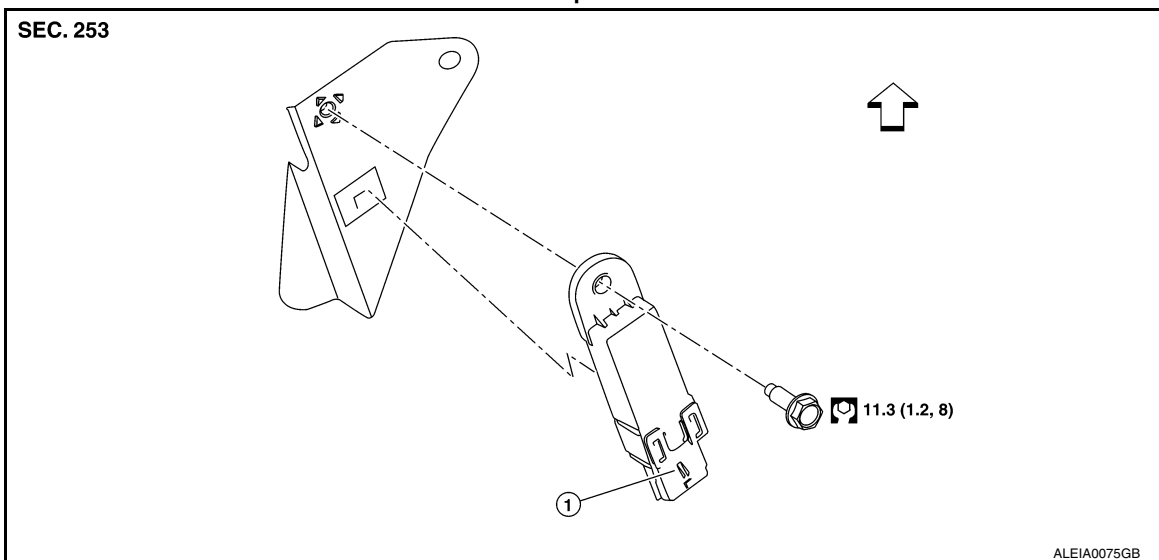
INSTALLATION

Installation is in the reverse order of removal.

REAR TIRE PRESSURE RECEIVER

REAR TIRE PRESSURE RECEIVER : Exploded View

INFOID:0000000012523091



1. Rear tire pressure receiver

← Front

TIRE PRESSURE RECEIVER

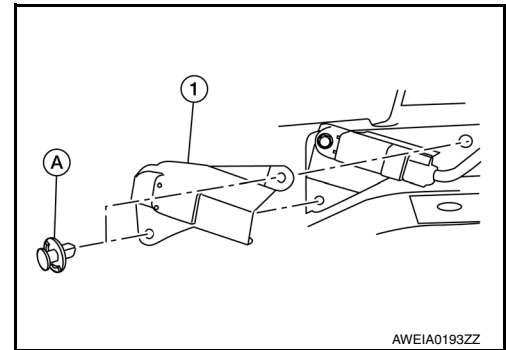
< UNIT REMOVAL AND INSTALLATION >

REAR TIRE PRESSURE RECEIVER : Removal and Installation

INFOID:000000012523092

REMOVAL

1. Remove the two clips (A) and the rear tire pressure receiver cover (1).
2. Disconnect harness connector from the rear tire pressure receiver.
3. Remove the rear tire pressure receiver bolt.
4. Remove rear tire pressure receiver.



INSTALLATION

Installation is in the reverse order of removal.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Road Wheel

INFOID:0000000012523093

Item		Inside	Outside
Radial runout	Lateral mm (in)	0.8 (0.031) or less	0.8 (0.031) or less
	Vertical mm (in)	0.8 (0.031) or less	0.8 (0.031) or less
Allowable imbalance	Dynamic (at rim flange)	Less than 5 g (0.18 oz) (per side)	
	Static (at rim flange)	Less than 10 g (0.35 oz)	

Tire

INFOID:0000000012523094

Unit: kPa (kg/cm², psi)

Tire size	Air pressure			
	Conventional tire		Spare tire	
	Front	Rear	Front	Rear
LT245/70R17	350 (3.6, 50)	550 (5.6, 80)	350 (3.6, 50)	550 (5.6, 80)
LT245/75R17	350 (3.6, 50)	550 (5.6, 80)	350 (3.6, 50)	550 (5.6, 80)

* Maintain spare tire pressure at 550 (5.6, 80) and adjust pressure according to the mounting position on the vehicle.