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### **DIAGNOSIS AND REPAIR WORKFLOW**

< BASIC INSPECTION >

#### BASIC INSPECTION Α DIAGNOSIS AND REPAIR WORKFLOW Repair Work Flow INFOID:0000000001911048 DETAILED FLOW 1. VERIFY COSTOMER COMPLAINTS Interview the customer to obtain detailed information about the symptom. D >> GO TO 2. 2.DETERMINE REFERENCE ITEM RELATED TO SYMPTOM WT Check the symptom on the vehicle from the information obtained. (cruise test, warning lamp illumination or blinking, etc.) Is the symptom confirmed? YES >> GO TO 3. NO >> GO TO 4. 3. PRELIMINARY INSPECTION Perform basic inspection. 2. Check all tire pressures. Refer to WT-98, "Tire". Check the low tire pressure warning lamp for illumination or blinking. Refer to WT-79, "Symptom Table". Is the malfunction corrected? >> INSPECTION END YES NO >> GO TO 4. 4. PERFORM SELF-DIAGNOSIS Perform self-diagnosis. Record any DTCs and data displayed on CONSULT-III. Perform inspection according to the displayed DTC. Refer to WT-77, "DTC Index". Is the causal factor identified from DTC? YES >> GO TO 6. K NO >> GO TO 5. $\mathbf{5}.$ CHECK SYMPTOM Perform troubleshooting by symptom. Refer to WT-79, "Symptom Table". Is the causal factor identified? YES >> GO TO 6. M NO >> GO TO 4. $oldsymbol{6}.$ REPAIR OR REPLACE MULFUNCTIONING PARTS Repair or replace the applicable part. >> GO TO 7. 7.CHECK SELF-DIAGNOSIS RESULT Erase DTCs. Refer to WT-11, "AIR PRESSURE MONITOR: Diagnosis Description". 2. Perform self-diagnosis again. Р Is any DTC displayed? YES >> GO TO 4. >> GO TO 8. NO 8. FINAL CHECK 1. Perform a cruise test.

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Check the warning lamp for illumination or blinking.

### **DIAGNOSIS AND REPAIR WORKFLOW**

### < BASIC INSPECTION >

Is the malfunction corrected?

YES >> INSPECTION END

NO >> GO TO 4.

# INSPECTION AND ADJUSTMENT TRANSMITTER WAKE UP OPERATION

### TRANSMITTER WAKE UP OPERATION: Description

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

### TRANSMITTER WAKE UP OPERATION: Special Repair Requirement

INFOID:0000000001911050

### 1.TRANSMITTER WAKE UP OPERATION

1. With the activation tool (J-45295) pushed against the front-left transmitter, press and hold the button 5 seconds.



When ignition switch ON, as the low tire pressure warning lamp blinks per the follow diagram, the respective transmitter then must be woken up.

Low tire pressure warning lamp blinking timing		Activation tire position
ON a b	a:0.3 sec. b:1.3 sec.	Front LH
ON a a b	a:0.3 sec. b:1.3 sec.	Front RH
ON a a a a b	a:0.3 sec. b:1.3 sec.	Rear RH
ON a a a a a b	a:0.3 sec. b:1.3 sec.	Rear LH
ON a b	a:2 sec. b:0.2 sec.	All tires

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- 3. Register the ID of wheel that low tire pressure warning lamp blinks. When wake up of registered wheel has been completed, turn signal lamp blinks two times.
- After completing wake up all transmitters, check that the low tire pressure warning lamp goes out.
  - >> Perform ID registration procedure. Refer to <u>WT-5, "ID REGISTRATION PROCEDURE : Special Repair Requirement"</u>.

### ID REGISTRATION PROCEDURE

### ID REGISTRATION PROCEDURE: Description

INFOID:0000000001911051

This procedure must be done after replacing or rotating wheels, replacing transmitter or BCM.

### ID REGISTRATION PROCEDURE: Special Repair Requirement

INFOID:0000000001911052

## 1.ID REGISTRATION PREPARATION

1. Touch "WORK SUPPORT" on "SELECT DIAG MODE" screen, and select "ID REGIST". Is the transmitter activation tool used for ID registration?

#### INSPECTION AND ADJUSTMENT

#### < BASIC INSPECTION >

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

## 2.ID REGISTRATION (WITH TRANSMITTER ACTIVATION TOOL)

- 1. With the transmitter activation tool (J-45295) pushed against the front-left transmitter position of the air valve, press and hold the button for 5 seconds.
- 2. Register the IDs in order from FR LH, FR RH, RR RH, to RR LH.

When ID registration of each wheel has been completed, turn signal lamp blinks.

	Activation tire position	Turn signal lamp	CONSULT-III
1	Front LH		
2	Front RH	2 times blinks	"Red"
3	Rear RH		"Green"
4	Rear LH		

3. After completing all ID registrations, press "END" to complete the procedure.

#### NOTE:

Be sure to register the IDs in order from FR LH, FR RH, RR RH, to RR LH, or the self-diagnostic results display will not function properly.

#### Can ID registration of all transmitters be completed?

YES >> ID registration END

NO >> Inspect the tire pressure monitoring system. Refer to WT-17, "Diagnosis Procedure".

### 3.ID REGISTRATION (WITHOUT TRANSMITTER ACTIVATION TOOL)

1. Adjust the tire pressure to the values shown in the table below for ID registration, and drive the vehicle at 40 km/h (25 MPH) or more for several minutes.

#### NOTE:

If ID registration is unable, buzzer beeps.

Tire position	Tire pressure kPa (kg/cm², psi)
Front LH	240 (2.4, 34)
Front RH	220 (2.2, 31)
Rear RH	200 (2.0, 29)
Rear LH	180 (1.8, 26)

2. After completing all ID registrations, press "END" to complete procedure.

Activation tire position	CONSULT-III
Front LH	
Front RH	"Red"
Rear RH	"Green"
Rear LH	

3. Inflate all tires to proper pressure. Refer to WT-98. "Tire".

#### Can ID registration of all transmitters be completed?

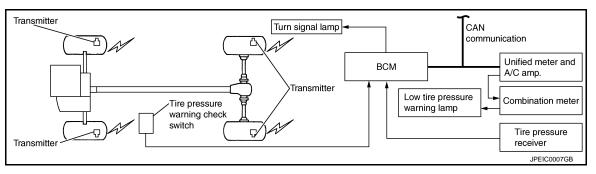
YES >> ID registration END

NO >> Inspect the tire pressure monitoring system. Refer to <u>WT-17</u>, "<u>Diagnosis Procedure</u>".

## SYSTEM DESCRIPTION

### **TPMS**

System Diagram



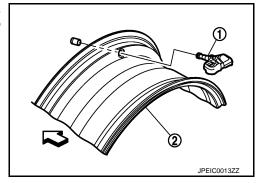
### System Description

#### DISCRIPTION

During driving, the TPMS (Tire Pressure Monitoring System) receives the signal transmitted from transmitter installed in each wheel, when the tire pressure becomes low. 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 combination meter comes on.

#### TRANSMITTER

A sensor-transmitter (1) integrated with a valve is installed on a wheel (2), and transmits a detected air pressure signal by radio wave.



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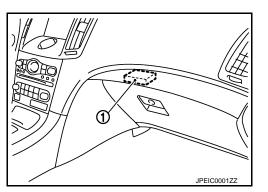
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#### TIRE PRESSURE RECEIVER

The tire pressure receiver (1) receives the air pressure signal transmitted by the transmitter in each wheel.

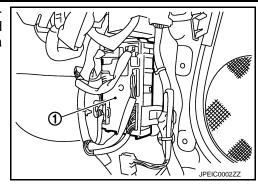


**BCM (BODY CONTROL MODULE)** 

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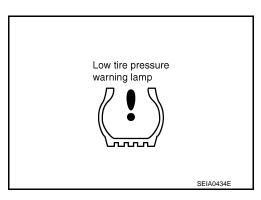
#### < SYSTEM DESCRIPTION >

The BCM (1) 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.



#### LOW TIRE PRESSURE WARNING LAMP

The unified meter and A/C amp. receives tire pressure status from the BCM using CAN communication. When BCM judges from a transmitter signal that tire pressure is insufficient, BCM transmits a signal to unified meter and A/C amp. through CAN communication. unified meter and A/C amp. turns on the low tire pressure warning lamp mounted on the Combination meter.



Low tire pressure warning lamp indication

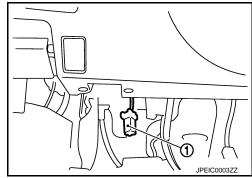
Condition	Low tire pressure warning lamp
Less than 182.7 kPa (1.9 kg/cm <sup>2</sup> , 26 psi) [NOTE]	ON
Low tire pressure warning system malfunction [Other diagnostic item]	Warning lamp blinks 1 min, then turns ON.

NOTE: Standard air pressure is for 230 kPa (2.3 kg/cm<sup>2</sup>, 33 psi) vehicles.

#### TIRE PRESSURE WARNING CHECK SWITCH

The following item can be checked by grounding the tire pressure warning check switch (1) harness connector terminal.

• The low tire pressure warning lamp in the combination meter will blinks according to the self-diagnostic results.



## **Component Parts Location**

**©** <u>(A)</u> © €

- Transmitter
- Tire pressure warning check switch
- A.
- Behind instrument lower panel D. (driver side)
- 2. **BCM**
- 5. Low tire pressure warning lamp
- Dash side lower (passenger side)
- E. Inside combination meter
- Tire pressure receiver
- Unified meter and A/C amp.
- C. Upper instrument assist lower panel
- Behind cluster lid C

### **Component Description**

INFOID:0000000001911056

Component parts	Function
BCM (Body Control Module)	WT-32, "Description".
Transmitter	WT-17, "Description".
Tire pressure receiver	WT-41, "Description".
Tire pressure warning check switch	WT-43, "Description".
Turn signal lamp	ID registration of each wheel has been completed, turn signal lamp flashes.
Combination meter	Controls a low tire pressure warning lamp, turn signal lamp, and buzzer by signals from the unified meter and A/C amp.
Low tire pressure warning lamp	Illuminates if malfunction is detected in electrical system of TPMS.
Unified meter and A/C amp.	Transmits the vehicle speed signal via CAN communication to BCM. Receives the tire pressure signal via CAN communication to BCM.

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### **DIAGNOSIS SYSTEM (BCM)**

#### < SYSTEM DESCRIPTION >

### **DIAGNOSIS SYSTEM (BCM)**

**COMMON ITEM** 

COMMON ITEM: CONSULT-III Function (BCM - COMMON ITEM)

INFOID:0000000003088396

#### APPLICATION ITEM

CONSULT-III 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. Refer to CONSULT-III operation manual.
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

Custom	Sub system selection item	Diagnosis mode			
System		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	×	×	×	
Wiper and washer	WIPER	×	×	×	
Turn signal and hazard warning lamps	FLASHER	×	×	×	
_	AIR CONDITONER*		×		
Intelligent Key system	INTELLIGENT KEY	×	×	×	
Combination switch	COMB SW		×		
Body control system	BCM	×			
IVIS - NATS	IMMU		×	×	
Interior room lamp battery saver	BATTERY SAVER	×	×	×	
Trunk open	TRUNK		×		
Vehicle security system	THEFT ALM	×	×	×	
RAP system	RETAINED PWR		×		
Signal buffer system	SIGNAL BUFFER		×	×	
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×	

<sup>\*:</sup> This item is displayed, but is not used.

#### FREEZE FRAME DATA (FFD) AND IGN COUNTER

Freeze Frame Data

The BCM records the following condition at the moment a particular DTC is detected.

- Vehicle Speed
- Odo/Trip Meter

### **DIAGNOSIS SYSTEM (BCM)**

#### < SYSTEM DESCRIPTION >

Vehicle Condition (BCM detected condition)

CONSULT screen terms	Description
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	While turning power supply position from "ACC" to "OFF"
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" (Ignition switch OFF with steering is locked.)
OFF	Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)
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

IGN counter indicates 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  $\rightarrow$  2  $\rightarrow$  3...38  $\rightarrow$  39 after returning to the normal condition whenever ignition switch OFF  $\rightarrow$  ON.
- The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

#### AIR PRESSURE MONITOR

### AIR PRESSURE MONITOR: Diagnosis Description

#### DESCRIPTION

During driving, the TPMS receives the signal transmitted from the transmitter installed in each wheel, when the tire pressure becomes low. The control unit (BCM) of this system has pressure judgment and trouble diagnosis functions.

When the TPMS detects low inflation pressure or another unusual symptom, the low tire pressure warning lamps in the combination meter comes on.

#### SELF DIAGNOSTIC PROCEDURE (WITH CONSULT-III)

#### (P) With CONSULT-III

Touch "SELF-DIAG RESULT" display shows malfunction experienced since the last erasing operation. Refer to WT-77, "DTC Index".

#### SELF DIAGNOSTIC PROCEDURE (WITHOUT CONSULT-III)

#### Without CONSULT-III

To start the self-diagnostic results mode, ground terminal of the tire pressure warning check connector. The malfunction location is indicated by the low tire pressure warning lamp blinking.

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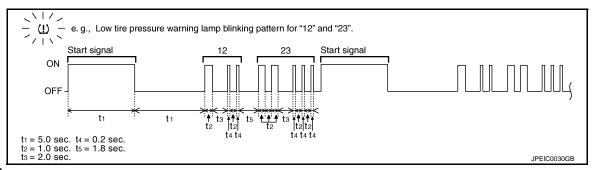
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NOTE:

When the low tire pressure warning lamp blinks 5 Hz and continues repeating it, the system is normal.

Blinking pattern	Items	Diagnostic items detected when		
15	Tire pressure value (Front LH)	Front LH tire pressure drops to 182.7 kPa (1.9 kg/cm², 26 psi) or less.		
16	Tire pressure value (Front RH)	Front RH tire pressure drops to 182.7 kPa (1.9 kg/cm <sup>2</sup> , 26 psi) or less.		
17	Tire pressure value (Rear RH)	Rear RH tire pressure drops to 182.7 kPa (1.9 kg/cm², 26 psi) or less.	_	
18	Tire pressure value (Rear LH)	Rear LH tire pressure drops to 182.7 kPa (1.9 kg/cm <sup>2</sup> , 26 psi) or less.	=	
21	Transmitter no data (Front LH)	Data from front LH transmitter can not be receive.		
22	Transmitter no data (Front RH)	Data from front RH transmitter can not be receive.	W/T 47	
23	Transmitter no data (Rear RH)	Data from Rear RH transmitter can not be receive.	<u>WT-17</u>	
24	Transmitter no data (Rear LH)	Data from Rear LH transmitter can not be receive.		
31	Transmitter checksum error (Front LH)	Checksum data from front LH transmitter is malfunctioning.		
32	Transmitter checksum error (Front RH)	Checksum data from front RH transmitter is malfunctioning.	W.T. 00	
33	Transmitter checksum error (Rear RH)	Checksum data from rear RH transmitter is malfunctioning.	- <u>WT-20</u>	
34	Transmitter checksum error (Rear LH)	Checksum data from rear RH transmitter is malfunctioning.		
35	Transmitter pressure data error (Front LH)	Air pressure data from front LH transmitter is malfunction.		
36	Transmitter pressure data error (Front RH)	Air pressure data from front RH transmitter is malfunction.	) N/T 00	
37	Transmitter pressure data error (Rear RH)	Air pressure data from rear RH transmitter is malfunction.	- <u>WT-23</u>	
38	Transmitter pressure data error (Rear LH)	Air pressure data from rear LH transmitter is malfunction.		
41	Transmitter function code error (Front LH)	Function code data from front LH transmitter is malfunction.		
42	Transmitter function code error (Front RH)	Function code data from front RH transmitter is malfunction.	NA/T OF	
43	Transmitter function code error (Rear RH)	Function code data from rear RH transmitter is malfunction.	- <u>WT-25</u>	
44	Transmitter function code error (Rear LH)	Function code data from rear LH transmitter is malfunction.		

### **DIAGNOSIS SYSTEM (BCM)**

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#### < SYSTEM DESCRIPTION >

Blinking pattern	Items	Diagnostic items detected when	Check item
45	Transmitter battery voltage low (Front LH)	Battery voltage of front LH transmitter drops.	
46	Transmitter battery voltage low (Front RH)	Battery voltage of front RH transmitter drops.	WT-28
47	Transmitter battery voltage low (Rear RH)	Battery voltage of rear RH transmitter drops.	<u>VV1-20</u>
48	Transmitter battery voltage low (Rear LH)	Battery voltage of rear LH transmitter drops.	
52	Vehicle speed signal error	Speed signal is not detected.	<u>WT-31</u>
53	BCM failure about TPMS	Tire pressure monitoring system malfunction in BCM	<u>WT-32</u>
No blinking	Tire pressure warning check switch	Tire pressure warning switch circuit is open.	_

#### NOTE:

Standard air pressure is for 230 kPa (2.3 kg/cm<sup>2</sup>,33 psi) vehicles.

#### **ERASE SELF-DIAGNOSIS**

#### (P)With CONSULT-III

- Perform applicable inspection of malfunctioning item and then repair or replace.
- CONSULT-III.

- stored into the control unit as necessary during use by the user. This memory is not erased no matter how many times the ignition switch is turned "ON" and "OFF".
- erasing the memory using the CONSULT-III.

### AIR PRESSURE MONITOR: CONSULT-III Function (BCM - AIR PRESSURE MONI-TOR)

ID Read

**ID** Regist

NOTE:

### **DIAGNOSIS SYSTEM (BCM)**

### < SYSTEM DESCRIPTION >

isplay item list Monitor	Condition	Specification	
AIR PRESS FL AIR PRESS FR AIR PRESS RR AIR PRESS RL	Drive vehicle for a few minutes.     or     Ignition switch ON and activation tool is transmitting activation signals.	Tire pressure (kPa or Psi)	
D REGST FL D REGST FR D REGST RR D REGST RL		Registration ID : Green No registration : Red	
WARNING LAMP	Ignition switch ON	Low tire pressure warning lamp on: ON Low tire pressure warning lamp off: OFF	
BUZZER		Buzzer in combination meter on: ON Buzzer in combination meter off: OFF	

#### NOTE:

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

#### **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-III.

#### **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.	
RUN FLAT/T WARN BUZZER	This test is able to check to check that the buzzer sounds.	
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.	

### C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

### DTC/CIRCUIT DIAGNOSIS

### C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

Description INFOID:0000000001911060

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:0000000001911061

#### DTC DETECTION LOGIC

DTC num- ber	Trouble diagnosis name	DTC detecting condition	Possible cause
C1704	LOW PRESSURE FL	Front LH tire pressure drops to 182.7 kPa (1.9 kg/cm <sup>2</sup> , 26 psi) or less.	
C1705	LOW PRESSURE FR	Front RH tire pressure drops to 182.7 kPa (1.9 kg/cm², 26 psi) or less.	Tire pressure is low
C1706	LOW PRESSURE RR	Rear RH tire pressure drops to 182.7 kPa (1.9 kg/cm <sup>2</sup> , 26 psi) or less.	The pressure is low
C1707	LOW PRESSURE RL	Rear LH tire pressure drops to 182.7 kPa (1.9 kg/cm <sup>2</sup> , 26 psi) or less.	

#### DTC CONFIRMATION PROCEDURE

### 1.CHECK ID REGISTRATION AND VEHICLE DRIVING

#### (P)With CONSULT-III

Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressure with CONSULT-III "DATA MONITOR" within 5 minutes.

Monitored item	Condition	Display value
AIR PRESS FL		
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH) or more for	Approximately equal to the indication on vehicle
AIR PRESS RR	several minutes.	information display.
AIR PRESS RL		

#### Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

>> Go to diagnosis procedure. Refer to WT-15, "Diagnosis Procedure".

### Diagnosis Procedure

### 1.ADJUST TIRE AIR PRESSURE

- Adjust all tire air pressures. Refer to WT-98, "Tire".
- Check all tire air pressures.

#### Does all tire pressure data meet the specification?

YES >> GO TO 2.

NO >> Inspect or replace the tire or wheels and adjust the tire pressure to the specification.

### 2.CHECK AIR PRESSURE SIGNAL

Drive at a speed of 40 km/h (25 MPH) or more 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressure with CONSULT-III "DATA MONITOR" within 5 minutes.

Monitored item	Condition	Display value
AIR PRESS FL		
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH) or more for	Approximately equal to the indication on vehicle
AIR PRESS RR	several minutes.	information display.
AIR PRESS RL		

**WT-15** Revision: 2008 September 2008 G35 Sedan Α

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INFOID:0000000001911062

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## C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

### < DTC/CIRCUIT DIAGNOSIS >

Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Inspect or replace the tire or wheels. Refer to WT-90, "Service Notice or Precautions".

### C1708, C1709, C1710, C1711 TRANSMITTER (NO DATA)

#### < DTC/CIRCUIT DIAGNOSIS >

### C1708, C1709, C1710, C1711 TRANSMITTER (NO DATA)

Description INFOID:0000000001911063

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

**DTC Logic** INFOID:0000000001911064

#### DTC DETECTION LOGIC

DTC number	Trouble diagnosis name	DTC detecting condition	Possible cause
C1708	[NO DATA] FL	Data from front-LH transmitter can not receive.	Harness or connector
C1709	[NO DATA] FR	Data from front-RH transmitter can not receive.	(Tire pressure receiver, BCM)
C1710	[NO DATA] RR	Data from rear-RH transmitter can not receive.	ID registration is not finished     Transmitter malfunction
C1711	[NO DATA] RL	Data from rear-LH transmitter can not receive.	- Hansimilei manunciion

#### DTC CONFIRMATION PROCEDURE

### ${f 1}$ .CHECK ID REGISTRATION AND VEHICLE DRIVING

#### (P)With CONSULT-III

- Perform ID registration of all transmitters. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".
- Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressure with CONSULT-III "DATA MONITOR" within 5 minutes.

Monitored item	Condition	Display value
AIR PRESS FL		
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH) or more for	Approximately equal to the indication on vehicle
AIR PRESS RR	several minutes.	information display.
AIR PRESS RL		

#### Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

>> Go to diagnosis procedure. Refer to WT-17, "Diagnosis Procedure". NO

### Diagnosis Procedure

### 1. CHECK AIR PRESSURE SIGNAL

#### (P)With CONSULT-III

- Start engine
- Select "DATA MONITOR" mode for "AIR PRESSURE MONITOR" with CONSULT-III.
- Read out the value of "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR", "AIR PRESS RL".

Monitored item	Condition	Display value
AIR PRESS FL		
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH) or more for several	Approximately equal to the indication on
AIR PRESS RR	minutes.	vehicle information display.
AIR PRESS RL		

#### Are all tire pressures displayed 0 kPa?

YES >> GO TO 2.

NO >> GO TO 4.

### 2.CHECK HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

Turn ignition switch "OFF".

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INFOID:0000000001911065

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### C1708, C1709, C1710, C1711 TRANSMITTER (NO DATA)

#### < DTC/CIRCUIT DIAGNOSIS >

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

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

Also check harness for short to ground and short to power.

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

### 3. CHECK TIRE PRESSURE RECEIVER

Check tire pressure receiver. Refer to WT-41, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> Check BCM pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damage parts.

NO >> Replace the tire pressure receiver.

### 4. CHECK ID REGISTRATION

Perform ID registration of all transmitters. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".

#### Can ID registration of all transmitters be completed?

YES >> GO TO 5.

NO >> Replace malfunctioning transmitter, then GO TO 6.

### ${f 5}$ .CHECK TIRE PRESSURE MONITORING SYSTEM

#### (P)With CONSULT-III

- 1. Drive at a speed 40 km/h (25 MPH) or more for several minutes without stopping.
- Check all tire pressures with CONSULT-III "DATA MONITOR" within 15 minutes after vehicle speed becomes 17 km/h (11 MPH).

#### Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Replace BCM. Refer to BCS-80. "Removal and Installation".

### **6.**CHECK ID REGISTRATION

#### (P) With CONSULT-III

- 1. Perform ID registration of all transmitters. Refer to WT-5, "ID REGISTRATION PROCEDURE : Special Repair Requirement".
- 2. Drive at a speed 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-III "DATA MONITOR" within 5 minutes.

#### Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Perform the self-diagnosis, inspect detected malfunction.

### Special Repair Requirement

INFOID:0000000001911066

### 1.CHECK TIRE AIR PRESSURE

Check all tire air pressures. Refer to WT-98, "Tire".

#### Does all tire pressure data meet the specification?

YES >> GO TO 2

NO >> Inspect or repair the tires or wheels and adjust the tire pressure to the specification.

### 2. PERFORM ID REGISTRATION

### C1708, C1709, C1710, C1711 TRANSMITTER (NO DATA)

### < DTC/CIRCUIT DIAGNOSIS >

Perform ID registration. Refer to <u>WT-5</u>, "ID REGISTRATION PROCEDURE: Special Repair Requirement". Can ID registration of all transmitters be completed?

YES >> END

NO >> GO TO 1.

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### C1712, C1713, C1714, C1715 TRANSMITTER (CHECKSUM)

#### < DTC/CIRCUIT DIAGNOSIS >

### C1712, C1713, C1714, C1715 TRANSMITTER (CHECKSUM)

Description INFOID:000000001911067

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

DTC Logic

#### DTC DETECTION LOGIC

DTC	Trouble diagnosis name	DTC detecting condition	Possible case
C1712	[CHECKSUM ERR] FL	Checksum data from front-LH transmitter is malfunction.	Tire pressure receiver malfunc-
C1713	[CHECKSUM ERR] FR	Checksum data from front-RH transmitter is malfunction.	tion
C1714	[CHECKSUM ERR] RR	Checksum data from rear-RH transmitter is malfunction.	Transmitter malfunction     BCM malfunction
C1715	[CHECKSUM ERR] RL	Checksum data from rear-LH transmitter is malfunction.	DOWN MANUFICTION

#### DTC CONFIRMATION PROCEDURE

### 1. VEHICLE DRIVING

#### (A) With CONSULT-III

- 1. Driving at a speed 40 km/h (25 MPH) or more for 3 minutes, and then driving the vehicle at any speed for 10 minutes.
- Check all tire pressure with CONSULT-III "DATA MONITOR" within 5 minutes.

Monitored item	Condition	Display value
AIR PRESS FL		
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH) or more for	Approximately equal to the indication on vehicle
AIR PRESS RR	several minutes.	information display.
AIR PRESS RL		

#### Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Go to diagnosis procedure. Refer to <u>WT-20, "Diagnosis Procedure"</u>.

### Diagnosis Procedure

INFOID:0000000001911069

### 1. CHECK ID REGISTRATION

#### (P)With CONSULT-III

- 1. Perform the ID registration of all transmitters. Refer to <u>WT-5</u>, "ID REGISTRATION PROCEDURE: Special Repair Requirement".
- Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressure with CONSULT-III "DATA MONITOR" within 5 minutes.

### Can ID registration of all transmitters be completed?

YES >> GO TO 6.

NO >> GO TO 2.

### 2.CHECK AIR PRESSURE SIGNAL

#### (II) With CONSULT-III

- Start engine.
- Select "DATA MONITOR" mode for "AIR PRESSURE MONITOR" with CONSULT-III.
- 3. Read out the value of "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR" and "AIR PRESS RL".

### C1712, C1713, C1714, C1715 TRANSMITTER (CHECKSUM)

#### < DTC/CIRCUIT DIAGNOSIS >

Monitored item	Condition	Display value	
AIR PRESS FL			
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH) or more for	Approximately equal to the indication on vehicle	
AIR PRESS RR	several minutes.	information display	
AIR PRESS RL			

#### Are all tire pressures displayed 0 kPa?

YES >> GO TO 3. NO >> GO TO 5.

### 3.CHECK HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

- Turn ignition switch "OFF".
- Disconnect BCM harness connector and tire pressure receiver harness connector. 2.
- Check continuity between BCM harness connector and tire pressure receiver harness connector.

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

Also check harness for short to ground and short to power.

#### 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-41, "Diagnosis Procedure".

#### Is the inspection result normal?

>> Check BCM pin terminals for damage or loose connection with harness connector. If any items YES are damaged, repair or replace damaged parts.

NO >> Replace the tire pressure receiver.

### 5 . CHECK ID REDGISTRATION

Perform ID registration of all transmitters. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".

#### Can ID registration of all transmitters be completed?

YES >> GO TO 6.

NO >> GO TO 7 after malfunctioning transmitter replacement.

### $oldsymbol{6}.$ CHECK TIRE PRESSURE MONITORING SYSTEM

#### (P)With CONSULT-III

Drive at a speed of 40 km/h (25 MPH) or more for several minutes without stopping.

Check all tire pressure with CONSULT-III "DATA MONITOR" within 15 minutes after vehicle speed becomes 17 km/h (11 MPH).

#### Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Replace BCM. Refer to BCS-80, "Removal and Installation".

### 7.CHECK ID REGISTRATION

#### (P)With CONSULT-III

- Perform ID registration of all transmitters. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".
- Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressure with CONSULT-III "DATA MONITOR" within 5 minutes.

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### C1712, C1713, C1714, C1715 TRANSMITTER (CHECKSUM)

#### < DTC/CIRCUIT DIAGNOSIS >

Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> GO TO 2.

### Special Repair Requirement

INFOID:0000000001911070

### 1. CHECK TIRE AIR PRESSURE

Check all tire air pressures. Refer to WT-98, "Tire".

Does all tire pressure data meet the specification?

YES >> GO TO 2.

NO >> Inspect or repair the tires or wheels and adjust the tire pressure to the specification.

### 2. PERFORM ID REGISTRATION

Perform ID registration. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".

Can ID registration of all transmitters be completed?

YES >> END

NO >> GO TO 1.

### C1716, C1717, C1718, C1719 TRANSMITTER (PRESSDATA)

#### < DTC/CIRCUIT DIAGNOSIS >

### C1716, C1717, C1718, C1719 TRANSMITTER (PRESSDATA)

Description INFOID:000000001911071

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INFOID:0000000001911073

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

DTC Logic

#### DTC DETECTION LOGIC

DTC number	Trouble diagnosis name	DTC detecting condition	Possible case
C1716	[PRESSDATA ERR] FL	Air pressure data from front-LH transmitter malfunction	
C1717	[PRESSDATA ERR] FR	Air pressure data from front-RH transmitter malfunction	ID registration is not fin- ished
C1718	[PRESSDATA ERR] RR	Air pressure data from rear-RH transmitter malfunction	Transmitter malfunction
C1719	[PRESSDATA ERR] RL	Air pressure data from rear-LH transmitter malfunction	

#### DTC CONFIRMATION PROCEDURE

### 1. VEHICLE DRIVING

(P)With CONSULT-III

1. Drive at a speed 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressure with CONSULT-III "DATA MONITOR" within 5 minutes.

Monitored item	Condition	Display value
AIR PRESS FL		
AIR PRESS FR	Start engine and drive at 40 km/h (25MPH) or more for	Approximately equal to the indication on vehi-
AIR PRESS RR	several minutes.	cle information display.
AIR PRESS RL		

#### Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Go to Diagnosis procedure. Refer to WT-23, "Diagnosis Procedure".

### Diagnosis Procedure

### 1. CHECK TIRE PRESSURE

#### (P)With CONSULT-III

- Adjust tire pressure to specified value. Refer to <u>WT-98, "Tire"</u>.
- 2. Perform the ID registration of all transmitters. Refer to <u>WT-5, "ID REGISTRATION PROCEDURE : Special Repair Requirement"</u>.
- 3. Drive at a speed of 40 km/h (25 MPH) or more for several minutes without stopping.
- 4. Check all tire pressure with CONSULT-III "DATA MONITOR" within 15 minutes after vehicle speed become 17 km/h (11 MPH).

Monitored item	Condition	Display value
AIR PRESS FL		
AIR PRESS FL	Start engine and drive at 40 km/h (25 MPH) or more for	Approximately equal to the indication on
AIR PRESS FL	, ,	vehicle information display.
AIR PRESS FL		

### Is tire pressure indicated as 438.60 kPa (4.47kg/cm<sup>2</sup>, 63.60 psi) on the "DATA MONITOR" screen?

YES >> Replace malfunctioning transmitter.

NO >> GO TO 2.

### C1716, C1717, C1718, C1719 TRANSMITTER (PRESSDATA)

#### < DTC/CIRCUIT DIAGNOSIS >

## 2.check tire pressure monitoring system

#### (II) With CONSULT-III

- Perform the ID registration of all transmitters. Refer to <u>WT-5</u>, "ID REGISTRATION PROCEDURE: Special Repair Requirement".
- Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-III "DATA MONITOR" within 5 minutes.

#### Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Perform the self-diagnosis, inspect detected malfunction. Refer to <u>WT-11, "AIR PRESSURE MONITOR: Diagnosis Description"</u>.

### Component Inspection

INFOID:0000000001911074

### 1. CHECK TRANSMITTER

#### (II) With CONSULT-III

- 1. Adjust tire pressure to specified value. Refer to WT-98, "Tire".
- Perform ID registration of all transmitters. Refer to <u>WT-5</u>, "ID REGISTRATION PROCEDURE: Special Repair Requirement".
- 3. Drive at a 40 km/h (25 MPH) or more for several minutes without stopping.
- Check all tire pressure with CONSULT-III "DATA MONITOR" within 15 minutes after vehicle speed become 17 km/h (11 MPH).

#### Is tire pressure indicated as 438.60 kPa (4.47 kg/cm<sup>2</sup>, 63.60 psi) on the "DATA MONITOR" screen?

YES >> Replace malfunctioning transmitter.

NO >> Check BCM and tire pressure receiver.

### Special Repair Requirement

INFOID:0000000001911075

### 1. CHECK TIRE AIR PRESSURE

Check all tire air pressures. Refer to WT-98, "Tire".

Does all tire pressure data meet the specification?

YES >> GO TO 2.

NO >> Inspect or repair the tires or wheels and adjust the tire pressure to the specification.

### 2.PERFORM ID REGISTRATION

Perform ID registration. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".

Can ID registration of all transmitters be completed?

YES >> END

NO >> GO TO 1.

### C1720, C1721, C1722, C1723 TRANSMITTER (CODE)

#### < DTC/CIRCUIT DIAGNOSIS >

### C1720, C1721, C1722, C1723 TRANSMITTER (CODE)

Description INFOID:0000000001911076

A sensor-transmitter integrated with a valve is installed on a wheel, and detected air pressure signal by radio wave.

DTC Logic

#### DTC DETECTION LOGIC

DTC number	Trouble diagnosis name	DTC detecting condition	Possible case
C1720	[CODE ERR] FL	function code data from front-LH transmitter is malfunction.	Tire pressure receiver mal-
C1721	[CODE ERR] FR	function code data from front-RH transmitter is malfunction.	function
C1722	[CODE ERR] RR	function code data from rear-RH transmitter is malfunction.	<ul><li>Transmitter malfunction</li><li>BCM malfunction</li></ul>
C1723	[CODE ERR] RL	function code data from rear-LH transmitter is malfunction.	BOW Manufiction

#### DTC CONFIRMATION PROCEDURE

### 1. VEHICLE DRIVING

(II) With CONSULT-III

- 1. Driving at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.
- Check all tire pressure with CONSULT-III "DATA MONITOR" within 5 minutes.

Monitored item	Condition	Display value
AIR PRESS FL		
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH) or more for	Approximately equal to the indication on vehicle
AIR PRESS RR	, ,	information display.
AIR PRESS RL		

#### Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Go to diagnosis procedure. Refer to WT-25, "Diagnosis Procedure".

### Diagnosis Procedure

### 1. CHECK ID REGISTRATION

(P)With CONSULT-III

- 1. Perform the ID registration of all transmitters. Refer to WT-5, "ID REGISTRATION PROCEDURE : Special Repair Requirement".
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressure with CONSULT-III "DATA MONITOR" within 5 minutes.

#### Can ID registration of all transmitters be completed?

YES >> GO TO 6.

NO >> GO TO 2.

### 2. CHECK ALL TIRE PRESSURE SIGNAL

### (P) With CONSULT-III

- 1. Start engine.
- Select "DATA MONITOR" mode for "AIR PRESSUR MONITOR" with CONSULT-III.
- 3. Read out the value of "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR" and "AIR PRESS RL".

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INFOID:0000000001911078

### C1720, C1721, C1722, C1723 TRANSMITTER (CODE)

#### < DTC/CIRCUIT DIAGNOSIS >

Monitored item	Condition	Display value
AIR PRESS FL		
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH) or more for several	Approximately equal to the indication on
AIR PRESS RR	minutes.	vehicle information display.
AIR PRESS RL		

#### Are all tire pressure displayed 0 kPa?

YES >> GO TO 3. NO >> GO TO 5.

## $3. \mathsf{CHECK}$ HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

- 1. Turn ignition switch "OFF".
- 2. Disconnect BCM harness connector and tire pressure receiver harness connector.
- 3. Check continuity between BCM harness connector and tire pressure receiver harness connector.

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

Also check harness for short to ground and short to power.

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace damage parts.

### 4. CHECK TIRE PRESSURE RECEIVER

Check tire pressure receiver. Refer to WT-41, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> Check BCM pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damaged parts.

NO >> Replace the tire pressure receiver.

#### CHECK ID REGISTRATION

Perform ID registration of all transmitters. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".

#### Can ID registration of all transmitters be completed?

YES >> GO TO 6.

NO >> GO TO 7 after malfunctioning transmitter replacement.

#### 6. CHECK TIRE PRESSURE MONITORING SYSTEM

#### (P)With CONSULT-III

- 1. Drive at a speed of 40 km/h (25 MPH) or more for several minutes without stopping.
- Check all tire pressures with CONSULT-III "DATA MONITOR" within 15 minutes after vehicle speed become 17 km/h (11 MPH).

Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END.

NO >> Replace BCM. Refer to BCS-80, "Removal and Installation".

### 7. CHECK ID REGISTRATION

#### (P)With CONSULT-III

- 1. Perform ID registration of all transmitters. Refer to <u>WT-5, "ID REGISTRATION PROCEDURE : Special Repair Requirement"</u>.
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-III "DATA MONITOR" within 5 minutes.

### C1720, C1721, C1722, C1723 TRANSMITTER (CODE)

C1720, C1721, C1722, C1723 TRANSMITTER (CODE)	
< DTC/CIRCUIT DIAGNOSIS >	
Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp O	
YES >> INSPECTION END. NO >> GO TO 2.	А
Special Repair Requirement	11079 B
1. CHECK TIRE AIR PRESSURE	
Check all tire air pressures. Refer to WT-98, "Tire".	С
Does all tire pressure data meet the specification?	
YES >> GO TO 2.  NO >> Inspect or repair the tires or wheels and adjust the tire pressure to the specification.	_
2.PERFORM ID REGISTRATION	D
Perform ID registration. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".	
Can ID registration of all transmitters be completed?	WT
YES >> END	
NO >> GO TO 1.	F
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### C1724, C1725, C1726, C1727 TRANSMITTER (BATT VOLT)

#### < DTC/CIRCUIT DIAGNOSIS >

### C1724, C1725, C1726, C1727 TRANSMITTER (BATT VOLT)

Description INFOID:000000001911080

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

DTC Logic

#### DTC DETECTION LOGIC

DTC number	Trouble diagnosis name	DTC detecting condition	Possible case
C1724	[BATT VOLT LOW] FL	Battery voltage of front-LH transmitter drops.	Transmitter malfunction
C1725	[BATT VOLT LOW] FR	Battery voltage of front-RH transmitter drops.	Tire pressure receiver
C1726	[BATT VOLT LOW] RR	Battery voltage of rear-RH transmitter drops.	malfunction  • BCM malfunction
C1727	[BATT VOLT LOW] RL	Battery voltage of rear-LH transmitter drops.	• BOW Manufiction

#### DTC CONFIRMATION PROCEDURE

### 1. VEHICLE DRIVING

#### (P)With CONSULT-III

Driving at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed 10minutes. Then check all tire pressure with CONSULT-III "DATA MONITOR" within 5 minutes.

Monitored item	Condition	Display value
AIR PRESS FL		
AIR PRESS FL	Start engine and drive at 40 km/h (25 MPH) or more for	Approximately equal to the indication on vehicle in-
AIR PRESS FL	several minutes.	formation display.
AIR PRESS FL		

#### Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Go to diagnosis procedure. Refer to WT-28, "Diagnosis Procedure".

### Diagnosis Procedure

INFOID:0000000001911082

### 1. CHECK ID REGISTRATION

#### (P)With CONSULT-III

- 1. Perform the ID registration of all transmitters. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-III "DATA MONITOR" within 5 minutes.

### Can ID registration of all transmitters be completed?

YES >> GO TO 6.

NO >> GO TO 2.

### 2.CHECK AIR PRESSURE SIGNAL

#### (II) With CONSULT-III

- Start engine.
- Select "DATA MONITOR" mode for "AIR PRESSURE MONITOR" with CONSULT-III.
- 3. Read out the value of "AIR PRESS FL", "AIR PRESS FR", "AIR PRESS RR" and "AIR PRESS RL".

### C1724, C1725, C1726, C1727 TRANSMITTER (BATT VOLT)

#### < DTC/CIRCUIT DIAGNOSIS >

Monitored item	Condition	Display value
AIR PRESS FL		
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH) or more for	Approximately equal to the indication on vehicle in-
AIR PRESS RR	several minutes.	formation display
AIR PRESS RL		

#### Are all tire pressures displayed 0 kPa?

YES >> GO TO 3.

NO >> GO TO 5.

## 3.check harness between BCM and tire perssure receiver

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

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

Also check harness for short to ground and short to power.

#### 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-41, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> Check BCM pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damage parts.

NO >> Replace the tire pressure receiver.

#### CHECK ID REGISTRATION

Perform ID registration of all transmitters. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".

#### Can ID registration of all transmitters be completed?

YES >> GO TO 6.

NO >> GO TO 7 after malfunctioning transmitter replacement.

#### O.CHECK TIRE PRESSURE MONITORING SYSTEM

#### (P)With CONSULT-III

- 1. Drive at a speed for 40 km/h (25 MPH) or more several minutes without stopping.
- Check all tire pressure with CONSULT-III "DATA MONITOR" within 15 minutes after vehicle speed becomes 17 km/h (11 MPH).

Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YFS >> INSPECTION END

NO >> Replace BCM. Refer to BCS-80, "Removal and Installation".

#### .CHECK ID REGISTRATION

#### (P)With CONSULT-III

- Perform ID registration of all transmitters. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-III "DATA MONITOR" within 5 minutes.

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### C1724, C1725, C1726, C1727 TRANSMITTER (BATT VOLT)

#### < DTC/CIRCUIT DIAGNOSIS >

Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> GO TO 2.

### Special Repair Requirement

INFOID:0000000001911083

### 1. CHECK TIRE AIR PRESSURE

Check all tire air pressures. Refer to WT-98, "Tire".

Does all tire pressure data meet the specification?

YES >> GO TO 2.

NO >> Inspect or repair the tires or wheels and adjust the tire pressure to the specification.

### 2. PERFORM ID REGISTRATION

Perform ID registration. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".

Can ID registration of all transmitters be completed?

YES >> END

NO >> GO TO 1.

### **C1729 VEHICLE SPEED SIG ERR**

### < DTC/CIRCUIT DIAGNOSIS >

C1729 \	VEHICLE SPEE	D SIG ERR	A
Descripti	on		INFOID:000000001911084
BCM detec	ets no vehicle speed sig	nal.	В
DTC Log	jic		INFOID:000000001911085
DTC DET	ECTION LOGIC		С
DTC number	Trouble diagnosis name	DTC detecting condition	Possible case
C1729	VHCL SPEED SIG ERR	Vehicle speed signal error	CAN communication error     Unified meter and A/C amp. malfunction     Refer to HAC-106, "Diagnosis     Procedure".  WT
DTC CON	FIRMATION PROCE	DURE	F
1.VEHICL	E DRIVING		
Does "DAT	eed 40 km/h (25 MPH) <u>A MONITOR" displayed</u> > INSPECTION END	or more for several minutes without stopping.  d the standardized value without turning low predure.  edure. Refer to WT-31, "Diagnosis Procedure".	
	s Procedure	adio i toloi to <u>iii biagiloole i ioocaale</u>	INFOID:000000001911086
<b>1.</b> CHECK	SELF-DIAGNOSTIC F	RESULTS	I
2. Check	ELECT DIAG MODE", s display contents in self	_	J
	·	olayed in the self-diagnosis display? nosis for CAN communication system. Refer t	o LAN-19, "Trouble Diagnosis K
	Flow Chart".	and A/C amp. Refer to <u>MWI-81, "Reference Va</u>	-
	Repair Requireme	·	INFOID:000000001911087
<b>1.</b> CHECK	TIRE AIR PRESSURE		
Check all t	re air pressures. Refer	to <u>WT-98, "Tire"</u> .	M
YES >	e pressure data meet the  ONE  Inspect or repair the t	ne specification?  ires or wheels and adjust the tire pressure to t	N he specification.
_	RM ID REGISTRATION		
Perform ID	registration. Refer to V	VT-5, "ID REGISTRATION PROCEDURE : Sp	ecial Repair Requirement".
	istration of all transmitt	ers be completed?	
	> END > GO TO 1.		Р

### C1734 CONTROL UNIT

**Description** 

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.

DTC Logic

#### DTC DETECTION LOGIC

DTC number	Trouble diagnosis name	DTC detecting condition	Possible case
C1734	CONTROL UNIT	Tire pressure monitoring system in BCM is malfunctioning	BCM malfunction

#### DTC CONFIRMATION PROCEDURE

#### 1. VEHICLE DRIVING

#### (P)With CONSULT-III

- 1. Drive at a speed 40 km/h (25 MPH) or more for several minutes without stopping.
- 2. Check all tire pressures with CONSULT-III "DATA MONITOR" within 15 minutes after vehicle speed become 17 km/h (11 MPH).

Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> Go to diagnosis procedure. Refer to WT-32, "Diagnosis Procedure".

### Diagnosis Procedure

INFOID:0000000001911090

### 1. CHECK SELF-DIAGNOSTIC RESULTS

#### (P)With CONSULT-III

- 1. On "SELECT DIAG" mode, select the "SELF-DIAG RESULT" screen.
- Check display contents in self-diagnostic results.

#### Does self-diagnostic results indicate any malfunction?

YES >> Perform trouble diagnosis. Refer to WT-77, "DTC Index".

NO >> GO TO 2.

### $\mathbf{2}.$ CHECK POWER SUPPLY

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

(	+)	(–)	
В	CM		Voltage (Approx.)
Connector	Terminal	Ground	
M118	1	Ground	Battery voltage
M119	11		Dattery Voltage

#### Is the power supply normal?

YES >> GO TO 3.

NO >>

- >> Check the following. If any items are damaged, repair or replace damage parts.
  - 50A fusible link [No. M located in the fuse block]. Refer to <u>PG-95, "Fuse and Fusible Link Arrangement"</u>.
  - 10A fuse [No. 10 located in the fuse block (J/B)]. Refer to PG-94, "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 Battery voltage.

### 3.check ground circuit

#### C1734 CONTROL UNIT

#### < DTC/CIRCUIT DIAGNOSIS >

- Turn ignition switch "OFF".
- Disconnect BCM harness connector. 2.
- 3. Check continuity between BCM harness connector M119 terminal 13 and ground.
- 4. Also check harness for short to ground.

В	CM		Continuity
Connector	Terminal	Ground	Existed
M119	13		LAISIEU

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair open circuit or short to power in harness or connectors.

### f 4.CHECK HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

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

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

Also check harness for short to ground and short to power.

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace damaged parts.

### 5. CHECK BCM

Check BCM input/output signal. Refer to WT-44, "Reference Value".

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 6.

### 6.CHECK BCM HARNESS CONNECTOR

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

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-80, "Removal and Installation".

NO >> Repair or replace damaged parts.

### Special Repair Requirement

### 1. CHECK TIRE AIR PRESSURE

Check all tire air pressures. Refer to WT-98, "Tire".

#### Does all tire pressure data meet the specification?

YES >> GO TO 2.

NO >> Inspect or repair the tires or wheels and adjust the tire pressure to the specification.

#### 2. PERFORM ID REGISTRATION

Perform ID registration. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".

#### Can ID registration of all transmitters be completed?

YES >> END

NO >> GO TO 1. WT

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### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

# POWER SUPPLY AND GROUND CIRCUIT BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE): Diagnosis Procedure

INFOID:0000000003088264

### 1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Signal name	Fuse and fusible link No.
Battery power supply	M
battery power suppry	10

#### Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

### 2.CHECK POWER SUPPLY CIRCUIT

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

	+) CM	(-)	Voltage (V) (Approx.)
Connector	Terminal		
M118	1	Ground	Pottory voltage
M119	11	Giouna	Battery voltage

#### Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

## 3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector Terminal		Ground	Continuity
M119	13		Existed

#### Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

UNIFIED METER AND A/C AMP.

### UNIFIED METER AND A/C AMP. : Diagnosis Procedure

INFOID:0000000003088327

### 1.CHECK FUSE

Check for blown fuses.

Power source	Fuse No.
Battery	6
Ignition switch ACC or ON	19
Ignition switch ON or START	3

#### Is the inspection result normal?

### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 2.

NO >> Be sure to eliminate cause of malfunction before installing new fuse.

### 2. CHECK POWER SUPPLY CIRCUIT

Check voltage between unified meter and A/C amp. harness connector M67 terminals 54, 41, 53 and ground.

Terminal No.	Signal name	Ignition switch position	Value (Approx.)
54	Battery power supply	OFF	Battery voltage
41	ACC power supply	ACC	Battery voltage
53	Ignition signal	ON	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Check harness between unified meter and A/C amp. and fuse.

## 3. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect unified meter and A/C amp. connector.
- 3. Check continuity between unified meter and A/C amp. harness connector M67 terminals 55, 71 and ground.

55, 71 - Ground : Continuity should exist.

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair harness or connector.

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### **TPMS**

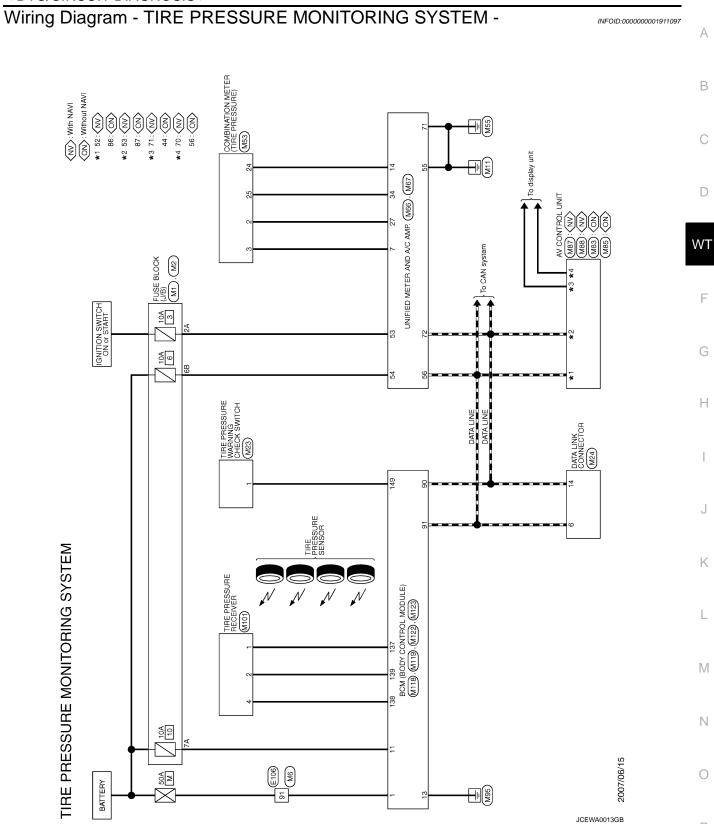
#### < DTC/CIRCUIT DIAGNOSIS >

### **TPMS**

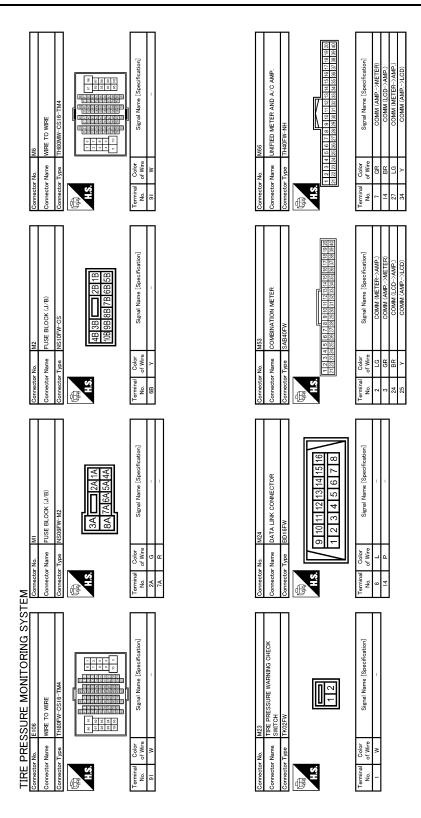
Description INFOID:000000001911096

During driving, the TPMS receives the signal transmitted from the transmitter installed in each wheel, when the tire pressure becomes low. The control unit (BCM) of this system has pressure judgment and trouble diagnosis functions.

When the TPMS detects low inflation pressure or another unusual symptom, the low tire pressure warning lamps in the combination meter comes on.



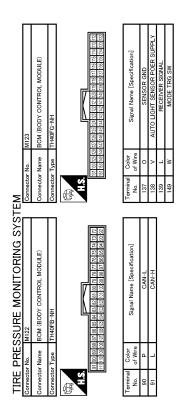
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Connector No.   M87	No. MI19 Name BCM (BODY CONT Type NS16FW-CS  4 5 6 7	B BY (CDSE)  C C C C C C C C C C C C C C C C C C C
M85	No. MITB  Name BOM (BODY CONTROL MODULE)  Type MAGFB-LC  Type MGSFB-LC  Color  Color  Signal Name [Specification]	WT G
Connector No.   M83   Connector No.   M83   Connector Name   AV CONTROL UNIT (WITHOUT NAVI)   Connector Type   TH24FW-NH	No. M101 The PRES Trype TrK04FW  Color of Wive	
E PRESSURE MONITORING SYS- toor Name  UNIFIED METER AND A/C AMP.  TOOT Type  TH32PW-NH  TH32PW-NH	Se	9.5
		JCEWA0015GB

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#### TIRE PRESSURE RECEIVER

#### < DTC/CIRCUIT DIAGNOSIS >

#### TIRE PRESSURE RECEIVER

Description INFOID:000000001911098

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

### Diagnosis Procedure

### 1. CHECK TIRE PRESSURE RECEIVER

- 1. Turn ignition OFF.
- 2. Check tire pressure receiver connector M101 terminal 2 and ground signal with oscilloscope.

Connector	Terr	ninal	Condition	Voltage (Approx.)	
M101	2	Ground	Standby state	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
M101	2	Giodila	When receiving signal from transmitter	(V) 6 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

#### Is the reference signal inputted?

YES >> INSPECTION END

NO >> GO TO 2.

# 2.check tire pressure receiver input voltage

- 1. Disconnect tire pressure receiver connector.
- 2. Check voltage between tire pressure receiver connector M101 terminal 4 and ground.

	(+)	(-)		
Tire press	ure receiver		Voltage (Approx.)	
Connector	Terminal	Ground		
M101	4		5.0 V	

#### Is the reference voltage inputted?

YES >> GO TO 3.

NO >> Check BCM harness and connector.

# ${f 3.}$ CHECK TIRE PRESSURE RECEIVER GROUND CIRCUIT

- 1. Disconnect BCM harness connector and tire pressure receiver connector.
- Check continuity between BCM harness connector M123 terminal 137 and tire pressure receiver connector M101 terminal 1.

ВСМ		Tire pressure receiver		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M123	137	M101	1	Existed	

Also check harness for short to ground.

#### Is the inspection result normal?

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#### TIRE PRESSURE RECEIVER

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace damaged parts.

4. CHECK BCM CIRCUIT

Inspect the BCM circuit. Refer to BCS-43, "Reference Value".

#### Is the BCM circuit normal?

YES >> Replace tire pressure receiver.

NO >> Repair or replace BCM circuit. Replace BCM. Refer to BCS-80, "Removal and Installation".

#### TIRE PRESSURE WARNING CHECK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

#### TIRE PRESSURE WARNING CHECK SWITCH

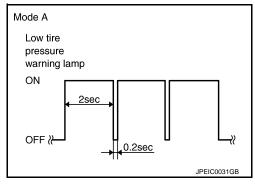
Description INFOID:0000000001911100

The following item can be checked by grounding the tire pressure warning check switch harness connector

 The low tire pressure warning lamp in the combination meter blink according to the self-diagnostic results. NOTE:

If low tire pressure warning lamp blinks below, the system is normal.

 This mode shows transmitter status is in OFF-mode. Perform transmitter wake up operation. Refer to WT-5, "TRANS-MITTER WAKE UP OPERATION: Special Repair Requirement".



### Diagnosis Procedure

### ${f 1}$ .CHECK TIRE PRESSURE WARNING CHECK SWITCH POWER SUPPLY

Turn ignition switch "ON".

Check voltage between tire pressure warning check switch connector M23 terminal 1 and ground.

(	+)	(-)	
Tire pressure wa	rning check switch		Voltage (Approx.)
Connector	Terminal	Ground	
M23	1		5.0 V

#### Is the reference voltage outputted?

YES >> Repair or replace BCM circuit. Replace BCM. Refer to BCS-80, "Removal and Installation".

NO >> GO TO 2.

### 2.CHECK TIRE PRESSURE WARNING CHECK SWITCH CIRCUIT

- 1. Turn ignition switch "OFF".
- 2. Disconnect BCM harness connector
- Check continuity between BCM harness connector M123 terminal 149 and tire pressure warning check switch connector M23 terminal 1.
- Check harness for short to ground.

всм		Tire pressure warning check switch		Continuity
Connector	Terminal	Connector	Terminal	Existed
M123	149	M23	1	LXISIGU

#### Is the inspection result normal?

>> GO TO 3. YES

NO >> Repair or replace damaged parts.

### ${f 3.}$ CHECK BCM

Check BCM input/output signal. Refer to WT-44, "Reference Value".

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Check BCM pin terminals for damage or loose connection with harness connector. If any items are damaged, repair or replace damaged parts. Replace BCM Refer to BCS-80, "Removal and Installation".

**WT-43** Revision: 2008 September 2008 G35 Sedan

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< ECU DIAGNOSIS INFORMATION >

# **ECU DIAGNOSIS INFORMATION**

# BCM (BODY CONTROL MODULE)

Reference Value

#### VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
I IX WIF LIX I II	Front wiper switch HI	On
ED WIDER I OW	Other than front wiper switch LO	Off
FR WIPER LOW	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
FR WASHER SW	Front washer switch ON	On
ED WIDED INT	Other than front wiper switch INT	Off
FR WIPER INT	Front wiper switch INT	On
ED WIDER STOR	Front wiper is not in STOP position	Off
FR WIPER STOP	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TUDNI CIONAL D	Other than turn signal switch RH	Off
TURN SIGNAL R	Turn signal switch RH	On
TUDNI OLONIAL I	Other than turn signal switch LH	Off
TURN SIGNAL L	Turn signal switch LH	On
TAIL LAND OW	Other than lighting switch 1ST and 2ND	Off
TAIL LAMP SW	Lighting switch 1ST or 2ND	On
LU DE AM OW	Other than lighting switch HI	Off
HI BEAM SW	Lighting switch HI	On
LIEAD LAND OW 4	Other than lighting switch 2ND	Off
HEAD LAMP SW 1	Lighting switch 2ND	On
LIEAD LAMB OW	Other than lighting switch 2ND	Off
HEAD LAMP SW 2	Lighting switch 2ND	On
D4 000 NO 0W	Other than lighting switch PASS	Off
PASSING SW	Lighting switch PASS	On
ALITO LIQUIT OW	Other than lighting switch AUTO	Off
AUTO LIGHT SW	Lighting switch AUTO	On
ED 500 0W	Front fog lamp switch OFF	Off
FR FOG SW	Front fog lamp switch ON	On
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off
DOOD OW DD	Driver door closed	Off
DOOR SW-DR	Driver door opened	On
DOOD CW AC	Passenger door closed	Off
DOOR SW-AS	Passenger door opened	On
D00D 0111 D5	Rear RH door closed	Off
DOOR SW-RR	Rear RH door opened	On

Monitor Item	Condition	Value/Status	
DOOD CW DI	Rear LH door closed	Off	
DOOR SW-RL	Rear LH door opened	On	
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off	
CDL LOCK SW	Other than power door lock switch LOCK	Off	
DL LOCK SW	Power door lock switch LOCK	On	
CDL TINI OCK 6W	Other than power door lock switch UNLOCK	Off	
CDL UNLOCK SW	Power door lock switch UNLOCK	On	
VEV OVI 11K OW	Other than driver door key cylinder LOCK position	Off	
EY CYL LK-SW	Driver door key cylinder LOCK position	On	_
YEV OVELENEOW	Other than driver door key cylinder UNLOCK position	Off	
EY CYL UN-SW	Driver door key cylinder UNLOCK position	On	
EY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off	<del></del>
147400 0141	Hazard switch is not pressed	Off	
IAZARD SW	Hazard switch is pressed	On	
EAR DEF SW	NOTE: The item is indicated, but not monitored.	Off	
I/L WASH SW	NOTE: The item is indicated, but not monitored.	Off	
R CANCEL SW	Trunk lid opener cancel switch OFF	Off	
R CANCEL 3W	Trunk lid opener cancel switch ON	On	
D/DD ODEN SW	Trunk lid opener switch OFF	Off	
R/BD OPEN SW	While the trunk lid opener switch is turned ON	On	
DAIL/LIAT MAITD	Trunk lid closed	Off	
RNK/HAT MNTR	Trunk lid opened	On	
WE I 00K	LOCK button of Intelligent Key is not pressed	Off	
KE-LOCK	LOCK button of Intelligent Key is pressed	On	
145 1111 0014	UNLOCK button of Intelligent Key is not pressed	Off	
KE-UNLOCK	UNLOCK button of Intelligent Key is pressed	On	
	TRUNK OPEN button of Intelligent Key is not pressed	Off	
KE-TR/BD	TRUNK OPEN button of Intelligent Key is pressed	On	
	PANIC button of Intelligent Key is not pressed	Off	
KE-PANIC	PANIC button of Intelligent Key is pressed	On	
	UNLOCK button of Intelligent Key is not pressed	Off	
KE-P/W OPEN	UNLOCK button of Intelligent Key is pressed and held	On	
VE 1105 - 0:	LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off	
KE-MODE CHG	LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On	<del></del>
	Bright outside of the vehicle	Close to 5 V	
PTICAL SENSOR	Dark outside of the vehicle	Close to 0 V	
	Driver door request switch is not pressed	Off	
REQ SW-DR	Driver door request switch is pressed	On	
	Passenger door request switch is not pressed	Off	
REQ SW-AS	Passenger door request switch is pressed	On	

Monitor Item	Condition	Value/Status
DEO SW DD/TD	Trunk request switch is not pressed	Off
REQ SW-BD/TR	Trunk request switch is pressed	On
DITCH C/W	Push-button ignition switch (push switch) is not pressed	Off
PUSH SW	Push-button ignition switch (push switch) is pressed	On
ION DIVO E/D	Ignition switch in OFF or ACC position	Off
IGN RLY2 -F/B	Ignition switch in ON position	On
ACC DLV E/D	Ignition switch in OFF position	Off
ACC RLY -F/B	Ignition switch in ACC or ON position	On
OLLIGIT OW	The clutch pedal is not depressed	Off
CLUCH SW	The clutch pedal is depressed	On
	The brake pedal is depressed when No. 7 fuse is blown	Off
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
DDAKE CW C	The brake pedal is not depressed	Off
BRAKE SW 2	The brake pedal is depressed	On
DETE (OANOL SW)	<ul> <li>Selector lever in P position (Except M/T models)</li> <li>The clutch pedal is depressed (M/T models)</li> </ul>	Off
DETE/CANCL SW	<ul> <li>Selector lever in any position other than P (Except M/T models)</li> <li>The clutch pedal is not depressed (M/T models)</li> </ul>	On
CET DAI/ALCIA/	Selector lever in any position other than P and N	Off
SFT PN/N SW	Selector lever in P or N position	On
0/1 1 001/	Steering is unlocked	Off
S/L -LOCK	Steering is locked	On
C/L LINILOCK	Steering is locked	Off
S/L -UNLOCK	Steering is unlocked	On
C/L DELAY E/D	Ignition switch in OFF or ACC position	Off
S/L RELAY-F/B	Ignition switch in ON position	On
LINILIZ CENLOD	Driver door is unlocked	Off
UNLK SEN-DR	Driver door is locked	On
DUCULOW IDDM	Push-button ignition switch (push-switch) is not pressed	Off
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On
ION DIVA E/D	Ignition switch in OFF or ACC position	Off
IGN RLY1 -F/B	Ignition switch in ON position	On
DETE OW IDDA	Selector lever in any position other than P	Off
DETE SW -IPDM	Selector lever in P position	On
SFT PN -IPDM	<ul> <li>Selector lever in any position other than P and N (Except M/T models)</li> <li>The clutch pedal is not depressed (M/T models)</li> </ul>	Off
	<ul> <li>Selector lever in P or N position (Except M/T models)</li> <li>The clutch pedal is depressed (M/T models)</li> </ul>	On
CET D MET	Selector lever in any position other than P	Off
SFT P -MET	Selector lever in P position	On
OFT N. MET	Selector lever in any position other than N	Off
SFT N -MET	Selector lever in N position	On

Monitor Item	Condition	Value/Status	
	Engine stopped	Stop	
ENGINE STATE	While the engine stalls	Stall	
ENGINE STATE	At engine cranking	Crank	
	Engine running	Run	
S/L LOCK-IPDM	Steering is unlocked	Off	
S/L LOCK-IPDIVI	Steering is locked	On	
S/L UNLK-IPDM	Steering is locked	Off	
ONE ONER-IF DIVI	Steering is unlocked	On	
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off	
S/E NELAT-NEQ	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On	
'EH SPEED 1	While driving	Equivalent to speedometer reading	
EH SPEED 2	While driving	Equivalent to speedometer reading	
	Driver door is locked	LOCK	
OOR STAT-DR	Wait with selective UNLOCK operation (5 seconds)	READY	
	Driver door is unlocked	UNLK	
	Passenger door is locked	LOCK	
OOR STAT-AS	Wait with selective UNLOCK operation (5 seconds)	READY	
	Passenger door is unlocked	UNLK	
O OK EL AC	Steering is locked	Reset	
ID OK FLAG	Steering is unlocked	Set	
PRMT ENG STRT	The engine start is prohibited	Reset	
KWII ENG STKI	The engine start is permitted	Set	
RMT RKE STRT	NOTE: The item is indicated, but not monitored.  Reset		
(EY SW -SLOT	Intelligent Key is not inserted into key slot	Off	
CI OW -OLOT	Intelligent Key is inserted into key slot	On	
KE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key	
KE OPE COUN2	NOTE: The item is indicated, but not monitored.	_	
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet	
JOHN HIM ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done	
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet	
JOHN IKWI IDA	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done	
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet	
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done	
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet	
JONE INVESTIGA	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done	

Monitor Item	Condition	Value/Status
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
CONFIRMIDI	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
17 4	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
173	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
IP 2	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
IPI	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	AIR PRESS FR Ignition switch ON (Only when the signal from the transmitter is received)	
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
ID REGST FLT	ID of front LH tire transmitter is not registered	Yet
ID DECCT ED4	ID of front RH tire transmitter is registered	Done
ID REGST FR1	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
ID REGST RRT	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
ID NEGOT KLI	ID of rear LH tire transmitter is not registered	Yet
MARNING LAMP	Tire pressure indicator OFF	Off
WARNING LAMP	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
DUZZEN	Tire pressure warning alarm is sounding	On

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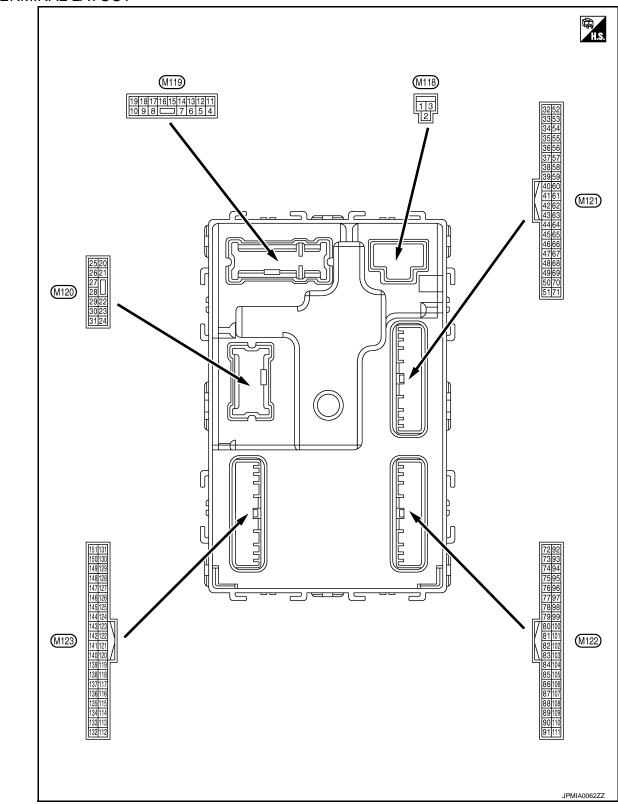
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### TERMINAL LAYOUT



PHYSICAL VALUES

Revision: 2008 September WT-49 2008 G35 Sedan

	Terminal No. Description (Wire color)				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OF	F	Battery voltage
3 (O)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
4	01	Interior room lamp	0 1 1	After passing the in er operation time	nterior room lamp battery sav-	0 V
(LG)	Ground	power supply	Output	Any other time after lamp battery saver	er passing the interior room roperation time	Battery voltage
5	01	Passenger door UN-	0 11 1		UNLOCK (Actuator is activated)	Battery voltage
(V)	Ground	LOCK	Output	Passenger door	Other than UNLOCK (Actuator is not activated)	0 V
7	0	0	0 1 1	Otro de la cons	ON	0 V
(Y)	Ground	Step lamp	Output	Step lamp	OFF	Battery voltage
8	8 0 1	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	Battery voltage
(V)	Ground				Other than LOCK (Actuator is not activated)	0 V
9	Ground	Driver door, fuel lid UNLOCK	Output	utput Driver door, fuel lid	UNLOCK (Actuator is activated)	Battery voltage
(G)	Giodila		Output		Other than UNLOCK (Actuator is not activated)	0 V
10	Ground	Rear RH door and rear LH door UN-	Output	Rear RH door	UNLOCK (Actuator is activated)	Battery voltage
(BR)	Ground	LOCK	Output	and rear LH door	Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OF	F	Battery voltage
13 (B)	Ground	Ground	_	Ignition switch ON		0 V
					OFF	0 V
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position  (V)  10  0  JSNIA0010GB
15					OFF	Battery voltage
(Y)	Ground	ACC indicator lamp	Output	Ignition switch	ACC or ON	0 V

	inal No.	Description				Value	Λ
+ (Wire	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	Α
47		Turn signal (Frank		Lanitica avitab	Turn signal switch OFF	0 V	В
17 (W)	17 (W) Ground RH)		Output	Ignition switch ON	Turn signal switch RH	5 0 1 s PKID0926E 6.5 V	C D
					Turn signal switch OFF	0 V	WT
18 (O)	Ground	Turn signal (Front LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	F
19	Ground	Room lamp timer	Output	Interior room	OFF	Battery voltage	Н
(V)	Ground	control	Output	lamp	ON	0 V	
					Turn signal switch OFF	0 V	
20 (V)	Ground	Turn signal (Rear RH)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V	J K
23					Open (Trunk lid opener actuator is activated)	Battery voltage	L
(G)	Ground	Trunk lid opening	Output	Trunk lid	Close (Trunk lid opener actuator is not activated)	0 V	
					Turn signal switch OFF	0 V	$\mathbb{M}$
25 (G)	Ground	Turn signal (Rear LH)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E	N O
30 (R)	Ground	Trunk room lamp	Output	Trunk room lamp	ON OFF	6.5 V 0 V Battery voltage	Р

	ninal No. e color)	Description			Condition	Value
+	_	Signal name	Input/ Output		Condition	(Approx.)
34		Trunk room antenna		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(SB)	Ground	1 (-)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB
35	Ground	Trunk room antenna 1 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 JMKIA0062GB
(V)	Ground				When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB
38	Ground	Rear bumper antenna (-)	Output	When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(B)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	inal No.	Description	1			Value	A
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	-
39		Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	(
(W)	Ground	na (+)	Output	is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	W
47		Ignition relay (IPDM			OFF or ACC	Battery voltage	
(Y)	Ground	E/R) control	Output	Ignition switch	ON	0 V	-
50 (R)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk is closed)	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB	ŀ
					ON (Trunk is open)	0 V	•
				Ignition switch OFF (M/T mod-	When the clutch pedal is depressed	Battery voltage	ŀ
				els)	When the clutch pedal is not depressed	0 V	·
52 (SB)	Ground	Starter relay control	Output	Ignition switch	When selector lever is in P or N position and the brake is depressed	Battery voltage	
				ON (Except M/T models)	When selector lever is in P or N position and the brake is not depressed	0 V	-  \
					ON (Pressed)	0 V	1
	Ground	Trunk request switch	Input	Trunk request switch	OFF (Not pressed)	(V) 15 10 5 0	C
61 (W)	Giodila					10 ms JPMIA0016GB	
	Glodila	Request switch buzz-		Request switch	Sounding	10 ms	

	inal No. e color)	Description	,		Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed  Not pressed	0 V  (V) 15 10 5 0 10 ms  JPMIA0011GB 11.8 V
68 (BR)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (When rear RH door closes)  ON (When rear RH door	(V) 15 10 5 0 JPMIA0011GB 11.8 V
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (When rear LH door closes)  ON (When rear LH door opens)	(V) 15 10 5 0 10 ms 11.8 V
72	Ground	Room antenna 2 (-) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0  JMKIA0062GB
(R)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB

	inal No.	Description				Value	
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	
73		Room antenna 2 (+)		Ignition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1   S   S   S   S   S   S   S   S   S	
(G) Ground	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	V	
74	Canada	Passenger door antenna (-)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s  JMKIA0062GB	
(SB)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	
75	Ground	Passenger door an-	Output	When the passenger door re-	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB	
(BR)	Ciounu	tenna (+)	Cuipui	quest switch is operated with ig- nition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	

	ninal No. e color)	Description			O a Prince	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
76		Driver door antenna (-)	Output	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(V)	Ground			switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 1
77	Ground	Driver door antenna (+)	Output	When the driver door request switch is operat- ed with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(LG)	Ground				When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
78	Ground	Room antenna (-) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB
(Y)					When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB

### < ECU DIAGNOSIS INFORMATION >

Terminal No. Descript (Wire color)		ı	Condition		Value	
e color)	Signal name	Input/ Output		Condition	(Approx.)	
	Room antenna (+)		lanition switch	When Intelligent Key is in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0062GB	B
Ground	(Instrument panel)	Output	ŎFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	W
Ground	NATS antenna amp (Built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	G
Ground	NATS antenna amp (Built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.	Н
Ground	Ignition relay [fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V Battery voltage	
Ground	und Remote keyless entry receiver signal	Input/ Output	During waiting		(V) 15 0 5 0 1 ms JMKIA0064GB	J K
Ground			When operating e	either button on Intelligent Key	(V) 15 10 1 ms  JMKIA0065GB	IV N
	Ground	Ground Room antenna (+) (Instrument panel)  Ground NATS antenna amp (Built in key slot)  Ground Ignition relay [fuse block (J/B)] control	Ground Room antenna (+) (Instrument panel)  Ground NATS antenna amp (Built in key slot)  Ground NATS antenna amp (Built in key slot)  Ground Ignition relay [fuse block (J/B)] control  Output  Ground Remote keyless entry  Input/	Ground Room antenna (+) (Instrument panel) Output Ignition switch OFF  Ground NATS antenna amp (Built in key slot) During waiting Ground Room antenna amp (Built in key slot) Output During waiting  Ground Ignition relay [fuse block (J/B)] control Output Ignition switch  Ground Remote keyless entry receiver signal Input/ Output	Ground Room antenna (+) (Instrument panel)  Ground Room antenna amp (Built in key slot)  Ground Room antenna (+) (Dutput During waiting During waiting During waiting OFF or ACC ON  During waiting  Ground Remote keyless entry Input/	Signal name

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	inal No.	Description				Value
(Wir	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GE
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	(V) 15 10 5 0 2 ms JPMIA0040GE 1.3 V

	inal No.	Description				Value
(Wire	e color) –	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
88 Convent	Ground		ombination switch PUT 3	Combination switch	Lighting switch HI (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
(V)	Glound	INPUT 3			Lighting switch 2ND (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 2  • Wiper intermittent dial 3	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V
89 (BR)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ignition switch (push switch)	Pressed  Not pressed	0 V Battery voltage
90 (P)	Ground	CAN - L	Input/ Output		_	_
91 (L)	Ground	CAN - H	Input/ Output		_	_
92 (LG)	Ground	Key slot illumination	Output	Key slot illumina- tion	OFF	0 V
						JPMIA0015GB 6.5 V

	inal No. e color)	Description			O an alitica	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
93	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0 V
(V)	0.00	C. t maioator iamp	- Carpar	.9	ON	Battery voltage
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(O)		•			ACC or ON	Battery voltage
96 (GR)	Ground	A/T device (Detention switch) power supply	Output		_	Battery voltage
97	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)		tion No. 1	<u>'</u>		UNLOCK status	Battery voltage
98	Ground	Steering lock condi-	Input	Steering lock	LOCK status	Battery voltage
(P)	0.00	tion No. 2		Cicog .co	UNLOCK status	0 V
		Selector lever P posi-		Selector lever	P position	0 V
		tion switch		32.22.00.0.	Any position other than P	Battery voltage
99 (R) Ground	ASCD clutch switch (M/T models without		ASCD clutch	OFF (Clutch pedal is depressed)	0 V	
	Ground	ICC)  ICC clutch switch (M/	Input	switch	ON (Clutch pedal is not depressed)	Battery voltage
				ICC clutch switch	OFF (Clutch pedal is depressed)	0 V
		T models with ICC)		TOC CIGICIT SWITCH	ON (Clutch pedal is not depressed)	Battery voltage
					ON (Pressed)	0 V
100 (G)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GE 1.0 V
					ON (Pressed)	0 V
101 (SB)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB
102	Ground	Blower fan motor re-	Output	Ignition switch	OFF or ACC	0 V
(O)	Cround	lay control	- Guiput	iginuon switch	ON	Battery voltage
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OF	=	Battery voltage
106	Ground	Steering wheel lock	Output	Ignition switch	OFF or ACC	Battery voltage
(W)	Giodila	unit power supply	Output	ignition switch	ON	0 V

#### < ECU DIAGNOSIS INFORMATION >

	ninal No.	Description				Volue	
(Wir +	e color)	Signal name	Input/ Output		Condition	Value (Approx.)	Α
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V	B
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V	W
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB	G H
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB	J K
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V	IV N

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	inal No.	Description				Value
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)
	Ground	Combination switch INPUT 4	Input	Combination	All switch OFF (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
108					Lighting switch AUTO (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
(R)					Lighting switch 1ST (Wiper intermittent dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Any of the conditions below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	(V) 15 10 5 0 2 ms JPMIA0039GB 1.3 V

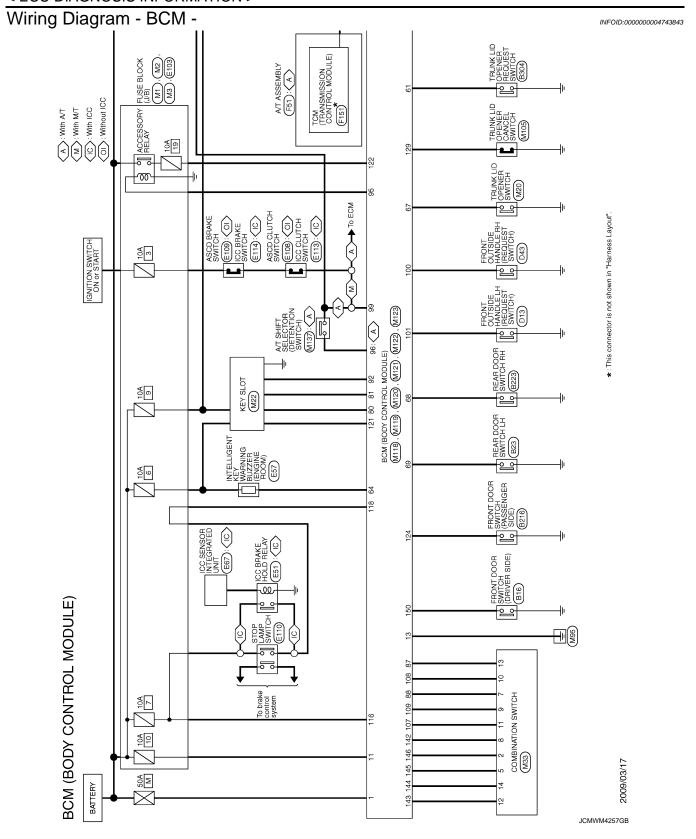
	inal No.	Description				Value	Λ
(Wire	e color)	Signal name	Input/ Output		Condition	(Approx.)	А
					All switch OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	B C
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB	WT F
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	Н
					Front wiper switch INT	(V) 15 10 5 0 2 ms JPMIA0038GB	J K L
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	M
					Pressed	0 V	0
110 (G)	Ground	Hazard switch	Input	Hazard switch	Not pressed	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V	Р

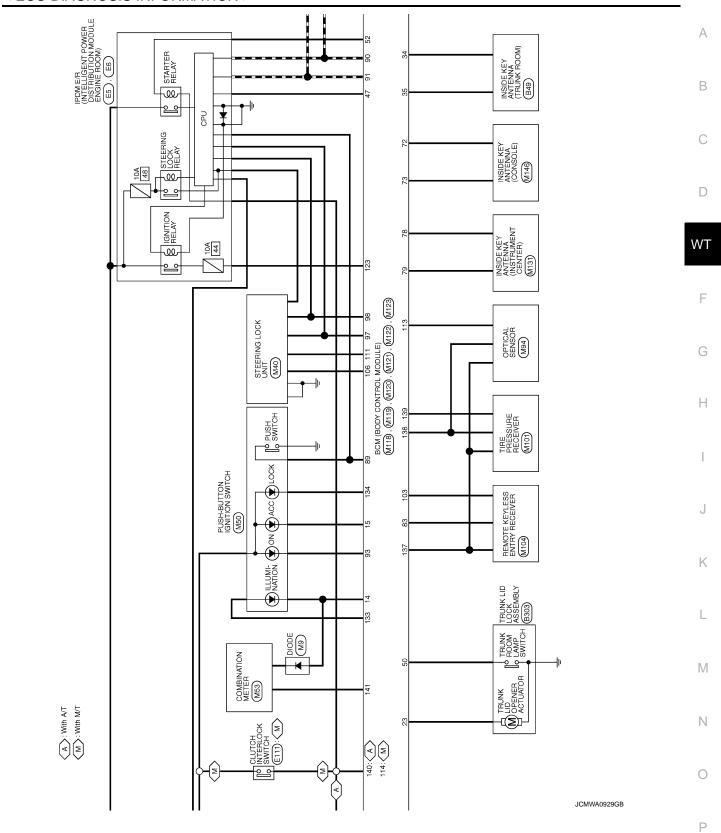
	inal No.	Description				Value
+ (VVire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	Battery voltage
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	(V) 15 10 50 50 ms  JMKIA0066GB
					For 15 seconds after UN- LOCK	Battery voltage
					15 seconds or later after UNLOCK	0 V
113	Ground	Optical sensor signal	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(P)	Oround	Optical scrisor signal	Прис	ON	When dark outside of the vehicle	Close to 0 V
114	Ground	Clutch interlock	Input	Clutch interlock	OFF (Clutch pedal is not depressed)	0 V
(R)	Siddid	switch	put	switch	ON (Clutch pedal is depressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input		_	Battery voltage
				Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
118 (P)	Ground	Stop lamp switch 2	Input	Stop tamp ownor	ON (Brake pedal is depressed)	Battery voltage
				ICC brake hold	OFF	0 V
				relay (With ICC)	ON	Battery voltage
119 (SB)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	LOCK status	(V) 15 10 5 0 10 ms 10 ms JPMIA0011GB
					UNLOCK status	0 V
121	Ground	Key slot switch	Input	When Intelligent K	ey is inserted into key slot	Battery voltage
(R)	Siddia	- 1.0, c.c. omion	put	When Intelligent K	ey is not inserted into key slot	0 V
122	Ground	ACC feedback signal	Input	Ignition switch	OFF	0 V
(V)		-			ACC or ON	Battery voltage
123 (W)	Ground	IGN feedback signal	Input	Ignition switch	OFF or ACC	0 V
( • • )					ON	Battery voltage

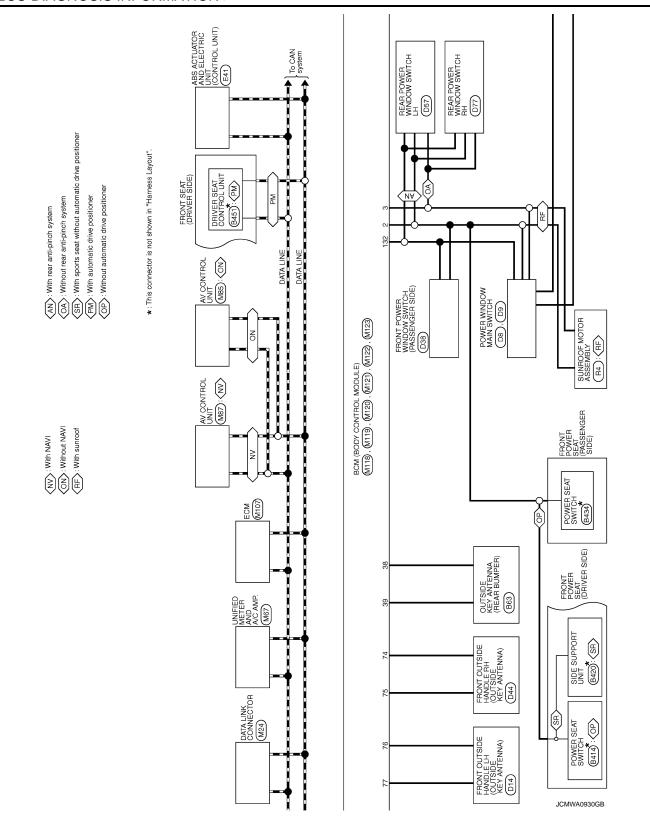
	inal No.	Description				Value	F
+	e color)	Signal name	Input/ Output		Condition	(Approx.)	F
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB	E
					ON (When passenger door opens)	11.8 V	W
129 (O)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0	F
					ON	JPMIA0012GB 1.1 V 0 V	F
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		(V) 15 10 5 0 10 ms JPMIA0013GB	
				Ignition switch OF	F or ACC ON (When tail lamps OFF)	0 V 5.5 V	ŀ
						NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.	L
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (When tail lamps ON)	(V) 15 10 5 0 JPMIA0159GB	1
					OFF	0 V	
134	Ground	LOCK indicator lamp	Output	LOCK indicator	ON	0 V	(
(GR)	Ciound	2001 indicator lamp	Cuthut	lamp	OFF	Battery voltage	
137 (O)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V	
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V	
(V)	Ciound	power supply output	Juiput	iginaon switch	ACC or ON	5.0 V	

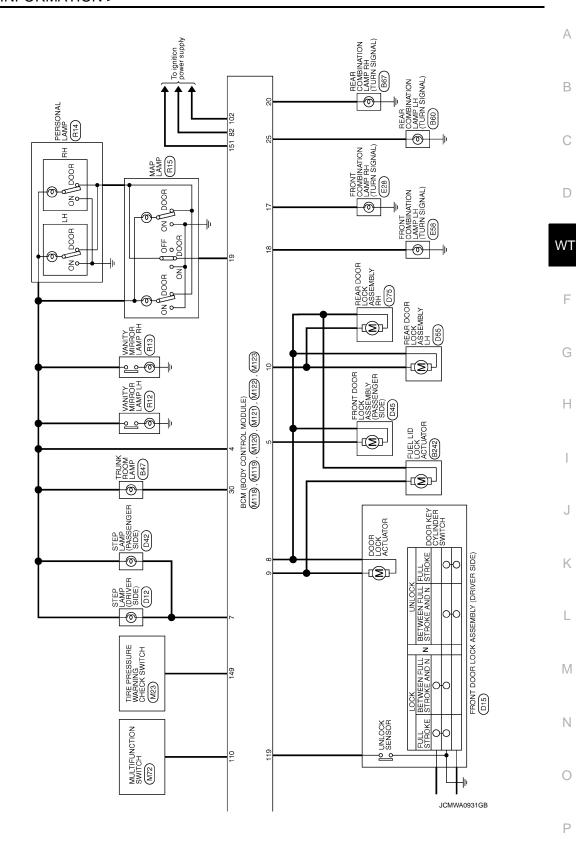
	inal No. e color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 * + 0.2s OCC3881D
(L)	Giodila	er signal	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 • • • 0.2s
140		Selector lever P/N			P or N position	12.0 V
(GR)	Ground	position signal	Input	Selector lever	Except P and N positions	0 V
					ON	0 V
141 (G)	Ground	Security indicator signal	Output	Security indicator	Blinking	(V) 15 10 5 0 11.3 V
					OFF	Battery voltage
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF Lighting switch 1ST Lighting switch HI Lighting switch 2ND Turn signal switch RH	0 V  (V) 15 10 5 0 2 ms  JPMIA0031GB
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4) Front wiper switch HI (Wiper intermittent dial 4) Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	10.7 V  0 V  (V) 15 10 2 ms  JPMIA0032GB

	inal No.	Description				Value
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)
					All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	(V) 15
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switch OFF  • Wiper intermittent dial 1  • Wiper intermittent dial 5  • Wiper intermittent dial 6	10 5 0 2 ms JPMIA0033GB 10.7 V
					All switch OFF	0 V
					Front wiper switch INT	
				Combination	Front wiper switch LO	(V) 15
145 (L)	Ground	Combination switch OUTPUT 3	Output	switch (Wiper intermit- tent dial 4)	Lighting switch AUTO	10 5 0 2 ms JPMIA0034GB
					All switch OFF	10.7 V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V)
146	Ground	Combination switch	Output	switch	Lighting switch PASS	10 5
(SB)	Ciduid	OUTPUT 4	Output	(Wiper intermit- tent dial 4)	Turn signal switch LH	0 2 ms JPMIA0035GB
149 (W)	Ground	Tire pressure warn- ing check switch	Input		<u> </u>	5 V
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closes)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (When driver door opens)	0 V
151	Ground	Rear window defog-	Output	Rear window de-	Active	0 V
(G)		ger relay		fogger	Not activated	Battery voltage









BCM (BODY CONTROL MODULE)	Connector No M118	Ganneertor No M119	18 O EBONT ELASHER OLITRITTI EFT
Connector Name COMBINATION SWITCH		-	>
Connector Type TH16FW-NH	Connector Type M03FB-LC	Connector Type NS16FW-CS	
H.S.	H.S.	S. 45678	
9 10 11 12 13		[11] 12] 13] 14] 15] 16] 17] 18] 19]	
e Signal N	Terminal   Color   Signal Name [Specification]   No. of Wire	. s	
	≥ ≻	DOC	
7 V INPUT 3 8 O OUTPUT 5	3 O POWER WINDOW POWER SUPPLY(RAP)	7 SB STEP LAMP OUTPUT 8 V DOOR LOCK OUTPUT (ALL)	
>-		ŋ	
10 R INPUT 4		10 BR DOOR UNLOCK OUTPUT (RR) 11 R BAT (FUSF)	
۵			
BR		W RING	
14 G OUTPUT 2		0	
		17 W FRONT FLASHER OUTPUT(RIGHT)	
		-	
	Т	by R DOOR SW (RR LH)	
П	. 1		
Connector Lype NS12FW-CS	Connector Type TH40FGY-NH	_	
修	ょ		
H.S. 20121 [70123 24]	HS		
27 28 29 30	57 50 40 48 47 46 45 44 43 42 41 40 50 58 57 56 56 54 53 52 77 77 70 60 66 67 66 65 64 68 62 77 60 67 68 67 67 67 67 67 67 67 67 67 67 67 67 67		
L	L	_	
nal Color of Wire	nal Color Signal of Wire		
>	SB		
23 L TRUNK OPENER OUTPUT 25 Y REAR EI ASHER OUTPUT	35 V TRUNK ANT1+ 38 B BACK ANT-		
Д	w		
	<u>N</u>		
	0		
	52 SB ST CONT USM 61 SB TDIINK BEOLIEST SW		
	8 5		
	GR		
	68 BR DOOR SW (RR RH)		

JCMWA0932GB

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## < ECU DIAGNOSIS INFORMATION >

R .		AUTO LIGHT SENSOR POER RECEIVER SIGNAL	140 GR SHIFT N/P 141 G SECURITY INDICATOR OUTPUT	142 0	1 5	_ (	149 W	150 GR	T 151 G	MD I OW	4P HIGH	TION SW	H SIGNAL	9/18	W (AS)	NCEL SW	V SERIAL LINK	V SERMAL LINK	
Connector No. M123	Connector Name BCM (BODY CONTROL MODULE)	1	TATA T		151 150 148 148 148 148 148 148 148 149 149 149 189		Color	of Wire	113 O AUTO LIGHT SENSOR INPUT	£ 8%	B B	119 SB DR CONDITION SW	SB	> 3	Od	0 TT	>	>	
KEYLESS TUNER SIGNAL	COMBI SW INPUT 5 COMBI SW INPUT 3	ENG SW CAN-L	CAN-H KEY SLOT ILL	ON LED	A/T SHIFT SELECTOR	S/L CONDITION 1	S/L CONDITION 2 SHIFT P [With A/T]	SHIFT P [With M/T]	AS REQUEST SW	IGN2 CONT	KEYLESS TUNER POWER SUPPLY	S/L 12V (CPU)	COMBI SW INPUT 1	COMBI SW INPUT 2	HAZARD SW	S/L (K LINE)			
H	+	88 80 80 80	91 L 92 LG	Н	96 GR	Н	8 66 2 2	99 BR	00 ±	+	ŀ	106 W	+	109	110 G	H			
BCM (BODY CONTROL MODULE) Connector No. M122	Connector Name BCM (BODY CONTROL MODULE)	7			131 341 341 353 354 051 352 054 053 052 051 051 751 751 751 751 751 751 751 751 751 7			re	+	5 %	B BB	76 V DR DOOR ANT-	97 ×	- 8	GR	W	×	α	

Fail-safe

### FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

## < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTTENA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent  • Starter control relay signal  • Starter relay status signal
B2563: HI VOLTAGE	<ul><li>Inhibit engine cranking</li><li>Inhibit steering lock</li></ul>	500 ms after the power supply voltage decreases to less than 18 V
B2601: SHIFT POSITION	Inhibit steering lock	<ul> <li>500 ms after the following signal reception status becomes consistent</li> <li>Selector lever P position switch signal</li> <li>P range signal (CAN)</li> </ul>
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are ful- filled     Ignition switch is in the ON position     Selector lever P position switch signal: Except P position (battery voltage)     Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	<ul> <li>500 ms after the following BCM recognition conditions are fulfilled</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P position switch signal: Except P position (battery voltage)</li> <li>Selector lever P/N position signal: Except P and N positions (0 V)</li> </ul>
B2604: PNP SW	Inhibit steering lock	<ul> <li>500 ms after any of the following BCM recognition conditions are fulfilled</li> <li>Status 1</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P/N position signal: P and N position (battery voltage)</li> <li>P range signal or N range signal (CAN): ON</li> <li>Status 2</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P/N position signal: Except P and N positions (0 V)</li> <li>P range signal and N range signal (CAN): OFF</li> </ul>
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled  • Ignition switch is in the ON position  - Power position: IGN  - Selector lever P/N position signal: Except P and N positions (0 V)  - Interlock/PNP switch signal (CAN): OFF  • Status 2  - Ignition switch is in the ON position  - Selector lever P/N position signal: P or N position (battery voltage)  - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following CAN signal communication status becomes consistent</li> <li>Steering lock relay signal (Request signal)</li> <li>Steering lock relay signal (Condition signal)</li> </ul>

#### < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation	Λ
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent  • Steering lock relay signal (Request signal)  • Steering lock relay signal (Condition signal)	E
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent  Starter motor relay control signal  Starter relay status signal (CAN)	C
B2609: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When the following steering lock conditions agree  BCM steering lock control status  Steering lock condition No. 1 signal status  Steering lock condition No. 2 signal status	
B260A: IGNITION RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following conditions are fulfilled</li> <li>IGN relay (IPDM E/R) control signal: OFF (Battery voltage)</li> <li>Ignition ON signal (CAN to IPDM E/R): OFF (Request signal)</li> <li>Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)</li> </ul>	W
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled  • Power position changes to ACC  • Receives engine status signal (CAN)	F
B2612: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When any of the following conditions are fulfilled  Steering lock unit status signal (CAN) is received normally  The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)	C:
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal	
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal	I
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal	
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization	
B26E1: ENG STATE NO RES	Inhibit engine cranking	When any of the following conditions are fulfilled  • Power position changes to ACC  • Receives engine status signal (CAN)	K

#### HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

#### NOTE:

The blinking speed is normal while activating the hazard warning lamp.

## DTC Inspection Priority Chart

INFOID:0000000004743845

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

Priority	DTC
1	B2562: LOW VOLTAGE     B2563: HI VOLTAGE
2	U1000: CAN COMM U1010: CONTROL UNIT(CAN)
3	<ul> <li>B2190: NATS ANTTENA AMP</li> <li>B2191: DIFFERENCE OF KEY</li> <li>B2192: ID DISCORD BCM-ECM</li> <li>B2193: CHAIN OF BCM-ECM</li> <li>B2195: ANTI SCANNING</li> </ul>

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## < ECU DIAGNOSIS INFORMATION >

Priority	DTC
4	B2013: ID DISCORD BCM-S/L  B2014: CHAIN OF S/L-BCM  B2553: IGNITION RELAY  B2555: STOP LAMP  B2555: PUSH-BTN IGN SW  B2557: VEHICLE SPEED  B2560: STARTER CONT RELAY  B2601: SHIFT POSITION  B2602: SHIFT POSITION  B2603: SHIFT POSITION  B2605: PNP SW  B2606: PNP SW  B2606: S/L RELAY  B2606: S/L RELAY  B2608: STARTER RELAY  B2609: S/L STATUS  B2609: S/L STATUS  B2609: S/L STATUS  B2600: STEERING LOCK UNIT  B2600: STEERING LOCK UNIT  B2600: STEERING LOCK UNIT  B2601: ACC RELAY  B2611: ACC RELAY  B2611: ACC RELAY  B2612: S/L STATUS  B2615: BLOWER RELAY CIRC  B2616: B0N RELAY CIRC  B2616: BCN RELAY CIRC  B2617: STARTER RELAY CIRC  B2618: BCM  B2619: BCM  B2619: BCM  B2619: BCM  B2611: VEHICLE TYPE  B2611: VEHICLE SPEED SIG
5	C1704: LOW PRESSURE FR C1706: LOW PRESSURE RR C1706: LOW PRESSURE RR C1707: LOW PRESSURE RL C1708: [NO DATA] FL C1709: [NO DATA] FR C1710: [NO DATA] RR C1711: [NO DATA] RR C1711: [NO DATA] RR C1711: [NO DATA] RR C1711: [CHECKSUM ERR] FR C1713: [CHECKSUM ERR] FR C1714: [CHECKSUM ERR] RR C1716: [PRESSDATA ERR] RR C1716: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] FR C1717: [PRESSDATA ERR] RR C1719: [PRESSDATA ERR] RR C1719: [CODE ERR] RR C1720: [CODE ERR] RR C1721: [CODE ERR] RR C1721: [CODE ERR] RR C1722: [CODE ERR] RR C1723: [CODE ERR] RR C1724: [BATT VOLT LOW] FL C1725: [BATT VOLT LOW] FR C1727: [BATT VOLT LOW] RR C1727: [BATT VOLT LOW] RR C1727: [CATAN CONTROL UNIT
6	B2621: INSIDE ANTENNA     B2622: INSIDE ANTENNA     B2623: INSIDE ANTENNA

#### < ECU DIAGNOSIS INFORMATION >

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#### NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data and IGN Counter, refer to BCS-13, "COMMON ITEM: CONSULT-III Function (BCM - COMMON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM	_	_	_	_	BCS-33
U1010: CONTROL UNIT(CAN)	_	_	_	_	BCS-34
U0415: VEHICLE SPEED SIG	_	_	_	_	BCS-35
B2013: ID DISCORD BCM-S/L	×	×	_	_	<u>SEC-54</u>
B2014: CHAIN OF S/L-BCM	×	×	_	_	<u>SEC-55</u>
B2190: NATS ANTTENA AMP	×	_	_	_	SEC-46
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-49
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-50
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-52
B2195: ANTI SCANNING	×	_	_	_	SEC-53
B2553: IGNITION RELAY	_	×	_	_	PCS-50
B2555: STOP LAMP	_	×	_	_	SEC-58
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-60
B2557: VEHICLE SPEED	×	×	×	_	SEC-62
B2560: STARTER CONT RELAY	×	×	×	_	SEC-63
B2562: LOW VOLTAGE	_	×	_	_	BCS-36
B2563: HI VOLTAGE	×	×	×	_	BCS-37
B2601: SHIFT POSITION	×	×	×	_	SEC-64
B2602: SHIFT POSITION	×	×	×	_	SEC-67
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-69
B2604: PNP SW	×	×	×	_	SEC-72
B2605: PNP SW	×	×	×	_	SEC-74
B2606: S/L RELAY	×	×	×	_	SEC-76
B2607: S/L RELAY	×	×	×	_	SEC-77
B2608: STARTER RELAY	×	×	×	_	SEC-79
B2609: S/L STATUS	×	×	×	_	SEC-81
B260A: IGNITION RELAY	×	×	×	_	PCS-52
B260B: STEERING LOCK UNIT	_	×	×	_	<u>SEC-85</u>
B260C: STEERING LOCK UNIT	_	×	×	_	SEC-86
B260D: STEERING LOCK UNIT	<del>_</del>	×	×		SEC-87
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-88
B2611: ACC RELAY	_	×	_	_	PCS-54
B2612: S/L STATUS	×	×	×	_	SEC-90
B2614: ACC RELAY CIRC	_	×	×	_	PCS-57

## < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2615: BLOWER RELAY CIRC	_	×	×	_	PCS-60
B2616: IGN RELAY CIRC	_	×	×	_	PCS-63
B2617: STARTER RELAY CIRC	×	×	×	_	SEC-94
B2618: BCM	×	×	×	_	PCS-66
B2619: BCM	×	×	×	_	SEC-96
B261A: PUSH-BTN IGN SW	_	×	×	_	SEC-97
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-100
B2621: INSIDE ANTENNA	_	×	_	_	DLK-61
B2622: INSIDE ANTENNA	_	×	_	_	DLK-63
B2623: INSIDE ANTENNA	_	×	_	_	DLK-65
B26E1: ENG STATE NO RES	×	×	×	_	SEC-89
C1704: LOW PRESSURE FL	_	_	_	×	<u>WT-15</u>
C1705: LOW PRESSURE FR	_	_	_	×	<u>WT-15</u>
C1706: LOW PRESSURE RR	_	_	_	×	<u>WT-15</u>
C1707: LOW PRESSURE RL	_	_	_	×	<u>WT-15</u>
C1708: [NO DATA] FL	_	_	_	×	<u>WT-17</u>
C1709: [NO DATA] FR	_	_	_	×	<u>WT-17</u>
C1710: [NO DATA] RR	_	_	_	×	<u>WT-17</u>
C1711: [NO DATA] RL	_	_	_	×	<u>WT-17</u>
C1712: [CHECKSUM ERR] FL	_	_	_	×	<u>WT-20</u>
C1713: [CHECKSUM ERR] FR	_	_	_	×	<u>WT-20</u>
C1714: [CHECKSUM ERR] RR	_	_	_	×	<u>WT-20</u>
C1715: [CHECKSUM ERR] RL	_	_	_	×	<u>WT-20</u>
C1716: [PRESSDATA ERR] FL	_	_	_	×	<u>WT-23</u>
C1717: [PRESSDATA ERR] FR	_	_	_	×	<u>WT-23</u>
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-23</u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	<u>WT-23</u>
C1720: [CODE ERR] FL	_	_	_	×	<u>WT-25</u>
C1721: [CODE ERR] FR	_	_	_	×	<u>WT-25</u>
C1722: [CODE ERR] RR	_	_	_	×	<u>WT-25</u>
C1723: [CODE ERR] RL	_	_	_	×	<u>WT-25</u>
C1724: [BATT VOLT LOW] FL	_	_	_	×	<u>WT-28</u>
C1725: [BATT VOLT LOW] FR	_	_	_	×	<u>WT-28</u>
C1726: [BATT VOLT LOW] RR	_	_	_	×	<u>WT-28</u>
C1727: [BATT VOLT LOW] RL	_	_	_	×	<u>WT-28</u>
C1729: VHCL SPEED SIG ERR	_	_	_	×	<u>WT-31</u>
C1734: CONTROL UNIT	_	_	_	×	WT-32

# SYMPTOM DIAGNOSIS

## **TPMS**

Symptom Table

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Symptom	Reference
Low tire pressure warning lamp does not turn on for approx.1 second when ignition switch is turned on.	<u>WT-81</u>
Low tire pressure warning lamp stays on when ignition switch is turned on.	<u>WT-82</u>
Low tire pressure warning lamp blinks when ignition switch is turned on.	<u>WT-84</u>
Turn signal lamp blinks when ignition switch is turned on.	<u>WT-86</u>
ID registration can not be completed.	<u>WT-87</u>

## LOW TIRE PRESSURE WARNING LAMP SYMPTOM CHART

Diagnosis Item	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
	Low tire pressure warning lamp comes on immediately and turns off after 1 second.	ON 1 sec > stays OFF SEIA0592E	All wheel transmitters are "activated" (working).	None (system OK)
	Low tire pressure warning lamp blinks on for 2 seconds, then turns off for 0.2 seconds-repeats.	Blinks:  ON 2 sec > OFF 0.2 sec SEIA0593E	All wheel transmitters are not activated.	Activate all wheel tire pressure transmitters. Refer to WT-5, "TRANSMITTER WAKE UP OPERATION: Special Repair Requirement".
Low tire pres- sure warning lamp	Low tire pressure warning lamp blinks 1 time.	Blinks 1 time ON 0.3 sec > OFF 1.3 sec SEIA0594E	Tire pressure transmitter front LH is not activated.	Activate tire pressure transmitter front LH. Refer to WT-5, "TRANSMITTER WAKE UP OPERATION: Special Repair Requirement".
	Low tire pressure warning lamp blinks 2 times.	Blinks 2 times ON 0.3 sec > OFF 0.3 sec SEIAO595E	Tire pressure trans- mitter front RH is not activated.	Activate tire pressure transmitter front RH. Refer to WT-5.  "TRANSMITTER WAKE UP OPERATION: Special Repair Requirement".
	Low tire pressure warning lamp blinks 3 times.	Blinks 3 times ON 0.3 sec > OFF 0.3 sec SEIAO596E	Tire pressure trans- mitter rear RH is not activated.	Activate tire pressure transmitter rear RH. Refer to WT-5. "TRANSMITTER WAKE UP OPERATION: Special Repair Requirement".

Diagnosis Item	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
	Low tire pressure warning lamp blinks 4 times.	Blinks 4 times ON 0.3 sec > OFF 0.3 sec SEIAO597E	Tire pressure trans- mitter rear LH is not activated.	Activate tire pressure transmitter rear LH. Refer to WT-5. "TRANSMITTER WAKE UP OPERATION: Special Repair Requirement".
Low tire pres- sure warning	Low tire pressure warning lamp comes on and does not turn off.	Comes ON and stays ON	Tire pressure is low.	Check tire pressure with CON- SULT-III. Refer to WT-13, "AIR PRESSURE MONITOR: CONSULT-III Function (BCM - AIR PRESSURE MONITOR)".
lamp			The fuse for combination meter from battery is pulled out.	Check the fuse for combination meter from battery. Install or replace (if needed).
	Low tire pressure		BCM connector pulled out.	Check BCM connector. Reconnect if needed.
	warning lamp blinks on for 0.5 seconds then turns off for 0.5 seconds-repeats for 1 minute, and then stays on.	Blinks 1 min  ON 0.5 sec > OFF 0.5 sec and stays ON SEIAO788E	Low tire pressure or tire pressure monitoring system malfunction.	Perform CONSULT-III Self-Diagnosis. Refer to WT-13, "AIR PRESSURE MONITOR: CONSULT-III Function (BCM - AIR PRESSURE MONITOR)". Perform ID Registration if needed. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".
Turn signal lamp	Turn signal lamp does not blink 2 times or buzzer does not sound after trans- mitter activation.	_	<ol> <li>Tool J-45295         [SST]</li> <li>Ignition OFF         during activation.</li> <li>Tool J-45295         [SST] not positioned correctly.</li> <li>Transmitters already activated.</li> </ol>	Install new battery.     Check ignition is ON during activation.     Position tool correctly during activation.     Nothing.

#### NOTE:

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

#### LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

#### < SYMPTOM DIAGNOSIS >

#### LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON Α Description INFOID:0000000001911108 DESCRIPTION В 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:0000000001911109 1. CHECK SELF-DIAGNOSIS RESULTS WT (P)With CONSULT-III On the "SELECT DIAG" mode, select the "SELF-DIAG RESULTS" screen. Check display contents in self-diagnostic results. Is "CAN COMM CIRCUIT" displayed in the self-diagnosis display items? >> Perform trouble diagnosis for CAN communication system. Refer to LAN-19, "Trouble Diagnosis YES Flow Chart". >> GO TO 2. NO 2.CHECK COMBINATION METER Check unified meter function. Refer to MWI-37, "CONSULT-III Function (METER/M&A)". Н Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace damaged parts. 3.CHECK LOW TIRE PRESSURE WARNING LAMP Turn ignition switch "OFF". Disconnect BCM harness connectors. Turn ignition switch "ON". (Do not start engine.) Does low tire pressure warning lamp turn on? YES >> GO TO 4. K >> Check combination meter and repair or replace. Refer to MWI-158, "Removal and Installation". NO 4.CHECK SYMPTOM Check again. Is the inspection result normal? YES >> INSPECTION END M NO >> GO TO 5. 5.check $\mathsf{BCM}$ Check BCM input/output signal. Refer to WT-44, "Reference Value". Is the inspection result normal? YES >> GO TO 4. NO >> GO TO 6. O.CHECK BCM HARNESS CONNECTOR Check BCM pin terminals for damage or loose connection with harness connector. Р Is the inspection result normal? YES >> Replace BCM. Refer to BCS-80, "Removal and Installation". NO >> Repair or replace damaged parts.

## LOW TIRE PRESSURE WARNING LAMP STAYS ON

#### < SYMPTOM DIAGNOSIS >

## LOW TIRE PRESSURE WARNING LAMP STAYS ON

Description INFOID:000000001911110

#### DESCRIPTION

The tire pressure monitoring system is checked and the warning lamp is illuminated for approximately 1 second when the ignition switch is turned ON. The low tire pressure warning lamp turns OFF after the system check finishes.

The system may be malfunctioning if the low tire pressure warning lamp does not turn off approximately 1 second after the ignition switch is turned ON.

### Diagnosis Procedure

INFOID:0000000001911111

## 1. CHECK SYSTEM FOR BCM

#### (P)With CONSULT-III

- 1. On "SELF-DIAG" mode, select the "SELF-DIAG RESULTS" screen.
- 2. Check display contents in self-diagnostic results.

#### Does self-diagnostic results indicate any malfunction?

YES >> Perform trouble diagnosis. Refer to <u>WT-13</u>, "AIR PRESSURE MONITOR : CONSULT-III Function (BCM - AIR PRESSURE MONITOR)".

NO >> GO TO 2.

## 2.CHECK ID REGISTRATION

Perform ID registration all transmitters. Refer to <u>WT-5, "ID REGISTRATION PROCEDURE : Special Repair Requirement"</u>.

#### Does low tire pressure warning lamp turn OFF?

YES >> INSPECTION END

NO >> GO TO 3.

## 3. CHECK POWER SUPPLY CIRCUIT

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

	+)	(–)			
В	CM		Voltage (Approx.)		
Connector	Terminal	Ground			
M118	1	Giodila	Pattory voltage		
M119	11		Battery voltage		

#### Is the power supply normal?

YES >> GO TO 4.

NO >> Check

- >> Check the following. If any items are damaged, repair or replace damage parts.
  - 50 A fusible link [No. M located in the fuse block]. Refer to <u>PG-95, "Fuse and Fusible Link Arrangement"</u>.
  - 10 A fuse [No. 10 located in the fuse block (J/B)]. Refer to <u>PG-94, "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 battery voltage.

## 4. CHECK GROUND CIRCUIT

- 1. Turn ignition switch "OFF".
- Disconnect BCM harness connector.
- Check continuity between BCM harness connector M119 terminal 13 and ground.

## LOW TIRE PRESSURE WARNING LAMP STAYS ON

## < SYMPTOM DIAGNOSIS >

BCM			Continuity
Connector	Terminal	Ground	Continuity
M119	13		Existed
Also check harness for sh	· · · · · · · · · · · · · · · · · · ·		
the inspection result norma	<u>1?</u>		
YES     >> GO TO 5. NO      >> Repair open circu	uit ar abart ta payyar in b	arnogo ar gannagtara	
• • CHECK SYMPTOM	iit or short to power in ha	arriess or connectors.	
Check again.	10		
s the inspection result norma YES >> INSPECTION EN			
NO >> GO TO 6.	טו		
CHECK BCM			
Check BCM input/output signa	al Refer to WT-44 "Ref	erence Value"	
s the inspection result norma	·		
YES >> GO TO 5.	_		
NO >> GO TO 7.			
CHECK BCM HARNESS C	CONNECTOR		
heck BCM pin terminals for	damage or loose conne	ction with harness connector.	
s the inspection result norma			
YES >> Replace BCM. Re			
	efer to <u>BCS-80, "Remov</u>	al and Installation".	
NO >> Repair or replace		al and Installation".	
		al and Installation".	

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#### LOW TIRE PRESSURE WARNING LAMP BLINKS

#### < SYMPTOM DIAGNOSIS >

## LOW TIRE PRESSURE WARNING LAMP BLINKS

Description INFOID:0000000001911112

#### DESCRIPTION

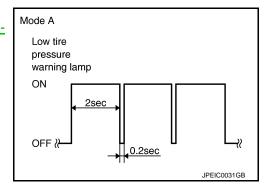
The low tire pressure warning lamp illuminates or blinks.

However, a check is necessary because the symptom may not be caused by a system malfunction. For example, the transmitter may not be initialized.

#### NOTE:

If low tire pressure warning lamp blinks below, the system is normal. Blink Mode A

This mode shows transmitter status is in OFF- mode.
 Perform transmitter wake up operation. Refer to WT-5, "TRANS-MITTER WAKE UP OPERATION: Special Repair Requirement".



## Diagnosis Procedure

INFOID:0000000001911113

# 1. CHECK TIRE PRESSURE WARNING CHECK SWITCH POWER SUPPLY

- Turn ignition switch "ON".
- 2. Check voltage between tire pressure warning check switch connector M23 terminal 1 and ground.

(	+)	(-)	
Tire pressure war	ning check switch		Voltage (Approx.)
Connector	terminal	Ground	
M23	1		5.0V

#### Is the reference voltage outputted?

YES >> Repair or replace BCM circuit. Replace BCM. Refer to <u>BCS-80, "Removal and Installation"</u>.

NO >> GO TO 2.

## 2.CHECK TIRE PRESSURE WARNING CHECK SWITCH CIRCUIT

- Turn ignition switch "OFF".
- 2. Disconnect BCM harness connector.
- Check continuity between BCM harness connector M123 terminal 149 and tire pressure warning check switch connector M23 terminal 1.
- Check harness for short to ground.

В	CM	Tire pressure wa	- Continuity		
Connector	terminal	Connector	terminal	Continuity	
M123	149	M23	1	Existed	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

## 3.CHECK BCM

Check BCM input/output signal. Refer to WT-44, "Reference Value".

#### Is the inspection result normal?

YES >> GO TO 1.

LOW TIRE PRESSURE WARNING LAMP BLINKS < SYMPTOM DIAGNOSIS > NO >> GO TO 4. 4. CHECK BCM HARNESS CONNECTOR Check BCM pin terminals for damage or loose connection with harness connector. Is the inspection result normal? >> Replace BCM. Refer to BCS-80, "Removal and Installation". YES NO >> repair or replace damaged parts. WT

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### **TURN SIGNAL LAMP BLINKS**

#### < SYMPTOM DIAGNOSIS >

### TURN SIGNAL LAMP BLINKS

Description INFOID:000000001911114

#### DESCRIPTION

The turn signal lamp blinks when the ignition switch is turned ON.

The BCM connector or circuit may have a malfunction.

### Diagnosis Procedure

INFOID:0000000001911115

# 1. CHECK TIRE PRESSURE WARNING CHECK SWITCH POWER SUPPLY

- 1. Turn ignition switch "ON".
- 2. Check voltage between tire pressure warning check switch connector M23 terminal 1 and ground.

	+)	(-)	
Tire pressure wa	rning check switch		Voltage (Approx.)
Connector	Terminal	Ground	
M23	1		5.0 V

#### Is the reference voltage outputted?

YES >> Repair or replace BCM circuit. Replace BCM. Refer to <u>BCS-80, "Removal and Installation"</u>.

NO >> GO TO 2.

# 2.check tire pressure warning check switch circuit

- Turn ignition switch "OFF".
- 2. Disconnect BCM harness connector.
- 3. Check continuity between BCM harness connector M123 terminal 149 and tire pressure warning check switch connector M23 terminal 1. Also check harness for short to ground.

В	СМ	Tire pressure war	Continuity	
Connector	Terminal	Connector	Terminal	Existed
M123	149	M23	1	LXISteu

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

## 3. CHECK SYMPTOM

Check again.

#### Does the turn signal lamp remain blinking?

YES >> Check turn signal lamp operation. Refer to <u>BCS-21, "FLASHER: CONSULT-III Function (BCM - FLASHER)".</u>

NO >> INSPECTION END

#### ID REGISTRATION CANNOT BE COMPLETED

#### < SYMPTOM DIAGNOSIS >

### ID REGISTRATION CANNOT BE COMPLETED

Description INFOID:000000001911116

#### DESCRIPTION

The ID of the transmitter installed in each wheel cannot be registered in the tire pressure monitoring system. Inspect the transmitter or the tire pressure monitoring system circuit.

## Diagnosis Procedure

## 1. CHECK ID REGISTRATION

- 1. Perform ID registration of all transmitter. Refer to WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes. Then check all tire pressures with CONSULT-III "DATA MONITOR" within 5 minutes.

Monitored item	Condition	Display value
AIR PRESS FL		
AIR PRESS FR	Start engine and drive at 40 km/h (25 MPH) or more for	Approximately equal to the indication on vehicle
AIR PRESS RR	several minutes.	information display.
AIR PRESS RL		

#### Does "DATA MONITOR" displayed the standardized value without turning low tire pressure warning lamp ON?

YES >> INSPECTION END

NO >> GO TO 2.

## 2. CHECK TRANSMITTER

- 1. Perform trouble diagnosis for transmitter. Refer to WT-17, "Diagnosis Procedure".
- 2. Perform ID registration of all transmitter. Refer to <u>WT-5, "ID REGISTRATION PROCEDURE : Special Repair Requirement"</u>.

#### Can ID registration of all transmitters be completed?

YES >> INSPECTION END

NO >> Repair or replace the malfunctioning connector. Repair or replace the malfunctioning part. GO TO 1.

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### NORMAL OPERATING CONDITION

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## NORMAL OPERATING CONDITION

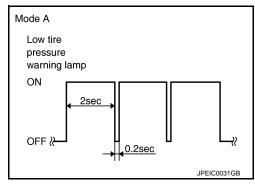
Description INFOID:000000001911118

#### LOW TIRE PRESSURE WARNING LAMP BLINKS

The tire pressure monitoring system is not malfunctioning if the low tire pressure warning lamp blinks in the pattern as shown in the figure.

The incident occurs because the transmitter of each wheel is not wake up.

Perform transmitter wake up operation. Refer to <u>WT-5</u>, "TRANSMIT-TER WAKE UP OPERATION: Special Repair Requirement".



## NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

# NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

## **NVH Troubleshooting Chart**

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

Reference	page		2WD models: FSU-33, FSU-36.	AWD models: FSU-59, FSU-60.	WT-92, "Inspection"	WT-93, "Adjustment"	WT-98, "Tire"	WT-93, "Adjustment"	I	I	WT-98, "Tire"	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 c PARTS	ause and SI	JSPECTED	constant softell of one is a constant	inproper installation, looseness	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		×	×	×	×	×	×	×	×			×	×		×		×	×
		Judder		×	×	×	×	×	×		×			×	×		×		×	×
Symptom		Poor quality ride or handling		×	×	×	×	×	×		×			×		×	×			
		Noise		×	×	×			×			×	×	×	×	×		×	×	×
	ROAD	Shake		×	×	×			×			×		×	×	×		×	×	×
	WHEEL	Shimmy, Judder		×	×	×			×					×	×	×			×	×
		Poor quality ride or handling		×	×	×			×					×	×	×				

<sup>×:</sup> Applicable

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#### **PRECAUTIONS**

#### < PRECAUTION >

# **PRECAUTION**

## **PRECAUTIONS**

#### Service Notice or Precautions

- INFOID:0000000001911120
- Low tire pressure warning lamp blinks 1min, then turns ON when occurring any malfunction except low tire pressure. Delete the memory with CONSULT-III, or register the ID to turn low tire pressure warning lamp OFF. Refer to <a href="https://www.wt.sure.com/WT-11">WT-11</a>, "AIR PRESSURE MONITOR: Diagnosis Description", WT-5, "ID REGISTRATION PROCEDURE: Special Repair Requirement".
- ID registration is required when replacing or rotating wheels, replacing transmitter or BCM. Refer to
- Replace grommet seal, valve core and cap of transmitter in TPMS every tire replacement by reaching wear limit of tire. Refer to <u>WT-96, "Exploded View"</u>.

## **PREPARATION**

## < PREPARATION >

# **PREPARATION**

## **PREPARATION**

## **Special Service Tools**

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

Tool number (Kent-Moore No.) Tool name		Description	С
(J-45295) Transmitter activation tool		ID registration	D
Transmitter activation tool			WT
	SEIA0462E		F

## **Commercial Service Tools**

INFOID:0000000001911122

INFOID:0000000001911121

Tool name		Description	
Power tool		Loosening bolts and nuts	
	PBIC0190E		

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# PERIODIC MAINTENANCE

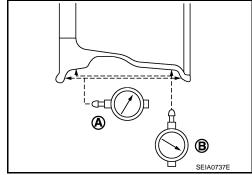
## **ROAD WHEEL**

Inspection INFOID:000000001911123

#### **ALUMINUM WHEEL**

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

Lateral runout limit (A) Refer to <u>WT-98, "Road Wheel"</u>. Vertical runout limit (B) Refer to <u>WT-98, "Road Wheel"</u>.



# REMOVAL AND INSTALLATION

## ROAD WHEEL TIRE ASSEMBLY

Adjustment INFOID:000000001911124

#### BARANCING 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:** 

- Do not install the inner balance weight before installing the outer balance weight.
- Before installing the balance weight, be sure to clean the mating surface of the road wheel.
- 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)

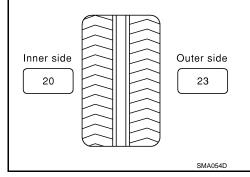
NOTE:

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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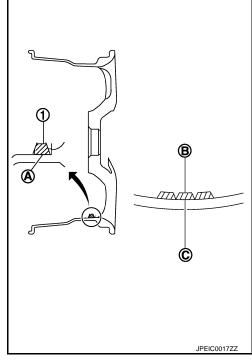
#### **ROAD WHEEL TIRE ASSEMBLY**

#### < REMOVAL AND INSTALLATION >

 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.
- Do not install more than three sheets of balance weight.



Adhesion weight

Wheel balancer indication position (angle)

PEIA0033E

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

#### **CAUTION:**

Do not install one balance weight sheet on top 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:**

Do not 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.
- 6. If either residual unbalance value exceeds 5 g (0.17 oz), repeat installation procedures.

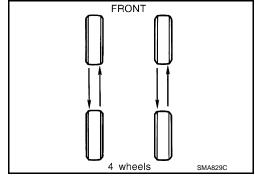
Wheel balance	Dynamic (At flange)	Static (At flange)
Maximum allowable un- balance	Refer to WT-98	, "Road Wheel".

#### TIRE ROTATION (for 17 inch wheel models)

- Follow the maintenance schedule for tire rotation service intervals. Refer to MA-6, "Schedule 1".
- When installing the wheel, tighten wheel nuts to the specified torque.

#### **CAUTION:**

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



Wheel nuts tighting torque : Refer to WT-98, "Road Wheel".

### **ROAD WHEEL TIRE ASSEMBLY**

#### < REMOVAL AND INSTALLATION >

• Perform the ID registration, after tire rotation. Refer to <u>WT-5</u>, "ID REGISTRATION PROCEDURE: Special Repair Requirement".

#### TIRE ROTATION (for 18 inch wheel models)

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

Wheel nuts tighting torque : Refer to <u>WT-98, "Road</u> Wheel".

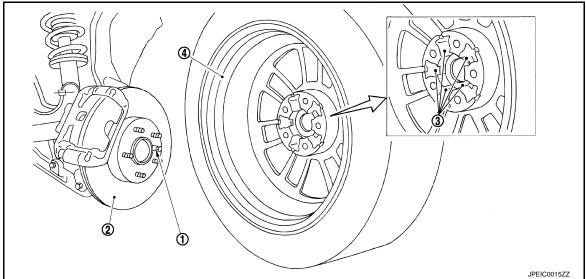
#### **CAUTION:**

- Do not 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

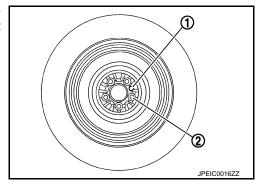
#### FRONT BRAKE DISC ROTOR AND FRONT WHEEL

• Front and rear wheel size for this model differs, therefore special pin (1) has been installed on the front brake disc rotor (2). To accommodate this pin a hole (3) has been provided on the front wheel (4) (the rear wheel does not have this hole.) and in some case the rear wheel is being mistakenly installed on the front.



#### T-TYPE SPARE TIRE WHEEL

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



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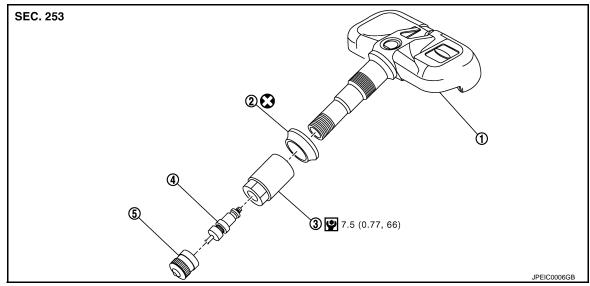
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# **UNIT REMOVAL AND INSTALLATION**

### **TRANSMITTER**

**Exploded View** 

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1. Transmitter

- 2. Grommet seal
- et seal 3. Valve nut

4. Valve core

5. Cap

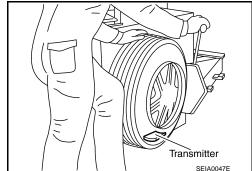
Refer to GI-4, "Components" for symbols in figure.

### Removal and Installation

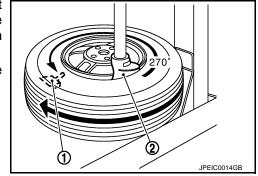
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#### **REMOVAL**

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



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

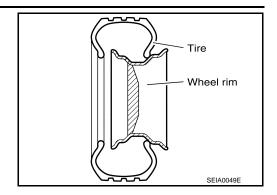


#### **INSTALLATION**

### **TRANSMITTER**

#### < UNIT REMOVAL AND INSTALLATION >

1. Put first side of tire onto rim.



2. Mount transmitter on rim and tighten nut.

#### **CAUTION:**

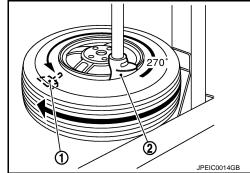
Speed for tightening nut should be less than 15 rpm.

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

#### NOTE:

Do not touch transmitter at mounting head.

- 4. Lubricate tire well and fit second side of tire as normal. Ensure that tire does not rotate relative to rim.
- 5. Inflate tire and fit to appropriate wheel position.



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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

Kind of wheel	Aluminum		
Maximum radial runout limit	Lateral deflection	Less than 0.3 mm (0.012 in)	
Maximum radiai runodi iiniit	Vertical deflection	Less than 0.3 min (0.012 m)	
Maximum allowable unbalance limit	Dynamic (At flange)	Less than 5 g (0.17 oz) (one side)	
Maximum allowable unbalance limit	Static (At flange)	Less than 10 g (0.35 oz)	
Wheel nuts tighting torque		108 N⋅m (11 kg-m, 80 ft-lb)	

Tire (NFOID:000000001911128

Unit: kPa (kg/cm<sup>2</sup>, psi)

Tire size	Air pressure					
Tile 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	230 (2.3, 33)	-				
245/45R18 96W	_	230 (2.3, 33)				
T145/80D17	420 (4.2, 60)	420 (4.2, 60)				