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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.

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-18. "Work Procedure".
- ID registration is required when replacing or rotating wheels, replacing tire pressure sensor or BCM. Refer to BCS-80, "Exploded View".
- Replace grommet seal, valve core and cap of tire pressure sensor in TPMS every tire replacement by reaching wear limit of tire. Refer to <u>WT-46</u>, "<u>Exploded View</u>".

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PREPARATION

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PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000007466460

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 sensor activation tool		ID registration
	SEIA0462E	

Commercial Service Tool

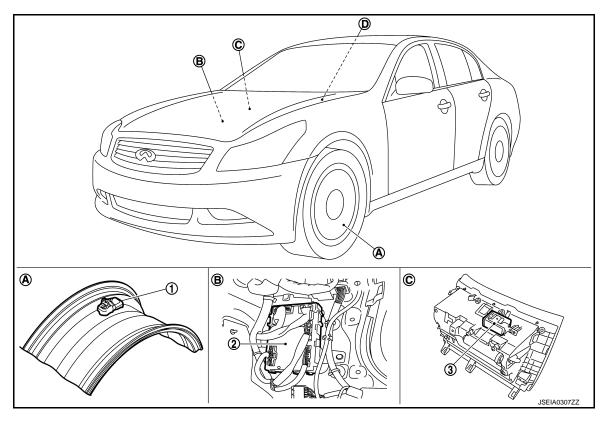
INFOID:0000000007466461

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)
- Tire pressure receiver
- C. Instrument lower panel RH

Component Description

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Component parts	Function	
BCM (Body Control Module)	WT-5, "BCM".	
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 INFOID:000000007466464

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

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Tire Pressure Sensor

INFOID:0000000007466465

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:0000000007466466

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

Information Display

INFOID:0000000007466467

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	Non-indication
Low tire pressure	Indication

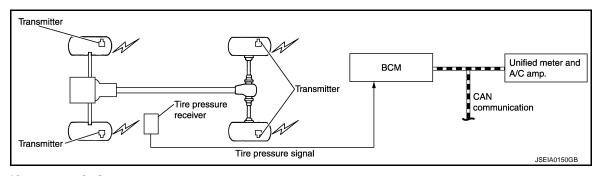
SYSTEM

System Description

INFOID:0000000007466468

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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< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000007698902

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.

×: Applicable item

C) rata m	Sub avatam adaption 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.

< 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" (Vehicle is stopping and selector lever is except P position.)	
	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 position status of the moment a particular DTC is detected	While turning power supply position from "ACC" to "OFF"	
Vehicle Condition OFF>LOCK OFF>ACC	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"*	
	OFF>ACC		While turning power supply position from "OFF" to "ACC"	
	ON>CRANK		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 is 0 whenThe number increases whenever ignition swit	It ignition switch is turned ON after DTC is detected a malfunction is detected now. If the sum of	

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)

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Revision: 2013 February WT-9 2012 G Sedan

< SYSTEM DESCRIPTION >

Diagnosis mode	Function Description
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Components can be quickly and accurately adjusted.

SELF DIAGNOSTIC RESULT

Refer to BCS-74, "DTC Index".

When "CRNT" is displayed on self-diagnosis result,

The system is presently malfunctioning.

When "PAST" is displayed on self-diagnosis result,

System malfunction in the past is detected, but the system is presently normal.

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.

Monitor item (Unit)	Remark	
AIR PRESS FL (kPa//kg/cm ² /Psi)		
AIR PRESS FR (kPa//kg/cm ² /Psi)	Tire pressure	
AIR PRESS RR (kPa//kg/cm ² /Psi)	The 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)	NOTE: This item is displayed, but cannot be use this item.	

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 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.	

WORK SUPPORT MODE

< SYSTEM DESCRIPTION >

Item	Description
ID READ	Registered tire pressure sensor ID can be displayed.
ID REGIST	Tire pressure sensor ID can be registered.

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ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000007466471

ECU	Reference
	BCS-44, "Reference Value"
BCM	BCS-72, "Fail-safe"
	BCS-73, "DTC Inspection Priority Chart"
	BCS-74, "DTC Index"

WIRING DIAGRAM

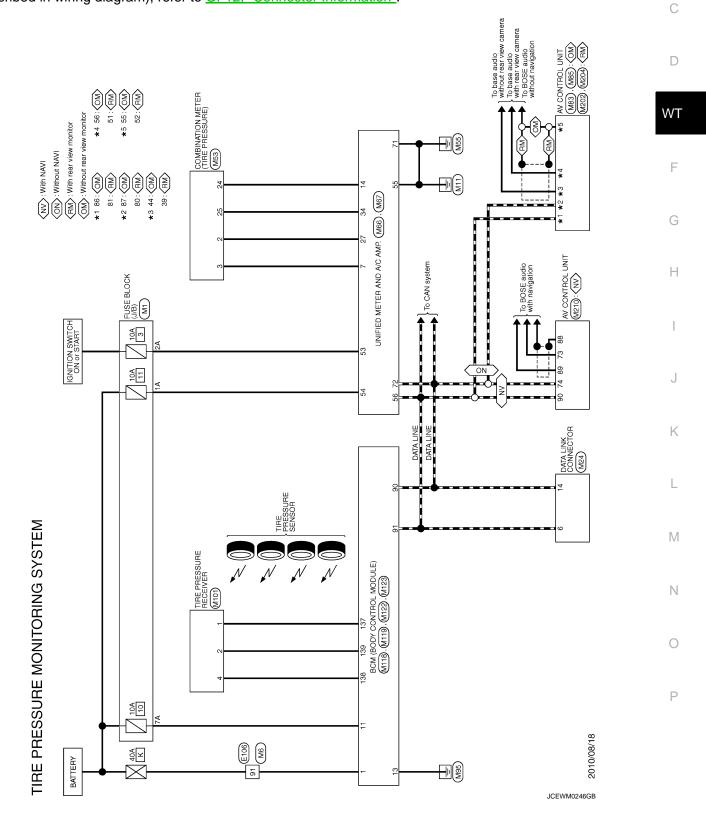
TIRE PRESSURE MONITORING SYSTEM

Wiring Diagram

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



BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow INFOID:000000007466473

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 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.

>> GO TO 2.

2.BASIC INSPECTION

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 <u>WT-49, "Tire Air Pressure"</u>.

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

CRUISE TEST

Start the engine and drive the vehicle.

>> GO TO 5.

5. PERFORM SELF-DIAGNOSIS

(I) 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.

6. CHECK SYMPTOM

Perform trouble diagnosis for the applicable symptom. Refer to WT-33, "Symptom Table".

Is the cause of the malfunction detected?

YES >> GO TO 8. NO >> GO TO 10.

7. CIRCUIT DIAGNOSIS

Inspect the malfunctioning system indicated by the DTC code that is detected during self-diagnosis. Refer to BCS-74, "DTC Index".

>> GO TO 8.

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION > 8. REPAIR WORK Repair or replace the malfunctioning part. >> GO TO 9. В 9. PERFORM SELF-DIAGNOSIS Select "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM". 2. Touch "ERASE" on CONSULT screen to erase memory. 3. Drive the vehicle. 4. Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM". D Is any DTC detected? YES >> GO TO 7. NO >> GO TO 10. WT 10. FINAL CHECK Perform a cruise test. 2. Check that the low tire pressure warning lamp turn OFF. F Dose the tire pressure warning lamp turn OFF? >> INSPECTION END YES NO >> GO TO 2. Н K L Ν

ADDITIONAL SERVICE WHEN REPLACING BCM

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING BCM

Description INFOID:000000007466474

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-18, "Work Procedure".

TIRE PRESSURE SENSOR WAKE UP OPERATION

< BASIC INSPECTION >

TIRE PRESSURE SENSOR WAKE UP OPERATION

Description INFOID:000000007466476

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 blin	king 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

JPEIC0089GB

- 2. Contact the tire pressure sensor 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 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.
- 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.



YES >> Perform the tire pressure sensor ID registration procedure. Refer to WT-18, "Work Procedure".

NO >> Perform trouble diagnosis for the tire pressure sensor. Refer to WT-22, "Diagnosis Procedure".

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ID REGISTRATION

Description INFOID.000000007466478

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

Work Procedure

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.

(P)With CONSULT.

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

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

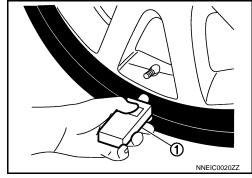
YES >> GO TO 2. NO >> GO TO 3.

2.tire pressure sensor id registration procedure (with tire pressure sensor activation tool)

- Turn the ignition switch ON.
- Select the start button on the "ID REGIST" screen.
- 3. Contact the tire pressure sensor 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 sensor 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.



5. 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"
3	Rear right wheel	2 DIIIIKS	"Green"
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-39, "Diagnosis Procedure".

3.tire pressure sensor id registration procedure (without tire pressure sensor activation tool)

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

ID REGISTRATION

< BASIC INSPECTION >

Tire position	Ting and the (log (log (mg 2 mg 2))
	Tire pressure kPa (kg/cm ² , psi)
Front LH	240 (2.4, 35)
Front RH	220 (2.2, 31)
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-49, "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-74.</u> "<u>DTC Index"</u>.

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C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

Description INFOID:000000007466480

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

DTC Logic

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 pressureTire pressure sensor
C1706	LOW PRESSURE RR	Rear RH tire pressure drops to * kPa (* kg/cm ² , * psi) or less. [NOTE]	
C1707	LOW PRESSURE RL	Rear LH tire pressure drops to * kPa (* kg/cm ² , * psi) or less. [NOTE]	

^{*: 182.7} kPa (1.9 kg/cm², 26 psi): Standard air pressure is for 230 kPa (2.3 kg/cm², 33 psi) vehicles.

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

(P)With CONSULT

1. 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-49</u>, "<u>Tire Air Pressure</u>".
- 3. Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

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

YES >> Perform trouble diagnosis. Refer to WT-20, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007466482

1. CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to WT-49, "Tire Air Pressure".

Is the inspection result normal?

YES >> Replace the DTC-detected malfunctioning tire pressure sensor. Refer to WT-46, "Exploded View".

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

2. CHECK TIRE PRESSURE SIGNAL

(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.
- Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
- 3. 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:

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

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.

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C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

DTC Logic

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.	

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

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

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

YES >> Perform trouble diagnosis. Refer to <u>WT-22, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007466484

1. CHECK TIRE PRESSURE SIGNAL

(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. Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
- 3. 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.

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

BCM		Tire pressure receiver		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	137		1	
M123	138	M101	4	Existed
	139		2	
Check the continu	uity between BCM har	ness connector and	ground.	
Check the continu	uity between BCM har	ness connector and	ground.	
	BCM		ground.	Continuity
Check the continu	•		ground.	Continuity
	BCM Termina		ground. — Ground	Continuity Not existed

- 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	_		
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-29, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace tire pressure receiver. Refer to WT-48, "Exploded View".

5. CHECK ID REGISTRATION

Perform ID registration of all tire pressure sensors. Refer to WT-18, "Work Procedure".

Can ID registration of all tire pressure sensors be completed?

YES >> GO TO 6.

NO >> Replace tire pressure sensor. Refer to WT-46, "Exploded View".

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.

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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-46. "Exploded View"</u>.

NO >> Replace BCM. Refer to BCS-80, "Exploded View".

C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

DTC Logic INFOID:0000000007466485

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

DTC REPRODUCTION PROCEDURE

With CONSULT

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-49, "Tire Air Pressure".
- Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

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

>> Perform trouble diagnosis. Refer to WT-25, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to WT-49, "Tire Air Pressure".

Is the inspection result normal?

YES >> Replace the DTC-detected malfunctioning tire pressure sensor. Refer to WT-46, "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-49, "Tire Air Pressure".
- Perform tire pressure sensor ID registration for all wheels. Refer to WT-18, "Work Procedure".
- 3. 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".
- 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 WT-46, "Exploded View".

NO >> GO TO 1.

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C1729 VEHICLE SPEED SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

C1729 VEHICLE SPEED SIGNAL

Description INFOID:000000007466487

BCM detects no vehicle speed signal.

DTC Logic

DTC DETECTION LOGIC

DTC number	Trouble diagnosis name	DTC detecting condition	Possible case
C1729	VHCL SPEED SIG ERR	Vehicle speed signal not detected.	CAN communication error Unified meter and A/C amp. mal- function

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

(I) With CONSULT

- 1. Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle.
- 2. Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

Is DTC "C1729" detected?

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

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000007466489

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 MWI-86, "DTC Index".

NO >> GO TO 2.

2. CHECK INFORMATION

With CONSULT

- 1. Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
- Select "BCM" in "DATA MONITOR", and check the input/output values. Refer to BCS-44, "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-80, "Exploded View".

< DTC/CIRCUIT DIAGNOSIS >

C1734 BCM

DTC Logic INFOID:0000000007466490

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".

Perform within 15 minutes after stop the vehicle.

Is DTC "C1734" detected?

>> Perform trouble diagnosis. Refer to WT-27, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1.CHECK BCM POWER SUPPLY

- Turn the ignition switch OFF.
- Disconnect BCM harness connector. 2.
- Check voltage between BCM harness connector terminals and ground.

В	CM	_	Voltage	
Connector	Terminal	_		
M118	1	Ground	Rattony 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 PG-113, "Fuse and Fusible Link Arrangement".
- 10A fuse [No. 10 located in the fuse block (J/B)]. Refer to PG-112, "Fuse, Connector and Terminal Arrangement".
- 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	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.

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	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.

В	CM		Continuity	
Connector	Terminal	<u>—</u>		
	137			
M123	138	Ground	Not existed	
	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-44, "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-80, "Exploded View".

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

TIRE PRESSURE RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

TIRE PRESSURE RECEIVER

Component Function Check

INFOID:0000000007466492

1. TIRE PRESSURE MONITORING SYSTEM OPERATION

OID:0000000007466492

(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.
- 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		
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.	
AIR PRESS RL		

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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-29</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000007466493

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	Tire pressure receiver		Condition	Voltage (Approx.)	
Connector	Terminal	_	Condition	voltage (Approx.)	
M101	2	Ground	Stand by state	(V) 6 4 2 0 ** 0.2s OCC3881D	
	2		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.

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TIRE PRESSURE RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

Tire pressure 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

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

BCM		Tire press	Tire pressure receiver	
Connector	Terminal	Connector	Terminal	Continuity
M123	137	M101	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	_	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-27, "Diagnosis Procedure".

Is the BCM circuit normal?

YES >> Replace tire pressure receiver. Refer to WT-48, "Exploded View".

NO >> Replace BCM. Refer to BCS-80, "Exploded View".

LOW TIRE PRESSURE WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >	
LOW TIRE PRESSURE WARNING LAMP	А
Component Function Check	, ,
1. CHECK THE ILLUMINATION OF THE LOW TIRE PRESSURE WARNING LAMP	В
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?	С
YES >> INSPECTION END NO >> Perform trouble diagnosis. Refer to <u>WT-31, "Diagnosis Procedure"</u> .	
Diagnosis Procedure	D
1. POWER SUPPLY AND GROUND CIRCUIT	WT
Check power supply and ground circuit. Refer to WT-32, "Diagnosis Procedure".	V V I
Is the inspection result normal? YES >> GO TO 2.	F
NO >> Repair or replace damaged parts. 2.PERFORM SELF-DIAGNOSIS	
(A)With CONSULT	G
Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".	
Is any DTC detected? YES >> Check the DTC. Refer to BCS-74, "DTC Index".	Н
NO >> GO TO 3.	
3.CHECK LOW TIRE PRESSURE WARNING LAMP SIGNAL	I
1. Turn the ignition switch ON. CAUTION:	J
Never start the engine.	J
3. Select "BCM" in "DATA MONITOR", and check that the low tire pressure warning lamp is turned OFF after	K
illuminating for approximately 1 second, when the ignition switch is turned ON. <u>Is the inspection result normal?</u>	
YES >> Check the combination meter. Refer to MWI-6 , "METER SYSTEM: System Description". NO >> Replace the BCM. Refer to BCS-80 , "Exploded View".	L
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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000007466496

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			Voltago
Connector	Terminal	_	Voltage
M118	1	Ground	Battery voltage
M119	11	Giodila	battery voltage

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.
- 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.

TPMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

TPMS

Symptom Table

LOW TIRE PRESSURE WARNING LAMP SYMPTOM CHART

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Diagnosis items	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
	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.	ON 2 sec > OFF 0.2 sec	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-17, "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-17, "Work Procedure".
Low tire pres- sure warning lamp	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 WT-17, "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-17, "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-17, "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-49, "Tire Air Pressure".

TPMS

< SYMPTOM DIAGNOSIS >

Diagnosis items	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
The low tire pressure warning lamp		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.	
Low tire pres- sure warning lamp	vals for 1 minute, and then stays illu-	Blinks 1 min ON 0.5 sec > OFF 0.5 sec and stays ON SEIA0788E	Tire Pressure Monitoring System (TPMS) malfunction.	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-18, "Work Procedure".
Hazard warn- ing lamp	The hazard warning lamp does not blink twice when the tire pressure sensor is activated.	_	1. The tire pressure sensor activation tool (J-45295) does not activate. 2. The ignition switch is OFF when the tire pressure sensor wake-up operation is performed. 3. The tire pressure sensor activation tool (J-45295) is not used in the correct position. 4. The tire pressure sensor is already waked up.	 Replace the battery in the tire pressure sensor activation tool (J-45295). Turn the ignition switch ON when performing the tire pressure sensor wake-up operation. Operate the tire pressure sensor activation tool (J-45295) in the correct position when performing the wake-up operation. No procedure.

NOTE:

rear right wheel tire pressure sensors.)

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

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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:000000007466498

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:0000000007466499

${f 1}$.CHECK LOW TIRE PRESSURE WARNING LAMP

Perform trouble diagnosis of the low tire pressure warning lamp. Refer to <u>WT-31, "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.

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS > LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF	
Description INFOID:000000007466500	А
The low tire pressure warning lamp does not turn OFF after several seconds is passed after engine starts.	В
Diagnosis Procedure	
1. CHECK TIRE PRESSURE	С
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-49, "Tire Air Pressure".	D
Is the inspection result normal?	WT
YES >> GO TO 2. NO >> Inspect or repair the tires or wheels.	
2.CHECK LOW TIRE PRESSURE WARNING LAMP	F
Check low tire pressure warning lamp display.	
Does not low tire pressure warning lamp turn OFF? YES >> GO TO 3.	G
NO >> INSPECTION END	
3.CHECK BCM	Н
With CONSULT Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".	
Is any DTC detected? YES >> Check the DTC. Refer to BCS-74, "DTC Index".	1
NO >> GO TO 4.	
4.CHECK BCM POWER SUPPLY AND GROUND CIRCUIT	J
Perform the trouble diagnosis for power supply and ground circuit. Refer to <u>WT-32, "Diagnosis Procedure"</u> . Is the inspection result normal?	IZ.
YES >> Replace BCM. Refer to BCS-80, "Exploded View".	K
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:000000007466502

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 ti	iming	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		
OFF 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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Diagnosis Procedure

INFOID:0000000007466503

1. TIRE PRESSURE SENSOR WAKE-UP OPERATION

Perform the tire pressure sensor wake-up. Refer to WT-17, "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-22, "Diagnosis Procedure".

2. TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to WT-18, "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-74, "DTC_Index"</u>.

ID REGISTRATION CANNOT BE COMPLETED

< SYMPTOM DIAGNOSIS >

ID REGISTRATION CANNOT BE COMPLETED Α Description INFOID:0000000007466504 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:0000000007466505 1. TIRE PRESSURE SENSOR WAKE-UP Perform the tire pressure sensor wake-up. Refer to WT-17, "Work Procedure". D Is the tire pressure sensor wake-up completed? YES >> GO TO 3. NO >> GO TO 2. WT 2.check tire pressure sensor activation tool Check tire pressure sensor activation tool. Is the inspection result normal? F 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-18, "Work Procedure". Н 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? >> INSPECTION END YES NO >> GO TO 4. CHECK TIRE PRESSURE SIGNAL Change the work location and perform ID registration again. K 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 Ν Only certain wheel(s) do not react.>>Replace applicable tire pressure sensor. Refer to WT-46, "Removal and Installation". All wheels do not react.>>Check the tire pressure receiver. Refer to WT-29, "Component Function Check".

WT-39 Revision: 2013 February 2012 G Sedan

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

INFOID:0000000007742329

Use chart bel	Use chart below to find the cause of the symptom. If necessary, repair or replace these parts.																			
Reference page		2WD models: FSU-9, FSU-12	AWD models: FSU-31, FSU-35	WT-44, "Inspection"	WT-41, "Adjustment"	WT-49, "Tire Air Pressure"	WT-41, "Adjustment"	I	I	WT-49, "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	use and SI	JSPECTED PARTS		improper installation, looseriess	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		×	×	×	×	×	×	×	×			×	×		×		×	×
	Symptom	Judder		×	×	×	×	×	×		×			×	×		×		×	×
Symptom		Poor quality ride or handling		×	×	×	×	×	×		×			×		×	×			
		Noise		×	×	×			×			×	×	×	×	×		×	×	×
		Shake		×	×	×			×			×		×	×	×		×	×	×
	WHEEL	Shimmy, Judder		×	×	×			×					×	×	×			×	×
		Poor quality ride or handling		×	×	×			×					×	×	×				

 $[\]times$: Applicable

PERIODIC MAINTENANCE

ROAD WHEEL

Adjustment INFOID:000000007466506

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

- 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)

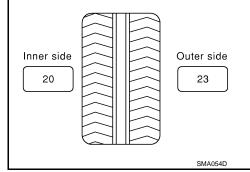
NOTE:

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.



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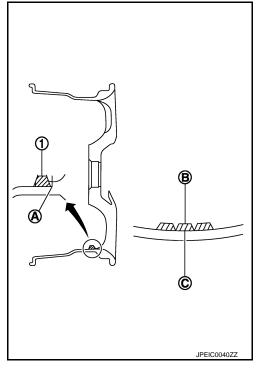
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< PERIODIC MAINTENANCE >

 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 more than three 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 another.

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

Never install more than two balance weight.

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



Dynamic (At flange) : Refer to <u>WT-49, "Road Wheel"</u>.

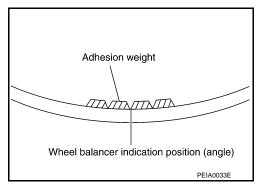
Static (At flange) : Refer to <u>WT-49, "Road Wheel"</u>.

TIRE ROTATION (for 17 and 18 inch wheel models)

- Follow the maintenance schedule for tire rotation service intervals.
 Refer to MA-5, "FOR NORTH AMERICA: Explanation of General Maintenance" (For North America), MA-7, "FOR MEXICO: General Maintenance" (For Mexico).
- When installing the wheel, tighten wheel nuts to the specified torque. Refer to WT-44, "Exploded View".

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 WT-18, "Work Procedure".



FRONT

4 wheels

SMA829C

ROAD WHEEL

< PERIODIC MAINTENANCE >

TIRE ROTATION (for 18 inch front and rear different tire size 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-44, "Exploded View".

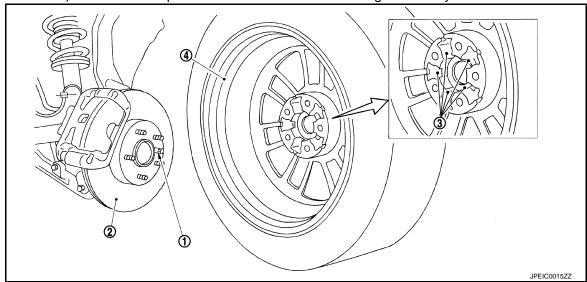
CAUTION:

- 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

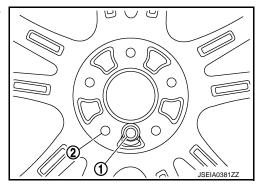
FRONT BRAKE DISC ROTOR AND FRONT WHEEL

• 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.



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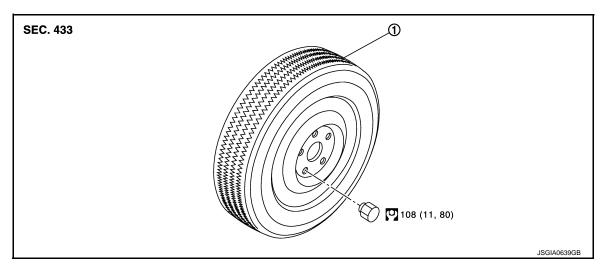
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REMOVAL AND INSTALLATION

ROAD WHEEL TIRE ASSEMBLY

Exploded View



1. Tire assembly

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

Removal and Installation

INFOID:0000000007466508

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-18, "Work Procedure".

Inspection INFOID:0000000007466509

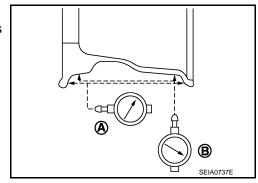
ALUMINUM WHEEL

- 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.
- 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 <u>WT-49, "Road Wheel"</u>.

Radial runout (B) : Refer to <u>WT-49, "Road Wheel"</u>.



STEEL WHEEL

1. Check tires for wear and improper inflation.

ROAD WHEEL TIRE ASSEMBLY

< REMOVAL AND INSTALLATION >

- 2. Check wheels for deformation, clacks and other damage. If deformed, remove wheel and check wheel runout.
- 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".
- 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:

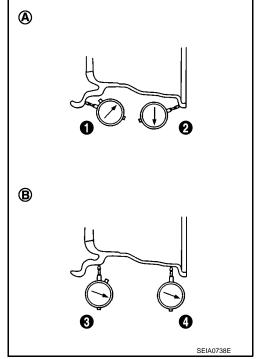
In case a positive or negative value is not available, use the maximum value (negative or positive) for total runout.

Limit

A : Refer to WT-49, "Road Wheel".

B : Refer to WT-49, "Road Wheel".

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



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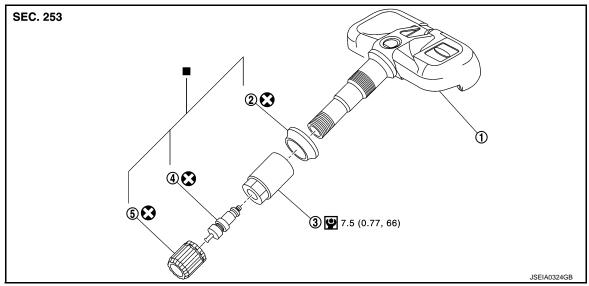
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TIRE PRESSURE SENSOR

Exploded View

INFOID:0000000007466510



- 1. Tire pressure sensor
- 2. Grommet seal

3. Valve nut

Valve core

5. Valve cap

: 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:0000000007466511

REMOVAL

- Remove tire assembly. Refer to <u>WT-44, "Removal and Installation"</u>.
- 2. Remove valve cap, valve core and then deflate tire.

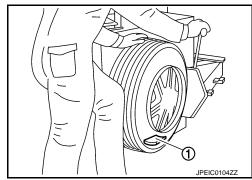
NOTE:

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.



TIRE PRESSURE SENSOR

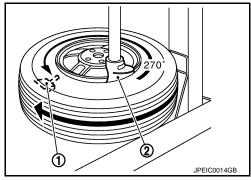
< REMOVAL AND INSTALLATION >

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.

4. Install the tire pressure sensor onto the road wheel, and tighten the valve nut to the specified torque.

CAUTION:

- Never reuse valve core and valve cap.
- 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:

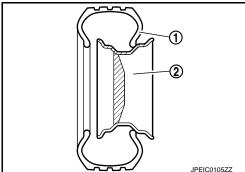
When installing, check that the tire does not turn together with the road wheel.

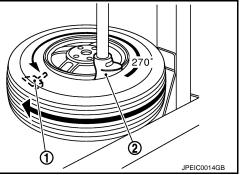
 Check the tire pressure for all wheels and adjust to the specified value. Refer to <u>WT-49</u>, "<u>Tire Air Pressure</u>".

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-44, "Removal and Installation".
- 9. Perform tire pressure sensor ID registration. Refer to WT-18, "Work Procedure".





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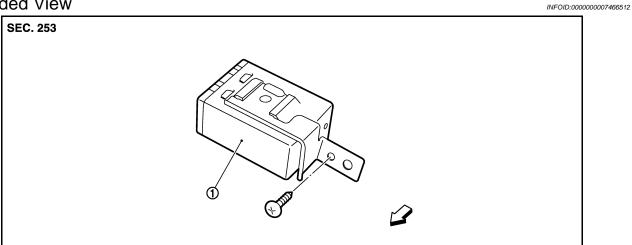
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TIRE PRESSURE RECEIVER

Exploded View



1. Tire pressure receiver

Removal and Installation

INFOID:0000000007466513

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REMOVAL

- 1. Remove the instrument lower cover. Refer to IP-11, "A/T MODELS: Exploded View" (A/T) or IP-22, "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.

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)			
Kullout	Radial runout	- Less than 0.3 min (0.012 m)			
Allowable unbalance	Dynamic (At flange)	Less than 5 g (0.17 oz) (one side)			
Allowable ulibaldfice	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)				
	Radial runout (Average)	Less than 1.5 mm (0.009 m)				

Tire Air Pressure

Unit: kPa (kg/cm², psi)

INFOID:0000000007466515

Tire size	Air pressure					
THE SIZE	Front	Rear				
P225/55R17 95V	230 (2.3, 33)	230 (2.3, 33)				
P225/50R18 94V	230 (2.3, 33)	230 (2.3, 33)				
225/50R18 95W XL*	230 (2.3, 33)	_				
245/45R18 96W XL*	-	230 (2.3, 33)				
T145/80D17 107M	420 (4.2, 60)	420 (4.2, 60)				
T145/70R18 107M	420 (4.2, 60)	420 (4.2, 60)				

^{*:} XL indicates Extra Load (Reinforced) Tire.

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