

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:000000012797083

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, 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 "SRS AIR BAG".
- Never 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:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never 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 or batteries, and wait at least 3 minutes before performing any service.

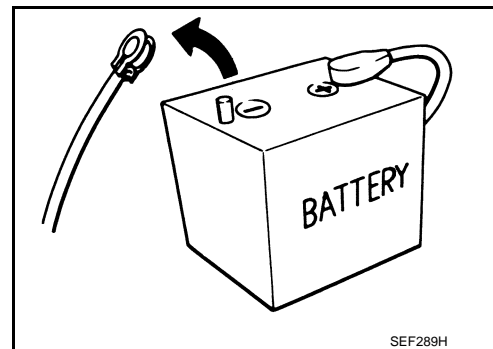
Precautions for Removing Battery Terminal

INFOID:000000013509453

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE	: 4 minutes	V9X engine	: 4 minutes
D4D engine	: 20 minutes	YD25DDTi	: 2 minutes
HR09DET	: 12 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		



SEF289H

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:

PRECAUTIONS

< PRECAUTION >

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
 - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
 - Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.

Service Notice and Precautions for TPMS

INFOID:000000012797085

- Low tire pressure warning lamp turns ON when tire pressure is less than warning tire pressure value. Adjust tire pressure for all wheels to the specified value. Refer to [WT-82. "Tire Air Pressure"](#).
- Low tire pressure warning lamp blinks for 1 minute, then turns ON when occurring any malfunction or no sensor(s) except low tire pressure. Repair malfunction or if no sensor(s), Install tire pressure sensor and register the ID to turn low tire pressure warning lamp OFF. For ID registration, refer to [WT-40. "Description"](#).
- ID registration is required when replacing or rotating tires and/or wheels, replacing tire pressure sensor or BCM. Refer to [WT-40. "Description"](#).

NOTE:

ID registration is unnecessary if there are no change in the positions of each wheels (tire pressure sensors) before wheel removal and after wheel installation.

- Be sure to replace grommet seal, valve core and valve cap of tire pressure sensor, when removing tire pressure sensor from wheel. Refer to [WT-77. "Exploded View"](#).
- Replacing grommet seal, valve core and valve cap of tire pressure sensor is recommended, when replacing each tire by reaching the wear limit. Refer to [WT-77. "Exploded View"](#).
- Never apply excessive force to an inflator not to damage valve stem and tire pressure sensor when adjusting tire pressure.
- Jack up the vehicle in order not to damage tire pressure sensor when extracting all the tire air on the vehicle (e.g. when filling up work of N₂ gas to tire). For supporting points for lifting and jacking point, refer to [GI-30. "Garage Jack and Safety Stand and 2-Pole Lift"](#).
- Because the tire pressure sensor conforms to radio law of each countries, the following items must be observed.
 - The sensor may be used only in each countries.
 - It may not be used in any method other than the specified method.
 - It must not be disassembled or modified.
- Never attach tire pressure sensor of other cars. Tire Pressure Monitoring System (TPMS) does not function if specified Genuine NISSAN tire pressure sensor is not attached.

Service Notice and Precautions for Road Wheel

INFOID:000000012797086

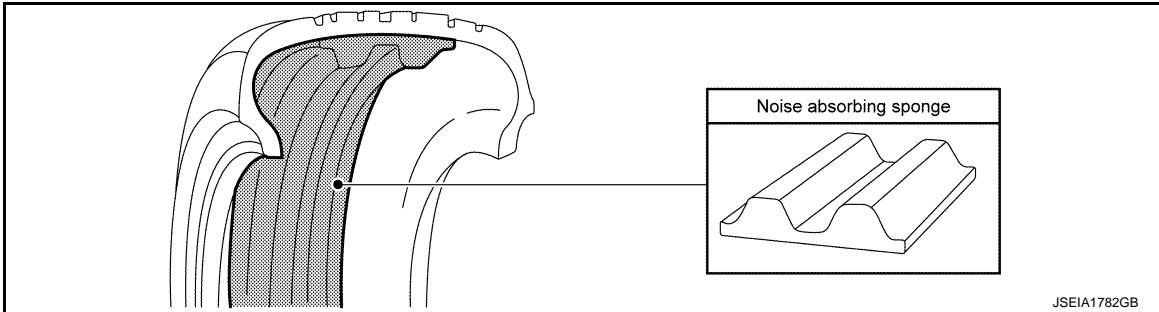
- Genuine NISSAN aluminum wheel is designed for each type of vehicle. Use it on the specified vehicle only.
- Use Genuine NISSAN parts for the wheel nuts.
- Always use them after adjusting the wheel balance. For the balance weights, use Genuine NISSAN aluminum wheel weights.
- Use caution when handling the aluminum wheels, because they can be easily scratched. When removing dirt, do not use any abrasives, a wire brush, or other items that may scratch the coating. Use a neutral detergent if a detergent is needed.
- After driving on roads scattered with anti-icing salts, wash off the wheels completely.
- When installing road wheels onto the vehicle, always wipe off any dirt or foreign substances to prevent them from being trapped between the contact surfaces of wheel.
- Never apply oil to nut and bolt threads.
- When tightening the valve cap there is a risk of damaging the valve cap if a tool is used. Tighten by hand.

PRECAUTIONS

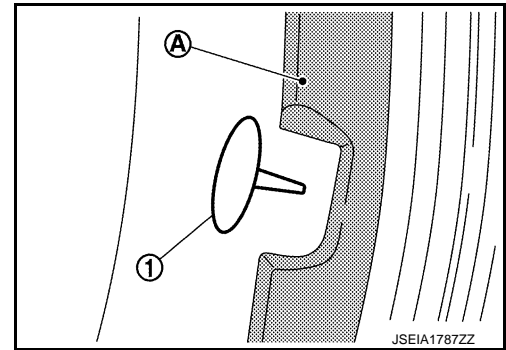
< PRECAUTION >

Service Notice and Precautions for Tires Equipped with Noise Absorbing Sponge

INFOID:000000013637681



- When installing tire to wheel (or removing tire from wheel), be careful not to damage noise absorbing sponge.
- When storing tires equipped with noise absorbing sponge after being removed from wheels, cover the tires to prevent the entrance of water and dust and avoid direct sunlight.
- The repair work of tires equipped with noise absorbing sponge is special. To repair a flat tire, comply with the instructions provided by the tire maker.
- To repair, remove noise absorbing sponge ① from repairing part and apply plug patch ① to inner side of tire.
- Never use flat tire repairing agent.
- To dispose of tires equipped with noise absorbing sponge, comply with regulations for the disposal of regular tires.



PREPARATION

< PREPARATION >



PREPARATION

PREPARATION

Special Service Tool

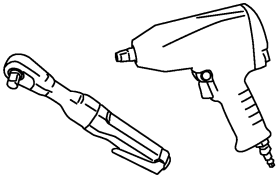
INFOID:000000012797087

The actual shapes of TechMate tools may differ from those of special service tools 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 tire pressure sensor IDs • Display tire pressure reported by the TPMS tire pressure sensor • Read TPMS DTCs • Register TPMS tire pressure sensor IDs • Test remote keyless entry keyfob relative signal strength • Compatible with future sensors • Equipped with a display
<p>KV48105501 (J-45295-A) Tire pressure sensor activation tool</p>  <p>ALEIA0183ZZ</p>	<ul style="list-style-type: none"> • Activate TPMS tire pressure sensor IDs • Compatible with future sensors • Equipped with a display (KV48105501 only)

Commercial Service Tools

INFOID:000000012797088

Tool name	Description
<p>Power tool</p>  <p>PBIC0190E</p>	<p>Loosening wheel nuts</p>

COMPONENT PARTS

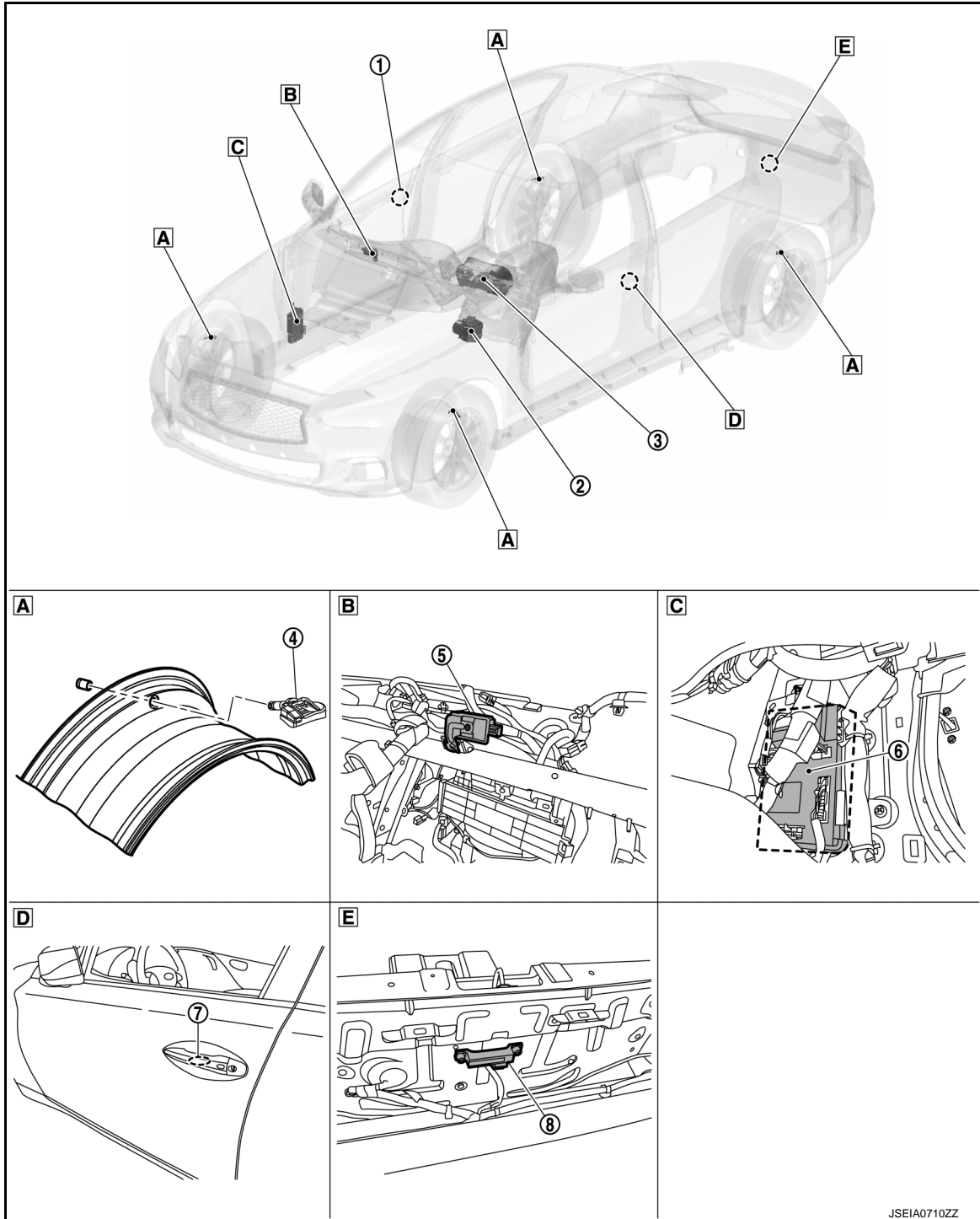
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:000000012797089



- A** Wheel
- B** View with instrument panel removed
- C** Behind of combination meter
- D** Part of outside door handle grip
- E** View with rear bumper fascia removed

JSEIA0710ZZ

COMPONENT PARTS

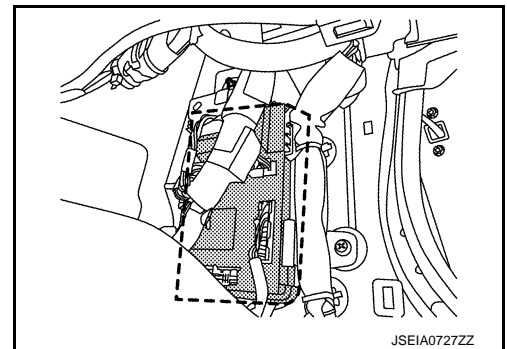
< SYSTEM DESCRIPTION >

No.	Component parts	Function
①	Outside key antenna (passenger side)	Refer to WT-10, "Outside Key Antennas" .
②	ABS actuator and electric unit (control unit)	Mainly transmits the following signals to BCM via CAN communication. <ul style="list-style-type: none"> • Vehicle speed signal
③	Combination meter	Mainly receives the following signals from BCM via CAN communication. <ul style="list-style-type: none"> • Low tire pressure warning lamp signal • TPMS malfunction warning lamp signal The combination meter will display the low tire pressure warning lamp when a low tire pressure or system malfunction is detected by the BCM. A warning message will also be displayed in the information display.
④	Tire pressure sensor	Refer to WT-9, "Tire Pressure Sensor" .
⑤	Remote keyless entry receiver (tire pressure receiver)	Refer to WT-10, "Remote Keyless Entry Receiver (Tire Pressure Receiver)" .
⑥	BCM	Refer to WT-9, "BCM" .
⑦	Outside key antenna (driver side)	Refer to WT-10, "Outside Key Antennas" .
⑧	Outside key antenna (rear bumper)	Refer to WT-10, "Outside Key Antennas" .

BCM

INFOID:000000012797090

The BCM reads the tire pressure signal received by the remote keyless entry receiver (tire pressure receiver). In addition, the BCM also uses the outside key antennas (driver side, passenger side and rear bumper) to identify the location of the tire pressure sensors. The BCM has a self-diagnosis function used to detect system malfunctions.



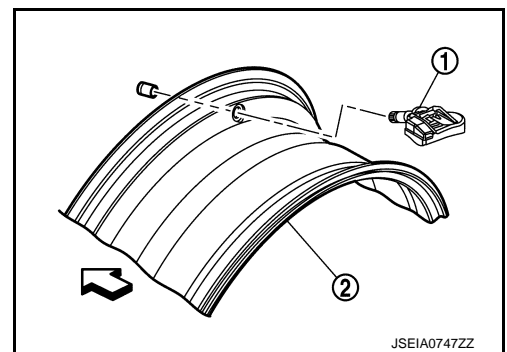
JSEIA0727ZZ

Tire Pressure Sensor

INFOID:000000012797091

A tire pressure sensor ① integrated with a valve is installed in each wheel ②, and transmits a detected air pressure signal in the form of a radio wave. The radio signal is received by the remote keyless entry receiver (tire pressure receiver).

← : Outside



JSEIA0747ZZ

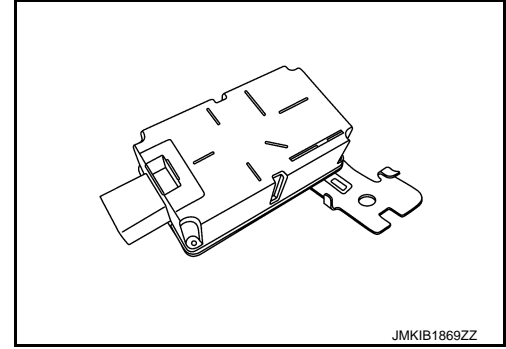
COMPONENT PARTS

< SYSTEM DESCRIPTION >

Remote Keyless Entry Receiver (Tire Pressure Receiver)

INFOID:000000012797092

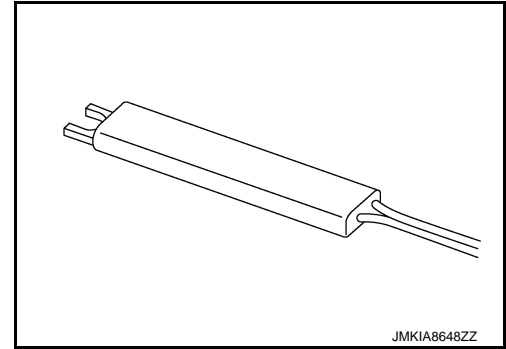
The remote keyless entry receiver receives (tire pressure receivers) the tire pressure signal transmitted by the tire pressure sensor in each wheel.



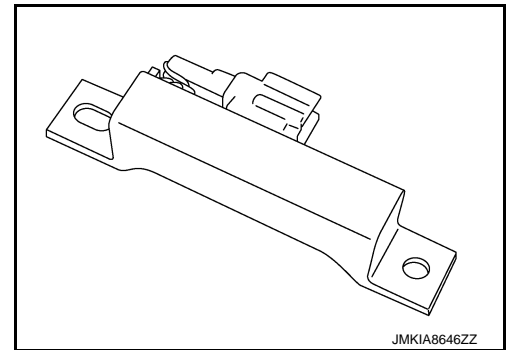
Outside Key Antennas

INFOID:000000012797093

- For vehicles equipped with individual tire pressure display in the combination meter, the outside key antennas (driver side, passenger side and rear bumper) are used by the BCM to identify the location of the tire pressure sensor.
- Outside key antenna (driver side) and outside key antenna (passenger side) is installed in outside handle.



- Outside key antenna (rear bumper) is installed in the rear of rear bumper.



SYSTEM

< SYSTEM DESCRIPTION >

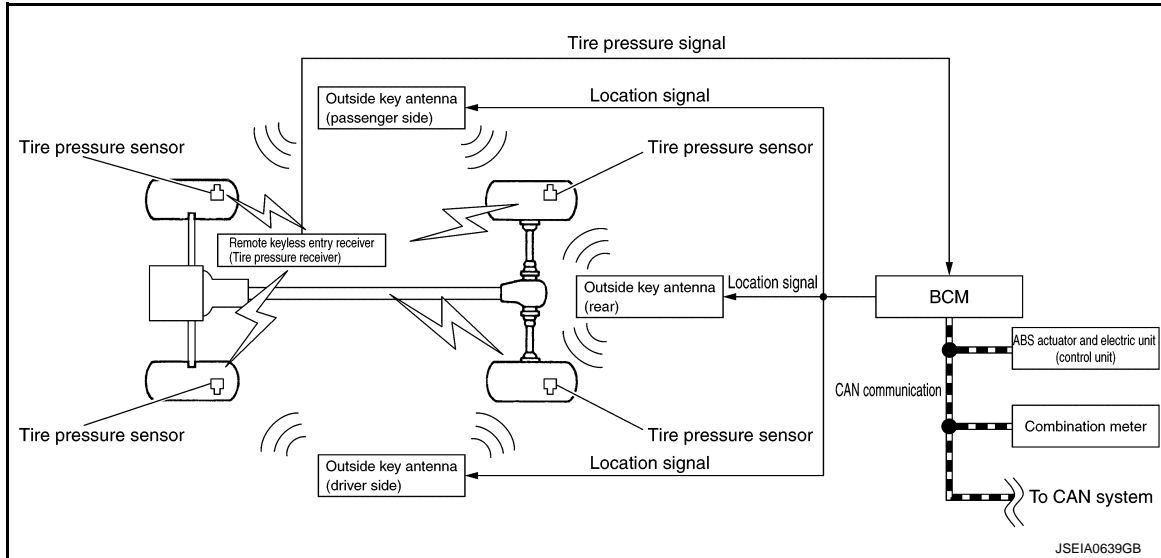
SYSTEM

System Description

INFOID:000000012797094

When the vehicle has reached a speed of 40 km/h (25 MPH) or greater, the BCM receives a signal transmitted from the tire pressure sensors installed in each wheel. If the BCM detects low tire pressure or a system malfunction, it sends a signal to the combination meter via CAN communication to illuminate the low tire pressure warning lamp. In addition, a warning message will be displayed in the information display.

SYSTEM DIAGRAM



INPUT SIGNAL AND OUTPUT SIGNAL

Major signal transmission between each unit via communication lines is shown in the following table.

Component	Signal description
Combination meter	Mainly receives the following signals from BCM via CAN communication. <ul style="list-style-type: none"> • Low tire pressure warning lamp signal • TPMS malfunction warning lamp signal • Tire pressure data signal • Buzzer output signal Transmits the vehicle speed signal via CAN communication for BCM.
ABS actuator and electric unit (control unit)	Transmits the vehicle speed signal via CAN communication for combination meter.

LOW TIRE PRESSURE WARNING LAMP AND INFORMATION DISPLAY INDICATIONS

Uses CAN communication from the BCM to illuminate the low tire pressure warning lamp on the combination meter.

Condition	Low tire pressure warning lamp	Information display
Ignition switch OFF	OFF	OFF
Ignition switch ON (system normal)	ON for 1 second then turns off	No TPMS message
Low tire pressure	ON	WT-14, "INFORMATION DISPLAY (COMBINATION METER) : Low Tire Pressure Warning"
Configuration not performed in tire pressure monitoring system	Blinks for 1 minute then stays ON	No TPMS message
Tire pressure sensor ID not registered in BCM		
TPMS malfunction		WT-14, "INFORMATION DISPLAY (COMBINATION METER) : Low Tire Pressure Warning"

SYSTEM

< SYSTEM DESCRIPTION >

HAZARD WARNING LAMP INDICATION CONDITION

The hazard warning lamp blinks under the following conditions.

- When ID registration is completed. Refer to [WT-40. "Description"](#).

BUZZER CONTROL CONDITION

The low tire pressure warning control unit transmits a buzzer request signal to BCM. Based on the signal, BCM sends a command to the combination meter to sound the buzzer.

The buzzer sounds under the following conditions.

Condition of Sounding Buzzer

- When wake-up of registered wheel has been completed. Refer to [WT-39. "Description"](#).
- When tire goes flat.

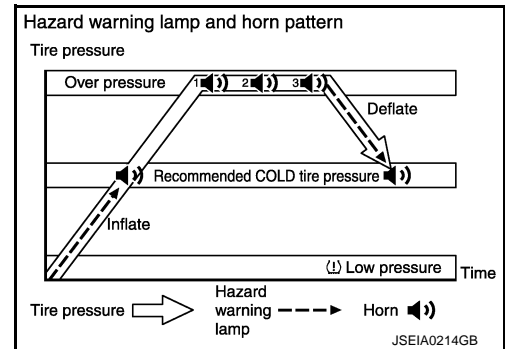
Tire Inflation Indicator Function

INFOID:000000012797095

NOTE:

When beginning tire inflation, it takes a few seconds for the Tire inflation indicator function. If there is no response for approximately 15 seconds or more, cancel the Tire inflation indicator function and move the vehicle approximately 1 m (3.2 ft) backward or forward to try again.

- The Tire inflation indicator function operates only when the select lever position is in P-range with the ignition switch ON.
- This function informs the driver with a visual and audible indication that the recommended COLD tire pressure has been reached.
- The hazard warning lamps blink when the recommended COLD tire pressure has been reached. After the recommended COLD tire pressure has been reached, the horn sounds once and the hazard warning lamps stop blinking.
- If the tire pressure value is equal to or greater than 30 kPa (0.31 kg/cm², 4 psi) more than the recommended COLD tire pressure, the hazard warning lamps flash and horn sounds three times.
- To return the tire to the recommended COLD tire pressure, deflate the tire until the horn sounds once and the hazard warning lamps stop blinking.

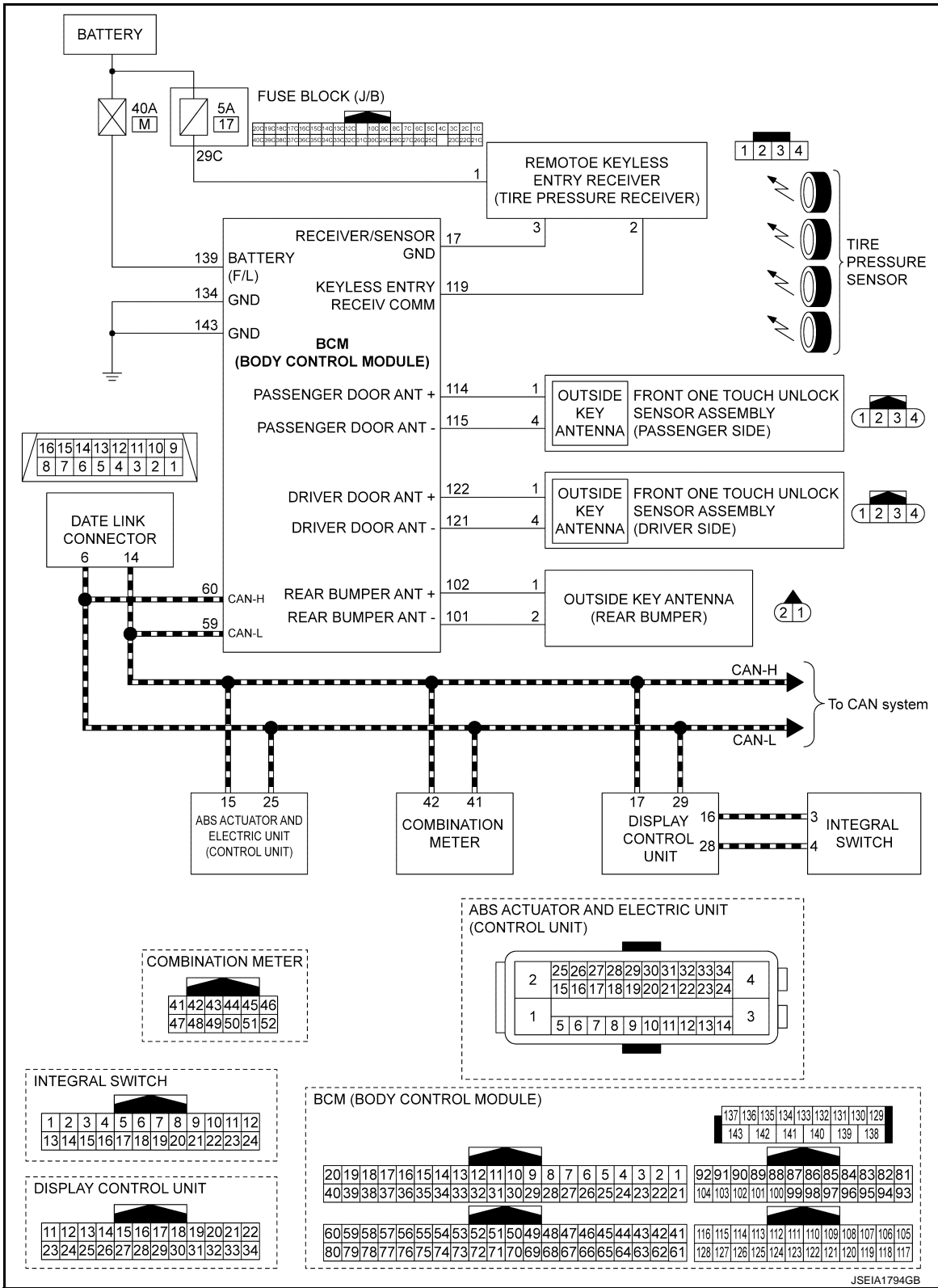


SYSTEM

< SYSTEM DESCRIPTION >

Circuit Diagram

INFOID:000000012797096




WARNING/INDICATOR/CHIME LIST

SYSTEM

< SYSTEM DESCRIPTION >

WARNING/INDICATOR/CHIME LIST : Warning Lamp/Indicator Lamp

INFOID:000000012797097

Name	Design	Layout/Function
Low tire pressure warning lamp		<p>For layout, refer to MWI-9, "METER SYSTEM : Design".</p> <p>For function, refer to MWI-33, "WARNING LAMPS/INDICATOR LAMPS : Low Tire Pressure Warning Lamp".</p>

WARNING/INDICATOR/CHIME LIST : Warning/Indicator (On Information Display)

INFOID:000000012797098

Name	Layout/Function
Low tire pressure warning	Refer to WT-14, "INFORMATION DISPLAY (COMBINATION METER) : Low Tire Pressure Warning" .
Tire pressure display	Refer to WT-15, "INFORMATION DISPLAY (COMBINATION METER) : Tire Pressure Display" .

INFORMATION DISPLAY (COMBINATION METER)

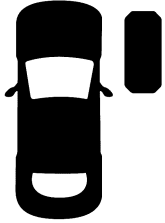

INFORMATION DISPLAY (COMBINATION METER) : Low Tire Pressure Warning

INFOID:000000012797098

DESIGN/PURPOSE

The warning message is displayed in the vehicle information display with the low tire pressure warning lamp when following conditions;

- Tire pressure is low.
- Tire pressure is extremely low (flat tire).

Symbol	Warning Message
 <p style="text-align: right; font-size: small;">JSEIA0664ZZ</p>	Tire Pressure Low Add Air
 <p style="text-align: right; font-size: small;">JSEIA1288ZZ</p>	Flat Tire Visit dealer*

*: With runflat tire

Details for warning conditions, refer to [MWI-33, "WARNING LAMPS/INDICATOR LAMPS : Low Tire Pressure Warning Lamp"](#).

SYNCHRONIZATION WITH MASTER WARNING LAMP

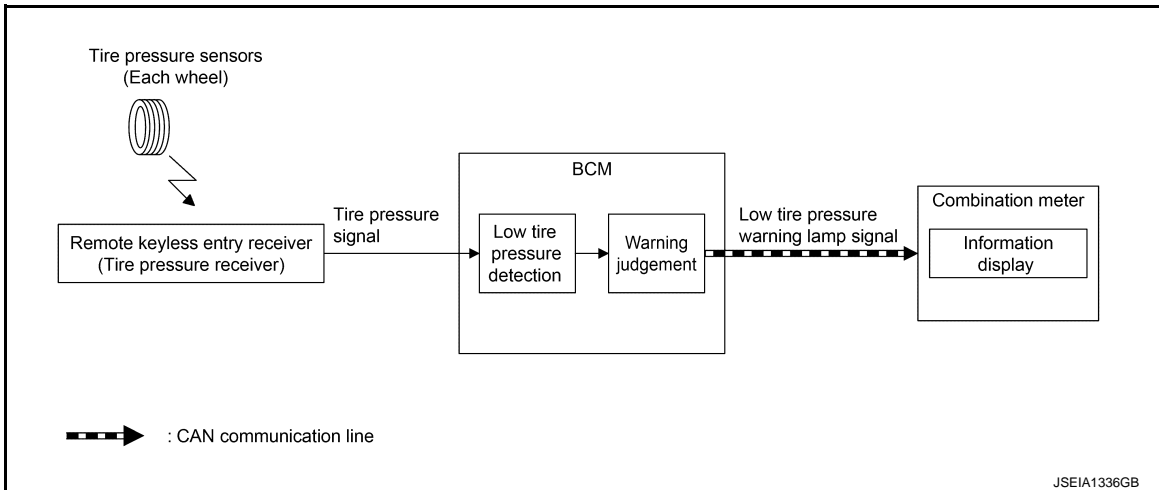
Applicable to low tire pressure warning lamp lighting by low air pressure.

Refer to [MWI-36, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM DIAGRAM



SIGNAL PATH

- Remote keyless entry receiver (tire pressure receiver) receives a signal transmitted from the tire pressure sensors installed in each wheel.
- If BCM detects following condition, it sends the signal to the combination meter via CAN communication.
 - Tire pressure is low
 - Tire pressure is extremely low (flat tire).
- Combination meter turns the low tire pressure warning lamp ON according to the signal. In addition, warning message will be displayed in the information display.

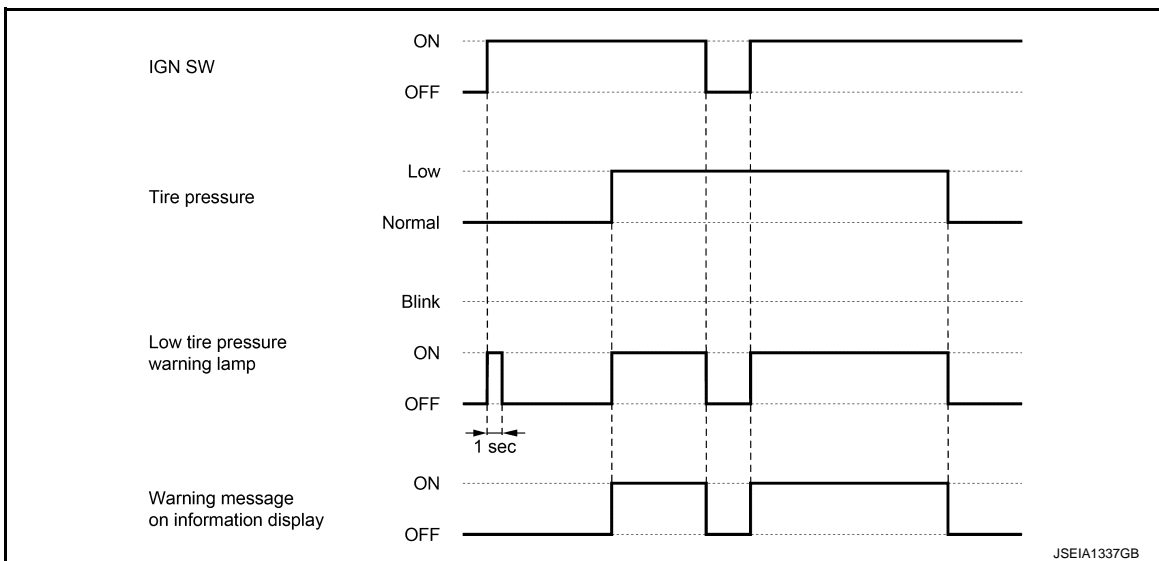
WARNING/INDICATOR OPERATION CONDITION

Tire pressure is low.

WARNING/INDICATOR CANCEL CONDITION

- Erasing DTC records.
- Tire pressure of all the tires reaches the reference value. For the reference value of tire pressure, refer to [WT-82, "Tire Air Pressure"](#).

TIMING CHART



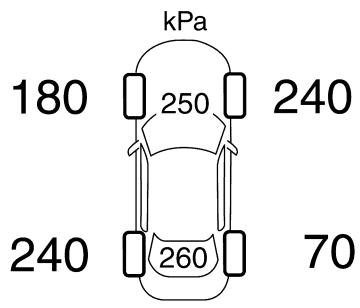
INFORMATION DISPLAY (COMBINATION METER) : Tire Pressure Display

INFOID:000000012797099

The adoption of this function allows tire pressure indication on the information display installed to the combination meter.

SYSTEM

< SYSTEM DESCRIPTION >

Design	Description
 <p data-bbox="535 525 625 546">JSEIA0711ZZ</p>	<p data-bbox="673 357 1096 388">The tire pressure of each tire is displayed.</p>

OPERATION

< SYSTEM DESCRIPTION >

OPERATION

Switch Name and Function

INFOID:000000012797100

DESCRIPTION

Following item can be set on the integral switch.

Switch name	Item	Description
TPMS setting	Tire Pressure Unit	Tire air pressure unit can be adjusted. <ul style="list-style-type: none">• kPa• psi• bar• kgf/cm²

SETTING FOLLOW

On the integral switch screen

Tire Pressure Unit

1. Push the MENU button and touch "Meter Settings" on the lower display.
2. Touch "TPMS Setting".
3. Touch "Tire Pressure Unit".
4. When setting of TPMS unit changed, touch select "kPa", "psi", "bar" or "kgf/cm²".

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DIAGNOSIS SYSTEM (TIRE PRESSURE MONITORING SYSTEM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (TIRE PRESSURE MONITORING SYSTEM)

CONSULT Function (TIRE PRESSURE MONITORING SYSTEM)

INFOID:000000012797103

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
ECU identification*	Parts number of BCM can be read.
Active Test	Send the drive signal from CONSULT to the actuator. The operation check can be performed.
Self Diagnostic Result	<ul style="list-style-type: none">Retrieve DTC from ECU and display diagnostic items.Self-diagnostic results and freeze frame data can be read and erased quickly.*
Data Monitor	Monitor the input/output signal of the control unit in real time.
Work Support	This mode enables a technician to adjust some devices faster and more accurately.
Re/programming, Configuration	<ul style="list-style-type: none">Read and save the vehicle specification (TYPE ID).Write the vehicle specification (TYPE ID) when replacing BCM.

*: This item is displayed, but not used.

ECU IDENTIFICATION

BCM part number can be read.

ACTIVE TEST

Test Item	Description
FLASHER	This test is able to check turn signal lamp operation [Off/LH/RH].
HORN	This test is able to check horn operation [On].
WARNING LAMP	This test is able to check tire pressure warning lamp operation [On/Off].
ID REGIST WARNING	This test is able to check ID regist warning chime operation [On/Off].
RUN FLAT TIRE W/L	This item is displayed, but cannot be use this item.
RUN FLAT/T WARN BUZZER	This test is able to run flat tire warning chime operation [On/Off].

SELF DIAGNOSTIC RESULT

NOTE:

Before performing Self Diagnostic Result, be sure to register the tire pressure sensor ID or the actual malfunction may be different from that displayed on CONSULT.

Refer to [WT-22, "DTC Index"](#).

FREEZE FRAME DATA (FFD)

The following vehicle status is recorded when DTC is detected and is displayed on CONSULT.

Item name	Display item
SET AIR PRESSURE 2 FL	Set air pressure 2 front left
SET AIR PRESSURE 2 FR	Set air pressure 2 front right
SET AIR PRESSURE 2 RR	Set air pressure 2 rear right
SET AIR PRESSURE 2 RL	Set air pressure 2 rear left
WARNING AIR PRESSURE FL	Warning air pressure front left
WARNING AIR PRESSURE FR	Warning air pressure front right
WARNING AIR PRESSURE RR	Warning air pressure rear right
WARNING AIR PRESSURE RL	Warning air pressure rear left
AIR PRESS FL	Air pressure front left
AIR PRESS RL	Air pressure front right
AIR PRESS RR	Air pressure rear right
AIR PRESS RL	Air pressure rear left

DIAGNOSIS SYSTEM (TIRE PRESSURE MONITORING SYSTEM)

< SYSTEM DESCRIPTION >

Item name	Display item
SET TEMPERATURE	Set temperature
TIRE TEMPERATURE FL	Tire temperature front left
TIRE TEMPERATURE FR	Tire temperature front right
TIRE TEMPERATURE RR	Tire temperature rear right
TIRE TEMPERATURE RL	Tire temperature rear left
SENSOR LOW BATTERY FL	Low battery front left
SENSOR LOW BATTERY FR	Low battery front right
SENSOR LOW BATTERY RR	Low battery rear right
SENSOR LOW BATTERY RL	Low battery rear left
IGN COUNTER (0 - 39)	<p>The number of times that ignition switch is turned ON after the DTC is detected is displayed.</p> <ul style="list-style-type: none"> When "0" is displayed: It indicates that the system is presently malfunctioning. When except "0" is displayed: It indicates that system malfunction in the past is detected, but the system is presently normal. <p>NOTE: Each time when ignition switch is turned OFF to ON, numerical number increases in 1→2→3...38→39. When the operation number of times exceeds 39, the number do not increase and "39" is displayed until self diagnosis is erased.</p>

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item (Unit)	Description
VHCL SPEED SE (km/h)	Vehicle speed is displayed.
AIR PRESS FL (kPa, kgf/cm ² or Psi)	Indicates air pressure of front LH tire.
AIR PRESS FR (kPa, kgf/cm ² or Psi)	Indicates air pressure of front RH tire.
AIR PRESS RR (kPa, kgf/cm ² or Psi)	Indicates air pressure of rear RH tire.
AIR PRESS RL (kPa, kgf/cm ² or Psi)	Indicates air pressure of rear LH tire.
LOW TIRE PRESSURE W/L (Off/On)	Indicates condition of low tire pressure warning lamp in combination meter.
BUZZER 2(Off/On)	Indicates condition of buzzer in combination meter.
HORN (Off/On)	Indicates condition of horn.
HAZARD (Off/On)	Indicates condition of hazard.
WARNING AIR PRESSURE FL (kPa, kgf/cm ² or Psi)	Indicates warning air pressure front LH tire.
WARNING AIR PRESSURE FR (kPa, kgf/cm ² or Psi)	Indicates warning air pressure front RH tire.
WARNING AIR PRESSURE RR (kPa, kgf/cm ² or Psi)	Indicates warning air pressure rear RH tire.
WARNING AIR PRESSURE RL (kPa, kgf/cm ² or Psi)	Indicates warning air pressure rear LH tire.
SET AIR PRESSURE 1 FL (kPa, kgf/cm ² or Psi)	Reference pressure front LH tire.
SET AIR PRESSURE 1 FR (kPa, kgf/cm ² or Psi)	Reference pressure front RH tire.
SET AIR PRESSURE 1 RR (kPa, kgf/cm ² or Psi)	Reference pressure rear RH tire.
SET AIR PRESSURE 1 RL (kPa, kgf/cm ² or Psi)	Reference pressure rear LH tire.

WORK SUPPORT

Support Item	Description
ID REGIST	Refer to WT-40, "Description" .

RE/PROGRAMMING, CONFIGURATION

Configuration includes the following functions.

DIAGNOSIS SYSTEM (TIRE PRESSURE MONITORING SYSTEM)

< SYSTEM DESCRIPTION >

Function		Description
Read/Write Configuration	Before replacing ECU	<ul style="list-style-type: none">• Allows the reading of vehicle specification (Type ID) written in BCM.• Allows the reading of vehicle specification (Type ID) store in CONSULT.
	After replacing ECU	Allows the writing of vehicle information (Type ID) stored in CONSULT into the BCM.
Manual Configuration		Allows the writing of vehicle specification (Type ID) into the BCM by hand.

TIRE PRESSURE MONITORING SYSTEM

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

TIRE PRESSURE MONITORING SYSTEM

Reference Value

INFOID:0000000012797104

VALUES ON THE DIAGNOSIS TOOL

CAUTION:

The reference values in the table below come from the control unit calculation data. The normal values may in some cases be displayed even though the power circuit (harness) is open or shorted.

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor item	Data monitor	
	Condition	Reference values for normal operation
VHCL SPEED SE	Drive the vehicle.	Vehicle speed (km/h) or (MPH)
AIR PRESS FL	<ul style="list-style-type: none"> Drive at a speed of 40 km/h (25 MPH) or more then drive normally for 10 minutes. Turn the ignition switch ON and use the activation tool to transmit the registration signal. 	Tire pressure (kPa), (kgf/cm ²) or (Psi)
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		
LOW TIRE PRESSURE W/L	Ignition switch ON	Low tire pressure warning lamp ON: On Low tire pressure warning lamp OFF: Off
BUZZER 2	Ignition switch ON	Combination meter buzzer ON: On Combination meter buzzer OFF: Off
HORN	Ignition switch ON	<ul style="list-style-type: none"> Horn ON: On Horn OFF: Off
HAZARD	Ignition switch ON	Hazard lamp ON: On Hazard lamp OFF: Off
WARNING AIR PRESSURE FL	Ignition switch ON	Indicates warning air pressure front left tire (kPa), (kgf/cm ²) or (Psi)
WARNING AIR PRESSURE FR	Ignition switch ON	Indicates warning air pressure front right tire (kPa), (kgf/cm ²) or (Psi)
WARNING AIR PRESSURE RR	Ignition switch ON	Indicates warning air pressure rear right tire (kPa), (kgf/cm ²) or (Psi)
WARNING AIR PRESSURE RL	Ignition switch ON	Indicates warning air pressure rear left tire (kPa), (kgf/cm ²) or (Psi)
SET AIR PRESSURE 1 FL	Ignition switch ON	Reference pressure front left tire (kPa), (kgf/cm ²) or (Psi)
SET AIR PRESSURE 1 FR	Ignition switch ON	Reference pressure front right tire (kPa), (kgf/cm ²) or (Psi)
SET AIR PRESSURE 1 RR	Ignition switch ON	Reference pressure rear right tire (kPa), (kgf/cm ²) or (Psi)
SET AIR PRESSURE 1 RL	Ignition switch ON	Reference pressure rear left tire (kPa), (kgf/cm ²) or (Psi)

TERMINAL LAYOUT

Refer to [BCS-36. "Reference Value"](#).

PHYSICAL VALUES

Refer to [BCS-36. "Reference Value"](#).

TIRE PRESSURE MONITORING SYSTEM

< ECU DIAGNOSIS INFORMATION >

DTC Inspection Priority Chart

INFOID:000000012797105

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	C1769 CONFIG SETTING
2	C1734 CONTROL UNIT
3	C1735 IGN LINE
4	<ul style="list-style-type: none"> • U1000 CAN COMM CIRCUIT • U1010 CONTROL UNIT (CAN)
5	C1729 VHCL SPEED SIG ERR
6	<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"> • C1761 TEMPERATURE DATA FL • C1762 TEMPERATURE DATA FR • C1763 TEMPERATURE DATA RR • C1764 TEMPERATURE DATA RL
8	<ul style="list-style-type: none"> • C1730 FLAT TIRE FL • C1731 FLAT TIRE FR • C1732 FLAT TIRE RR • C1733 FLAT TIRE RL
9	<ul style="list-style-type: none"> • C1708 [NO DATA] FL • C1709 [NO DATA] FR • C1710 [NO DATA] RR • C1711 [NO DATA] RL
10	<ul style="list-style-type: none"> • C1704 LOW PRESSURE FL • C1705 LOW PRESSURE FR • C1706 LOW PRESSURE RR • C1707 LOW PRESSURE RL
11	<ul style="list-style-type: none"> • C1770 G SENSOR FL • C1771 G SENSOR FR • C1772 G SENSOR RL • C1773 G SENSOR RR

DTC Index

INFOID:000000012797106

DTC	Items (CONSULT screen terms)	Low tire pressure warning lamp	Reference
C1704	LOW PRESSURE FL	ON	WT-44. "DTC Description"
C1705	LOW PRESSURE FR		
C1706	LOW PRESSURE RR		
C1707	LOW PRESSURE RL		
C1708	[NO DATA] FL	The low tire pressure warning lamp repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated.	WT-46. "DTC Description"
C1709	[NO DATA] FR		
C1710	[NO DATA] RR		
C1711	[NO DATA] RL		
C1716	[PRESSDATA ERR] FL	The low tire pressure warning lamp repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated.	WT-49. "DTC Description"
C1717	[PRESSDATA ERR] FR		
C1718	[PRESSDATA ERR] RR		
C1719	[PRESSDATA ERR] RL		

TIRE PRESSURE MONITORING SYSTEM

< ECU DIAGNOSIS INFORMATION >

DTC	Items (CONSULT screen terms)	Low tire pressure warning lamp	Reference
C1729	VHCL SPEED SIG ERR	The low tire pressure warning lamp repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated.	WT-50, "DTC Description"
C1730	FLAT TIRE FL	ON	WT-51, "DTC Description"
C1731	FLAT TIRE FR		
C1732	FLAT TIRE RR		
C1733	FLAT TIRE RL		
C1734	CONTROL UNIT	The low tire pressure warning lamp repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated.	WT-53, "DTC Description"
C1735	IGN LINE	The low tire pressure warning lamp repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated.	WT-55, "DTC Description"
C1761	TEMPERATURE DATA FL	OFF	WT-58, "DTC Description"
C1762	TEMPERATURE DATA FR		
C1763	TEMPERATURE DATA RR		
C1764	TEMPERATURE DATA RL		
C1769	CONFIG SETTING	The low tire pressure warning lamp repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated.	WT-57, "DTC Description"
C1770	G SENSOR FL	OFF	WT-58, "DTC Description"
C1771	G SENSOR FR		
C1772	G SENSOR RL		
C1773	G SENSOR RR		
U1000	CAN COMM CIRCUIT	The low tire pressure warning lamp repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated.	WT-59, "DTC Description"
U1010	CONTROL UNIT (CAN)	The low tire pressure warning lamp repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated.	WT-60, "DTC Description"

NOTE:

If some DTCs are displayed at the same time, refer to [WT-22, "DTC Inspection Priority Chart"](#).

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TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

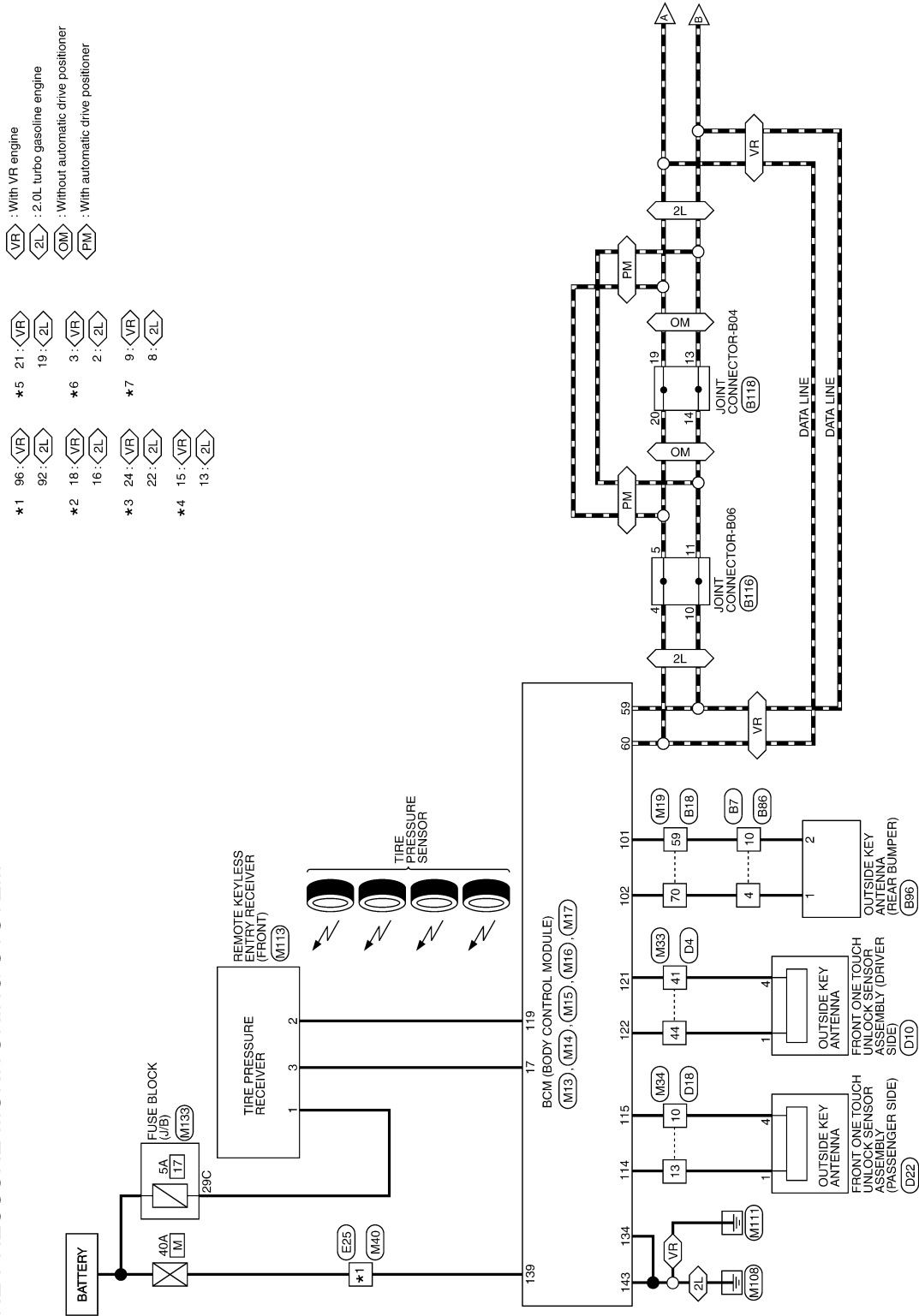
WIRING DIAGRAM

TIRE PRESSURE MONITORING SYSTEM

Wiring Diagram

INFOID:000000012797107

TIRE PRESSURE MONITORING SYSTEM

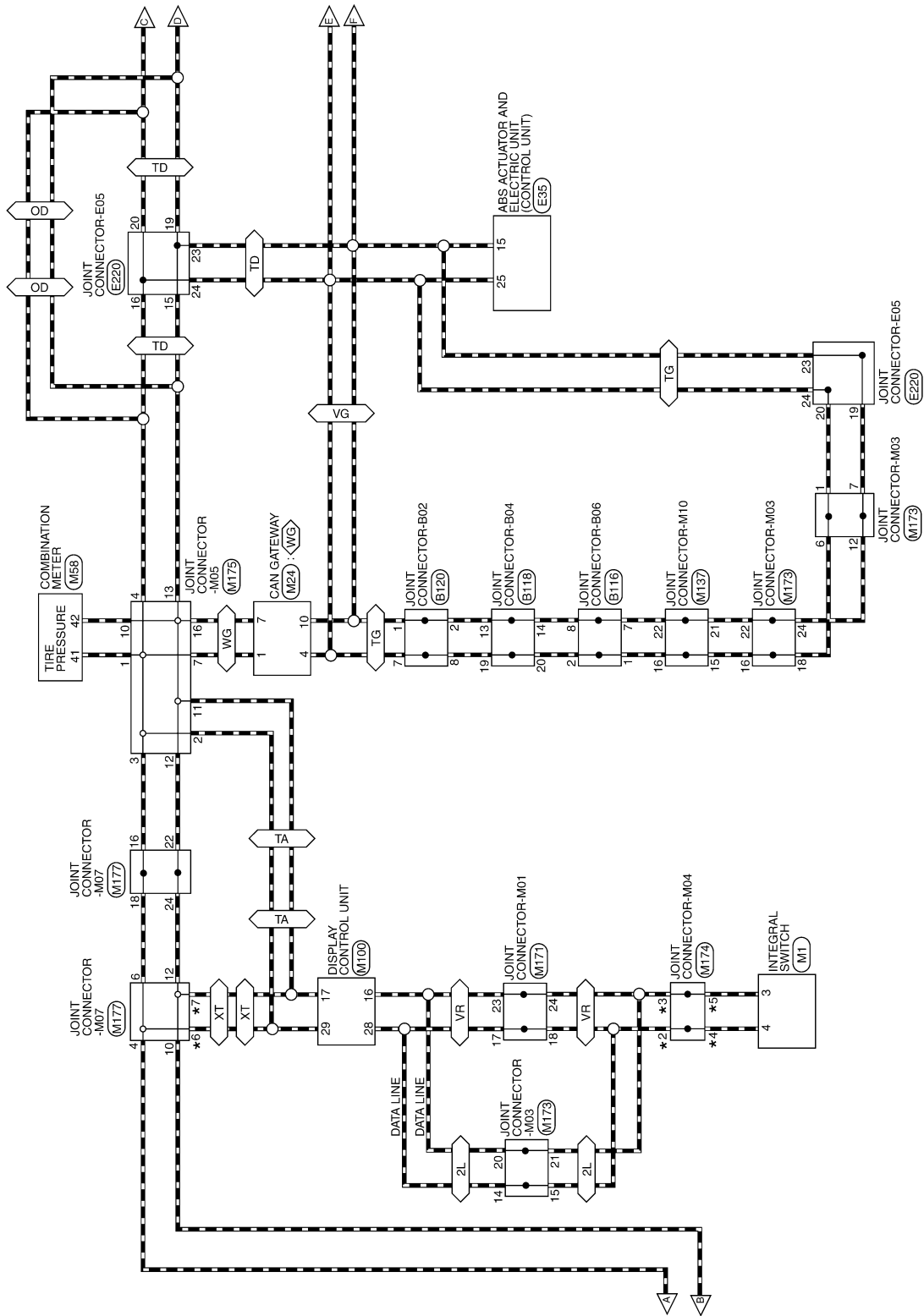


2016/02/15

JREW2611GB

TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >



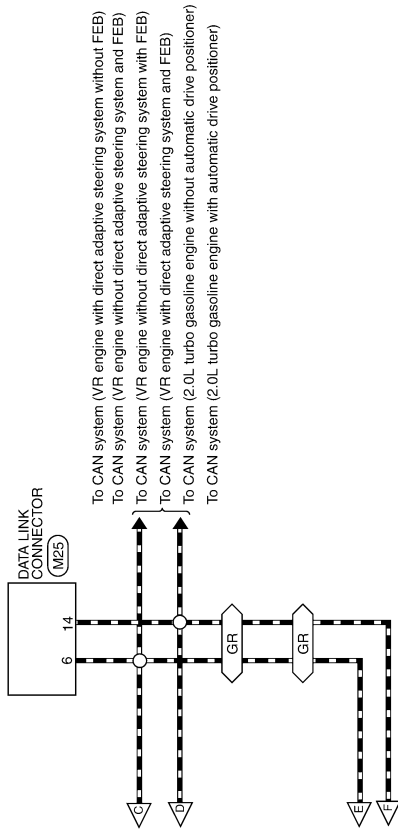
JREW2612GB

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TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

- XT** : Except for 2.0L turbo gasoline engine with automatic drive positioner
- TA** : With 2.0L turbo gasoline engine with automatic drive positioner
- WG** : With CAN gateway
- TG** : 2.0L turbo gasoline engine with CAN gateway
- VG** : VR engine with CAN gateway
- TD** : With 2.0L turbo gasoline engine without automatic drive positioner
- GD** : Except 2.0L turbo gasoline engine without automatic drive positioner
- GR** : Without CAN gateway for VR engine



JREW2613GB

TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

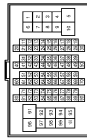
TIRE PRESSURE MONITORING SYSTEM

Connector No.	B7
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-AH



Terminal No.	Color Of Wire	Signal Name (Specification)
2	BG	
3	B	
4	R	
5	W	
6	B	
8	G	
9	B	
10	GR	
11	BR	
12	B	

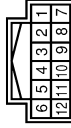
Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name (Specification)
1	Y	
2	G	
3	L	
4	LG	
5	Y	
6	R	
7	V	
8	LG	
10	BG	

11	BG			
12	LG			
13	GR			
14	R			
15	L			
16	V			
18	W			
19	BR			
20	W			
22	R			
23	V			
24	R			
24	Y			
25	P			
25	V			
25	W			
26	G			
27	R			
28	R			
31	B			
31	BR			
32	B			
33	B			
34	LG			
35	P			
36	W			
37	SB			
38	LG			
40	P			
41	SB			
42	BR			
43	BG			
44	BG			
46	R			
50	W			
51	SB			
52	V			
53	LG			
54	R			
55	R			
57	W			
58	V			
59	GR			
60	G			
61	G			
62	BG			
63	BR			
64	Y			
66	R			

70	R			
71	W			
72	B			
73	W			
74	L			
75	R			
75	V			
76	BR			
77	B			
78	SB			
79	V			
79	W			
81	B			
82	R			
83	BG			
84	L			
85	R			
85	V			
86	B			
88	G			
89	V			
91	W			
91	GR			
94	GR			
96	Y			
97	V			
98	BR			
98	Y			



Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-AH

8	G			
9	B			
10	GR			
11	BR			
12	B			

Connector No.	B85
Connector Name	OUTSIDE REF ANTENNA (REAR BUMPER)
Connector Type	RK02FGY



Terminal No.	Color Of Wire	Signal Name (Specification)
1	R	
2	GR	

Connector No.	B116
Connector Name	JOINT CONNECTOR-B06
Connector Type	24342_4GA2A



Terminal No.	Color Of Wire	Signal Name (Specification)
1	L	
2	L	
3	L	
4	L	
5	L	
6	L	
7	R	
8	R	
8	V	
9	R	

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TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

TIRE PRESSURE MONITORING SYSTEM

9	V	- [Without Gateway]
10	R	- [With VR30 engine]
10	V	- [With 2.0L turbo gasoline engine]
11	V	-
12	P	- [With Gateway]
12	R	- [Without Gateway]
13	SHIELD	-
14	SHIELD	-
15	B	- [With 2.0L turbo gasoline engine]
15	R	- [With VR30 engine]
15	SHIELD	- [With VR30 engine]
16	L	- [With VR30 engine]
16	SHIELD	- [With VR30 engine]
17	SHIELD	- [With VR30 engine]
17	SHIELD	- [With 2.0L turbo gasoline engine]
18	L	- [With VR30 engine]
18	SHIELD	- [With 2.0L turbo gasoline engine]
19	L	- [With 2.0L turbo gasoline engine]
19	SHIELD	- [With VR30 engine]
20	L	- [With 2.0L turbo gasoline engine]
20	SHIELD	- [With VR30 engine]
21	L	-
22	P	-
23	P	-
24	P	-
24	Y	- [With VR30 engine]
24	Y	- [With 2.0L turbo gasoline engine]

Connector No.	B118
Connector Name	JOINT CONNECTOR B04
Connector Type	24342_4GAZA



6	5	4	3	2	1
12	11	10	9	8	7
18	17	16	15	14	13
24	23	22	21	20	19

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	- [With VR30 engine]
1	SHIELD	- [With 2.0L turbo gasoline engine]
2	LG	- [With VR30 engine]
2	SHIELD	- [With 2.0L turbo gasoline engine]
3	SHIELD	-
4	LG	- [With VR30 engine]
4	SHIELD	- [With 2.0L turbo gasoline engine]
5	LG	- [With VR30 engine]
5	SHIELD	- [With 2.0L turbo gasoline engine]

6	LG	- [With VR30 engine]
6	SHIELD	- [With 2.0L turbo gasoline engine]
7	R	- [Color of wire differs depending on production]
7	V	- [Color of wire differs depending on production]
8	LG	- [With 2.0L turbo gasoline engine]
8	V	- [With VR30 engine and without paddle shift]
8	V	- [With VR30 engine and with paddle shift]
9	LG	- [With 2.0L turbo gasoline engine]
9	R	- [With VR30 engine and without paddle shift]
9	V	- [With VR30 engine and with paddle shift]
10	LG	- [With 2.0L turbo gasoline engine]
10	SHIELD	- [With VR30 engine]
11	LG	- [With 2.0L turbo gasoline engine]
11	SHIELD	- [With VR30 engine]
12	LG	- [With 2.0L turbo gasoline engine]
12	SHIELD	- [With VR30 engine]
13	L	- [With VR30 engine]
13	P	- [With 2.0L turbo gasoline engine and without gateway]
13	R	- [With 2.0L turbo gasoline engine and with gateway]
14	L	- [With VR30 engine]
14	P	- [With 2.0L turbo gasoline engine and without gateway]
14	R	- [With 2.0L turbo gasoline engine and with gateway]
15	L	- [With VR30 engine]
15	R	- [With 2.0L turbo gasoline engine]
16	L	-
17	L	-
18	L	-
19	L	- [With 2.0L turbo gasoline engine]
19	SHIELD	- [With VR30 engine]
20	L	- [With 2.0L turbo gasoline engine]
20	SHIELD	- [With VR30 engine]
21	L	- [With 2.0L turbo gasoline engine]
21	SHIELD	- [With VR30 engine]
22	R	-
23	R	-
24	R	-

Connector No.	B120
Connector Name	JOINT CONNECTOR-B02
Connector Type	24342_4GAZA



6	5	4	3	2	1
12	11	10	9	8	7
18	17	16	15	14	13
24	23	22	21	20	19

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	R	-
3	L	- [With VR30 engine]
3	R	- [With 2.0L turbo gasoline engine]
4	L	- [With VR30 engine]
4	R	- [With 2.0L turbo gasoline engine]
5	L	-
5	L	-
6	L	-
7	L	-
8	L	-
9	L	- [With 2.0L turbo gasoline engine]
9	R	- [With VR30 engine]
10	L	- [With 2.0L turbo gasoline engine]
10	R	- [With VR30 engine]
11	R	-
12	R	-
13	W	-
14	W	-
15	W	-
17	SHIELD	-
18	B	-
19	B	- [With 2.0L turbo gasoline engine]
19	GR	- [With VR30 engine]
20	GR	- [With VR30 engine]
20	SHIELD	- [With 2.0L turbo gasoline engine]
21	B	- [With 2.0L turbo gasoline engine]
21	GR	- [With VR30 engine]
22	W	-
23	W	-
24	W	-

Connector No.	D4
Connector Name	WIRE TO WIRE
Connector Type	NH60FW-TS12



6	5	4	3	2	1
12	11	10	9	8	7
18	17	16	15	14	13
24	23	22	21	20	19

Terminal No.	Color Of Wire	Signal Name [Specification]
2	SB	-
4	BG	-
5	R	-
6	V	-
7	LG	-
8	G	-
9	GR	-
10	Y	-
11	SHIELD	-
12	BG	-
13	L	-
14	B	-
15	Y	-
16	GR	-
17	R	-
18	GR	-
19	R	-
20	W	-
21	LG	-
22	W	-
23	L	-
24	G	-
25	BR	-
26	R	-
27	BR	-
28	V	-
29	B	-
30	W	-
31	P	-
32	Y	-
33	BR	-
34	L	-
35	R	-
36	GR	-
37	G	-
40	LG	- [Color of wire differs depending on production]

TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

TIRE PRESSURE MONITORING SYSTEM

Terminal No.	Color Of Wire	Signal Name [Specification]
40	P	-
41	L	-
43	BG	-
44	Y	-
46	W	-
47	R	-
49	BR	-
50	B	-
52	V	-
53	GR	-
54	GR	[Color of wire differs depending on production]
55	SB	-
56	BR	-
57	R	-
58	L	-
59	V	-
60	G	-
61	BG	-
62	Y	-
63	SB	-
64	B	-
65	Y	-
66	BR	-
68	Y	-
69	L	-
70	W	-
71	LG	-
72	P	-

Connector No.	D10
Connector Name	FRONT ONE TOUCH UNLOCK SENSOR ASSEMBLY (PASSENGER SIDE)
Connector Type	RHD4FLGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	R	-
3	B	-
4	L	-

Connector No.	D18
Connector Name	WIRE TO WIRE
Connector Type	NH8DFPW-TSL2



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	P	-
4	SB	-
5	BR	-
6	Y	-
7	LG	-
8	W	-
9	L	-
10	L	-
11	GR	-
13	Y	-
14	R	-
16	R	-
17	B	-
18	W	-
19	B	-
20	G	-
21	SHIELD	-
22	GR	-
23	BG	-
24	B	-
25	BR	-
26	V	-
27	G	-
28	V	-
29	Y	-
30	R	-
49	LG	-
52	P	-
55	L	-
56	Y	-
57	R	-
58	SB	-
59	R	-
60	G	-
63	B	-

64	Y	-
65	BR	-
66	GR	-
69	W	-
70	L	-
71	BG	-
72	Y	-

Connector No.	D22
Connector Name	FRONT ONE TOUCH UNLOCK SENSOR ASSEMBLY (PASSENGER SIDE)
Connector Type	RHD4FLGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	R	-
3	B	-
4	L	-

Connector No.	E25
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
6	V	-
7	L	-
8	BG	-
8	BR	-
9	B	-
9	GR	-

Terminal No.	Color Of Wire	Signal Name [Specification]
9	LG	-
10	BR	-
11	L	-
12	GR	-
12	P	-
13	SHIELD	-
13	W	-
14	B	-
15	GR	-
15	SB	-
16	BR	-
16	T	-
17	BR	-
17	GR	-
18	G	-
18	P	-
19	Y	-
31	W	-
31	Y	-
32	G	-
32	GR	-
33	L	-
33	Y	-
34	P	-
35	GR	-
36	R	-
37	L	-
37	V	-
38	L	-
38	P	-
39	BR	-
39	Y	-
40	SR	-
41	LG	-
44	Y	-
45	L	-
46	W	-
46	B	-
46	T	-
47	G	-
48	SHIELD	-
49	R	-
50	BR	-
50	GR	-
51	L	-
52	W	-
53	V	-
54	P	-
54	W	-

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TIRE PRESSURE MONITORING SYSTEM

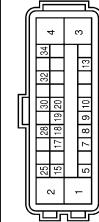
< WIRING DIAGRAM >

TIRE PRESSURE MONITORING SYSTEM

55	B	-	[With 2.0L turbo gasoline engine]
56	W	-	[With VR30 engine]
56	BG	-	[With 2.0L turbo gasoline engine]
56	SB	-	[With VR30 engine]
57	BG	-	[With VR30 engine]
57	W	-	[With 2.0L turbo gasoline engine]
58	B	-	[Color of wire differs depending on production]
58	B/W	-	[Color of wire differs depending on production]
59	W	-	-
61	R	-	-
64	V	-	-
65	BR	-	[Color of wire differs depending on production]
65	GR	-	[Color of wire differs depending on production]
66	GR	-	-
67	LG	-	-
68	BG	-	-
69	L	-	-
70	R	-	-
71	G	-	[With 2.0L turbo gasoline engine]
71	LG	-	[With VR30 engine]
72	L	-	[With 2.0L turbo gasoline engine]
72	V	-	[With VR30 engine]
73	G	-	[With VR30 engine]
73	W	-	[With 2.0L turbo gasoline engine]
74	BR	-	[With VR30 engine]
74	L	-	[With 2.0L turbo gasoline engine]
75	P	-	[With 2.0L turbo gasoline engine and without gateway]
75	R	-	[With 2.0L turbo gasoline engine and with gateway]
75	V	-	[With VR30 engine]
76	G	-	-
77	Y	-	-
78	LG	-	[With 2.0L turbo gasoline engine and with ADAS]
78	P	-	[With VR30 engine]
78	V	-	[With 2.0L turbo gasoline engine and without ADAS]
79	SB	-	-
80	G	-	-
81	R	-	-
82	V	-	-
83	BR	-	[With 2.0L turbo gasoline engine]
83	R	-	[With VR30 engine]
84	LG	-	-
86	BG	-	-
87	G	-	-
89	LG	-	-
90	G	-	[With VR30 engine]
90	GR	-	[With 2.0L turbo gasoline engine]
91	G	-	-
93	BG	-	-
94	GR	-	[With VR30 engine]
94	L	-	[With 2.0L turbo gasoline engine]

95	BG	-	[With VR30 engine]
95	P	-	[With 2.0L turbo gasoline engine and without gateway]
95	R	-	[With 2.0L turbo gasoline engine and with gateway]
96	W	-	-
97	LG	-	-
98	L	-	[With 2.0L turbo gasoline engine]
99	LG	-	-
99	P	-	[With VR30 engine]
100	SHIELD	-	-

Connector No.	E35
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT CONTROL UNIT
Connector Type	S4Z30FB-S1Z4-U



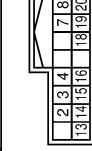
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GND
2	G	GND
3	B	VALVE BATTERY [With VR30 engine]
3	P	VALVE BATTERY [With 2.0L turbo gasoline engine]
4	Y	MOTOR BATTERY
5	LG	STOP LAMP SW SIGNAL [With ADAS]
5	V	STOP LAMP SW SIGNAL [With ASCD]
7	GR	RR LH WHEEL SENSOR SIGNAL
8	G	RR LH WHEEL SENSOR POWER SUPPLY
9	BR	FR RH WHEEL SENSOR SIGNAL
10	GR	FR RH WHEEL SENSOR POWER SUPPLY
13	R	VACUUM SENSOR SIGNAL
15	R	CAN L [Without Gateway]
17	V	RR RH WHEEL SENSOR SIGNAL
18	LG	RR RH WHEEL SENSOR POWER SUPPLY [With VR30 engine]
18	V	RR RH WHEEL SENSOR POWER SUPPLY [With VR30 engine]
20	BG	FR LH WHEEL SENSOR SIGNAL
25	L	CAN H
28	G	VACUUM SENSOR POWER SUPPLY
30	R	VDC OFF SW SIGNAL
32	SHIELD	VACUUM SENSOR GROUND
34	G	IGN

Connector No.	E220
Connector Name	JOINT CONNECTOR-E05
Connector Type	NH24FB-J



Terminal No.	Color Of Wire	Signal Name [Specification]
3	W	-
4	L	-
7	W	-
8	L	-
11	W	-
12	L	-
15	P	- [Without Gateway]
15	R	- [With Gateway]
16	L	-
19	P	- [Without Gateway]
19	R	- [With Gateway]
20	L	-
23	P	- [Without Gateway]
23	R	- [With Gateway]
24	L	-

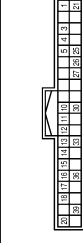
Connector No.	M1
Connector Name	INTEGRAL SWITCH
Connector Type	TH24FW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	ILLUMINATION SIGNAL
3	LG	AV COMM (L)
4	SB	AV COMM (H)
7	W/R	DISK EJECT SIGNAL
8	G	HAZARD SIGNAL

13	B	GND
14	SB	ACC [For 2.0L turbo gasoline engine]
14	V	ACC [For VR30 engine]
15	B	ILLUMINATION CONTROL SIGNAL
16	BG	DISK EJECT SIGNAL GROUND
18	R	IGN [For VR30 engine]
18	W	IGN [For 2.0L turbo gasoline engine]
19	BR	CAMERA SWITCH SIGNAL
20	LG	AIR BAG INDICATOR OFF SIGNAL

Connector No.	M13
Connector Name	BCM [BODY CONTROL MODULE]
Connector Type	TH40FG-AH



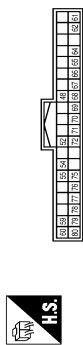
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	PUSH SW
3	Y	SENS PWR SPLY
4	BG	OPTICAL SENSOR
5	LG	-
10	W	COMB SW OUTPUT 5
11	SB	COMB SW OUTPUT 4
12	L	COMB SW OUTPUT 3
13	G	COMB SW OUTPUT 2
14	P	COMB SW OUTPUT 1
15	G	ONE TOUCH LINK SENS (DR)
16	G	ONE TOUCH LINK SENS (PASS)
17	P	RECEIVER SENSOR GND
18	L	SECURITY IND LAMP CONT
20	R	DETENT SW
21	SB	STEP LAMP CONT
26	R	STOP LAMP SW2
27	P	EXTENDED STORAGE FUSE SW
30	W	STOP LAMP SW
33	V	DR DOOR UNLK SENS
35	V	TR LID OP CANCEL SW
36	G	HAZARD SW
39	BR	P/N POSITION

TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

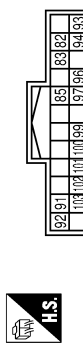
TIRE PRESSURE MONITORING SYSTEM

Connector No.	M14
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
48	R	PUSH-BTN IGN SW ILL PWR
52	G	DONGLE LINK
54	V	COMM LINE
55	R	RAIN SENSOR
59	P	CAN-L
60	L	REAR WINDOW DEF RLY CONT
61	G	STARTER RLY CONT
62	R	KEY WARN BLUZZER
64	V	OUTS HD LAMP CONT
65	B	BLOWER FAN RLY CONT (WITH VR30 engine)
66	Y	BLOWER FAN RLY CONT (WITH 2.0L turbo gasoline engine)
67	W/B	IGN RLYAY (F/B) CONT
68	R	DIMMER
69	GR	A/T SHIFT SELECT PWR SPLY
70	B	IGN RLYAY (PDM E/R) CONT
71	G	DR DOOR REQ SW
72	SB	PASS DOOR REQ SW
75	BR	COMB SW INPUT 5
76	BG	COMB SW INPUT 4
77	V	COMB SW INPUT 3
78	X	COMB SW INPUT 2
79	LG	COMB SW INPUT 1
80	L	TR LID OPNR SW

Connector No.	M15
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FCI-VNH



Terminal No.	Color Of Wire	Signal Name [Specification]
82	W	REAR LH DOOR SW
83	L	TR LID OPEN REQ SW
85	P	TR ROOM LAMP CONT
91	GR	TRUNK LID OPEN
92	W	TURN SIG RH OUTPUT (SIDE,REAR)
93	G	REAR RH DOOR SW
94	GR	PASSENGER DOOR SW
96	V	DRIVER DOOR SW
97	R	TR ROOM LAMP SW
99	GR	INSIDE KEY ANT (TRUNK) -
100	W	INSIDE KEY ANT (TRUNK) +
101	BG	REAR BMRP ANT -
102	LG	REAR BMRP ANT +
103	Y	TURN SIG LH OUTPUT (SIDE,REAR)

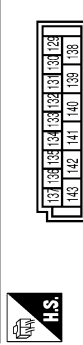
Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
105	V	TURN SIG RH OUTPUT (FRONT)
107	P	PUSH-BTN IGN SW ILL GND
111	Y	ACC/ON IND
113	SB	ACC RELAY CONT
114	LG	PASSENGER DOOR ANT +
115	V	PASSENGER DOOR ANT -

116	BR	INSIDE KEY ANT (CONSOLE) +
117	W/B	TURN SIG LH OUTPUT (FRONT)
119	L	KLS ENT RECEIV COMM
121	SB	DRIVER DOOR ANT -
122	BG	DRIVER DOOR ANT +
123	R	INSIDE KEY ANT (INSTRUMENT LOWER) +
124	G	INSIDE KEY ANT (INSTRUMENT LOWER) -
126	B	MATS ANT AMP
127	W	MATS ANT AMP
128	GR	INSIDE KEY ANT (CONSOLE) -

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEAUBFW-FH46-SA



Terminal No.	Color Of Wire	Signal Name [Specification]
129	LG	INT ROOM LAMP PWR SPLY
130	P	PASS DOOR UNLK OUTPUT
131	Y	BAT (FUSE)
132	V	RR, RL DOOR LK OUTPUT
133	BR	RR, RL DOOR UNLK OUTPUT
134	B	GND
135	V	FRONT DOOR, FL LID LK OUTPUT
136	V	INT ROOM LAMP CONT
137	LG	FRONT DOOR, FL LID UNLK OUTPUT
138	P	REAR DOORS ACT PWR SPLY (WITH VR30 engine)
138	R	REAR DOORS ACT PWR SPLY (WITH 2.0L turbo gasoline engine)
139	W	BAT (E/L)
140	BR	IGN ON
141	R	PWR SPLY (BAT)
142	R	FRONT DOORS, FL LID ACT PWR SPLY
143	B	GND

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	TH80AW-C516-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	G	-
3	SB	-
4	BR	-
5	Y	-
6	R	-
7	W	-
8	V	-
10	BG	-
11	BR	-
12	LG	-
13	GR	-
14	R	-
15	L	-
16	V	-
18	W	-
19	BR	-
20	W	-
22	SB	-
23	R	-
24	R	- [With 2.0L turbo gasoline engine]
24	Y	- [With VR30 engine]
25	P	- [With 2.0L turbo gasoline engine]
25	W	- [With VR30 engine]
26	G	-
27	R	-
28	R	-
31	BR	-
32	B	-
33	B	-
34	V	-
35	P	-
36	W	-
37	SB	-
38	LG	-
40	P	-

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TIRE PRESSURE MONITORING SYSTEM

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TIRE PRESSURE MONITORING SYSTEM

41	G	-	-
42	BR	-	-
43	BR	-	-
44	BR	-	-
46	BG	-	-
50	W	-	-
51	Y	-	-
52	V	-	-
53	LG	-	-
54	R	-	-
55	R	-	-
57	W	-	-
58	V	-	-
59	BG	-	-
60	G	-	-
61	G	-	-
62	BG	-	-
63	BR	-	-
64	Y	-	-
66	R	-	-
70	LG	-	-
71	W	-	-
72	B	-	-
73	W	-	-
74	L	-	-
75	W	-	-
76	BR	-	-
77	B	-	-
78	SB	-	-
79	P	- [With VR30 engine]	-
79	W	- [With 2.0L turbo gasoline engine]	-
81	B	-	-
82	R	-	-
83	BG	-	-
84	L	-	-
85	W	-	-
86	B	-	-
88	G	-	-
89	V	- [With 2.0L turbo gasoline engine]	-
89	W	- [With VR30 engine]	-
91	GR	-	-
94	GR	-	-
96	W	-	-
97	V	-	-
98	BR	- [With VR30 engine and with BOSE system]	-
98	Y	- [Except with VR30 engine and with BOSE system]	-

Connector No.	M24
Connector Name	CAN GATEWAY
Connector Type	TH12FW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H [CAN COMMUNICATION CIRCUIT 1]
3	W	BATTERY POWER SUPPLY
4	L	CAN-H [CAN COMMUNICATION CIRCUIT 2]
5	B	GROUND
6	L	CAN-H [CAN COMMUNICATION CIRCUIT 2]
7	P	CAN-L [CAN COMMUNICATION CIRCUIT 1]
9	R	IGNITION POWER SUPPLY [With VR30 engine and without IS]
9	W	IGNITION POWER SUPPLY [Except with VR30 engine and without IS]
10	R	CAN-L [CAN COMMUNICATION CIRCUIT 2]
11	B	GROUND
12	R	CAN-L [CAN COMMUNICATION CIRCUIT 2]

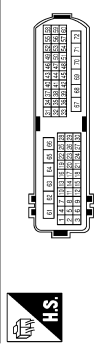
Connector No.	M25
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	M_CAN_L
4	B	EARTH
5	B	EARTH
6	L	CAN-H
7	V	KLINE [With 2.0L turbo gasoline engine]
8	W	IGN_SW
11	SB	M_CAN_H
12	R	CAN-L

13	L	CAN-H
14	P	CAN-L
16	W	POWER

Connector No.	M33
Connector Name	WIRE TO WIRE
Connector Type	NH60MW-1S12



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
4	G	-
5	G	-
6	R	-
7	R	-
8	GR	-
9	GR	-
10	W	-
11	SHIELD	-
12	P	-
13	SB	-
14	LG	-
15	Y	-
16	Y	-
17	P	-
18	W/B	-
19	LG	- [With DRPO]
19	V	- [Without DRPO]
20	V	-
21	B	-
22	BG	- [Without DRPO]
22	G	- [With DRPO]
23	L	-
24	Y	-
25	BG	- [Without DRPO]
25	L	- [With DRPO]
26	Y	-
27	GR	-
28	V	-
29	B	-
30	W	-

31	B	-
32	SB	-
33	L	-
34	BR	-
35	LG	-
36	W	-
37	B	-
40	P	-
41	SB	-
43	W	- [Except with VR30 engine and without IS]
43	Y	- [With VR30 engine and without IS]
44	BG	-
46	BR	-
47	G	-
49	V	-
50	B	-
52	BR	-
53	B	-
55	BG	-
56	LG	-
57	V	-
58	R	-
59	G	-
60	L	-
61	G	-
62	R	-
64	B	-
65	R	-
66	BR	-
68	P	-
69	V	-
70	W	-
71	LG	-
72	V	-

JREW2619GB

TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

TIRE PRESSURE MONITORING SYSTEM

Connector No.	M34
Connector Name	WIRE TO WIRE
Connector Type	NH80MM-1S12



Terminal No.	Color Of Wire	Signal Name (Specification)
1	V	-
2	R	-
4	G	- [Without DRPO]
4	SB	- [Without DRPO]
5	L	-
6	R	-
7	R	-
8	W	-
9	GR	-
10	V	-
11	Y	-
13	LG	-
14	W	-
16	G	-
17	B	-
18	W	-
19	B	-
20	SB	- [With DRPO]
20	Y	- [Without DRPO]
21	SHIELD	-
22	B	-
23	BG	- [Without DRPO]
24	P	- [With DRPO]
24	G	- [Without DRPO]
25	LG	-
26	BG	- [Without DRPO]
26	BR	- [With DRPO]
27	R	-
28	SB	-
29	BG	- [Without DRPO]
29	W/B	- [With DRPO]
30	L	-
49	P	-
52	V	-
55	B	-
56	SB	-

57	G	-
58	G	-
59	LG	- [With 2.0L turbo gasoline engine]
60	R	- [With VR30 engine]
63	B	- [With VR30 engine]
64	R	- [With 2.0L turbo gasoline engine]
65	BR	- [With VR30 engine]
66	V	-
69	BR	-
70	BR	- [With VR30 engine]
71	SB	-
72	W	-

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CS16-TM4



Terminal No.	Color Of Wire	Signal Name (Specification)
1	BG	-
6	W/B	-
7	V	-
8	BG	- [With VR30 engine]
8	BR	- [With 2.0L turbo gasoline engine]
9	LG	- [With VR30 engine]
9	P	- [With 2.0L turbo gasoline engine]
10	W	-
11	Y	- [With VR30 engine]
11	Y	- [With 2.0L turbo gasoline engine]
12	B	- [With VR30 engine]
12	BR	- [With 2.0L turbo gasoline engine]
13	GR	- [With VR30 engine]
13	SHIELD	- [With 2.0L turbo gasoline engine]
14	B	-
15	BG	- [With 2.0L turbo gasoline engine]
15	SB	- [With VR30 engine]
16	B	- [With VR30 engine]
16	BR	- [With 2.0L turbo gasoline engine]
17	LG	-
18	B	-
18	W/B	- [With VR30 engine]

69	L	-
70	R	-
71	V	- [With VR30 engine]
71	W	- [With 2.0L turbo gasoline engine]
72	L	- [With 2.0L turbo gasoline engine]
72	LG	- [With VR30 engine]
73	R	- [With VR30 engine]
73	W	- [With 2.0L turbo gasoline engine]
74	BR	- [With VR30 engine]
74	L	- [With 2.0L turbo gasoline engine]
75	B	- [With VR30 engine]
75	P	- [With 2.0L turbo gasoline engine and without gateway]
75	R	- [With 2.0L turbo gasoline engine and with gateway]
76	W/B	-
77	SB	-
78	G	- [With VR30 engine]
78	LG	- [With 2.0L turbo gasoline engine]
79	R	-
80	G	-
81	R	-
82	LG	-
83	BR	- [With 2.0L turbo gasoline engine]
83	R	- [With VR30 engine]
84	V	-
86	V	-
87	G	-
89	V	-
90	G	- [With VR30 engine]
90	V	- [With 2.0L turbo gasoline engine]
91	W	-
92	G	-
93	BR	-
94	GR	- [With VR30 engine]
94	L	- [With 2.0L turbo gasoline engine]
95	BR	- [With VR30 engine]
95	P	- [With 2.0L turbo gasoline engine and without gateway]
95	R	- [With 2.0L turbo gasoline engine and with gateway]
96	W	-
97	LG	-
98	BR	-
99	BR	- [With VR30 engine]
99	LG	- [With 2.0L turbo gasoline engine]
100	SHIELD	-

19	Y	-
31	W	- [With 2.0L turbo gasoline engine]
32	G	- [With VR30 engine]
32	V	- [With 2.0L turbo gasoline engine]
33	L	- [With VR30 engine]
33	Y	- [With 2.0L turbo gasoline engine]
34	P	-
35	BG	-
36	G	-
37	B	- [With VR30 engine]
37	L	- [With 2.0L turbo gasoline engine]
38	L	- [With VR30 engine]
38	P	- [With 2.0L turbo gasoline engine and without gateway]
38	R	- [With 2.0L turbo gasoline engine and with gateway]
39	R	- [With 2.0L turbo gasoline engine]
39	Y	- [With VR30 engine]
40	GR	-
41	L	-
44	BR	-
45	L	- [With 2.0L turbo gasoline engine]
45	W	- [With VR30 engine]
46	G	- [With VR30 engine]
46	Y	- [With 2.0L turbo gasoline engine]
47	BG	- [With 2.0L turbo gasoline engine]
47	R	- [With VR30 engine]
48	SHIELD	-
49	B	- [With VR30 engine]
49	G	- [With 2.0L turbo gasoline engine]
50	B	- [With 2.0L turbo gasoline engine]
50	BR	- [With VR30 engine]
51	L	-
52	W	-
53	G	-
54	SB	- [With 2.0L turbo gasoline engine]
54	Y	- [With VR30 engine]
55	B	- [With 2.0L turbo gasoline engine]
55	P	- [With VR30 engine]
56	BG	- [With VR30 engine]
56	GR	- [With 2.0L turbo gasoline engine]
57	GR	- [With VR30 engine]
57	P	- [With 2.0L turbo gasoline engine]
58	B	-
59	SB	-
61	W/B	-
64	Y	-
65	R	-
66	P	- [Color of wire differs depending on production]
66	V	- [Color of wire differs depending on production]
67	LG	-
68	BG	-

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TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

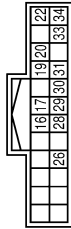
TIRE PRESSURE MONITORING SYSTEM

Connector No.	M158
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	L	CAN-H
42	P	CAN-L
43	B	ILLUMINATION CONTROL SIGNAL
44	Y	FUEL LEVEL SENSOR GROUND
45	W	BATTERY POWER SUPPLY
46	BG	IGNITION SIGNAL (Except with VR30 engine and without ISS)
47	SB	AV COMMUNICATION SIGNAL (H)
48	LG	AV COMMUNICATION SIGNAL (L)
51	BR	FUEL LEVEL SENSOR SIGNAL
52	B	GROUND

Connector No.	M100
Connector Name	DISPLAY CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
16	LG	AV COMM (L)
17	P	CAN-L
19	R	DIMMER SIGNAL
20	BR	REVERSE SIGNAL
22	B	GROUND
26	BR	CAMERA SWITCH SIGNAL
28	SB	AV COMM (H)
29	L	CAN-H
30	R	IGN (For VR30 engine)

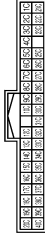
30	W	IGN (For 2.0L turbo gasoline engine)
31	R	VEHICLE SPEED SIGNAL (8-PULSE)
33	SB	ACC (Except for VR30 engine and with ISS)
33	V	ACC (For VR30 engine and with ISS)
34	Y	BAT

Connector No.	M113
Connector Name	REMOTE REVESS ENTRY RECEIVER
Connector Type	TA004FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	+12V
2	L	SIGNAL
3	P	GND

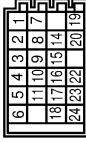
Connector No.	M133
Connector Name	FUSE BLOCK (J/B)
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
13C	V	-
13C	L	-
14C	Y	-
15C	R	-
16C	R	-
17C	L	-
18C	BG	- [Without DRPO]
18C	P	- [With DRPO]
19C	B	-

5	B	-
7	B	-
8	B	-
9	B	-
10	B	-
11	B	-
13	L	-
14	L	-
15	L	-
16	L	-
19	R	-
20	R	-
21	R	-
22	R	-

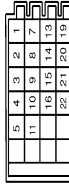
Connector No.	M171
Connector Name	JOINT CONNECTOR-M01
Connector Type	T4342_4GA2A



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	B	-
4	B	-
5	B	-
6	B	-
7	B	-
8	B	-
9	B	-
10	G	-
11	G	-
14	B	-
15	B	-
16	SB	- [With VR30 engine]
17	Y	- [With 2.0L turbo gasoline engine]
17	SB	- [With VR30 engine]
18	SB	- [With 2.0L turbo gasoline engine]
18	Y	- [With 2.0L turbo gasoline engine]
19	G	-

1C	R	-
20C	W	-
21C	L	-
22C	L	-
23C	L	-
25C	LG	-
26C	SB	-
27C	P	-
28C	W	-
29C	W	-
3C	R	-
36C	R	-
37C	W	-
38C	SB	-
39C	V	-
3C	P	-
40C	G	-
4C	P	-
5C	P	-
6C	G	-
7C	G	-
8C	G	-
9C	V	-

Connector No.	M137
Connector Name	JOINT CONNECTOR-M10
Connector Type	T4342_4GA2A



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	B	-
4	B	-

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TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

TIRE PRESSURE MONITORING SYSTEM

20	G	-	-
22	LG	- [With VR30 engine]	-
22	SB	- [With 2.0L turbo gasoline engine]	-
23	LG	- [With VR30 engine]	-
23	SB	- [With 2.0L turbo gasoline engine]	-
24	LG	- [With VR30 engine]	-
24	SB	- [With 2.0L turbo gasoline engine]	-

Connector No.	M173
Connector Name	JOINT CONNECTOR-M03
Connector Type	24342_46A2A



6	5	4	3	2	1
12	11	10	9	8	7
18	17	16	15	14	13
24	23	22	21	20	19

22	R	- [With 2.0L turbo gasoline engine]	-
22	SB	- [With VR30 engine and without ISS]	-
22	V	- [With VR30 engine and with ISS]	-
23	R	- [With 2.0L turbo gasoline engine]	-
23	SB	- [With VR30 engine and without ISS]	-
23	V	- [With VR30 engine and with ISS]	-
24	R	- [With 2.0L turbo gasoline engine]	-
24	SB	- [With VR30 engine and without ISS]	-
24	V	- [With VR30 engine and with ISS]	-

Connector No.	M174
Connector Name	JOINT CONNECTOR-M04
Connector Type	24342_46A2A



6	5	4	3	2	1
12	11	10	9	8	7
18	17	16	15	14	13
24	23	22	21	20	19

Connector No.	M175
Connector Name	JOINT CONNECTOR-M05
Connector Type	NH20FH-DC



20	19	17	18	15	14	13	12	11	10
8	7	6	5	4	3	2	1		

Connector No.	M177
Connector Name	JOINT CONNECTOR-M07
Connector Type	24342_46A2A



6	5	4	3	2	1
12	11	10	9	8	7
18	17	16	15	14	13
24	23	22	21	20	19

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	L	-
3	L	-
4	L	-
5	L	-
6	L	-
7	L	-
8	L	-
9	L	-
10	P	-
11	P	-
12	P	-
13	P	-
14	P	-
15	P	-
16	R	- [With 2.0L turbo gasoline engine]
17	R	- [With VR30 engine]
18	R	- [With 2.0L turbo gasoline engine]
19	R	- [With VR30 engine]
20	W	- [Except with VR30 engine and with ISS]
21	W	- [With VR30 engine and with ISS]
22	W	- [Except with VR30 engine and with ISS]
23	W	- [With VR30 engine and with ISS]
24	W	- [Except with VR30 engine and with ISS]

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	L	-
3	L	-
4	L	-
5	L	-
6	L	-
7	P	-
8	P	-
9	P	-
10	P	-
11	P	-
12	P	-
13	L	-
14	L	-
15	L	-
16	L	-
17	L	-
18	L	-
19	W	-
20	W	-
21	W	-
22	P	-
23	P	-
24	P	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	L	-
3	L	-
4	L	-
5	L	-
6	L	-
7	R	-
8	R	-
9	R	-
10	R	-
11	R	-
12	R	-
13	SB	-
14	SB	-
15	SB	-
16	SB	- [With 2.0L turbo gasoline engine]
17	L	- [With VR30 engine]
17	L	- [With 2.0L turbo gasoline engine]
17	SB	- [With VR30 engine]
18	L	- [With 2.0L turbo gasoline engine]
18	SB	- [With VR30 engine]
19	BR	- [With VR30 engine]
19	LG	- [With 2.0L turbo gasoline engine]
20	BR	- [With VR30 engine]
20	LG	- [With 2.0L turbo gasoline engine]
21	BR	- [With VR30 engine]
21	LG	- [With 2.0L turbo gasoline engine]

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	L	-
3	L	-
4	L	-
5	L	-
6	L	-
7	Y	-
8	Y	-
9	Y	-
10	Y	-
11	Y	-
12	Y	-
13	SB	-
14	SB	-
15	SB	-
16	SB	-
17	SB	-
18	SB	-
19	LG	-
20	LG	-
21	LG	-
22	LG	-
23	LG	-
24	LG	-

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WT

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

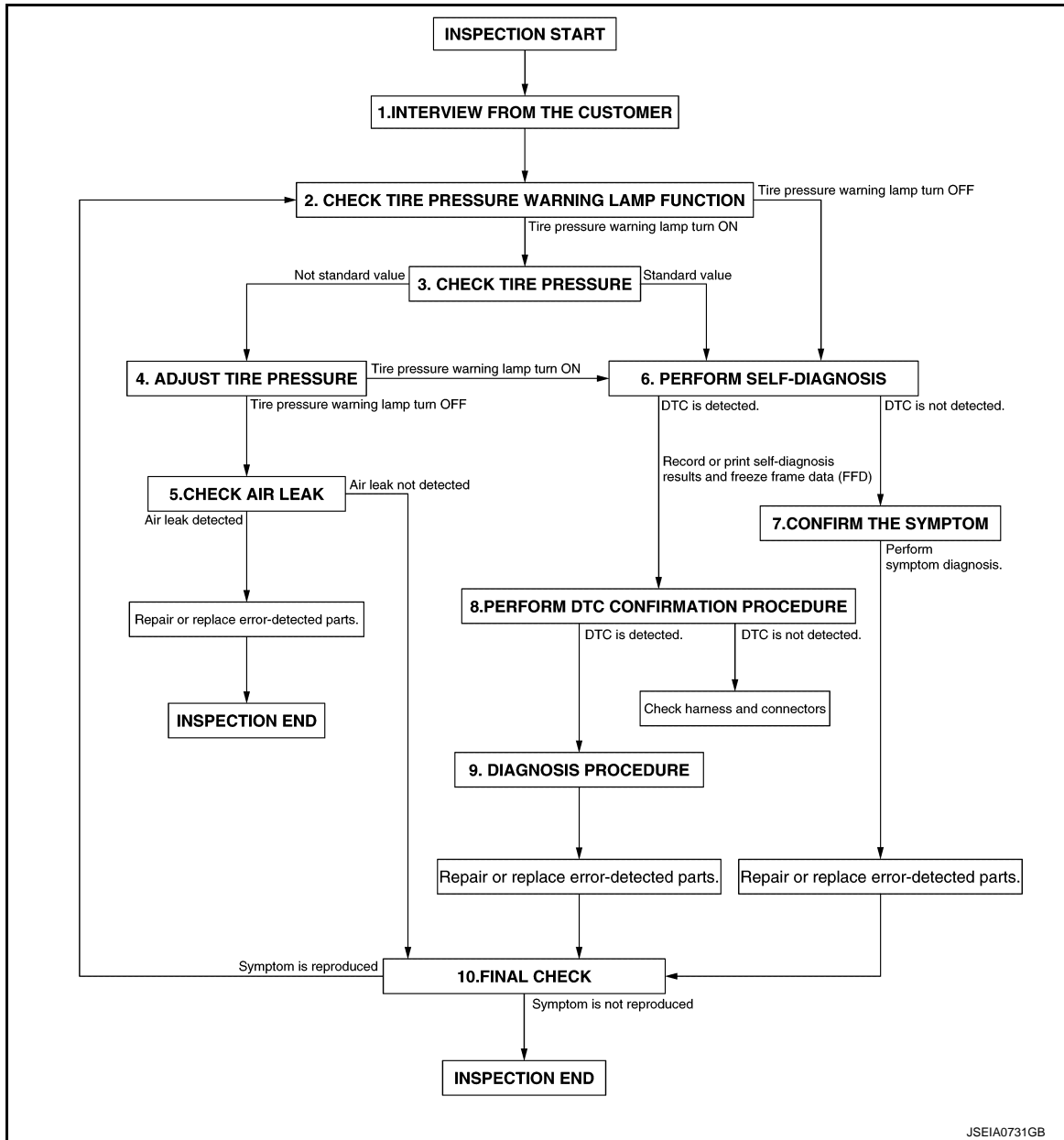
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000012797108

OVERALL SEQUENCE



DETAILED FLOW

1. INTERVIEW FROM THE CUSTOMER

Clarify customer complaints before inspection. To do so, reproduce the symptom before hand and fully understand it. Then interview the customer thoroughly. Check the symptoms by driving vehicle with the customer, if necessary.

CAUTION:

Customers are not professional. Never guess easily like “maybe the customer means that...,” or “maybe the customer mentions this symptom”.

>> GO TO 2.

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

2. CHECK TIRE PRESSURE WARNING LAMP FUNCTION

Check that tire pressure warning lamp in combination meter.

Tire pressure warning lamp turn ON?

YES >> GO TO 3.

NO >> GO TO 6.

3. CHECK TIRE PRESSURE

Check the tire pressure of all wheels. Refer to [WT-82, "Tire Air Pressure"](#).

NOTE:

Check the tire pressure of cold condition.

Is the inspection standard value?

YES >> GO TO 6.

NO >> GO TO 4.

4. ADJUST TIRE PRESSURE

1. Check and adjust the tire pressure for all wheels specified to the value. Refer to [WT-82, "Tire Air Pressure"](#).

2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.

Tire pressure warning lamp turn OFF?

YES >> GO TO 5.

NO >> GO TO 6.

5. CHECK AIR LEAK

Using soapsuds etc., check air leak.

NOTE:

Check air valve.

Is air leak detected?

YES >> Repair or replace error-detected parts. Replace the grommet seal. Perform tire pressure sensor ID registration. Refer to [WT-40, "Description"](#).

NO >> INSPECTION END

6. PERFORM SELF-DIAGNOSIS

 With CONSULT

Perform self-diagnosis for "AIR PRESSURE MONITOR".

Is DTC detected?

YES >> Record or print self-diagnosis results and freeze frame data (FFD). GO TO 8.

NO >> GO TO 7.

7. CONFIRM THE SYMPTOM

Perform symptom diagnosis. refer to [WT-62, "Symptom Table"](#).

>> Repair or replace error-detected parts. GO TO 10.

8. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again.

Is DTC detected?

YES >> GO TO 9.

NO >> Check harness and connectors based on the information obtained by interview. Refer to [GI-45, "Intermittent Incident"](#).

9. DIAGNOSIS PROCEDURE

Perform DTC Diagnosis Procedure.

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

>> Repair or replace error-detected parts. GO TO 10.

10.FINAL CHECK

Recheck the symptom and check that the symptom is not reproduced on the same conditions.

Is the symptom reproduced?

YES >> GO TO 2.

NO >> INSTPECTION END

TIRE PRESSURE SENSOR WAKE UP OPERATION

< BASIC INSPECTION >

TIRE PRESSURE SENSOR WAKE UP OPERATION

Description

INFOID:000000012797109

When replacing tire pressure sensor, always tire pressure sensor wake-up is required. Refer to [WT-39, "Work Procedure"](#).

Work Procedure

INFOID:000000012797110

1. TIRE PRESSURE SENSOR WAKE-UP PROCEDURE

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

NOTE:

- The position of an inactive tire pressure sensor can be identified by checking the blinking timing of the low tire pressure warning lamp.
- 1 minute later, low tire pressure warning lamp turns ON.

Low tire pressure warning lamp blinking timing		Activation tire position
ON OFF		Front LH
ON OFF		Front RH
ON OFF		Rear RH
ON OFF		Rear LH
ON OFF		All tires

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2. Contact the tire pressure sensor activation tool (J-50190 or J-45295-A) ① to the side of the tire at the location to the tire pressure sensor.
3. Press and hold the tire pressure sensor activation tool button while pushing the tool to the tire surface. (approximately for 5 seconds)

CAUTION:

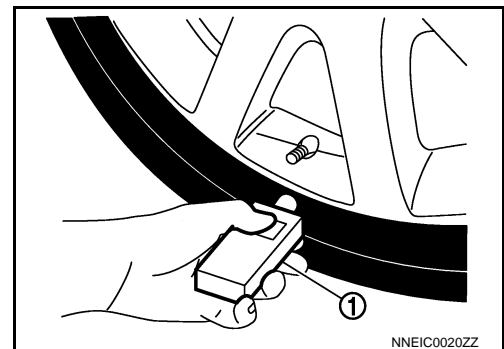
Perform the wake-up procedure starting from the vehicle front left wheel, then repeat the procedure in the order of the front right wheel, rear right wheel, and rear left wheel.

4. Check that the turn signal lamps blink twice when the tire pressure sensor wake-up procedure for all wheels is completed.
5. Check that the low tire pressure warning lamp turns OFF, after the tire pressure sensor wake-up procedure is completed for all wheels and turns OFF.

Is the tire pressure sensor wake-up procedure completed?

YES >> Perform the tire pressure sensor ID registration procedure. Refer to [WT-40, "Description"](#).

NO >> Perform trouble diagnosis for the tire pressure sensor. Refer to [WT-46, "Diagnosis Procedure"](#).



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TIRE PRESSURE SENSOR ID REGISTRATION

< BASIC INSPECTION >

TIRE PRESSURE SENSOR ID REGISTRATION

Description

INFOID:000000012797111

This procedure must be performed. Refer to [WT-40, "Work Procedure"](#).

- after replacement of a tire pressure sensor or BCM.

Work Procedure

INFOID:000000012797112

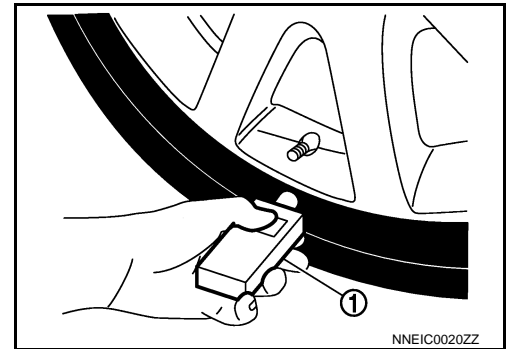
TPMS ID registration can be performed using one of the following procedures:

- Tire pressure sensor Activation tool (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

TPMS REGISTRATION WITH TIRE PRESSURE SENSOR ACTIVATION TOOL (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 tire pressure sensor activation tool (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 tire pressure sensor 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.

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

NOTE:

The Signal Tech II must be updated with software version 1.1.48 or newer 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.

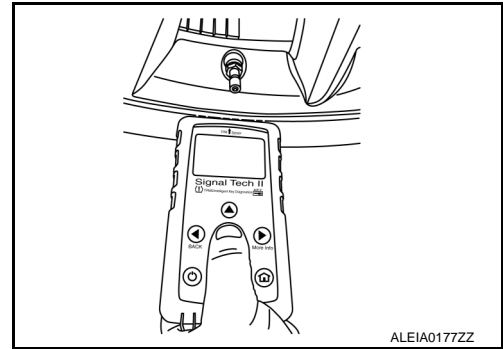
With CONSULT

1. Adjust the tire pressure for all tires to the recommended value. Refer to [WT-82, "Tire Air Pressure"](#).
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).

TIRE PRESSURE SENSOR 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.

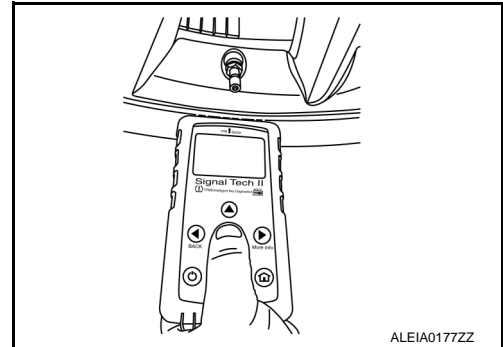


Sequence	ID registration position	Turn signal lamp	CONSULT
1	Front LH	2 blinks	"Yet (red)" ↓ "Done (green)"
2	Front RH		
3	Rear RH		
4	Rear LH		

10. Once all sensors have been activated, select "End" on the CONSULT to finish ID registration.

⊗ Without CONSULT

1. Adjust the tire pressure for all tires to the recommended value. Refer to [WT-82, "Tire Air Pressure"](#).
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 TPMS, 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 TPMS
 - 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. Print a Signal Tech II Audit Report for your records. Refer to the Signal Tech II User Guide for instructions.



CONFIGURATION (TIRE PRESSURE MONITORING SYSTEM)

< BASIC INSPECTION >

CONFIGURATION (TIRE PRESSURE MONITORING SYSTEM)

Work Procedure (Before Replacement)

INFOID:000000012797113

CAUTION:

- If BCM is replaced, perform “ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT” after the replacement. For details, refer to [BCS-81, "Work Procedure"](#).
- Use “Manual Configuration” only when “TYPE ID” of BCM cannot be read.
- After configuration, perform the following:
 - Turn the ignition switch from OFF to ON and check that the low tire pressure warning lamp turns OFF after staying illuminated for approximately two seconds.
- If an error occurs during configuration, start over from the beginning.

1. CHECKING BCM TYPE ID

1. Use FAST (service parts catalogue) to search BCM of the applicable vehicle and find “Type ID”.
2. Print out “Type ID”.

>> GO TO 2.

2. CHECKING AIR PRESSURE MONITOR TYPE ID

ⓂCONSULT Configuration

1. Select “AIR PRESSURE MONITOR”.
2. Select “Before Replace ECU” of “Read/Write Configuration”.
3. Check if “Type ID” of air pressure monitor is displayed on the CONSULT screen.

Is “Type ID” displayed?

YES >> GO TO 3.

NO >> Replace BCM. Perform steps starting with “REPLACE BCM” described in [BCS-81, "Work Procedure"](#).

3. CHECKING AIR PRESSURE MONITOR TYPE ID AND BCM TYPE ID

ⓂCONSULT Configuration

Compare air pressure monitor “Type ID” displayed on the CONSULT screen with BCM “Type ID” searched for by using FAST (service parts catalogue), and check that these IDs match.

NOTE:

For the “Type ID” searched by using FAST (service parts catalog), use the last five digits of the “Type ID”.

>> GO TO 4.

4. SAVING AIR PRESSURE MONITOR TYPE ID

ⓂCONSULT Configuration

Save “Type ID” of air pressure monitor on CONSULT.

>> Replace BCM. Perform steps starting with “REPLACE BCM” described in [BCS-81, "Work Procedure"](#).

Work Procedure (After Replacement)

INFOID:000000012797114

CAUTION:

- Use “Manual Configuration” only when “Type ID” of CAN gateway cannot be read.
- If an error occurs during configuration, start over from the beginning.

1. CHECKING AIR PRESSURE MONITOR TYPE ID

Check if “Type ID” of air pressure monitor is saved on CONSULT.

Is “TYPE ID” saved on CONSULT?

YES >> GO TO 2.

NO >> GO TO 3.

2. WRITING TYPE ID OF AIR PRESSURE MONITOR (AUTOMATIC WRITING)

CONFIGURATION (TIRE PRESSURE MONITORING SYSTEM)

< BASIC INSPECTION >

④CONSULT Configuration

1. Select "After Replace ECU" of "Re/programming, Configuration" or that of "Read / Write Configuration".
2. Compare "Type ID" displayed on the CONSULT screen with BCM "Type ID" searched for by using FAST (service parts catalogue), and write matching "Type ID" on BCM.

NOTE:

For the "Type ID" searched by using FAST (service parts catalog), use the last five digits of the "Type ID".

>> GO TO 4.

3.WRITING TYPE ID OF AIR PRESSURE MONITOR (MANUAL WRITING)

④CONSULT Configuration

1. Select "Manual Configuration".
2. Select "Type ID" searched for by using FAST (service parts catalogue) and write the ID on BCM.

NOTE:

For the "Type ID" searched by using FAST (service parts catalog), use the last five digits of the "Type ID".

>> GO TO 4.

4.CHECKING AIR PRESSURE MONITOR TYPE ID AND BCM TYPE ID

Compare the air pressure monitor "Type ID" displayed on the CONSULT screen with BCM "Type" ID searched for by using FAST (service parts catalogue), and check that these IDs match.

NOTE:

For the "Type ID" searched by using FAST (service parts catalog), use the last five digits of the "Type ID".

>> GO TO 5.

5.PERFORM TIRE PRESSURE SENSOR ID REGISTRATION

Perform the tire pressure sensor ID registration. Refer to [WT-40. "Description"](#).

>> GO TO 6.

6.PERFORM SUPPLEMENTARY WORK

1. Perform the tire air pressure. Refer to [WT-82. "Tire Air Pressure"](#).
2. Perform the self-diagnosis of all systems.
3. Erase self-diagnosis results.

>> End of work.

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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 Description

INFOID:000000012797115

DTC DETECTION LOGIC

DTC No.	CONSULT screen item (Trouble diagnosis content)	DTC Detection Condition
C1704	LOW PRESSURE FL (Low tire pressure front left)	Front LH tire pressure drops to 189.6 kPa (1.9 kgf/cm ² , 27 psi) or less.
C1705	LOW PRESSURE FR (Low tire pressure front right)	Front RH tire pressure drops to 189.6 kPa (1.9 kgf/cm ² , 27 psi) or less.
C1706	LOW PRESSURE RR (Low tire pressure rear right)	Rear RH tire pressure drops to 189.6 kPa (1.9 kgf/cm ² , 27 psi) or less.
C1707	LOW PRESSURE RL (Low tire pressure rear left)	Rear LH tire pressure drops to 189.6 kPa (1.9 kgf/cm ² , 27 psi) or less.

POSSIBLE CAUSE

- Low tire pressure (natural air leak)
- Air leak because of wheel change

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

2. Check tire pressure for all wheels and adjust to the specified value. Refer to [WT-82, "Tire Air Pressure"](#).
3. Perform self-diagnosis for "AIR PRESSURE MONITOR".
4. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.

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

YES >> Proceed to [WT-44, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000012797116

1. TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to [WT-40, "Description"](#).

Can the tire pressure sensor ID registration be completed?

YES >> GO TO 2.

NO >> Replace applicable tire pressure sensor. Refer to [WT-78, "Removal and Installation"](#).

2. CHECK TIRE PRESSURE

Check the tire pressure of all wheels. Refer to [WT-82, "Tire Air Pressure"](#).

CAUTION:

If the checked value is close to the standard, reduce the tire pressure, and then with the ignition switch ON, adjust the tire pressure again so that it is within the standard.

Is the inspection result normal?

YES >> Perform DTC CONFIRMATION PROCEDURE again. Refer to [WT-44, "DTC Description"](#).

NO >> GO TO 3.

3. CHECK TIRE PRESSURE SIGNAL

With CONSULT

1. Adjust tire pressure for all wheels to the specified value. Refer to [WT-82, "Tire Air Pressure"](#).

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

NOTE:

If tire pressure before adjustment is close to the specified value, then reduce tire pressure first and readjust it to the specified value with the ignition switch ON.

2. Select "DATA MONITOR" from "AIR PRESSURE MONITOR".
3. Check that the tire pressures match the specified value.

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

Is the inspection result normal?

- YES >> After erasing DTC record, INSPECTION END.
NO >> Repair or replace error-detected parts.

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WT

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

DTC Description

INFOID:000000012797117

DTC DETECTION LOGIC

DTC No.	CONSULT screen item (Trouble diagnosis content)	DTC Detection Condition
C1708	[NO - DATA] - FL (No data front left)	Tire pressure data signal from the front LH wheel tire pressure sensor cannot be detected.
C1709	[NO - DATA] - FR (No data front right)	Tire pressure data signal from the front RH wheel tire pressure sensor cannot be detected.
C1710	[NO - DATA] - RR (No data rear right)	Tire pressure data signal from the rear RH wheel tire pressure sensor cannot be detected.
C1711	[NO - DATA] - RL (No data rear left)	Tire pressure data signal from the rear LH wheel tire pressure sensor cannot be detected.

POSSIBLE CAUSE

- Driving in area with radio interference.
- Tire pressure sensor ID registration incomplete
- Tire pressure sensor
- Harness or connectors
- Remote keyless entry receiver
- BCM

DTC CONFIRMATION PROCEDURE

1. TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to [WT-40, "Description"](#).

>> GO TO 2.

2. PERFORM DTC CONFIRMATION

With CONSULT

1. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.

NOTE:

Avoid driving in areas with radio interference.

2. Stop the vehicle.
3. Perform self-diagnosis for "AIR PRESSURE MONITOR".

Is DTC "C1708", "C1709", "C1710", or "C1711" detected?

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

NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000012797118

1. CHECK REMOTE KEYLESS ENTRY RECEIVER (TIRE PRESSURE RECEIVER) POWER CIRCUIT

1. Turn the ignition switch OFF.
2. Check 5 A fuse (#17).
3. Disconnect fuse block (J/B) harness connector.
4. Check continuity between remote keyless entry receiver (tire pressure receiver) harness connector and fuse block (J/B) harness connector.

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Remote keyless entry receiver (Tire pressure receiver)		Fuse block (J/B)		Continuity
Connector	Terminal	Connector	Terminal	
M113	1	M133	29C	Existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connectors.

2. CHECK REMOTE KEYLESS ENTRY RECEIVER (TIRE PRESSURE RECEIVER) CIRCUIT

1. Disconnect BCM harness connector and remote keyless entry receiver (tire pressure receiver) harness connector.
2. Check the continuity between BCM harness connector and remote keyless entry receiver (tire pressure receiver) harness connector.

BCM		Remote keyless entry receiver (tire pressure receiver)		Continuity
Connector	Terminal	Connector	Terminal	
M13	17	M113	3	Existed
M16	119		2	

3. Check the continuity between BCM harness connector and ground.

BCM		—	Continuity
Connector	Terminal		
M13	17	Ground	Not existed
M16	119		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace error-detected parts.

3. TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to [WT-40, "Description"](#).

Can the tire pressure sensor ID registration be completed?

YES >> GO TO 4.

NO >> Replace applicable tire pressure sensor. Refer to [WT-78, "Removal and Installation"](#).

4. RECHECK TIRE PRESSURE SIGNAL

 **With CONSULT**

1. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.

NOTE:

Avoid driving in areas with radio interference.

2. Stop the vehicle.
3. Select "DATA MONITOR" from "AIR PRESSURE MONITOR".
4. Check that the air pressures match the specified value.

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 >> After erasing DTC record, INSPECTION END.

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace BCM. Refer to [BCS-99. "Removal and Installation"](#).

C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

DTC Description

INFOID:000000012797119

DTC DETECTION LOGIC

DTC No.	CONSULT screen item (Trouble diagnosis content)	DTC Detection Condition
C1716	[PRESSDATA ERR] FL (Pressure data error front left)	Malfunction in the tire pressure data from the front LH wheel tire pressure sensor.
C1717	[PRESSDATA ERR] FR (Pressure data error front right)	Malfunction in the tire pressure data from the front RH wheel tire pressure sensor.
C1718	[PRESSDATA ERR] RR (Pressure data error rear right)	Malfunction in the tire pressure data from the rear RH wheel tire pressure sensor.
C1719	[PRESSDATA ERR] RL (Pressure data error rear left)	Malfunction in the tire pressure data from the rear LH wheel tire pressure sensor.

POSSIBLE CAUSE

- Excessive tire pressure
- Tire pressure sensor
- BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

2. Check tire pressure for all wheels and adjust to the specified value. Refer to [WT-82, "Tire Air Pressure"](#).
3. Perform self-diagnosis for "AIR PRESSURE MONITOR".

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

YES >> Proceed to [WT-49, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000012797120

1. TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to [WT-40, "Description"](#).

Can the tire pressure sensor ID registration be completed?

YES >> GO TO 2.

NO >> Replace applicable tire pressure sensor. Refer to [WT-78, "Removal and Installation"](#).

2. CHECK TIRE PRESSURE SIGNAL

With CONSULT

1. Adjust tire pressure for all wheels to the specified value. Refer to [WT-82, "Tire Air Pressure"](#).
2. Select "DATA MONITOR" from "AIR PRESSURE MONITOR".
3. Check the values that are displayed for "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR", and "AIR PRESS RL".

Which tire pressures is displayed as 438.60 kPa (4.47 kgf/cm², 63.60 psi)?

YES >> Replace tire pressure sensor the tire pressure as 438.60 kPa (4.47 kgf/cm², 63.60 psi) displayed. Refer to [WT-78, "Removal and Installation"](#).

NO >> Perform "DTC CONFIRMATION PROCEDURE" (self-diagnosis) again. Refer to [WT-49, "DTC Description"](#).

C1729 VEHICLE SPEED SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

C1729 VEHICLE SPEED SIGNAL

DTC Description

INFOID:000000012797121

DTC DETECTION LOGIC

DTC No.	CONSULT screen item (Trouble diagnosis content)	DTC Detection Condition
C1729	VHCL SPEED SIG ERR (Vehicle speed signal error)	Vehicle speed signal not detected.

POSSIBLE CAUSE

- CAN communication
- ABS actuator and electric unit (control unit) malfunction
- BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

1. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.
2. Stop the vehicle.
3. Perform self-diagnosis for "AIR PRESSURE MONITOR".

Is DTC "C1729" detected?

- YES >> Proceed to [WT-50, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000012797122

1. PERFORM ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF-DIAGNOSIS

With CONSULT

Perform self-diagnosis for "ABS".

Are any DTCs detected?

- YES >> Check the DTC. Refer to [BRC-72, "DTC Index"](#).
- NO >> GO TO 2.

2. CHECK BCM INPUT/OUTPUT SIGNAL

Check BCM input/output signal values. Refer to [BCS-36, "Reference Value"](#).

Is the inspection result normal?

- YES >> Check pin terminal and connection of each harness connector for malfunctioning conditions.
- NO >> Replace the BCM. Refer to [BCS-99, "Removal and Installation"](#).

C1730, C1731, C1732, C1733 FLAT TIRE

< DTC/CIRCUIT DIAGNOSIS >

C1730, C1731, C1732, C1733 FLAT TIRE

DTC Description

INFOID:000000012797123

If the tire pressure drops below the specified value, the tire pressure monitoring control unit judges that a flat tire occurs and displays a message on the information display.

DTC DETECTION LOGIC

DTC No.	CONSULT screen item (Trouble diagnosis content)	DTC Detection Condition
C1730	FLAT TIRE FL	Front left wheel pressure is 70 kPa (0.7 kgf/cm ² , 10 psi) or less
C1731	FLAT TIRE FR	Front right wheel pressure is 70 kPa (0.7 kgf/cm ² , 10 psi) or less
C1732	FLAT TIRE RR	Rear right wheel pressure is 70 kPa (0.7 kgf/cm ² , 10 psi) or less
C1733	FLAT TIRE RL	Rear left wheel pressure is 70 kPa (0.7 kgf/cm ² , 10 psi) or less

POSSIBLE CAUSE

Low tire pressure

DTC REPRODUCTION PROCEDURE

1. CHECK DTC DETECTION

Ⓜ With CONSULT

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-82, "Tire Air Pressure"](#).
3. Perform self-diagnosis of the low tire pressure warning control unit.

Is DTC "C1730", "C1731", "C1732", or "C1733" detected?

YES >> Perform trouble diagnosis. Refer to [WT-51, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000012797124

1. CHECK TIRE PRESSURE

Check the for pressure of all wheels. Refer to [WT-82, "Tire Air Pressure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> After adjusting the tire pressure, GO TO 3.

2. TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to [WT-40, "Description"](#).

Is tire pressure sensor ID registration completed?

YES >> Perform "DTC REPRODUCTION PROCEDURE" (self-diagnosis) again. Refer to [WT-51, "DTC Description"](#).

NO >> Refer to [WT-39, "Description"](#).

3. ADJUST TIRE PRESSURE

Check and adjust the tire pressure for all wheels specified to the value. Refer to [WT-82, "Tire Air Pressure"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Check or replace the road wheels and tires, and adjust the tire pressures.

4. CHECK TIRE PRESSURE SIGNAL

Ⓜ With CONSULT

C1730, C1731, C1732, C1733 FLAT TIRE

< DTC/CIRCUIT DIAGNOSIS >

1. Select "DATA MONITOR" to display the tire pressure for all wheels.
2. Check that the tire pressure is the specified value.

Check items	Condition
AIR PRESS FL	Approximately equal to the indication on tire gauge value for each tires.
AIR PRESS FR	
AIR PRESS RR	
AIR PRESS RL	

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair or replace error-detected part.

C1734 CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

C1734 CONTROL UNIT

DTC Description

INFOID:0000000012797125

DTC DETECTION LOGIC

DTC No.	CONSULT screen item (Trouble diagnosis content)	DTC Detection Condition
C1734	CONTROL UNIT (Control unit)	TPMS malfunction in BCM.

POSSIBLE CAUSE

BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

Perform self-diagnosis for "AIR PRESSURE MONITOR".

Is DTC "C1734" detected?

YES >> Proceed to [WT-53, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000012797126

1. CHECK BCM HARNESS CONNECTORS

Check BCM harness connectors for damage or loose connections.

Is the inspection result normal?

YES >> Repair or replace connectors.

NO >> GO TO 2.

2. CHECK BCM POWER SUPPLY AND GROUND

Check BCM power supply and ground. Refer to [BCS-92, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK REMOTE KEYLESS ENTRY RECEIVER (TIRE PRESSURE RECEIVER) POWER CIRCUIT

1. Turn the ignition switch OFF.
2. Check 5 A fuse (#17).
3. Disconnect fuse block (J/B) harness connector.
4. Check continuity between remote keyless entry receiver (tire pressure receiver) harness connector and fuse block (J/B) harness connector.

Remote keyless entry receiver (Tire pressure receiver)		Fuse block (J/B)		Continuity
Connector	Terminal	Connector	Terminal	
M113	1	M133	29C	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connectors.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER (TIRE PRESSURE RECEIVER) CIRCUIT

1. Disconnect BCM harness connector and remote keyless entry receiver (tire pressure receiver) harness connector.

C1734 CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

2. Check the continuity between BCM harness connector and remote keyless entry receiver (tire pressure receiver) harness connector.

BCM		Remote keyless entry receiver (tire pressure receiver)		Continuity
Connector	Terminal	Connector	Terminal	
M13	17	M113	3	Existed
M16	119		2	

3. Check the continuity between BCM harness connector and ground.

BCM		—	Continuity
Connector	Terminal		
M13	17	Ground	Not existed
M16	119		

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace error-detected parts.

5. CHECK BCM INPUT/OUTPUT SIGNALS

Check BCM input/output signals. Refer to [BCS-36. "Reference Value"](#).

Is the inspection result normal?

YES >> After erasing DTC record, INSPECTION END.

NO >> Replace BCM. Refer to [BCS-99. "Removal and Installation"](#).

C1735 IGNITION SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

C1735 IGNITION SIGNAL

DTC Description

INFOID:000000012797127

DTC DETECTION LOGIC

DTC No.	CONSULT screen item (Trouble diagnosis content)	DTC Detection Condition
C1735	IGN LINE (Ignition line)	BCM has detected a mismatch between IGN ON signals.

POSSIBLE CAUSE

BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

Perform self-diagnosis in "AIR PRESSURE MONITOR".

Is DTC "C1735" detected?

YES >> Proceed to [WT-55, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000012797128

1. PERFORM BCM SELF-DIAGNOSIS

Perform self-diagnosis for "BCM".

Is any DTCs detection?

YES >> Check the DTCs. Refer to [BCS-63, "DTC Index"](#).

NO >> INSPECTION END

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C1761, C1762, C1763, C1764 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

C1761, C1762, C1763, C1764 TIRE PRESSURE SENSOR

DTC Description

INFOID:000000012797129

DTC DETECTION LOGIC

DTC No.	CONSULT screen item (Trouble diagnosis content)	DTC Detection Condition
C1761	TEMPERATURE DATA FL (Temperature data front left)	Malfunction in the tire temperature data from the front LH wheel tire pressure sensor.
C1762	TEMPERATURE DATA FR (Temperature data front right)	Malfunction in the tire temperature data from the front RH wheel tire pressure sensor.
C1763	TEMPERATURE DATA RR (Temperature data rear right)	Malfunction in the tire temperature data from the rear RH wheel tire pressure sensor.
C1764	TEMPERATURE DATA RL (Temperature data rear left)	Malfunction in the tire temperature data from the rear LH wheel tire pressure sensor.

POSSIBLE CAUSE

- Tire pressure sensor
- BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

Perform self-diagnosis in "AIR PRESSURE MONITOR".

Is DTC "C1761", "C1762", "C1763", or "C1764" detected?

YES >> Proceed to [WT-56, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000012797130

1. PERFORM BCM SELF-DIAGNOSIS

1. Replace tire pressure sensor. Refer to [WT-78, "Removal and Installation"](#).

2. Perform self-diagnosis for "BCM".

Is DTC "C1761", "C1762", "C1763", or "C1764" detected?

YES >> Replace BCM. Refer to [BCS-99, "Removal and Installation"](#).

NO >> INSPECTION END

C1769 CONFIGURATION SETTING

< DTC/CIRCUIT DIAGNOSIS >

C1769 CONFIGURATION SETTING

DTC Description

INFOID:000000012797131

DTC DETECTION LOGIC

DTC	CONSULT screen item (Trouble diagnosis content)	DTC Detection Condition
C1769	CONFIG SETTING (Configuration setting)	<ul style="list-style-type: none">Tire pressure monitoring system configuration do not be performed.Receiver ID registration cannot be performed.

POSSIBLE CAUSE

- Configuration is not completed.
- The ID registration is not completed.

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

Perform self-diagnosis in "AIR PRESSURE MONITOR".

Is DTC "C1769" detected?

YES >> Proceed to [WT-57, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000012797132

1. TIRE PRESSURE MONITORING SYSTEM CONFIGURATION

Perform configuration. Refer to [WT-42, "Work Procedure \(Before Replacement\)"](#).

>> GO TO 2.

2. TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to [WT-40, "Description"](#).

Does low tire pressure warning lamp turn OFF?

YES >> INSPECTION END

NO >> Configuration setting tire pressure monitoring system again. Refer to [WT-42, "Work Procedure \(Before Replacement\)"](#).

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C1770, C1771, C1772, C1773 G SENSOR

< DTC/CIRCUIT DIAGNOSIS >

C1770, C1771, C1772, C1773 G SENSOR

DTC Description

INFOID:000000012797133

DTC DETECTION LOGIC

DTC No.	CONSULT screen item (Trouble diagnosis content)	DTC Detection Condition
C1770	G SENSOR FL (G sensor front left)	Malfunction in the G sensor data from front LH wheel sensor.
C1771	G SENSOR FR (G sensor front right)	Malfunction in the G sensor data from front RH wheel sensor.
C1772	G SENSOR RL (G sensor rear right)	Malfunction in the G sensor data from rear LH wheel sensor.
C1773	G SENSOR RR (G sensor rear left)	Malfunction in the G sensor data from rear RH wheel sensor.

NOTE:

The actual malfunction part may differ from the malfunction part which DTC shows if ID registration is not performed after performing tire rotation or tire/road wheel replacement.

POSSIBLE CAUSE

Wheel sensor

DTC CONFIRMATION PROCEDURE

1. PERFORM SELF DIAGNOSTIC RESULT

With CONSULT

Perform self-diagnosis in "AIR PRESSURE MONITOR".

Is DTC "C1770", "C1771", "C1772", or "C1773" detected?

- YES >> Proceed to [WT-58, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000012797134

1. PERFORM BCM SELF-DIAGNOSIS

1. Replace wheel sensor. Refer to [BRC-191, "FRONT WHEEL SENSOR : Removal and Installation"](#) (front wheel sensor), [BRC-192, "REAR WHEEL SENSOR : Removal and Installation"](#) (rear wheel sensor).
2. Perform self-diagnosis for "BCM".

Is DTC "C1770", "C1771", "C1772", or "C1773" detected?

- YES >> Replace the BCM. Refer to [BCS-99, "Removal and Installation"](#).
- NO >> INSPECTION END

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

U1000 CAN COMM CIRCUIT

DTC Description

INFOID:000000012797135

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

DTC DETECTION LOGIC

DTC No.	CONSULT screen item (Trouble diagnosis content)	DTC Detection Condition
U1000	CAN COMM CIRCUIT (CAN communication circuit)	BCM is not communicating CAN communication signal for 2 seconds or more.

POSSIBLE CAUSE

- CAN communication malfunction
- Malfunction of BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION

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-diagnosis for "AIR PRESSURE MONITOR".

Is DTC "U1000" detected?

YES >> Proceed to [WT-59, "Diagnosis Procedure"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000012797137

1. PERFORM SELF-DIAGNOSTIC RESULT

With CONSULT

1. Turn the ignition switch ON and hold it for 2 seconds or more.
2. Check the "Self-Diagnostic Result" of "AIR PRESSURE MONITOR".

Is DTC "U1000" detected?

YES >> Refer to [LAN-41, "Trouble Diagnosis Flow Chart"](#).

NO >> INSPECTION END

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Description

INFOID:000000012797138

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

DTC DETECTION LOGIC

DTC	CONSULT screen item (Trouble diagnosis content)	DTC Detection Condition
U1010	CONTROL UNIT (CAN) [Control unit (CAN)]	Detecting error during the initial diagnosis of CAN controller of BCM.

POSSIBLE CAUSE

Malfunction of BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION

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-diagnosis for "AIR PRESSURE MONITOR".

Is DTC "U1010" detected?

- YES >> Proceed to [WT-60, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-45, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000012797140

1. CHECK BCM

Check BCM harness connector for disconnection or deformation.

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-99, "Removal and Installation"](#).
- NO >> Repair or replace error-detected parts.

LOW TIRE PRESSURE WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP

Component Function Check

INFOID:000000012797141

1.CHECK THE ILLUMINATION OF THE LOW TIRE PRESSURE WARNING LAMP

Check that the low tire pressure warning lamp is turned OFF after illuminating for approximately 1 second, when the ignition switch is turned ON.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Perform trouble diagnosis. Refer to [WT-61. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000012797142

1.POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit. Refer to [BCS-92. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace damaged parts.

2.PERFORM SELF-DIAGNOSIS

 With CONSULT

Perform self-diagnosis for "AIR PRESSURE MONITOR".

Is any DTC detected?

YES >> Check the DTC. Refer to [WT-22. "DTC Index"](#).

NO >> GO TO 3.

3.CHECK LOW TIRE PRESSURE WARNING LAMP SIGNAL

 With CONSULT

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

2. Perform "DATA MONITOR" in "AIR PRESSURE MONITOR".

3. Select "WARNING LAMP" in "DATA MONITOR", and check that the low tire pressure warning lamp is turned OFF after illuminating for approximately 1 second, when the ignition switch is turned ON.

Is the inspection result normal?

YES >> Check the combination meter. Refer to [MWI-120. "COMBINATION METER : Diagnosis Procedure"](#).

NO >> Replace the BCM. Refer to [BCS-99. "Removal and Installation"](#).

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SYMPTOM DIAGNOSIS

TPMS

Symptom Table



INFOID:000000012797143

LOW TIRE PRESSURE WARNING LAMP SYMPTOM CHART

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	Wake-up operation for all tire pressure sensors at wheels is completed.	No system malfunctions
	The low tire pressure warning lamp repeats blinking ON for 2 seconds and OFF for 0.2 seconds. 1 minute later, low tire pressure warning lamp turns ON.	 Blinks:  ON 2 sec > OFF 0.2 sec  Maintains ON 1 minute later JSEIA0805GB	Wake-up operation for all tire pressure sensors at wheels is not completed.	Perform the wake-up operation for all tire pressure sensors at wheels. Refer to WT-39, "Description" .
	The low tire pressure warning lamp blinks once. 1 minute later, low tire pressure warning lamp turns ON.	 Blinks 1 time ON 0.3 sec > OFF 1.0 sec  Maintains ON 1 minute later JSEIA0806GB	The front left tire pressure sensor is not activated.	Perform the wake-up operation for the tire pressure sensor at front left wheel. Refer to WT-39, "Description" .
	The low tire pressure warning lamp repeats blinking twice. 1 minute later, low tire pressure warning lamp turns ON.	  Blinks 2 times ON 0.3 sec > OFF 0.3 sec  Maintains ON 1 minute later JSEIA0807GB	The front right tire pressure sensor is not activated.	Perform the wake-up operation for the tire pressure sensor at front right wheel. Refer to WT-39, "Description" .
	The low tire pressure warning lamp repeats blinking for 3 times. 1 minute later, low tire pressure warning lamp turns ON.	   Blinks 3 times ON 0.3 sec > OFF 0.3 sec  Maintains ON 1 minute later JSEIA0808GB	The rear right tire pressure sensor is not activated.	Perform the wake-up operation for the tire pressure sensor at rear right wheel. Refer to WT-39, "Description" .
	The low tire pressure warning lamp repeats blinking for 4 times. 1 minute later, low tire pressure warning lamp turns ON.	    Blinks 4 times ON 0.3 sec > OFF 0.3 sec  Maintains ON 1 minute later JSEIA0809GB	The rear left tire pressure sensor is not activated.	Perform the wake-up operation for the tire pressure sensor at rear left wheel. Refer to WT-39, "Description" .

TPMS

< SYMPTOM DIAGNOSIS >

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-82, "Tire Air Pressure" .
	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 BCM harness connector is removed.	Check the connection conditions of the BCM harness connector, and repair if necessary.
Hazard warning lamp	The hazard warning lamp does not blink twice when the tire pressure sensor is activated. Or the buzzer does not sound.	—	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 wake-up operation is performed.	Turn the ignition switch ON when performing the tire pressure sensor wake-up operation.
			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 wake-up operation.
			The tire pressure sensor is already waked up.	No procedure.

NOTE:

If tire pressure sensor wake-up operation 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 = Wake-up operation is not completed at the front left wheel and rear right wheel tire pressure sensors.)

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LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

Description

INFOID:000000012797144

The low tire pressure warning lamp does not illuminate when the ignition switch is turned ON.

NOTE:

The low tire pressure warning lamp illuminates for approximately 1 second and then turns OFF when the ignition switch is turned ON. This is to check that no abnormal condition is present in the tire pressure monitoring system.

The lamp bulb may be burnt out or the tire pressure monitoring system may be malfunctioning if the low tire pressure warning lamp does not illuminate when the ignition switch is turned ON.

Diagnosis Procedure

INFOID:000000012797145

1. CHECK LOW TIRE PRESSURE WARNING LAMP SIGNAL

With CONSULT

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

2. Select "ACTIVE TEST" in "AIR PRESSURE MONITOR" of "BCM".
3. Touch "WARNING LAMP" to turn ON the low tire pressure warning lamp.

When "ACTIVE TEST" is performed, does the low tire pressure warning lamp in the combination meter turn ON?

YES >> GO TO 2.

NO >> GO TO 3.

2. CHECK LOW TIRE PRESSURE WARNING LAMP OPERATION

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

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-45, "Intermittent Incident"](#).

NO >> Replace the BCM. Refer to [BCS-99, "Removal and Installation"](#).

3. CHECK COMBINATION METER POWER SUPPLY CIRCUIT

Perform the trouble diagnosis for combination meter power supply circuit. Refer to [MWI-120, "COMBINATION METER : Diagnosis Procedure"](#).

Is the inspection result normal?

YES-1 >> INSPECTION END

NO >> Repair or replace error-detected parts.

LOW TIRE PRESSURE WARNING LAMP STAYS ON

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP STAYS ON

Description

INFOID:000000012797146

The low tire pressure warning lamp does not turn OFF after several seconds is passed after engine starts.

Diagnosis Procedure

INFOID:000000012797147

1. CHECK TIRE PRESSURE

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-82, "Tire Air Pressure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Inspect or repair the tires or wheels.

2. CHECK LOW TIRE PRESSURE WARNING LAMP

Check low tire pressure warning lamp display.

Does not low tire pressure warning lamp turn OFF?

YES >> INSPECTION END

NO >> GO TO 3.

3. CHECK BCM

 **With CONSULT**

Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR".

Is any DTC detected?

YES >> Check the DTC. Refer to [WT-22, "DTC Index"](#).

NO >> GO TO 4.

4. CHECK BCM POWER SUPPLY AND GROUND CIRCUIT

Perform the trouble diagnosis for power supply and ground circuit. Refer to [BCS-92, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Replace the BCM. Refer to [BCS-99, "Removal and Installation"](#).

NO >> Repair or replace error-detected parts.

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LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP BLINKS

Description

INFOID:000000012797148

When the ignition switch is turned ON, the low tire pressure warning lamp blinks. And then 1 minute later, low tire pressure warning lamp turns ON.

NOTE:

The position of an inactive tire pressure sensor can be identified by checking the blinking timing of the low tire pressure warning lamp.

Low tire pressure warning lamp blinking timing		Activation tire position
ON OFF		a : 0.3 sec. b : 1.0 sec. Front LH
ON OFF		a : 0.3 sec. b : 1.0 sec. Front RH
ON OFF		a : 0.3 sec. b : 1.0 sec. Rear RH
ON OFF		a : 0.3 sec. b : 1.0 sec. Rear LH
ON OFF		a : 2 sec. b : 0.2 sec. All tires

JPEIC0089GB

Diagnosis Procedure

INFOID:000000012797149

1. TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to [WT-40. "Description"](#).

Is tire pressure sensor ID registration completed?

YES >> INSPECTION END

NO >> Perform the self-diagnosis for "AIR PRESSURE MONITOR". Refer to [WT-22. "DTC Index"](#).

TIRE INFLATION INDICATOR DOES NOT ACTIVATE

< SYMPTOM DIAGNOSIS >

TIRE INFLATION INDICATOR DOES NOT ACTIVATE

Description

INFOID:000000012797150

The tire inflation indicator does not function while inflating a tire when the A/T shift selector position is in P-range with the ignition switch ON or with the engine started.

NOTE:

- After starting to inflate the tire, it takes a few seconds for the tire inflation indicator to function.
- If there is no response for approximately 15 seconds or more after inflating the tires, cancel the use of the tire inflation indicator function or move the vehicle approximately 1 m (3.2 ft) backward or forward to try again. The air filler pressure may be weak or out of service area.
- For tire inflation indicator, Refer to [WT-12, "Tire Inflation Indicator Function"](#).

Diagnosis Procedure

INFOID:000000012797151

1. LOCATION CHANGE

Move the vehicle to other area and repeat the procedure of the tire inflation indicator function. Refer to [WT-12, "Tire Inflation Indicator Function"](#).

Is the function normal?

- YES >> Normal (the tire inflation indicator may not operate, depending on reception condition.)
NO >> GO TO 2.

2. PERFORM LOW TIRE PRESSURE MONITORING SYSTEM SELF-DIAGNOSIS

With CONSULT

1. Drive for 10 minutes at a speed of 40 km/h (25 MPH) or more.
2. Stop the vehicle.
3. Perform self-diagnosis for "AIR PRESSURE MONITOR".

Is any DTCs detected?

- YES >> Check the DTC. Refer to [WT-22, "DTC Index"](#).
NO >> GO TO 3.

3. CHECK HAZARD WARNING LAMP OPERATION

Check hazard warning lamp operation with hazard switch.

Does the hazard warning lamp blink?

- YES >> GO TO 4.
NO >> Perform trouble diagnosis for the hazard warning lamp. Refer to [WT-62, "Symptom Table"](#).

4. PERFORM TCM SELF-DIAGNOSIS

With CONSULT

Perform self-diagnosis for "TRANSMISSION".

Is any DTCs detected?

- YES >> Check the DTC. Refer to [TM-102, "2.0L TURBO GASOLINE ENGINE : DTC Index"](#).
NO >> GO TO 5.

5. CHECK HORN OPERATION

Check horn operation. Refer to [WT-61, "Component Function Check"](#).

Is the operation normal?

- YES >> GO TO 6.
NO >> Repair or replace error-detected parts.

6. PERFORM BCM SELF-DIAGNOSIS

With CONSULT

Perform self-diagnosis for "BCM".

Is any DTCs detected?

- YES >> Check the DTC. Refer to [WT-22, "DTC Index"](#).
NO >> Replace BCM. Refer to [BCS-99, "Removal and Installation"](#).

ID REGISTRATION CANNOT BE COMPLETED

< SYMPTOM DIAGNOSIS >

ID REGISTRATION CANNOT BE COMPLETED

Description

INFOID:000000012797152

The ID of the tire pressure sensor installed in each wheel cannot be registered in the tire pressure monitoring system.

Inspect the tire pressure sensor or the tire pressure monitoring system circuit.

Diagnosis Procedure

INFOID:000000012797153

1. TIRE PRESSURE SENSOR WAKE-UP

Perform the tire pressure sensor wake-up. Refer to [WT-39. "Description"](#).

Is the tire pressure sensor wake-up completed?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK TIRE PRESSURE SENSOR ACTIVATION TOOL

Check tire pressure sensor activation tool.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace the battery of tire pressure sensor activation tool or repair/replace the tire pressure sensor activation tool.

3. TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to [WT-40. "Description"](#).

CAUTION:

To perform ID registration, observe the following points:

- Never register ID in a place where radio waves are interfered (e.g. radio tower).
- Never register ID in a place close to vehicles including TPMS.

Is tire pressure sensor ID registration completed?

YES >> INSPECTION END

NO >> GO TO 4.

4. CHECK TIRE PRESSURE SIGNAL

Change the work location and perform ID registration again.

NOTE:

Depending on the tire pressure sensor position*, a blind spot exists, and the tire pressure receiver gets a poor reception. If an ID registration is performed under this condition, the registration may not be completed. In such case, follow the instructions below to improve the radio wave receiving environment.

- Rotate tire by 90°, 180°, or 270°. (This Step is to change tire pressure sensor position.)
- Open the door close to the tire of which ID registration is ongoing.

*: Radio wave reception condition depends on vehicle architecture (e.g. body harness layout, tire wheel design) or environment.

When ID registration is performed, which wheels do not react?

All wheels react and ID registration is possible.>>INSPECTION END

Only certain wheel(s) do not react.>>Replace applicable tire pressure sensor. Refer to [WT-78. "Removal and Installation"](#).

All wheels do not react.>>Check the tire pressure receiver (remote keyless entry receiver). Refer to [DLK-128. "Diagnosis Procedure"](#).

HAZARD WARNING LAMP REMAINS ON

< SYMPTOM DIAGNOSIS >

HAZARD WARNING LAMP REMAINS ON

Description

INFOID:000000013499232

The hazard warning lamp remains on.

Diagnosis Procedure

INFOID:000000013499233

1. CHECK HAZARD WARNING LAMP OPERATION

Check hazard warning lamp operation with hazard switch.

Is the operation normal?

YES >> Replace the BCM. Refer to [BCS-99, "Removal and Installation"](#).

NO >> Perform trouble diagnosis for the hazard warning lamp. Refer to [EXL-196, "Diagnosis Procedure"](#).

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NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

INFOID:000000012797156

Use 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														
			WT-74	WT-74	WT-71	WT-82	WT-74	—	—	WT-82	NVH in FAX and FSU sections.	NVH in RAX and RSU sections.	Refer to TIRES in this chart.	Refer to ROAD WHEEL in this chart.	NVH in FAX section.	NVH in FAX BR section.	NVH in ST section.
Symptom	TIRES	Noise	x	x	x	x	x	x	x	—	x	x	—	x	x	x	x
		Shake	x	x	x	x	x	x	—	x	x	x	—	x	x	x	x
		Vibration	—	—	—	x	—	—	—	x	x	x	—	—	x	—	x
		Shimmy	x	x	x	x	x	x	x	x	x	x	—	x	—	x	x
		Shudder	x	x	x	x	x	x	—	x	x	x	—	x	—	x	x
		Poor quality ride or handling	x	x	x	x	x	x	—	x	x	—	x	x	—	—	—
	ROAD WHEEL	Noise	x	x	x	—	—	x	—	—	x	x	x	—	x	x	x
		Shake	x	x	x	—	—	x	—	—	x	x	x	—	x	x	x
		Shimmy, Shudder	x	x	x	—	—	x	—	—	x	x	x	—	—	x	x
		Poor quality ride or handling	x	x	x	—	—	x	—	—	x	x	x	—	—	—	—

x: Applicable, —: Not applicable

ROAD WHEEL

< PERIODIC MAINTENANCE >

PERIODIC MAINTENANCE

ROAD WHEEL

Inspection

INFOID:0000000012797157

APPEARANCE

Road Wheel

- Check road wheel for deformation, cracks, corrosion and other damage.
- Check wheel nuts for looseness by using torque wrench.

Wheel nut tightening torque : Refer to [WT-74, "Exploded View"](#).

Tire

- Check entire circumference and both sides of each tire for deformation, cracks, scratch and other damage.
- Check tire tread for wear and foreign matter such as nails and small rock.
- Check that tire pressure is the specified value.

Tire pressure : Refer to [WT-82, "Tire Air Pressure"](#).

Wheel Balance Adjustment (Aluminum Wheel)

INFOID:0000000012797158

PREPARATION BEFORE ADJUSTMENT

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

CAUTION:

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

ADJUSTMENT

- The details of the adjustment procedure are different for each model of wheel balancer. Therefore, refer to each instruction manual.
- If a tire balance machine has adhesion balance weight mode settings and drive-in weight mode setting, select and adjust a drive-in weight mode suitable for aluminum wheels.

1. Set road wheel on tire balance machine using the center hole as a guide. Start the tire balance machine.
2. When inner and outer unbalance values are shown on the tire balance machine indicator, multiply outer unbalance value by 5/3 to determine balance weight that should be used. Select the outer balance weight with a value closest to the calculated value above and install to the designated outer position of, or at the designated angle in relation to the road wheel.

CAUTION:

- **Never install the inner balance weight before installing the outer balance weight.**
- **Before installing the balance weight, always to clean the mating surface of the road wheel.**

- a. Indicated unbalance value $\times 5/3 =$ balance weight to be installed

Calculation example:

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

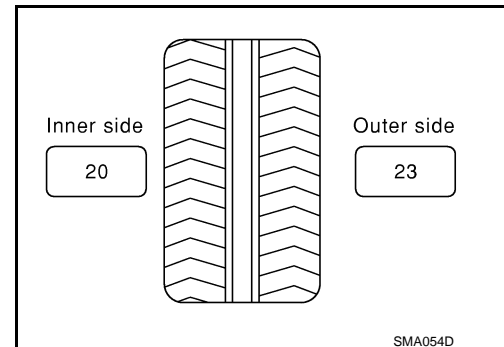
NOTE:

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

Example:

37.4 \Rightarrow 35 g (1.23 oz)

37.5 \Rightarrow 40 g (1.41 oz)



- b. Installed balance weight in the position.

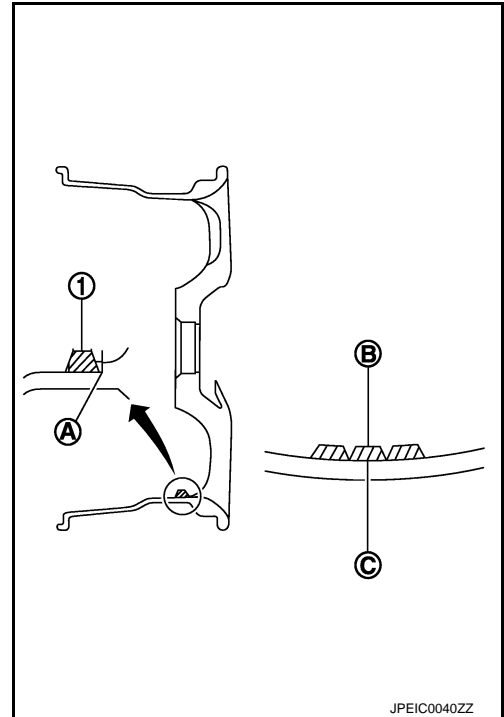
ROAD WHEEL

< PERIODIC MAINTENANCE >

- When installing balance weight ① to road wheels, set it into the grooved area ④ on the inner wall of the road wheel as shown in the figure so that the balance weight center ② is aligned with the tire balance machine indication position (angle) ③.

CAUTION:

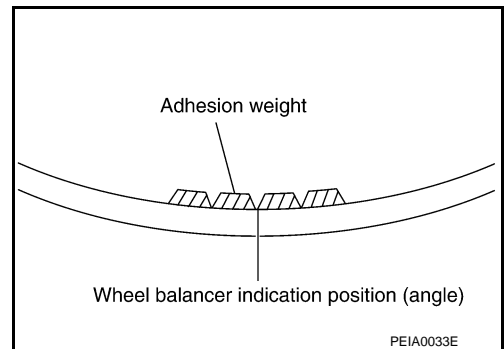
- Always use genuine NISSAN balance weights.
- Balance weights are non-reusable; always replace with new ones.
- Never install three or more sheets of balance weight.



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

CAUTION:

Never install one balance weight sheet on top of another.



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

CAUTION:

Never install three or more balance weight.

5. Start the tire balance machine. Check that the inner and outer residual unbalance value is within the allowable unbalance value.

CAUTION:

If either residual unbalance value exceeds limit, repeat installation procedures.

Allowable unbalance value

Dynamic (At flange) : Refer to [WT-82, "Road Wheel"](#).

Static (At flange) : Refer to [WT-82, "Road Wheel"](#).

Tire Rotation

INFOID:000000012797159

EXCEPT FRONT AND REAR WHEEL SIZE DIFFERENT MODELS

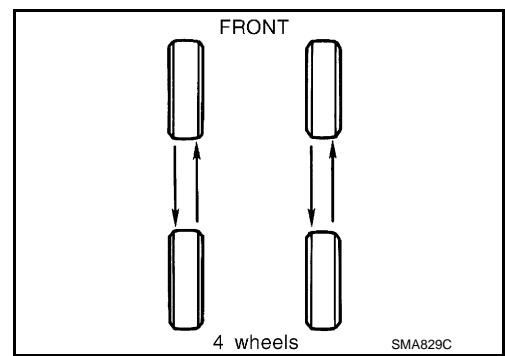
ROAD WHEEL

< PERIODIC MAINTENANCE >

- Follow the maintenance schedule for tire rotation service intervals. Refer to [MA-6, "FOR NORTH AMERICA : Explanation of General Maintenance"](#).
- When installing the wheel, tighten wheel nuts to the specified torque. Refer to [WT-74, "Exploded View"](#).

CAUTION:

- When installing wheels, tighten them diagonally by dividing the work two to three times in order to prevent the wheels from developing any distortion.
 - Be careful not to tighten wheel nut at torque exceeding the criteria.
 - Use NISSAN genuine wheel nut.
- After tire rotation, perform ID registration. Refer to [WT-40, "Description"](#).



FRONT AND REAR WHEEL SIZE DIFFERENT MODELS

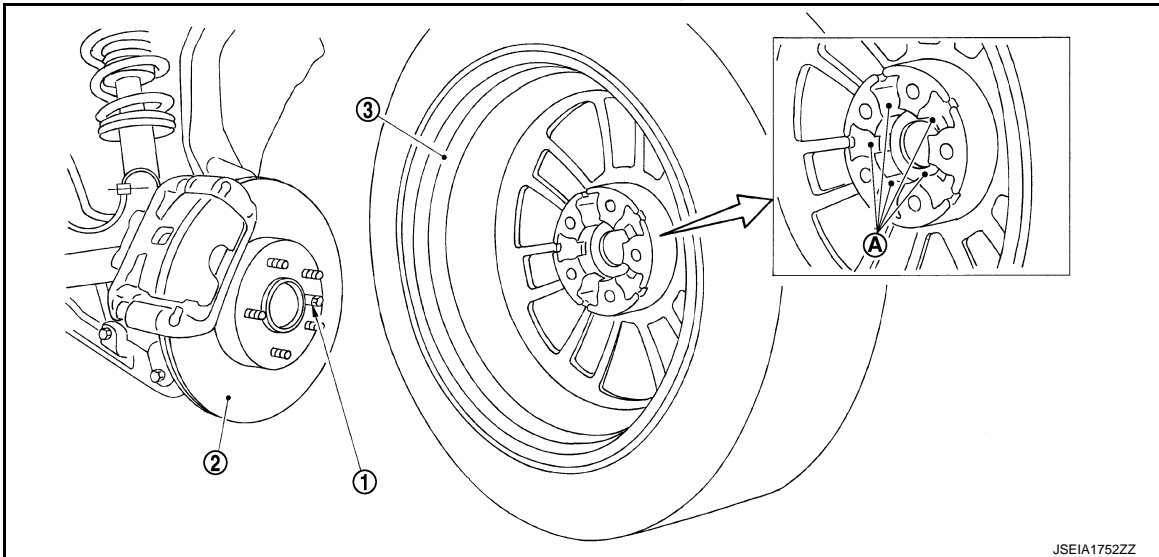
CAUTION:

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

Safety Device Preventing from Being Incorrectly installed

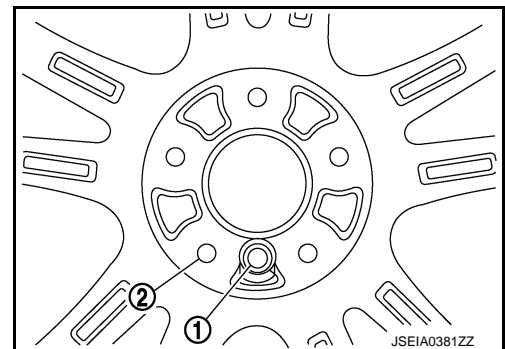
FRONT BRAKE DISC ROTOR AND FRONT WHEEL

- Front and rear wheel size for this model differs, therefore special pin ① is adopted to the front brake disc rotor ②. And a hole ③ that matches to this pin is adopted to the front wheel ③ (the rear wheel does not have this wheel). This structure prevents the rear wheel from being mistakenly installed on the front.



T-TYPE SPARE TIRE WHEEL

- Regarding spare tire (for emergency) wheel, wrong assembly protection pin through hole ① has been set in addition to regular bolt holes ② in order to enable installation to front wheel.



ROAD WHEEL TIRE ASSEMBLY

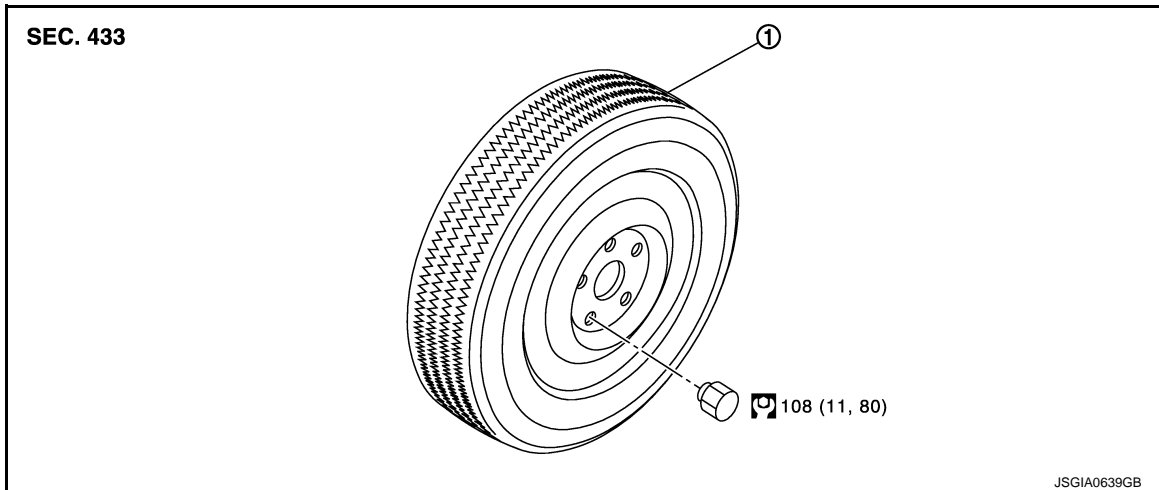
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

ROAD WHEEL TIRE ASSEMBLY

Exploded View

INFOID:000000012797160



① Tire assembly

🔧 : N·m (kg·m, ft·lb)

Removal and Installation

INFOID:000000012797161

CAUTION:

- For the removal and installation of tires equipped with noise absorbing sponge, refer to [WT-6, "Service Notice and Precautions for Tires Equipped with Noise Absorbing Sponge"](#).
- For the identification of tires equipped with noise absorbing sponge, refer to [WT-82, "Tire Air Pressure"](#).

REMOVAL

1. Remove wheel nuts.
2. Remove tire assembly.

INSTALLATION

Note the following, install in the reverse order of removal.

- When replacing or rotating wheels, perform the ID registration. Refer to [WT-40, "Description"](#).
- When replacing wheels, install tire pressure sensor. Refer to [WT-78, "Removal and Installation"](#).

CAUTION:

Never reuse grommet seal.

Inspection

INFOID:000000012797162

ALUMINUM WHEEL

1. Check tires for wear and improper inflation.
2. Check wheels for deformation, cracks and other damage. If deformed, remove wheel and check wheel runout.
 - a. Remove tire from aluminum wheel and mount on a tire balance machine.

ROAD WHEEL TIRE ASSEMBLY

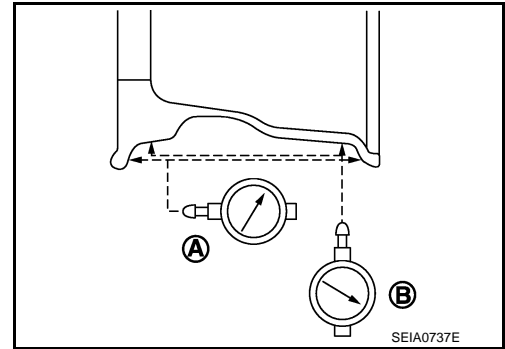
< REMOVAL AND INSTALLATION >

- b. Set dial indicator as shown in the figure.
- c. Check runout, if the axial runout (A) or radial runout (B) exceeds the limit, replace aluminum wheel.

Limit

Axial runout (A) : Refer to [WT-82, "Road Wheel"](#).

Radial runout (B) : Refer to [WT-82, "Road Wheel"](#).



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REMOTE KEYLESS ENTRY RECEIVER (TIRE PRESSURE RECEIVER)

< REMOVAL AND INSTALLATION >

REMOTE KEYLESS ENTRY RECEIVER (TIRE PRESSURE RECEIVER)

Removal and Installation

INFOID:000000012797163

The tire pressure receiver is an integral part of the remote keyless entry receiver. Refer to [DLK-265. "Removal and Installation"](#).

TIRE PRESSURE SENSOR

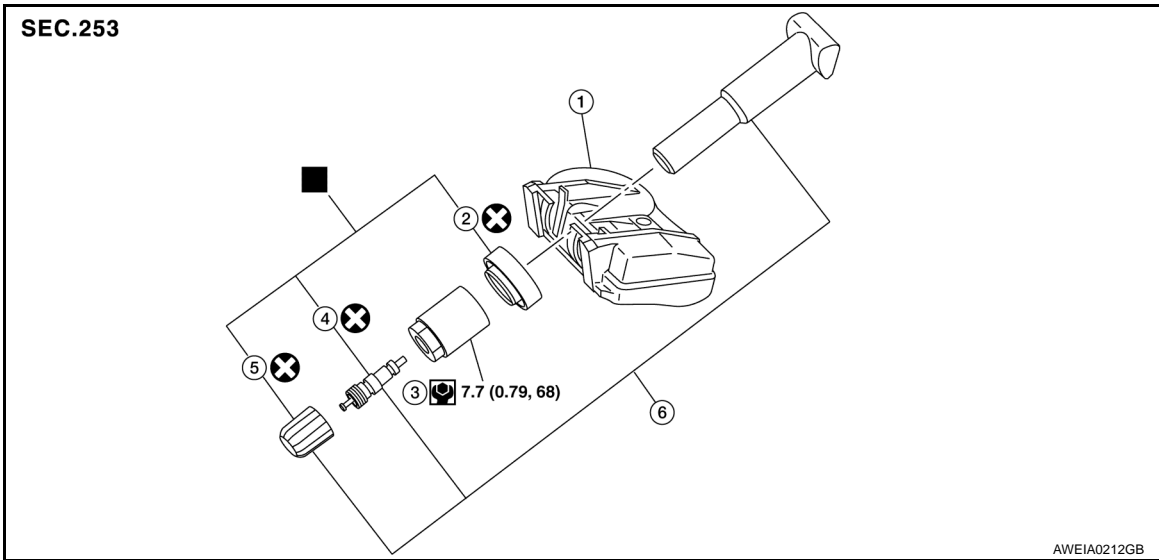
< REMOVAL AND INSTALLATION >

TIRE PRESSURE SENSOR

Exploded View

INFOID:000000012797164

TYPE 1



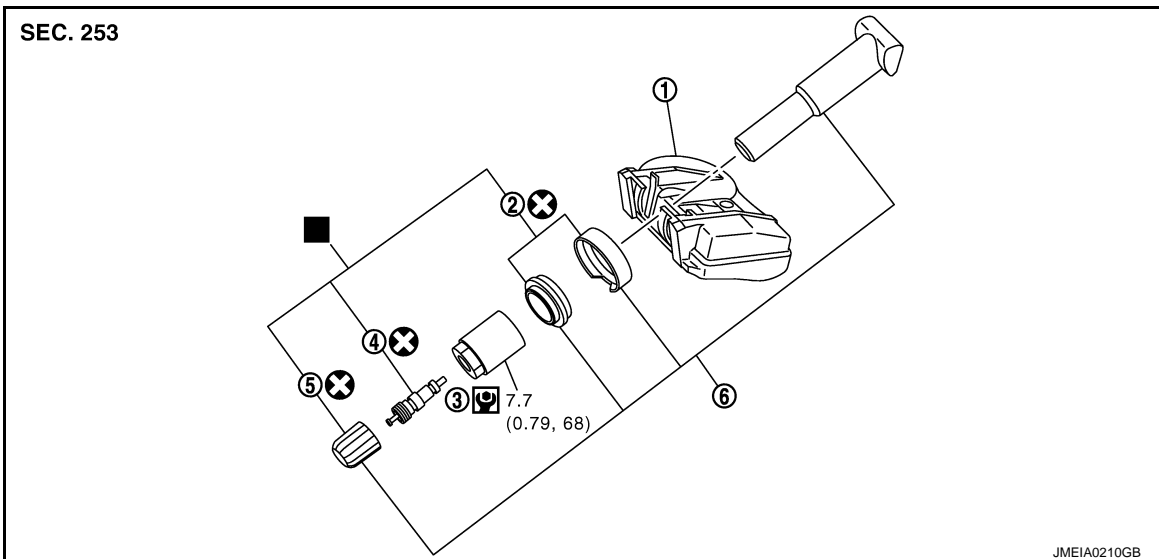
- ① Tire pressure sensor
- ② Washer/Seal
- ③ Valve nut
- ④ Valve core
- ⑤ Valve cap
- ⑥ Valve stem assembly

N-m (kg-m, in-lb)

Always replace after every disassembly.

Parts that are replaced as a set when the tire is replaced.

TYPE 2



- ① Tire pressure sensor
- ② Washer/Seal
- ③ Valve nut
- ④ Valve core
- ⑤ Valve cap
- ⑥ Valve stem assembly

N-m (kg-m, in-lb)

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TIRE PRESSURE SENSOR

< REMOVAL AND INSTALLATION >

⊗: Always replace after every disassembly.

■: Parts that are replaced as a set when the tire is replaced.

Removal and Installation

INFOID:000000012797165

CAUTION:

- For the removal and installation of tires equipped with noise absorbing sponge, refer to [WT-6, "Service Notice and Precautions for Tires Equipped with Noise Absorbing Sponge"](#).
- For the identification of tires equipped with noise absorbing sponge, refer to [WT-82, "Tire Air Pressure"](#).

REMOVAL

1. Remove tire assembly. Refer to [WT-74, "Removal and Installation"](#).
2. Remove valve cap, valve core and then deflate tire.

NOTE:

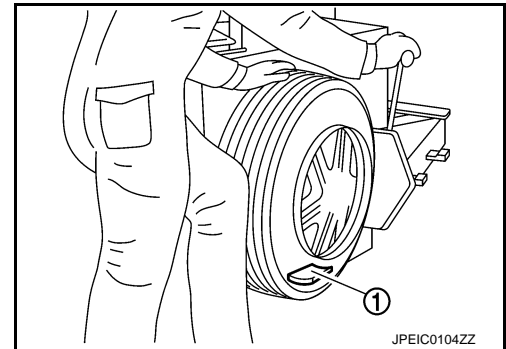
If the tire is reused, apply a matching mark to the position of the tire road wheel valve hole for the purpose of wheel balance adjustment after installation.

3. Remove valve nut retaining tire pressure sensor and allow tire pressure sensor to fall into tire.
4. Use the tire changer and disengage the tire beads.

CAUTION:

- Verify that the tire pressure sensor ① is at the bottom of the tire while performing the above.
- Be sure not to damage the road wheel or tire pressure sensor.

5. Apply bead cream or an equivalent to the tire beads.
6. Set tire onto the tire changer turntable so that the tire pressure sensor inside the tire is located close to the road wheel valve hole.

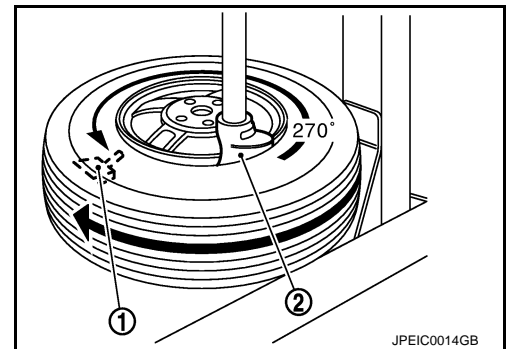


7. Turn tire so that valve hole is at bottom and bounce so that tire pressure sensor ① is near valve hole. Carefully lift tire onto turntable and position valve hole (and tire pressure sensor) 270 degree from mounting/dismounting head ②.

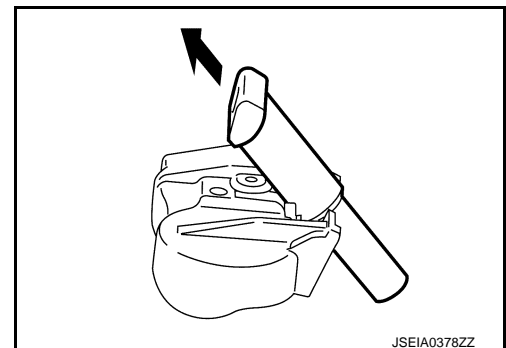
CAUTION:

Be sure not to damage the road wheel and tire pressure sensor.

8. Remove tire pressure sensor from tire.
9. Remove the grommet seal.



10. Remove valve stem in the direction (←).



INSTALLATION

CAUTION:

TIRE PRESSURE SENSOR

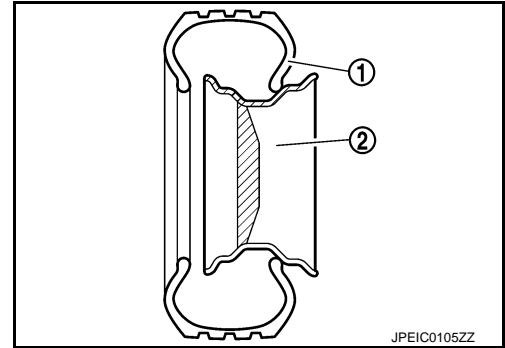
< REMOVAL AND INSTALLATION >

Replace valve stem assembly if the valve stem has deformations, cracks, damage or corrosion.

1. Apply bead cream or an equivalent to the tire beads.
2. Install the tire inside beads ① onto the road wheel ② in the position shown in the figure.
3. Install valve stem to tire pressure sensor.
4. Install grommet seal to the tire pressure sensor assembly.

CAUTION:

- Never reuse grommet seal.
- Insert grommet seal all the way to the base.



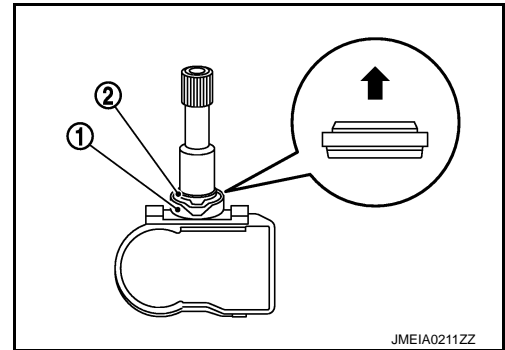
5. Follow the procedure below and install the tire pressure sensor to the road wheel.

- a. When valve stem assembly is replaced.
 - i. Set valve stem in the tire pressure sensor.
 - ii. Install the washer ① in the valve stem, and then install seal ② in the valve stem.(TYPE 2 only)

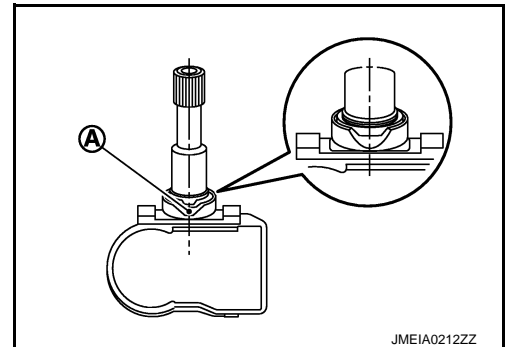
CAUTION:

- Direction of the seal is checked.

← : Upper side



- The cut part ① of washer becomes in the center of valve stem.



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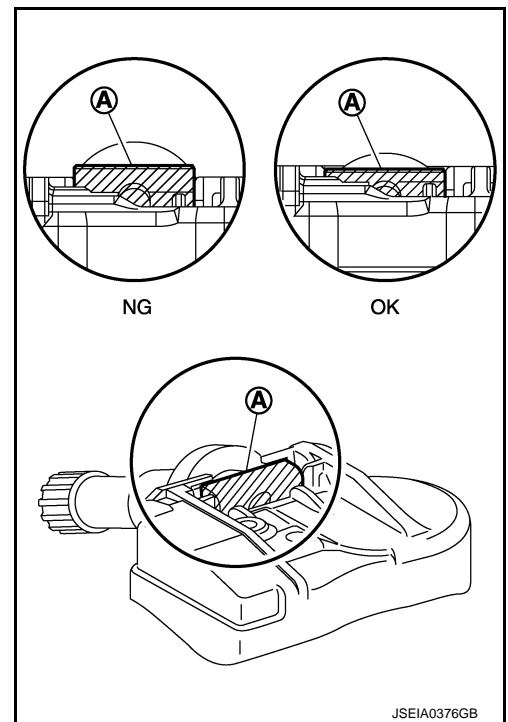
TIRE PRESSURE SENSOR

< REMOVAL AND INSTALLATION >

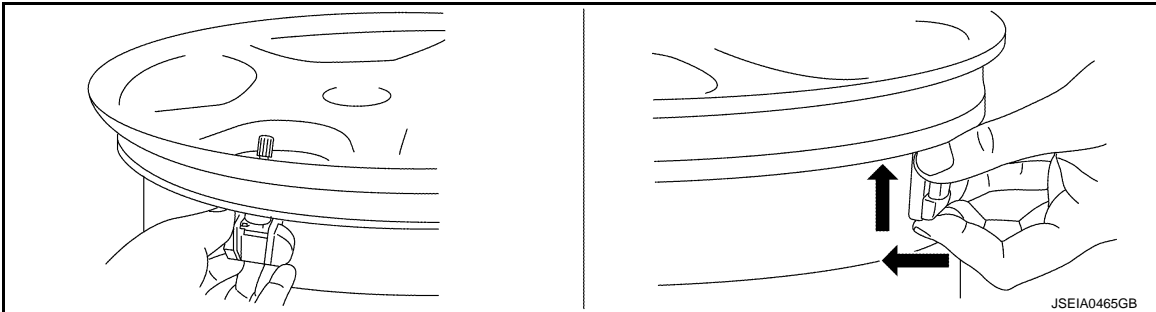
- b. Check the condition of valve stem before installing tire pressure sensor to road wheel.

CAUTION:

The base of valve stem ① must be positioned in the groove of the metal plate as shown in the figure.



- c. Hold tire pressure sensor as shown in the figure, and press the sensor in the direction shown by arrow (←) to bring it into absolute contact with road wheel. After this, tighten valve nut to the specified torque.



CAUTION:

- Never reuse valve core and valve cap.
- Check that grommet seal is free of foreign matter.
- Check that grommet seal contacts horizontally with road wheel.
- Check again that the base of valve stem is positioned in the groove of the metal plate.
- Manually tighten valve nut all the way to the wheel. (Never use a power tool to avoid impact.)

6. Set the tire onto the turntable so that the tire changer arm ② is at a position approximately 270° from the tire pressure sensor ①.

CAUTION:

Be sure that the arm does not contact the tire pressure sensor.

7. Install the tire outer side beads onto the road wheel.

CAUTION:

When installing, check that the tire does not turn together with the road wheel.

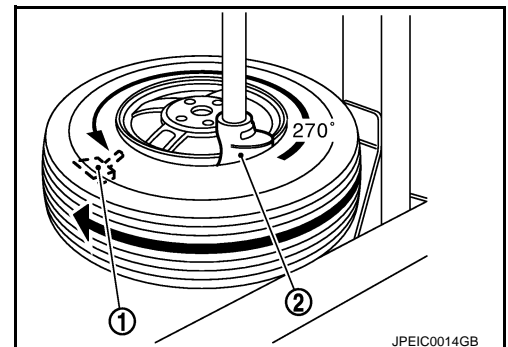
8. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-82, "Tire Air Pressure"](#).

NOTE:

Before adding air, align the tire with the position of the matching mark applied at the time of removal.

9. Install tire to the vehicle. Refer to [WT-74, "Removal and Installation"](#).

10. Perform tire pressure sensor ID registration. Refer to [WT-40, "Description"](#).



OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

OUTSIDE KEY ANTENNA

Removal and Installation

INFOID:000000012797166

Remove the outside key antenna. Refer to [DLK-262. "OUTSIDE HANDLE : Removal and Installation"](#) (outside handle) or [DLK-262. "REAR BUMPER : Removal and Installation"](#) (rear bumper).

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SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

Road Wheel

INFOID:000000012797167

CONVENTIONAL

Item	Limit
Runout	Axial runout
	Radial runout
Less than 0.3 mm (0.012 in)	
Allowable unbalance	Dynamic (At flange)
	Static (At flange)
Less than 5 g (0.17 oz) (one side)	
Less than 10 g (0.35 oz)	

EMERGENCY

Item	Limit
Runout	Axial runout
	Radial runout
Less than 1.5 mm (0.059 in)	

Tire Air Pressure

INFOID:000000012797168

Unit: kPa (kg/cm², psi)

Type	Tire size		Air pressure
①	P225/55RF17 95V	Front	240 (2.4, 35)
		Rear	
②	P245/40RF19 94V*1	Front	240 (2.4, 35)
		Rear	
③	245/40RF19 94W*1	Front	240 (2.4, 35)
		Rear	
④	245/40R19 94Y	Front	240 (2.4, 35)
	265/35R19 94W	Rear	
⑤	245/40RF19 94W*1	Front	240 (2.4, 35)
	265/35RF19 94W*1	Rear	
T145/70R18 107M*2		Front	420 (4.2, 60)
		Rear	

- *1: To identify tires with noise absorbing sponge, check codes (A).

Type	Code for tires with noise absorbing sponge
②	P245/40RF19 94V : DOT U28T47DR
③	245/40RF19 94W : DOT U28TA3BR
⑤	245/40RF19 94W : DOT U28TAWBR
	265/35RF19 94W : DOT U2N7ATBR

CAUTION:

For the handling of tires equipped with noise absorbing sponge, refer to [WT-6, "Service Notice and Precautions for Tires Equipped with Noise Absorbing Sponge"](#).

- *2: If equipped models

