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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS 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, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "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, and wait at least 3 minutes before performing any service.

Precaution for Battery Service

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

Service Notice and Precautions

- Low tire pressure warning lamp blinks for 1min, then turns ON when occurring any malfunction except low
 tire pressure. Delete the memory with CONSULT, or register the ID to turn low tire pressure warning lamp
 OFF. Refer to WT-9. "AIR PRESSURE MONITOR: CONSULT Function (BCM AIR PRESSURE MONITOR)", WT-17, "Work Procedure".
- ID registration is required when replacing or rotating wheels, replacing tire pressure sensor or BCM. Refer to <u>WT-17, "Work Procedure"</u>.
- Replace grommet seal, valve core and valve cap of tire pressure sensor in TPMS every tire replacement by reaching wear limit of tire. Refer to <u>WT-45</u>, "<u>Exploded View</u>".

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PREPARATION

< PREPARATION >

PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000008164027

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description
– (J-45295) Tire pressure tool activation tool	SEIA0462E	Tire pressure sensor wake-up procedure and ID registration

Commercial Service Tool

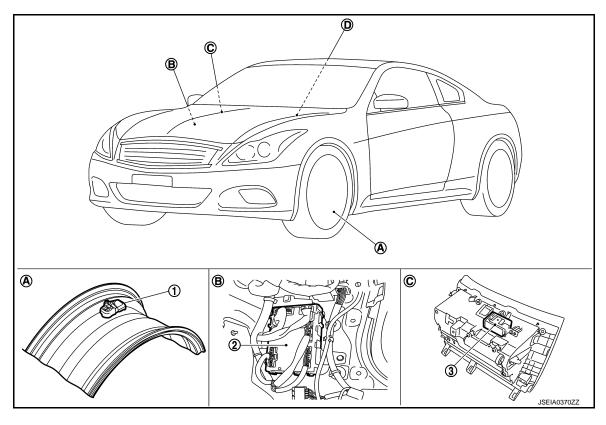
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Tool name		Description
Power tool		Loosening wheel nuts
	PBIC0190E	

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



- 1. Tire pressure sensor
- A. Wheel
- D. Low tire pressure warning lamp, information display (in combination meter)
- 2. BCM
- B. Dash side lower (passenger side)
- 3. Tire pressure receiver
- C. Instrument lower panel RH

Component Description

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INFOID:0000000008164029

Component parts	Function	
BCM (Body Control Module)	<u>WT-5, "BCM"</u> .	
Tire pressure sensor	WT-6, "Tire Pressure Sensor".	
Tire pressure receiver	WT-6, "Tire pressure receiver".	
Turn signal lamp	ID registration of each wheel has been completed, turn signal lamp flashes.	
	Transmits the vehicle speed signal via CAN communication to BCM.	
Unified meter and A/C amp.	Receives the following signals via CAN communication for BCM. • Low tire pressure warning lamp signal • TPMS malfunction warning lamp signal	
Low tire pressure warning lamp	WT-7, "System Description"	
Information display	WT-6, "Information Display"	

BCM

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

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Tire Pressure Sensor

INFOID:0000000008164032

The tire pressure sensor integrated with a valve is installed on a wheel, and transmits a detected air pressure signal by radio wave.

Tire pressure receiver

INFOID:0000000008164033

The tire pressure receiver receives the air pressure signal transmitted by the tire pressure sensor in each wheel.

Information Display

INFOID:0000000008164034

The vehicle information display is shown when a low tire pressure warning lamp signal is transmitted from BCM to Unified meter and A/C amp. via CAN communication.

Condition		Vehicle information display
Ignition switch OFF		Not indicated
Ignition switch ON	Low tire pressure warning lamp remains ON after blinking for one minute. [Tire Pressure Monitoring System (TPMS) malfunction.]	Not indicated
Ignition switch ON	Low tire pressure warning lamp remains ON. (low tire pressure)	Indicated

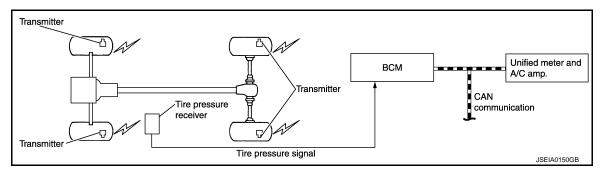
SYSTEM

System Description

INFOID:0000000008164035

During driving, the TPMS (Tire Pressure Monitoring System) receives the signal transmitted from tire pressure sensor installed in each wheel. The BCM (Body Control Module) of this system has pressure judgment and trouble diagnosis functions. When the tire pressure monitoring system detects low inflation pressure or another unusual symptom, the low tire pressure warning lamps in the unified meter and A/C amp. comes on.

SYSTEM DIAGRAM



INPUT/OUTPUT SIGNAL

The signal transmission/reception between units via a communication line is mainly as listed in the following table.

Component parts	Signal item
BCM	Transmits the following signals via CAN communication to unified meter and A/C amp. Low tire pressure warning lamp signal TPMS malfunction warning lamp signal
Unified meter and A/C amp.	Transmits the vehicle speed signal via CAN communication to BCM.

LOW TIRE PRESSURE WARNING LAMP INDICATION CONDITION

Uses CAN communication from the BCM to illuminate the low tire pressure warning lamp on the unified meter and A/C amp.

Condition	Low tire pressure warning lamp	
Ignition switch OFF	OFF	
Ignition switch ON (system normal)	Warning lamp turns on for 1second, then turns off.	
Low tire pressure	ON	
Tire pressure sensor ID not registered in BCM.	ON	
Tire pressure monitoring system malfunction (Other diagnostic item)	Warning lamp blinks 1 min, then turns on.	
Tire pressure sensor is in OFF state	Blink (Blinking pattern depends on the positions of non-operational tire pressure sensors.)	

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000008831482

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	This function is not used even though it is displayed.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

x: Applicable item

C) rata m	Sub avetem coloction item	Diagnosis mode			
System	Sub system selection item	Work Support	Data Monitor	Active Test	
Door lock	DOOR LOCK	×	×	×	
Rear window defogger	REAR DEFOGGER		×	×	
Warning chime	BUZZER		×	×	
Interior room lamp timer	INT LAMP	×	×	×	
Exterior lamp	HEAD LAMP	×	×	X	
Wiper and washer	WIPER	×	×	×	
Turn signal and hazard warning lamps	FLASHER	×	×	×	
_	AIR CONDITONER*				
Intelligent Key system Engine start system	INTELLIGENT KEY	×	×	×	
Combination switch	COMB SW		×		
Body control system	BCM	×			
IVIS - NATS	IMMU		×	X	
Interior room lamp battery saver	BATTERY SAVER	×	×	×	
Trunk lid open	TRUNK		×	×	
Vehicle security system	THEFT ALM	×	×	×	
RAP system	RETAINED PWR		×		
Signal buffer system	SIGNAL BUFFER		×	×	
TPMS	AIR PRESSURE MONITOR	×	×	×	

NOTE:

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

^{*:} This item is displayed, but is not used.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description /		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)	
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	
	LOCK>ACC		While turning power supply position from "LOCK"* to "ACC"	
	ACC>ON		While turning power supply position from "ACC" to "IGN"	
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Except emergency stop operation)	
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)	
	ACC>OFF	Power supply position status of the moment a particular DTC is de-	While turning power supply position from "ACC" to "OFF"	
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"*	
Vehicle Condition	OFF>ACC		While turning power supply position from "OFF" to "ACC"	
	ON>CRANK	tected	While turning power supply position from "IGN" to "CRANKING"	
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode	
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode	
	LOCK		Power supply position is "LOCK"*	
	OFF		Power supply position is "OFF" (Ignition switch OFF)	
	ACC		Power supply position is "ACC" (Ignition switch ACC)	
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)	
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)	
	CRANKING		Power supply position is "CRANKING" (At engine cranking)	
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 		

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position (A/T models), and any of the following conditions are met.

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- · Closing door
- Opening door
- · Door is locked using door request switch
- · Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

AIR PRESSURE MONITOR

AIR PRESSURE MONITOR: CONSULT Function (BCM - AIR PRESSURE MONITOR)

WORK SUPPORT MODE

ID Read

Revision: 2012 July WT-9 2013 G Coupe

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

The registered ID number is displayed.

ID Regist

Refer to WT-17, "Work Procedure".

SELF-DIAG RESULTS MODE

Operation Procedure

Refer to BCS-73, "DTC Index".

DATA MONITOR MODE

Screen of data monitor mode is displayed.

NOTE:

- When malfunction is detected, CONSULT perform REAL-TIME DIAGNOSIS.

 Also, any malfunction detected while in this mode will be displayed at real time.
- 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)	Remark	
AIR PRESS FL (kPa/kg/cm²/Psi)		
AIR PRESS FR (kPa/kg/cm²/Psi)	Tire pressure	
AIR PRESS RR (kPa/kg/cm²/Psi)	Tire pressure	
AIR PRESS RL (kPa/kg/cm²/Psi)		
ID REGST FL1 (Green/Red)		
ID REGST FR1 (Green/Red)	Registration ID	
ID REGST RR1 (Green/Red)		
ID REGST RL1 (Green/Red)		
WARNING LAMP (On/Off)	Low tire pressure warning lamp	
BUZZER (On/Off)	Buzzer in combination meter	

NOTE:

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

ACTIVE TEST MODE

NOTE:

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

TEST ITEM LIST

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

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

ECU	Reference	
	BCS-45, "Reference Value"	
BCM	BCS-71, "Fail-safe"	
DCIVI	BCS-72, "DTC Inspection Priority Chart"	
	BCS-73, "DTC Index"	

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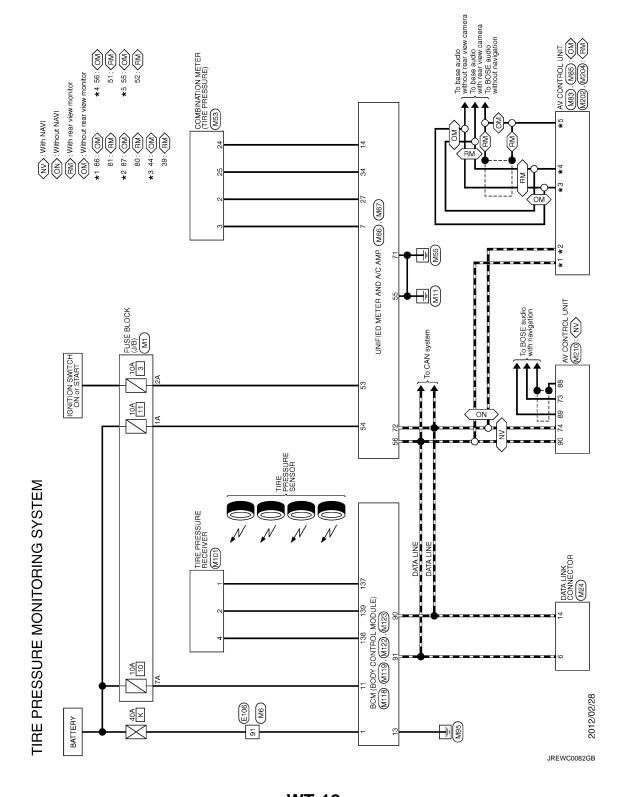
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WIRING DIAGRAM

TIRE PRESSURE MONITORING SYSTEM

Wiring Diagram

For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to GI-12, "Connector Information".



DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION > BASIC INSPECTION Α DIAGNOSIS AND REPAIR WORK FLOW Work Flow INFOID:0000000008164040 В **DETAILED FLOW** ${f 1}$.collect the information from the customer It is also important to clarify customer concerns before starting the inspection. Reproduce the symptom, and understand it fully. Interview the customer about the concerns carefully. In some cases, it is necessary to D check the symptoms by driving the vehicle with the customer. **CAUTION:** Customers are not professionals. Never assume "maybe the customer means..." or "maybe the customer mentioned this symptom. WT >> GO TO 2. 2.BASIC INSPECTION 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-48, "Tire Air Pressure". Н Is the inspection result normal? YES >> GO TO 3. NO >> Inspect or repair the tires or wheels. 3.CHECK LOW TIRE PRESSURE WARNING LAMP Check low tire pressure warning lamp display. Does not low tire pressure warning lamp turn OFF? YES >> GO TO 4. NO >> INSPECTION END 4.CRUISE TEST K

Start the engine and drive the vehicle.

>> GO TO 5.

PERFORM SELF-DIAGNOSIS

(P)With CONSULT

Perform "SELF-DIAG RESULTS".

Is any DTC detected?

YES >> Record or print DTC and freeze frame data (FFD). GO TO 7.

NO >> GO TO 6.

O.CHECK SYMPTOM

Perform trouble diagnosis for the applicable symptom. Refer to WT-32, "Symptom Table".

Is the cause of the malfunction detected?

YES >> GO TO 8.

NO >> GO TO 10.

.CIRCUIT DIAGNOSIS

Inspect the malfunctioning system indicated by the DTC code that is detected during self-diagnosis. Refer to BCS-73, "DTC Index".

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>> GO TO 8.

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

8. REPAIR WORK

Repair or replace the malfunctioning part.

>> GO TO 9.

9. PERFORM SELF-DIAGNOSIS

- 1. Select "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".
- 2. Touch "ERASE" on CONSULT screen to erase memory of the low tire pressure warning control unit.
- 3. Drive the vehicle.
- 4. Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

Is any DTC detected?

YES >> GO TO 7. NO >> GO TO 10.

10. FINAL CHECK

- 1. Perform a cruise test.
- 2. Check that the low tire pressure warning lamp turn OFF.

Dose the tire pressure warning lamp turn OFF?

YES >> INSPECTION END

NO >> GO TO 2.

ADDITIONAL SERVICE WHEN REPLACING BCM

ADDITIONAL SERVICE WHEN REPLACING BCM Description When replacing BCM, tire pressure sensor ID registration is required. Work Procedure 1.PERFORM TIRE PRESSURE SENSOR ID REGISTRATION Perform tire pressure sensor ID registration.

>> Refer to WT-17, "Work Procedure".

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TIRE PRESSURE SENSOR WAKE UP OPERATION

< BASIC INSPECTION >

TIRE PRESSURE SENSOR WAKE UP OPERATION

Description INFOID:000000008164043

This procedure must be done after replacement of a tire pressure sensor, BCM, or rotation of wheels.

Work Procedure

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.

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

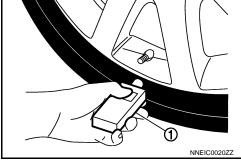
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- 2. Contact the tire pressure tool activation tool (J-45295) (1) to the side of the tire at the location to the tire pressure sensor.
- Press and hold the tire pressure tool activation tool button while pushing the tool to the tire surface. (approximately 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-17, "Work Procedure".

NO >> Perform trouble diagnosis for the tire pressure sensor. Refer to WT-21, "Diagnosis Procedure".

ID REGISTRATION

Description INFOID:0000000008164045

This procedure must be done after replacing or rotating wheels, replacing tire pressure sensor or BCM.

Work Procedure INFOID:0000000008164046

1. TIRE PRESSURE SENSOR ID REGISTRATION PROCEDURE

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.

With CONSULT

Display the "WORK SUPPORT" screen and select "ID REGIST".

Is the tire pressure tool activation tool (J-45295) used for the tire pressure sensor ID registration procedure?

YES >> GO TO 2.

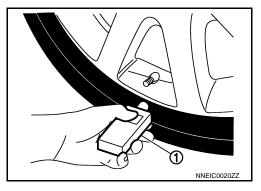
NO >> GO TO 3.

2.tire pressure sensor id registration procedure (with tire pressure tool activa-TION TOOL)

- Turn the ignition switch ON.
- Select the start button on the "ID REGIST" screen. 2.
- Contact the tire pressure tool activation tool (J-45295) (1) to the side of the tire at the location to the tire pressure sensor.
- 4. Press and hold the tire pressure tool activation tool button while pushing the tool to the tire surface. (approximately for 5 seconds)

CAUTION:

Perform the ID registration 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.



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

Sequence	ID registration position	Turn signal lamp	CONSULT
1	Front left wheel		
2	Front right wheel	2 blinks	"Red" ↓ "Green"
3	Rear right wheel	2 DIITIKS	
4	Rear left wheel		

After the ID registration procedure for all wheels is completed, press "END" to end ID registration, and check that ID registration for all wheels is completed.

Is the check result normal?

YES >> ID registration END.

NO >> Refer to WT-38, "Diagnosis Procedure".

3.tire pressure sensor id registration procedure (without tire pressure tool ac-**TIVATION TOOL)**

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

Tire position	Tire pressure kPa (kg/cm ² , psi)	
Front LH	240 (2.4, 35)	
Front RH	220 (2.2, 31)	

WT-17 Revision: 2012 July 2013 G Coupe

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ID REGISTRATION

< BASIC INSPECTION >

Tire position	Tire pressure kPa (kg/cm ² , psi)	
Rear RH	200 (2.0, 29)	
Rear LH	180 (1.8, 26)	

- 2. Drive the vehicle at a speed at more than 40 km/h (25 MPH) for 3 minutes or more, then perform the tire pressure sensor ID registration procedure.
- 3. After ID registration for all wheels is completed, press "END" to end ID registration.

ID registration position	CONSULT
Front LH	
Front RH	"Red"
Rear RH	"Green"
Rear LH	

^{4.} Adjust the tire pressures for all wheels to the specified value. Refer to <u>WT-48, "Tire Air Pressure"</u>. <u>Is ID registrations for all wheels completed?</u>

YES >> ID registration END.

NO >> Performs trouble-diagnosis of the Tire Pressure Monitoring System (TPMS). Refer to <u>BCS-73</u>, <u>"DTC Index"</u>.

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

Description INFOID:0000000008164047

When the tire pressure monitoring system detects low inflation pressure, the low tire pressure warning lamps in the combination meter comes on.

DTC Logic INFOID:0000000008164048

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
C1704	LOW PRESSURE FL	Front LH tire pressure drops to * kPa (* kg/cm², * psi) or less. [NOTE]	
C1705	LOW PRESSURE FR	Front RH tire pressure drops to * kPa (* kg/cm², * psi) or less. [NOTE]	Low tire pressure
C1706	LOW PRESSURE RR	Rear RH tire pressure drops to * kPa (* kg/cm², * psi) or less. [NOTE]	
C1707	LOW PRESSURE RL	Rear LH tire pressure drops to * kPa (* kg/cm², * psi) or less. [NOTE]	

NOTE:

- 182.7 kPa (1.9 kg/cm², 26 psi): Standard air pressure is for 230 kPa (2.3 kg/cm², 33 psi) vehicles.
- 189.6 kPa (1.9 kg/cm², 27 psi): Standard air pressure is for 240 kPa (2.4 kg/cm², 35 psi) vehicles.

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

With CONSULT

Turn the ignition switch ON.

CAUTION:

Never start the engine.

- Check the tire pressure for all wheels and adjust to the specified value. Refer to WT-48, "Tire Air Pres-
- Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

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

>> Perform trouble diagnosis. Refer to WT-19, "Diagnosis Procedure".

>> INSPECTION END NO

Diagnosis Procedure

1. CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to WT-48, "Tire Air Pressure".

Is the inspection result normal?

YES >> Replace the DTC-detected malfunctioning tire pressure sensor. Refer to WT-45, "Exploded View".

NO >> After adjusting the air pressure, GO TO 2.

2.CHECK TIRE PRESSURE SIGNAL

With CONSULT

- Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
- Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
- Select "BCM" in "DATA MONITOR", and check that the tire pressures match the standard value.

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C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

Monitor item	Condition	Displayed value	
AIR PRESS FL	Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.		
AIR PRESS FR		Internal pressure of tires	
AIR PRESS RR			
AIR PRESS RL			

CAUTION:

Stop the vehicle and within 5 minutes, use "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM" to display the tire pressure for all wheels.

Is the inspection result normal?

YES >> Inspect or repair the tires or wheels and adjust the tire pressure to the specification.

NO >> GO TO 1.

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

DTC Logic INFOID:0000000008164050

DTC DETECTION LOGIC

				_
DTC	Display item	Malfunction detected condition	Possible cause	-
C1708	[NO DATA] FL	Tire pressure data signal from the front left wheel tire pressure sensor cannot be detected.		=
C1709	[NO DATA] FR	Tire pressure data signal from the front right wheel tire pressure sensor cannot be detected.	Harness or connector (Tire pressure receiver, BCM) ID registration is not finished	
C1710	[NO DATA] RR	Tire pressure data signal from the rear right wheel tire pressure sensor cannot be detected.	Tire Pressure Sensor malfunction BCM malfunction	
C1711	[NO DATA] RL	Tire pressure data signal from the rear left wheel tire pressure sensor cannot be detected.		V

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

(P)With CONSULT

- Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
- Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

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

>> Perform trouble diagnosis. Refer to WT-21, "Diagnosis Procedure". YES

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK TIRE PRESSURE SIGNAL

With CONSULT

- Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
- Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
- Select "BCM" in "DATA MONITOR", and check that the tire pressures match the standard value.

Monitor item	Condition	Displayed value
AIR PRESS FL		
AIR PRESS FR	Drive for 3 minutes at a speed of 40 km/h (25 MPH) or	Internal pressure of tires
AIR PRESS RR	more, then drive normally for 10 minutes.	internal pressure of thes
AIR PRESS RL		

CAUTION:

Stop the vehicle and within 5 minutes, use "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM" to display the tire pressure for all wheels.

Is a tire pressure of 0 kPa (0 Psi) displayed for all wheels?

YES >> GO TO 2. NO >> GO TO 5.

2.CHECK HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

- Turn the ignition switch OFF.
- Disconnect BCM harness connector and tire pressure receiver harness connector.
- Check the continuity between BCM harness connector and tire pressure receiver harness connector.

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C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

E	BCM	Tire pressu	Tire pressure receiver		
Connector	Terminal	Connector	Terminal	Continuity	
	137		1		
M123	138	M101	4	Existed	
	139		2		

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

BO	CM		Continuity	
Connector	Terminal	_	Continuity	
	137	Ground	Not existed	
M123	138			
	139			

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

3.CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

- Connect the BCM harness connector.
- 2. Turn the ignition switch ON.

CAUTION:

Never start the engine.

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

В	CM	_	Voltage (Approx.)
Connector Terminal			voltage (Approx.)
M123	138	Ground	5 V

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace damaged parts.

4. CHECK TIRE PRESSURE RECEIVER

Check tire pressure receiver. Refer to WT-28, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace tire pressure receiver. Refer to WT-47, "Exploded View".

5. CHECK ID REGISTRATION

Perform ID registration of all tire pressure sensors. Refer to WT-17, "Work Procedure".

Can ID registration of all tire pressure sensors be completed?

YES >> GO TO 6.

NO >> Replace tire pressure sensor. Refer to <u>WT-45, "Exploded View"</u>.

6.CHECK TIRE PRESSURE MONITORING SYSTEM

(P)With CONSULT

- Drive at a speed of 40 km/h (25 MPH) or more for several minutes without stopping.
- 2. Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
- Select "BCM" in "DATA MONITOR", and check that the tire pressures match the standard value.

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Monitor item	Condition	Displayed value	
AIR PRESS FL			
AIR PRESS FR	Drive at a speed of 40 km/h (25 MPH) or more, for several	Internal pressure of tires	
AIR PRESS RR	minutes without stopping.	internal pressure of thes	
AIR PRESS RL			

CAUTION:

Stop the vehicle and within 15 minutes, use "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM" to read the tire pressure for all wheels.

Is the inspection result normal?

YES >> Replace the DTC-detected malfunctioning tire pressure sensor. Refer to <u>WT-45, "Exploded View"</u>.

NO >> Replace BCM. Refer to BCS-79. "Exploded View".

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C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

DTC Logic

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible case
C1716	[PRESSDATA ERR] FL	Malfunction in the tire pressure data from the front left wheel tire pressure sensor.	
C1717	[PRESSDATA ERR] FR	Malfunction in the tire pressure data from the front right wheel tire pressure sensor.	ID registration is not fin- ished
C1718	[PRESSDATA ERR] RR	Malfunction in the tire pressure data from the rear right wheel tire pressure sensor.	Tire Pressure Sensor mal- function
C1719	[PRESSDATA ERR] RL	Malfunction in the tire pressure data from the rear left wheel tire pressure sensor.	

DTC CONFIRMATION PROCEDURE

1. DTC REPRODUCTION PROCEDURE

(P)With CONSULT

Turn the ignition switch ON.

CAUTION:

Never start the engine.

- Check the tire pressure for all wheels and adjust to the specified value. Refer to <u>WT-48, "Tire Air Pressure"</u>.
- 3. Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

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

YES >> Perform trouble diagnosis. Refer to WT-24, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008164053

1. CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to WT-48. "Tire Air Pressure".

Is the inspection result normal?

YES >> Replace the DTC-detected malfunctioning tire pressure sensor. Refer to WT-45, "Exploded View".

NO >> After adjusting the tire pressure, GO TO 2.

2.CHECK TIRE PRESSURE SIGNAL

(P)With CONSULT

- 1. Check and adjust the tire pressure for all wheels. Refer to WT-48, "Tire Air Pressure".
- 2. Perform tire pressure sensor ID registration for all wheels. Refer to WT-17, "Work Procedure".
- 3. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
- 4. Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
- 5. Select "BCM" in "DATA MONITOR", and check that the tire pressures match the standard value. CAUTION:

Stop the vehicle and within 15 minutes, use CONSULT "DATA MONITOR" to display the tire pressure for all wheels.

6. Check that "DATA MONITOR" displays tire pressure of 438.60 kPa (4.47 kg/cm², 63.60 Psi).

Is the inspection 438.60 kPa (4.47 kg/cm², 63.60 Psi)?

YES >> Replace tire pressure sensor the tire pressure 438.60 kPa (4.47 kg/cm², 63.60 Psi) displayed. Refer to <u>WT-45, "Exploded View"</u>.

NO >> GO TO 1.

C1729 VEHICLE SPEED SIGNAL < DTC/CIRCUIT DIAGNOSIS > C1729 VEHICLE SPEED SIGNAL Α Description INFOID:0000000008164054 BCM detects no vehicle speed signal. В DTC Logic INFOID:0000000008164055 DTC DETECTION LOGIC DTC Trouble diagnosis name DTC detecting condition Possible case number D · CAN communication error C1729 VHCL SPEED SIG ERR Vehicle speed signal not detected. Unified meter and A/C amp, malfunction WT DTC CONFIRMATION PROCEDURE 1.DTC REPRODUCTION PROCEDURE (P)With CONSULT Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle. Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM". Is DTC "C1729" detected? YES >> Perform trouble diagnosis. Refer to WT-25, "Diagnosis Procedure". NO >> INSPECTION END Н Diagnosis Procedure INFOID:0000000008164056 ${f 1}$.PERFORM UNIFIED METER AND A/C AMP. SELF-DIAGNOSIS (P)With CONSULT Perform "SELF-DIAG RESULTS" of "METER/M&A". Is any DTC detected? YES >> Check the DTC. Refer to BCS-73, "DTC Index". NO >> GO TO 2. K 2.CHECK INFORMATION

With CONSULT

- Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
- 2. Select "BCM" in "DATA MONITOR", and check the input/output values. Refer to BCS-45, "Reference Value".

Is the inspection result normal?

- YES >> Check pin terminal and connection of each harness connector for malfunctioning conditions.
- NO >> Replace BCM. Refer to BCS-79, "Exploded View".

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C1734 BCM

DTC Logic

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible case
C1734	CONTROL UNIT	Tire pressure monitoring system malfunction in BCM	BCM malfunction

DTC CONFIRMATION PROCEDURE

1. DTC REPRODUCTION PROCEDURE

(P)With CONSULT

- 1. Drive at a speed of 40 km/h (25 MPH) or more for several minutes without stopping.
- Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

CAUTION:

Perform within 15 minutes after stop the vehicle.

Is DTC "C1734" detected?

YES >> Perform trouble diagnosis. Refer to <u>WT-26, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000008164058

1. CHECK BCM POWER SUPPLY

- 1. Turn the ignition switch OFF.
- Disconnect BCM harness connector.
- 3. Check voltage between BCM harness connector terminals and ground.

В	СМ		Voltago	
Connector	Terminal	_	Voltage	
M118	1	Ground	Rattory voltago	
M119	11	Ground	Battery voltage	

Is the power supply normal?

YES >> GO TO 2.

NO

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

- 40A fusible link [No. K located in the fuse block]. Refer to <u>PG-109, "Fuse and Fusible Link</u> Arrangement".
- 10A fuse [No. 10 located in the fuse block (J/B)]. Refer to <u>PG-108, "Fuse, Connector and Terminal Arrangement"</u>.
- Harness for short or open between battery and BCM harness connector M118 terminal 1.
- Harness for short or open between battery and BCM harness connector M119 terminal 11.
- Check the Battery voltage.

2.CHECK BCM GROUND

Check the continuity between BCM harness connector and ground.

В	CM	_	Continuity	
Connector	Connector Terminal		Continuity	
M119	13	Ground	Existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

3. CHECK HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

- Disconnect tire pressure receiver harness connector.
- Check the continuity between BCM harness connector and tire pressure receiver harness connector.

C1734 BCM

< DTC/CIRCUIT DIAGNOSIS >

1	ВСМ	Tire pressure receiver		
Connector	Terminal	Connector	Terminal	Continuity
	137		1	
M123	138	M101	4	Existed
	139		2	

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

BCM			Continuity	
Connector	Terminal	_	Continuity	
	137	Ground	Not existed	
M123	138			
	139			

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace damaged parts.

4.CHECK BCM

Check the BCM input/output signal. Refer to BCS-45, "Reference Value".

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 5.

5. CHECK BCM HARNESS CONNECTOR

Check the BCM pin terminals for damage or loose connection with harness connector.

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Exploded View".

NO >> Check for looseness or damage at the harness connector pins of the BCM. Repair or replace if necessary.

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TIRE PRESSURE RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

TIRE PRESSURE RECEIVER

Component Function Check

INFOID:0000000008164059

1. TIRE PRESSURE MONITORING SYSTEM OPERATION

(P)With CONSULT

- 1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
- 2. On "DATA MONITOR", select "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR" and "AIR PRESS RL", and check that the tire pressures match the standard value.

Monitor item	Condition	Displayed value
AIR PRESS FL	Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.	Internal pressure of tires
AIR PRESS FR		
AIR PRESS RR		
AIR PRESS RL		

CAUTION:

Stop the vehicle and within 5 minutes, use CONSULT "DATA MONITOR" to display the tire pressure for all wheels.

Is the inspection result normal?

YES >> INSPECTION END

NO >> Perform trouble diagnosis. Refer to <u>WT-28, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000008164060

1. CHECK TIRE PRESSURE RECEIVER SIGNAL

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

2. Check tire pressure receiver connector and ground signal with oscilloscope.

Tire pressu	ıre receiver		Condition	Valtage (Approx.)
Connector	Terminal	_	Condition	Voltage (Approx.)
M101	2	Ground	Stand by state	(V) 6 4 2 0 ••• 0.2s
WITOT	2	Sistinu	When receiving the signal from the tire pressure sensor	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2.CHECK TIRE PRESSURE RECEIVER INPUT VOLTAGE

- 1. Disconnect tire pressure receiver connector.
- Check voltage between tire pressure receiver connector and ground.

TIRE PRESSURE RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

Tire pressi	ure receiver		Voltage (Approx.)	
Connector	Terminal	_	Voltage (Approx.)	
M101	4	Ground	5.0 V	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

3. CHECK TIRE PRESSURE RECEIVER GROUND CIRCUIT

- Disconnect BCM harness connector.
- 2. Check continuity between BCM harness connector and tire pressure receiver connector.

В	CM	Tire pressi	ure receiver	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M123	137	M101	1	Existed

Check continuity between BCM harness connector and ground.

BCM		_	Continuity
Connector	Terminal	<u>—</u>	Continuity
M123	137	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace damaged parts.

4. CHECK BCM CIRCUIT

Inspect the BCM circuit. Refer to WT-26, "Diagnosis Procedure".

Is the BCM circuit normal?

YES >> Replace tire pressure receiver. Refer to WT-47, "Exploded View".

NO >> Replace BCM. Refer to BCS-79, "Exploded View". WT

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LOW TIRE PRESSURE WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP

Component Function Check

INFOID:0000000008164061

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-30, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000008164062

1. POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit. Refer to WT-31, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace damaged parts.

2. PERFORM SELF-DIAGNOSIS

(P)With CONSULT

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

Is any DTC detected?

YES >> Check the DTC. Refer to BCS-73, "DTC Index".

NO >> GO TO 3.

3.check low tire pressure warning lamp signal

(II) With CONSULT

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

- 2. Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
- Select "BCM" 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-6, "METER SYSTEM: System Description".

NO >> Replace the BCM. Refer to BCS-79, "Exploded View".

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000008164063

1. POWER SUPPLY SYSTEM CHECK

- 1. Turn the ignition switch OFF.
- 2. Disconnect the BCM harness connector.
- 3. Turn the ignition switch ON.

CAUTION:

Never start the engine.

4. Check the voltage between the BCM harness connector and the ground.

BCM		_	Voltage
Connector	Terminal	_	voltage
M118	1	Ground	Battery voltage
M119	11		

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace damaged parts.

2.GROUND SYSTEM INSPECTION

- 1. Turn the ignition switch OFF.
- 2. Check the continuity between the BCM harness connector and the ground.

BCM		_	Continuity
Connector	Terminal	_	Continuity
M119	13	Ground	Existed

Is the inspection result normal?

YES >> • Check the 10A fuse [No. 10 in fuse block (J/B)].

• Check the 40A fusible link [No. K in fuse block].

NO >> Repair or replace damaged parts.

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TPMS

SYMPTOM DIAGNOSIS

TPMS

Symptom Table

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.	Blinks: ON 2 sec > OFF 0.2 sec SEIA0593E	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-16, "Work Procedure".
	The low tire pressure warning lamp blinks once.	Blinks 1 time ON 0.3 sec > OFF 1.0 sec JPEIC0090GB	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-16, "Work Procedure".
	The low tire pressure warning lamp repeats blinking twice.	Blinks 2 times ON 0.3 sec > OFF 0.3 sec SEIA0595E	The front right tire pressure sensor is not activated.	Perform the wake-up operation for the tire pressure sensor at front right wheel. Refer to <u>WT-16</u> , "Work Procedure".
	The low tire pressure warning lamp repeats blinking for 3 times.	Blinks 3 times ON 0.3 sec > OFF 0.3 sec SEIA0596E	The rear right tire pressure sensor is not activated.	Perform the wake-up operation for the tire pressure sensor at rear right wheel. Refer to WT-16, "Work Procedure".
	The low tire pressure warning lamp repeats blinking for 4 times.	Blinks 4 times ON 0.3 sec > OFF 0.3 sec SEIA0597E	The rear left tire pressure sensor is not activated.	Perform the wake-up operation for the tire pressure sensor at rear left wheel. Refer to WT-16, "Work Procedure".
	The low tire pressure warning lamp turns ON and stays illuminated.	Comes ON and stays ON	Low tire pressure	Check the tire pressure for all wheels and adjust to the specified value. Refer to WT-48, "Tire Air Pressure".

TPMS

< SYMPTOM DIAGNOSIS >

Diagnosis items	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
Low tire pressure warning lamp sure warning vals for 1 m	The low tire pressure warning lamp	t Blinks 1 min	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.
	0.5-second intervals for 1 minute, and then stays illu-		Tire Pressure Monitoring System (TPMS) mal- function.	Perform CONSULT self-diagnosis. Refer to WT-8, "COMMON ITEM: CONSULT Function (BCM-COMMON ITEM)". If necessary, perform tire pressure sensor ID registration. Refer to WT-17, "Work Procedure".
Turn signal lamp	The turn signal lamps do not blink twice when the tire pressure sensor is activated. Or the buzzer does not sound.	_	 The tire pressure tool activation tool (J-45295) does not activate. The ignition switch is OFF when the tire pressure sensor wake-up operation is performed. The tire pressure tool activation tool (J-45295) is not used in the correct position. The tire pressure sensor is already waked up. 	 Replace the battery in the tire pressure tool activation tool (J-45295). Turn the ignition switch ON when performing the tire pressure sensor wake-up operation. Operate the t tire pressure tool activation tool (J-45295) in the correct position when performing the wake-up operation. 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.)

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

Description INFOID:000000008164065

DESCRIPTION

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

1. CHECK LOW TIRE PRESSURE WARNING LAMP

Perform trouble diagnosis of the low tire pressure warning lamp. Refer to <u>WT-30, "Diagnosis Procedure"</u>. <u>Is the inspection result normal?</u>

YES >> Check pin terminal and connection of each connector for damage and loose connection.

NO >> Repair or replace damaged parts.

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LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

Description INFOID:000000008164067

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

Diagnosis Procedure

INFOID:0000000008164068

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-48, "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 >> GO TO 3.

NO >> INSPECTION END

3.CHECK BCM

(A)With CONSULT

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

Is any DTC detected?

YES >> Check the DTC. Refer to BCS-73, "DTC Index".

NO >> GO TO 4.

4. CHECK BCM POWER SUPPLY AND GROUND

Perform the trouble diagnosis for power supply and ground circuit. Refer to <u>WT-31, "Diagnosis Procedure"</u>. Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Exploded View".

NO >> Repair or replace damaged parts.

LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP BLINKS

Description

The low tire pressure warning lamp blinks when the ignition switch is turned 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	ı timing	Activation tire position		
ON a b	a : 0.3 sec. b : 1.0 sec.	Front LH		
ON a a b	a : 0.3 sec. b : 1.0 sec.	Front RH		
ON a a a a b	a : 0.3 sec. b : 1.0 sec.	Rear RH		
ON a a a a a a b	a : 0.3 sec. b : 1.0 sec.	Rear LH		
ON a b	a : 2 sec. b : 0.2 sec.	All tires		

JPEIC0089GB

INFOID:0000000008164070

Diagnosis Procedure

1. TIRE PRESSURE SENSOR WAKE-UP OPERATION

Perform the tire pressure sensor wake-up. Refer to WT-16, "Work Procedure".

Is the tire pressure sensor wake-up completed?

YES >> GO TO 2.

NO >> Perform trouble diagnosis for the tire pressure sensor. Refer to WT-21, "Diagnosis Procedure".

2.tire pressure sensor id registration

Perform tire pressure sensor ID registration. Refer to WT-17, "Work Procedure".

Is tire pressure sensor ID registration completed?

YES >> INSPECTION END

NO >> Perform the self-diagnosis for "AIR PRESSURE MONITOR". Refer to <u>BCS-73. "DTC_Index".</u>

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ID REGISTRATION CANNOT BE COMPLETED

< SYMPTOM DIAGNOSIS >

ID REGISTRATION CANNOT BE COMPLETED

Description INFOID:000000008164071

DESCRIPTION

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:0000000008164072

1. TIRE PRESSURE SENSOR WAKE-UP

Perform the tire pressure sensor wake-up. Refer to WT-16, "Work Procedure".

Is the tire pressure sensor wake-up completed?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK TIRE PRESSURE TOOL ACTIVATION TOOL

Check tire pressure tool 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-17, "Work Procedure".

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 <u>WT-45</u>, "Removal and <u>Installation"</u>.

All wheels do not react.>>Check the tire pressure receiver. Refer to WT-28, "Component Function Check".

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

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Use chart bel	low to find th	ne cause of the sympt	om.	If nec	essa	ry, rep	air or	repla	ce the	ese p	arts.										_
Reference			2WD models: ESU-9, ESU-12	AWD models: FSU-31, FSU-35	WT-43, "Inspection"	WT-40, "Adjustment"	WT-48, "Tire Air Pressure"	WT-40, "Adjustment"	I	I	WT-48, "Tire Air Pressure"	NVH in DLN section.	NVH in DLN section.	NVH in FAX and FSU sections.	NVH in RAX and RSU sections.	Refer to TIRES in this chart.	Refer to ROAD WHEEL in this chart.	NVH in FAX, RAX section.	NVH in BR section.	NVH in ST section.	
Possible ca	ause and Sl	JSPECTED PARTS		improper installation, tooseness	Out-of-round	unbalance	Incorrect tire pressure	Uneven tire wear	Deformation or damage	Non-uniformity	Incorrect tire size	PROPELLER SHAFT	DIFFERENTIAL	FRONT AXLE AND FRONT SUSPENSION	REAR AXLE AND REAR SUSPENSION	TIRES	ROAD WHEELS	DRIVE SHAFT	BRAKE	STEERING	-
		Noise		×	×	×	×	×	×	×		×	×	×	×		×	×	×	×	-
		Shake		×	×	×	×	×	×		×	×		×	×		×	×	×	×	_
		Vibration					×				×	×		×	×			×		×	
	TIRES	Shimmy		×	×	×	×	×	×	×	×			×	×		×		×	×	
	tom	Judder		×	×	×	×	×	×		×			×	×		×		×	×	
Symptom		Poor quality ride or handling		×	×	×	×	×	×		×			×		×	×				=
		Noise		×	×	×			×			×	×	×	×	×		×	×	×	-
	ROAD	Shake		×	×	×			×			×		×	×	×		×	×	×	-
	WHEEL	Shimmy, Judder		×	×	×			×					×	×	×			×	×	-
		Poor quality ride or handling		×	×	×			×					×	×	×					_

×: Applicable

PERIODIC MAINTENANCE

ROAD WHEEL

Adjustment

BALANCING WHEELS (BONDING WEIGHT TYPE)

Preparation Before Adjustment

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

CAUTION:

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

Wheel Balance Adjustment

- 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 road wheels.
- 1. Set road wheel on tire balance machine using the center hole as a guide. Start the tire balance machine.
- 2. When inner and outer unbalance values are shown on the tire balance machine indicator, multiply outer unbalance value by 5/3 to determine balance weight that should be used. Select the outer balance weight with a value closest to the calculated value above and install in 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, be sure to clean the mating surface of the road wheel.
- a. Indicated un balance 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 37.5 g (1.32 oz) balance weight (closer to calculated balance weight value)

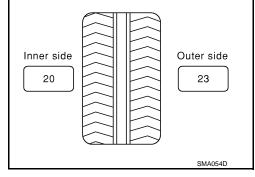
NOTE:

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

Example:

 $36.2 \Rightarrow 35 \text{ g } (1.23 \text{ oz})$ $36.3 \Rightarrow 37.5 \text{ g } (1.32 \text{ oz})$

b. Installed balance weight in the position.



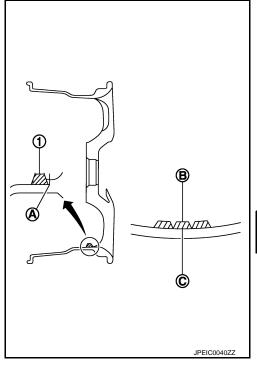
ROAD WHEEL

< PERIODIC MAINTENANCE >

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

CAUTION:

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



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

CAUTION:

Never install one balance weight sheet on top another.

- 3. Start 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.

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

Adhesion weight Wheel balancer indication position (angle) PEIA0033E

CAUTION:

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

Allowable unbalance value

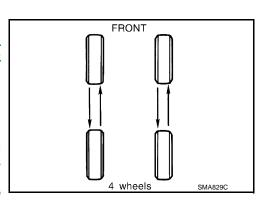
Dynamic (At flange) : Refer to <u>WT-48, "Road Wheel"</u>. Static (At flange) : Refer to <u>WT-48, "Road Wheel"</u>.

TIRE ROTATION (Except for 2WD with 19 inch wheel models)

- Follow the maintenance schedule for tire rotation service intervals.
 Refer to MA-4, "FOR NORTH AMERICA: Explanation of General Maintenance" (For North America), MA-6, "FOR MEXICO: General Maintenance" (For Mexico).
- When installing the wheel, tighten wheel nuts to the specified torque. Refer to <u>WT-43, "Exploded View"</u>.

CAUTION:

- Never include the T-type spare tire when rotating the tires.
- When installing wheels, tighten them diagonally by dividing the work two to three times in order to prevent the wheels from developing any distortion.
- Be careful not to tighten wheel nut at torque exceeding the criteria for preventing strain of disc rotor.
- Use NISSAN genuine wheel nuts for aluminum wheels.
- Perform the ID registration, after tire rotation. Refer to <u>WT-17</u>, "Work Procedure".



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ROAD WHEEL

< PERIODIC MAINTENANCE >

TIRE ROTATION (For 2WD with 19 inch wheel models)

• Tire cannot be rotated in vehicle, as front tire are different size from rear tire is fixed in each tire.

Wheel nuts tighting torque : Refer to WT-43, "Exploded View"

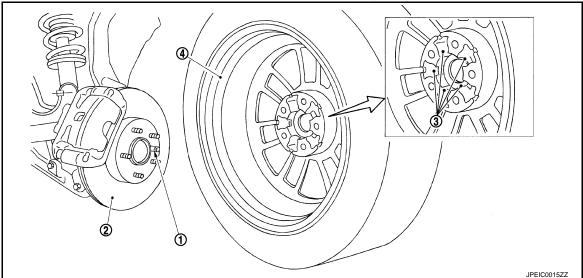
CAUTION:

- Never include the T-type spare tire when rotating the tires.
- Use NISSAN genuine wheel nuts for aluminum wheels.

Safety Device Preventing from Being Incorrectly installed

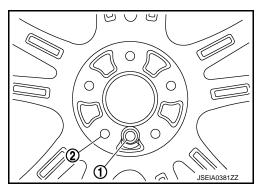
FRONT BRAKE DISC ROTOR AND FRONT WHEEL

• 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 (4) (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

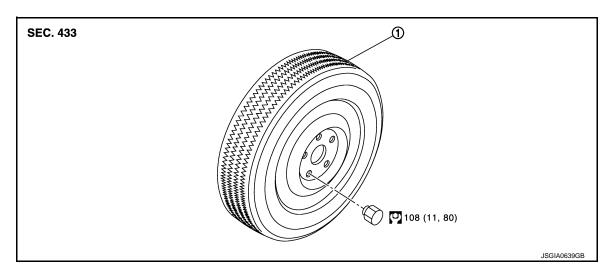
Regarding spare tire (for emergency) wheel, wrong assembly protection pin hole (1) has been set in addition to regular bolt holes (2) in order to enable installation to front wheel.



REMOVAL AND INSTALLATION

ROAD WHEEL TIRE ASSEMBLY

Exploded View



1. Tire assembly

Refer to GI-4. "Components" for symbols in the figure.

Removal and Installation

REMOVAL

- 1. Remove wheel nuts.
- 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-17, "Work Procedure".

Inspection INFOID:0000000008164077

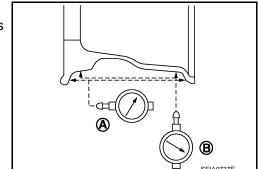
ALUMINUM WHEEL

- 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.
- Remove tire from aluminum wheel and mount on a tire balance machine.
- 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-48, "Road Wheel".

Radial runout (B) : Refer to WT-48, "Road Wheel".



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STEEL WHEEL

1. Check tires for wear and improper inflation.

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ROAD WHEEL TIRE ASSEMBLY

< REMOVAL AND INSTALLATION >

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

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

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

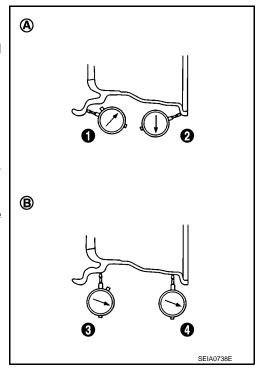
In case a positive or negative value is not available, use the maximum value (negative or positive) for total runout.

Limit

A : Refer to WT-48, "Road Wheel".

B : Refer to WT-48, "Road Wheel".

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



TIRE PRESSURE SENSOR

Exploded View

SEC. 253

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③ ♥ 7.5 (0.77, 66)

Tire pressure sensor

- 2. Grommet seal
- 5. Valve cap

3. Valve nut

Valve core

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

Refer to GI-4, "Components" for symbols not described above.

Removal and Installation

INFOID:0000000008164079

REMOVAL

Remove tire assembly. Refer to <u>WT-43, "Removal and Installation"</u>.

2. Remove valve cap, valve core and then deflate tire.

NOTE:

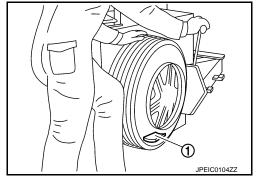
If the tire is reused, apply a matching mark to the position of the tire road wheel valve hole for the purpose of wheel balance adjustment after installation.

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.
- 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.



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TIRE PRESSURE SENSOR

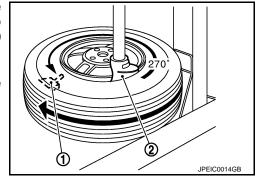
< REMOVAL AND INSTALLATION >

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.

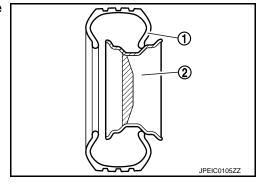


INSTALLATION

- 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 grommet seal to the tire pressure sensor.

CAUTION:

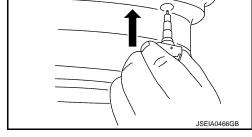
- Never reuse grommet seal.
- Insert grommet seal all the way to the base.



4. 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 valve hole. 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.
- Manually tighten valve nut all the way to the wheel. (Never use a power tool to avoid impact.)



5. 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:

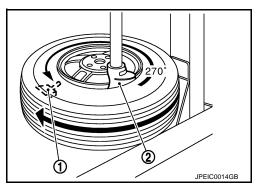
Be sure that the arm does not contact the tire pressure sensor.

6. 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.

7. Check the tire pressure for all wheels and adjust to the specified value. Refer to <u>WT-48</u>, "<u>Tire Air Pressure</u>".



NOTE:

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

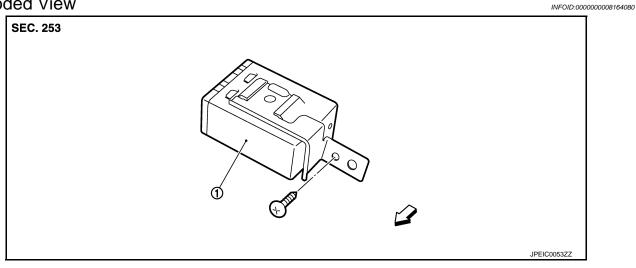
- 8. Install tire to the vehicle. Refer to WT-43, "Removal and Installation".
- 9. Perform tire pressure sensor ID registration. Refer to WT-17, "Work Procedure".

TIRE PRESSURE RECEIVER

< REMOVAL AND INSTALLATION >

TIRE PRESSURE RECEIVER

Exploded View



Tire pressure receiver

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 Vehicle front

Removal and Installation

REMOVAL

- 1. Remove the instrument lower cover. Refer to IP-12, "A/T MODELS: Exploded View" (A/T) or IP-23, "M/T MODELS: Exploded View" (M/T).
- 2. Remove the glove box assembly.
- 3. Remove the instrument lower panel RH.
- 4. Disconnect tire pressure receiver harness connector.
- 5. Remove Tire pressure receiver mounting screw.
- 6. Remove tire pressure receiver.

INSTALLATION

Install is the reverse order of removal.

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SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Road Wheel

ALUMINUM WHEEL (CONVENTIONAL)

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

STEEL WHEEL (FOR EMERGENCY USE)

Item		Limit				
Runout	Axial runout (Average)	Less than 1.5 mm (0.059 in)				
Kullout	Radial runout (Average)	Less than 1.5 mm (0.059 m)				
Allowable unbalance	Dynamic (At flange)	Less than 5 g (0.17 oz) (one side)				
Allowable unbalance	Static (At flange)	Less than 10 g (0.35 oz)				

Tire Air Pressure

INFOID:0000000008164083

Unit: kPa (kg/cm², psi)

Tire size	Air pressure					
THE SIZE	Front	Rear				
P225/50R18 94V	230 (2.3, 33)	230 (2.3, 33)				
225/45R19 92W	240 (2.4, 35)	_				
245/40R19 94W	_	240 (2.4, 35)				
P225/45R19 92V	240 (2.4, 35)	240 (2.4, 35)				
T145/80D17 107M	420 (4.2, 60)	420 (4.2, 60)				
T145/70R18 107M	420 (4.2, 60)	420 (4.2, 60)				