

WT

SECTION

ROAD WHEELS & TIRES

A
B
C
D

WT

CONTENTS

PRECAUTION	3	List of ECU Reference	11
PRECAUTIONS	3	WIRING DIAGRAM	12
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	3	TIRE PRESSURE MONITORING SYSTEM	12
Service Notice or Precautions	3	Wiring Diagram	12
PREPARATION	4	BASIC INSPECTION	17
PREPARATION	4	DIAGNOSIS AND REPAIR WORK FLOW	17
Special Service Tool	4	Work Flow	17
Commercial Service Tool	4	ADDITIONAL SERVICE WHEN REPLACING BCM	19
SYSTEM DESCRIPTION	5	Description	19
COMPONENT PARTS	5	Work Procedure	19
Component Parts Location	5	TRANSMITTER WAKE UP OPERATION	20
Component Description	5	Description	20
BCM	5	Work Procedure	20
Transmitter	6	ID REGISTRATION	21
Tire pressure receiver	6	Description	21
Information Display	6	Work Procedure	21
SYSTEM	7	DTC/CIRCUIT DIAGNOSIS	23
TIRE PRESSURE MONITORING SYSTEM	7	C1704, C1705, C1706, C1707 LOW TIRE PRESSURE	23
TIRE PRESSURE MONITORING SYSTEM : System Description	7	Description	23
DIAGNOSIS SYSTEM (BCM)	8	DTC Logic	23
COMMON ITEM	8	Diagnosis Procedure	23
COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)	8	Special Repair Requirement	24
AIR PRESSURE MONITOR	9	C1708, C1709, C1710, C1711 TRANSMITTER	25
AIR PRESSURE MONITOR : CONSULT-III Function (BCM - AIR PRESSURE MONITOR)	9	DTC Logic	25
ECU DIAGNOSIS INFORMATION	11	Diagnosis Procedure	25
BCM	11	Special Repair Requirement	27
		C1716, C1717, C1718, C1719 TRANSMITTER	28
		DTC Logic	28

Diagnosis Procedure	28	LOW TIRE PRESSURE WARNING LAMP	
Special Repair Requirement	29	BLINKS	43
C1729 VEHICLE SPEED SIGNAL	30	Description	43
Description	30	Diagnosis Procedure	43
DTC Logic	30		
Diagnosis Procedure	30	ID REGISTRATION CANNOT BE COMPLETED	44
Special Repair Requirement	30	Description	44
C1734 BCM	32	Diagnosis Procedure	44
DTC Logic	32		
Diagnosis Procedure	32	NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING	45
Special Repair Requirement	33	NVH Troubleshooting Chart	45
TIRE PRESSURE RECEIVER	34		
Component Function Check	34	PERIODIC MAINTENANCE	46
Diagnosis Procedure	34		
LOW TIRE PRESSURE WARNING LAMP	36	ROAD WHEEL	46
Component Function Check	36	Adjustment	46
Diagnosis Procedure	36		
POWER SUPPLY AND GROUND CIRCUIT	37	REMOVAL AND INSTALLATION	48
Diagnosis Procedure	37		
SYMPTOM DIAGNOSIS	38	ROAD WHEEL TIRE ASSEMBLY	48
TPMS	38	Exploded View	48
Symptom Table	38	Removal and Installation	48
LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON	41	Inspection	48
Description	41		
Diagnosis Procedure	41	TRANSMITTER	50
LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF	42	Exploded View	50
Description	42	Removal and Installation	50
Diagnosis Procedure	42		
TIRE PRESSURE RECEIVER	52	SERVICE DATA AND SPECIFICATIONS (SDS)	53
Removal and Installation	52		
SERVICE DATA AND SPECIFICATIONS (SDS)	53		
Road Wheel	53		
Tire Air Pressure	53		

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:0000000006347269

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

Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Service Notice or Precautions

INFOID:0000000006347270

- Low tire pressure warning lamp blinks for 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 [WT-9, "AIR PRESSURE MONITOR : CONSULT-III Function \(BCM - AIR PRESSURE MONITOR\)"](#), [WT-21, "Work Procedure"](#).
- ID registration is required when replacing or rotating wheels, replacing transmitter or BCM. Refer to [BCS-86, "Exploded View"](#).
- Replace grommet seal, valve core and cap of transmitter in TPMS every tire replacement by reaching wear limit of tire. Refer to [WT-50, "Exploded View"](#).

PREPARATION

<PREPARATION>

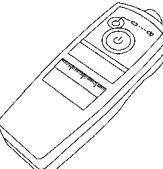
PREPARATION

PREPARATION

Special Service Tool

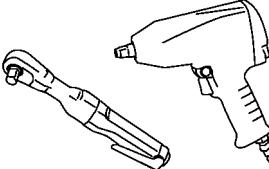
INFOID:000000006347271

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

Tool number (Kent-Moore No.)	Description
— (J-45295) Transmitter activation tool	 SEIA0462E ID registration

Commercial Service Tool

INFOID:000000006347272

Tool name	Description
Power tool	 PBIC0190E Loosening wheel nuts

COMPONENT PARTS

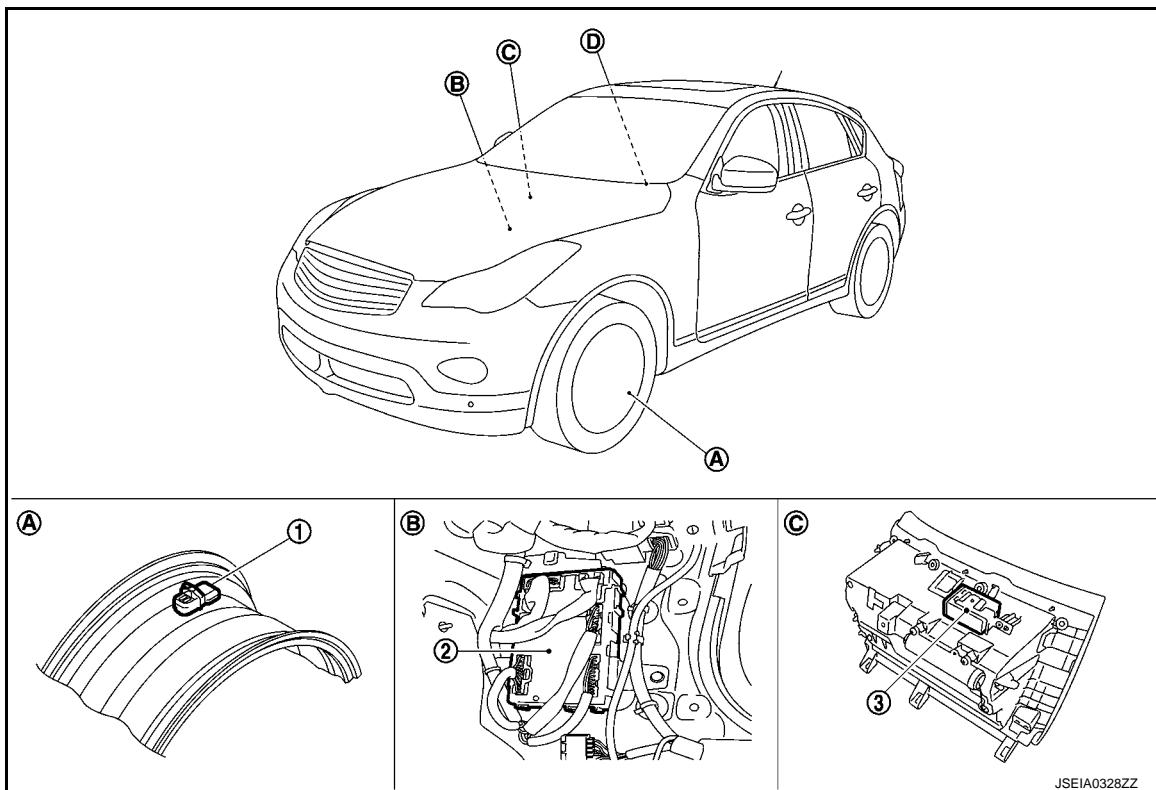
< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:000000006347273



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

Component Description

INFOID:000000006347274

Component parts	Function
BCM (Body Control Module)	WT-5, "BCM".
Transmitter	WT-6, "Transmitter".
Tire pressure receiver	WT-6, "Tire pressure receiver".
Turn signal lamp	ID registration of each wheel has been completed, turn signal lamp flashes.
Unified meter and A/C amp.	Transmits the vehicle speed signal via CAN communication to BCM. Receives the following signals via CAN communication for BCM. <ul style="list-style-type: none">• Low tire pressure warning lamp signal• TPMS warning lamp signal
Low tire pressure warning lamp	WT-7, "TIRE PRESSURE MONITORING SYSTEM : System Description"
Information display	WT-6, "Information Display"

BCM

INFOID:000000006347275

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

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Transmitter

INFOID:000000006347276

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

Tire pressure receiver

INFOID:000000006347277

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

Information Display

INFOID:000000006845281

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

Condition	Vehicle information display
Ignition switch OFF	Non-indication
Low tire pressure	Indication

SYSTEM

< SYSTEM DESCRIPTION >

SYSTEM

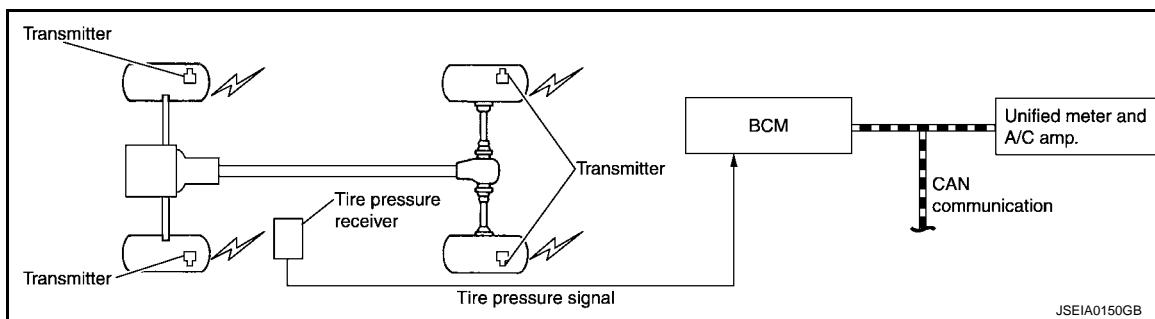
TIRE PRESSURE MONITORING SYSTEM

TIRE PRESSURE MONITORING SYSTEM : System Description

INFOID:000000006845283

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

SYSTEM DIAGRAM



INPUT/OUTPUT SIGNAL

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

Component parts	Signal item
BCM	Transmits the following signals via CAN communication to unified meter and A/C amp. <ul style="list-style-type: none">• Low tire pressure warning lamp signal
Unified meter and A/C amp.	Transmits the vehicle speed signal via CAN communication to BCM.

LOW TIRE PRESSURE WARNING LAMP INDICATION CONDITION

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

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:000000006347283

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	<ul style="list-style-type: none">• Read and save the vehicle specification.• Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

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

×: Applicable item

System	Sub system selection item	Diagnosis mode		
		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 CONDITIONER*			
• Intelligent Key system • Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
—	TRUNK*		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

NOTE:

*: This item is displayed, but is not used.

FREEZE FRAME DATA (FFD)

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected
Vehicle Condition	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	0 - 39	<p>The number of times that ignition switch is turned ON after DTC is detected</p> <ul style="list-style-type: none"> The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.

AIR PRESSURE MONITOR

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

INFOID:000000006347285

WORK SUPPORT MODE

ID Read

The registered ID number is displayed.

ID Regist

Refer to [WT-21, "Work Procedure".](#)

SELF-DIAG RESULTS MODE

Operation Procedure

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

Refer to [BCS-80, "DTC Index"](#).

DATA MONITOR MODE

Screen of data monitor mode is displayed.

NOTE:

When malfunction is detected, CONSULT-III perform REAL-TIME DIAGNOSIS. Also, any malfunction detected while in this mode will be displayed at real time.

Display item list

Monitor	Condition	Specification
AIR PRESS FL AIR PRESS FR AIR PRESS RR AIR PRESS RL	<ul style="list-style-type: none">Drive vehicle for a few minutes. orIgnition switch ON and transmitter activation tool is transmitting activation signals.	Tire pressure (kPa, kg/cm ² or Psi)
ID REGST FL1 ID REGST FR1 ID REGST RR1 ID REGST RL1	Ignition switch ON	Registration ID: Green No registration: Red
WARNING LAMP		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.
FLASHER	This test is able to check to check that each turn signal lamp turns on.
HORN	This test is able to check to check that the horn sounds.

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:000000006347286

A

B

C

D

WT

F

G

H

I

J

K

L

M

N

O

P

ECU	Reference
BCM	BCS-47, "Reference Value"
	BCS-77, "Fail-safe"
	BCS-79, "DTC Inspection Priority Chart"
	BCS-80, "DTC Index"

TIRE PRESSURE MONITORING SYSTEM

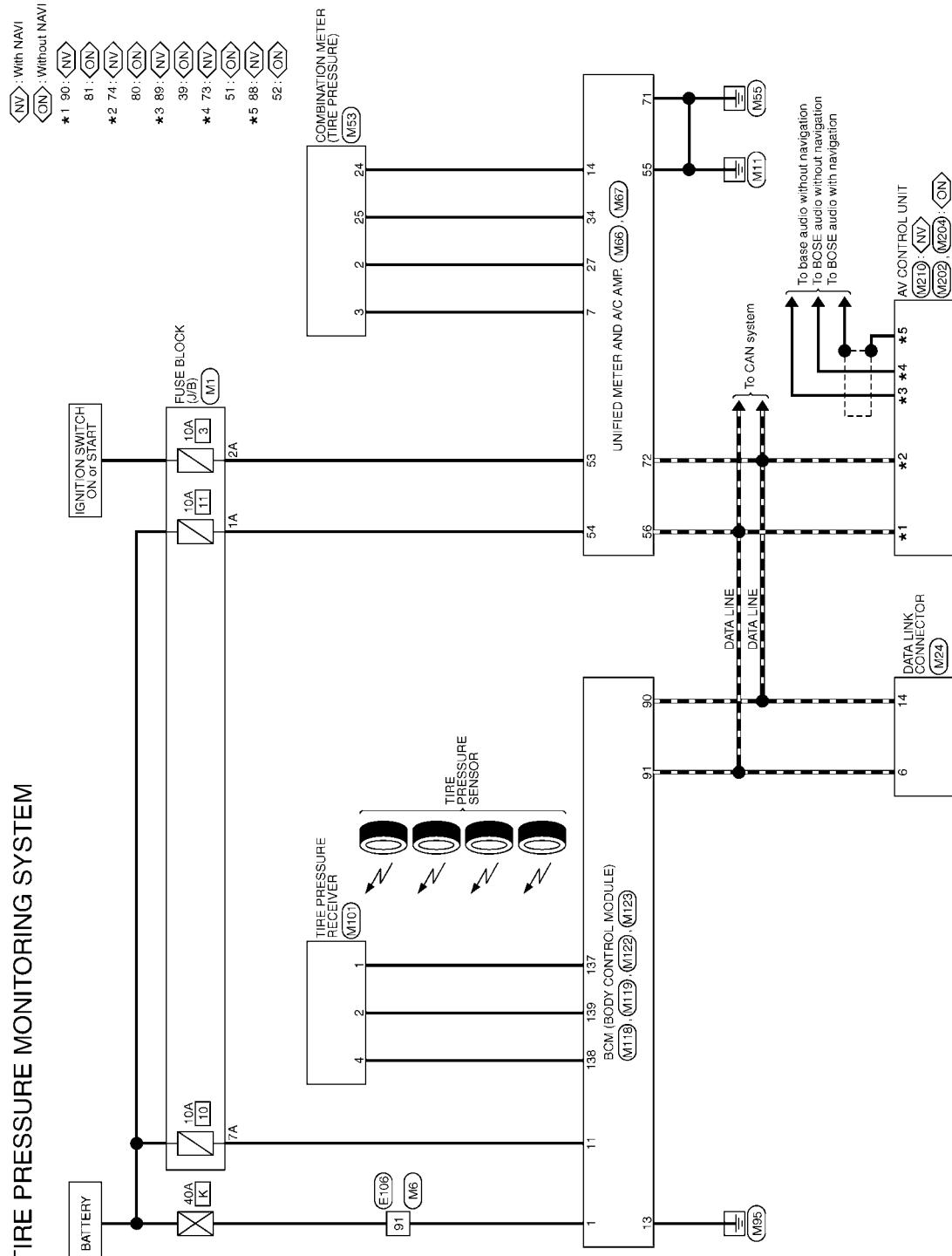
< WIRING DIAGRAM >

WIRING DIAGRAM

TIRE PRESSURE MONITORING SYSTEM

Wiring Diagram

INFOID:0000000006347287



JCEWA0193GB

2010/09/21

TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

A

B

C

D

WT

F

G

H

I

K

L

M

N

O

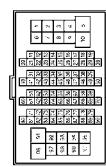
P

TIRE PRESSURE MONITORING SYSTEM

Connector No. E106

Connector Name WIRE TO WIRE

Connector Type TH0FW-CS16-TM4



49	L	-	-
50	P	-	-
51	L	-	-
52	L	-	-

53	P	-	-
54	BG	-	-
55	BR	-	-
57	BR	-	-

59	W	-	-
60	LG	-	-
61	G	-	-
62	SB	-	-

63	W	-	-
64	B	-	-
65	G	-	-
66	R	-	-

67	SHIELD	-	-
68	Y	-	-
69	LG	-	-
70	W	-	-

71	R	-	-
72	Y	-	-
73	B	-	-
74	BR	-	-

74	BR	-	-
75	G	-	-
75	W	-	-
76	W	-	-

76	Y	-	-
77	R	-	-
77	P	-	-
78	L	-	-

78	BR	-	-
79	Y	-	-
79	L	-	-
80	SB	-	-

81	R	-	-
82	SB	-	-
83	LG	-	-
84	G	-	-

85	L	-	-
86	P	-	-
87	V	-	-
88	GR	-	-

89	SHIELD	-	-
91	W	-	-
92	Y	-	-
93	V	-	-

94	LG	-	-
95	BR	-	-
96	P	-	-
97	R	-	-

JCEWA0194GB

TIRE PRESSURE MONITORING SYSTEM

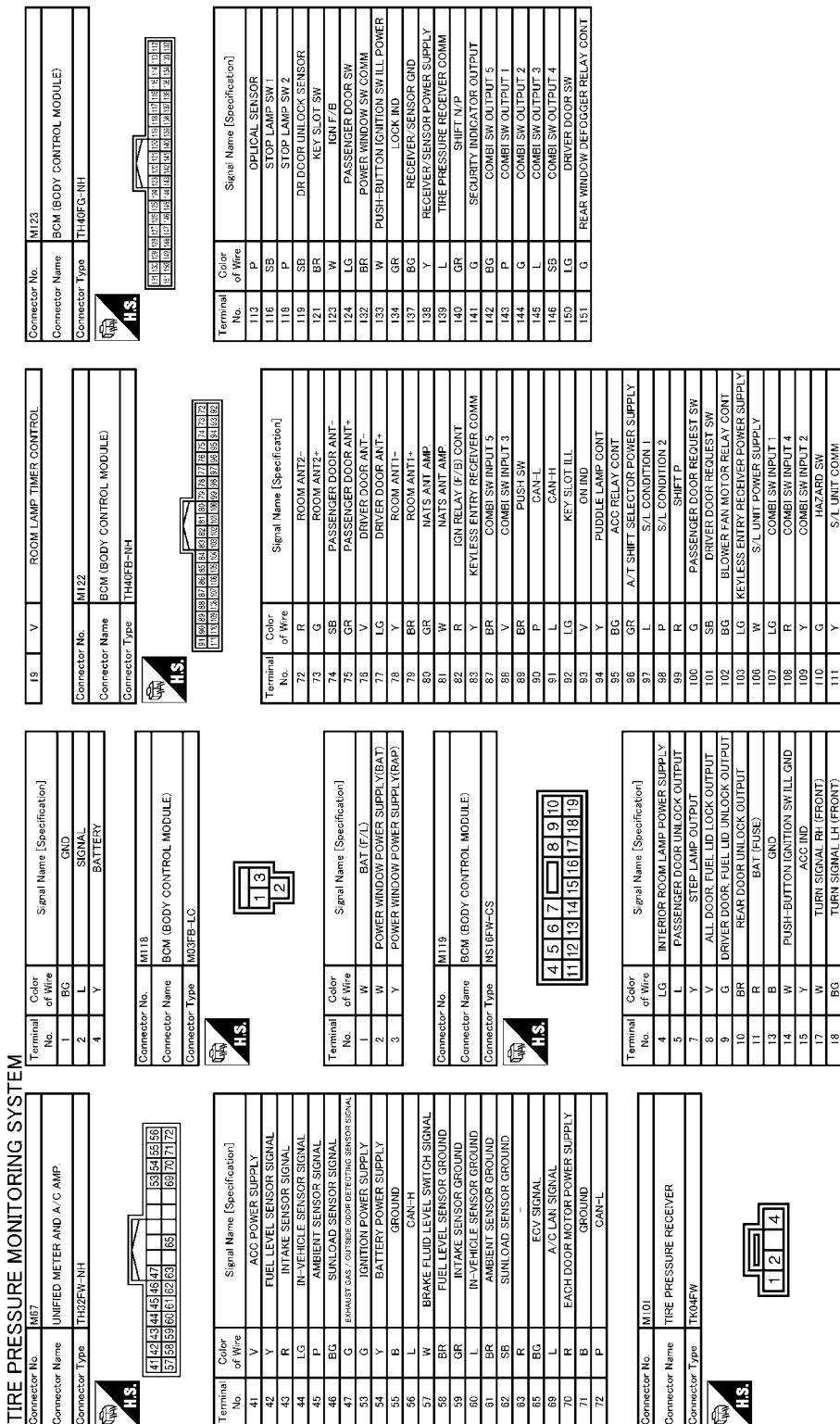
< WIRING DIAGRAM >

TIRE PRESSURE MONITORING SYSTEM

JCEWA0195GB

TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >



JCEWA0196GB

TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH32-FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
65	V	PARKING BRAKE SIGNAL
67	G	COMPOSITE IMAGE SIGNAL GND
68	R	COMPOSITE IMAGE SIGNAL
71	SHIELD	MICROPHONE SHIELD
72	R	MICROPHONE VCC
73	R	COMM (CONT > DISP)
74	P	CAN-L
75	LG	AV COMM (L)
76	LG	AV COMM (L)
79	R	ILLUMINATION
80	G	IGNITION SIGNAL
81	BG	REVERSE SIGNAL
82	R	VEHICLE SPEED SIGNAL (6-PULSE)
83	SHIELD	SHIELD
87	G	MICROPHONE SIGNAL
88	SHIELD	SHIELD
89	G	COMM (DISP-CNTL)
90	L	CAN-H
91	SB	AV COMM (H)
92	SB	AV COMM (H)

Terminal No.	Color of Wire	Signal Name [Specification]
76	LG	AV COMM (L)
77	SB	AV COMM (H)
78	LG	AV COMM (L)

JCEWA0197GB

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000006347288

DETAILED FLOW

1. COLLECT THE INFORMATION FROM THE CUSTOMER

It is also important to clarify customer concerns before starting the inspection. Reproduce the symptom, and understand it fully. Interview the customer about the concerns carefully. In some cases, it is necessary to check the symptoms by driving the vehicle with the customer.

CAUTION:

Customers are not professionals. Never assume "maybe the customer means..." or "maybe the customer mentioned this symptom.

A

B

C

D

WT

F

G

H

I

J

K

L

M

N

O

P

>> GO TO 2.

2. BASIC INSPECTION

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-53, "Tire Air Pressure".](#)

Is the inspection result normal?

YES >> GO TO 3.

NO >> Inspect or repair the tires or wheels.

3. CHECK LOW TIRE PRESSURE WARNING LAMP

Check low tire pressure warning lamp display.

Does not low tire pressure warning lamp turn OFF?

YES >> GO TO 4.

NO >> INSPECTION END

4. CRUISE TEST

Start the engine and drive the vehicle.

>> GO TO 5.

5. PERFORM SELF-DIAGNOSIS

 **With CONSULT-III**

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

Is any DTC detected?

YES >> GO TO 7.

NO >> GO TO 6.

6. CHECK SYMPTOM

Perform trouble diagnosis for the applicable symptom. Refer to [WT-38, "Symptom Table".](#)

Is the cause of the malfunction detected?

YES >> GO TO 8.

NO >> GO TO 10.

7. CIRCUIT DIAGNOSIS

Inspect the malfunctioning system indicated by the DTC code that is detected during self-diagnosis. Refer to [BCS-80, "DTC Index".](#)

>> GO TO 8.

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

8.REPAIR WORK

Repair or replace the malfunctioning part.

>> GO TO 9.

9.PERFORM SELF-DIAGNOSIS

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

Is any DTC detected?

YES >> GO TO 7.

NO >> GO TO 10.

10.FINAL CHECK

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

Does the tire pressure warning lamp turn OFF?

YES >> INSPECTION END

NO >> GO TO 2.

ADDITIONAL SERVICE WHEN REPLACING BCM

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REPLACING BCM

Description

INFOID:000000006845259

When replacing BCM, transmitter ID registration is required.

Work Procedure

INFOID:000000006845260

1. PERFORM TRANSMITTER ID REGISTRATION

Perform transmitter ID registration.

>> Refer to [WT-21, "Work Procedure".](#)

D

WT

F

G

H

I

J

K

L

M

N

O

P

TRANSMITTER WAKE UP OPERATION

< BASIC INSPECTION >

TRANSMITTER WAKE UP OPERATION

Description

INFOID:0000000006845261

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

Work Procedure

INFOID:0000000006845262

1. TRANSMITTER WAKE-UP PROCEDURE

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

NOTE:

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

Low tire pressure warning lamp blinking timing	Activation tire position
ON OFF	a : 0.3 sec. b : 1.0 sec.
ON OFF	a : 0.3 sec. b : 1.0 sec.
ON OFF	a : 0.3 sec. b : 1.0 sec.
ON OFF	a : 0.3 sec. b : 1.0 sec.
ON OFF	a : 2 sec. b : 0.2 sec.

JPEIC0089GB

2. Contact the transmitter activation tool (J-45295) (1) to the side of the tire at the location to the transmitter.

3. Press and hold the activation tool button while pushing the tool to the tire surface. (approximately for 5 seconds)

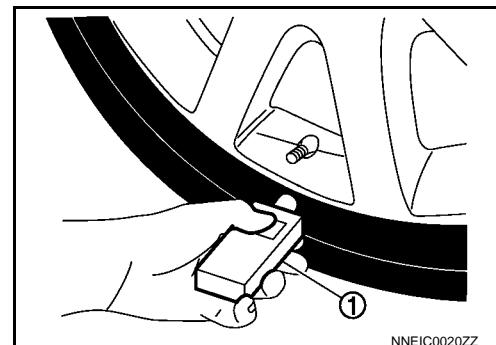
CAUTION:

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

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

Is the transmitter wake-up procedure completed?

YES >> Perform the transmitter ID registration procedure. Refer to [WT-21, "Work Procedure"](#).
NO >> Perform trouble diagnosis for the transmitter. Refer to [WT-25, "Diagnosis Procedure"](#).



NNEIC0020ZZ

ID REGISTRATION

< BASIC INSPECTION >

ID REGISTRATION

Description

INFOID:0000000006845263

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

Work Procedure

INFOID:0000000006845264

1. TRANSMITTER ID REGISTRATION PROCEDURE

With CONSULT-III.

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

Is the transmitter activation tool (J-45295) used for the transmitter ID registration procedure?

YES >> GO TO 2.

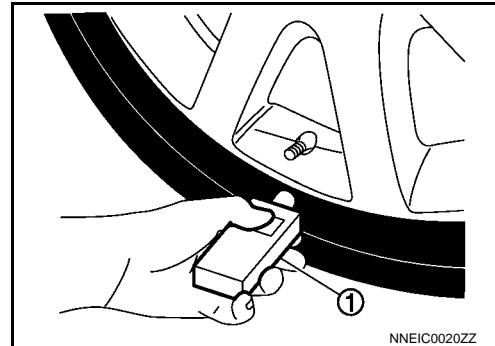
NO >> GO TO 3.

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

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

CAUTION:

Perform the ID registration procedure starting from the vehicle front left wheel, then repeat the procedure in the order of the front right wheel, rear right wheel, and rear left wheel.



NNEIC0020ZZ

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

Se- quence	ID registration position	Turn signal lamp	CONSULT-III
1	Front left wheel		
2	Front right wheel		
3	Rear right wheel	2 blinks	"Red" ↓ "Green"
4	Rear left wheel		

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

Is the check result normal?

YES >> ID registration END.

NO >> Performs trouble-diagnosis of the Tire Pressure Monitoring System (TPMS). Refer to [BCS-80, "DTC Index".](#)

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

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

Tire position	Tire pressure kPa (kg/cm ² , psi)
Front LH	240 (2.4, 35)
Front RH	220 (2.2, 31)
Rear RH	200 (2.0, 29)
Rear LH	180 (1.8, 26)

ID REGISTRATION

< BASIC INSPECTION >

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

ID registration position	CONSULT-III
Front LH	"Red" ↓ "Green"
Front RH	
Rear RH	
Rear LH	

4. Adjust the tire pressures for all wheels to the specified value. Refer to [WT-53, "Tire Air Pressure"](#).

Is ID registrations for all wheels completed?

YES >> ID registration END.

NO >> Performs trouble-diagnosis of the Tire Pressure Monitoring System (TPMS). Refer to [BCS-80, "DTC Index"](#).

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

Description

INFOID:000000006347293

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:000000006347294

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
C1704	LOW PRESSURE FL	Front LH tire pressure drops to * kPa (* kg/cm ² , * psi) or less. [NOTE]	
C1705	LOW PRESSURE FR	Front RH tire pressure drops to * kPa (* kg/cm ² , * psi) or less. [NOTE]	
C1706	LOW PRESSURE RR	Rear RH tire pressure drops to * kPa (* kg/cm ² , * psi) or less. [NOTE]	
C1707	LOW PRESSURE RL	Rear LH tire pressure drops to * kPa (* kg/cm ² , * psi) or less. [NOTE]	<ul style="list-style-type: none"> Low tire pressure Transmitter malfunction

NOTE:

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

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

④With CONSULT-III

- Turn the ignition switch ON.

CAUTION:

Never start the engine.

- Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-53, "Tire Air Pressure"](#).
- Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

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

YES >> Perform trouble diagnosis. Refer to [WT-23, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000006347295

1.CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to [WT-53, "Tire Air Pressure"](#).

Is the inspection result normal?

YES >> Replace the DTC-detected malfunctioning transmitter. Refer to [WT-50, "Exploded View"](#).
NO >> After adjusting the air pressure, GO TO 2.

2.CHECK TIRE PRESSURE SIGNAL

④With CONSULT-III

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

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

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

CAUTION:

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

Is the inspection result normal?

YES >> Inspect or repair the tires or wheels and adjust the tire pressure to the specification.
NO >> GO TO 1.

Special Repair Requirement

INFOID:000000006347296

1.CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-53, "Tire Air Pressure"](#).

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-21, "Work Procedure"](#).

>> END

C1708, C1709, C1710, C1711 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

C1708, C1709, C1710, C1711 TRANSMITTER

DTC Logic

INFOID:0000000006347297

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
C1708	[NO DATA] FL	Tire pressure data signal from the front left wheel transmitter cannot be detected.	<ul style="list-style-type: none">• Harness or connector (Tire pressure receiver, BCM)• ID registration is not finished• Transmitter malfunction• BCM malfunction
C1709	[NO DATA] FR	Tire pressure data signal from the front right wheel transmitter cannot be detected.	
C1710	[NO DATA] RR	Tire pressure data signal from the rear right wheel transmitter cannot be detected.	
C1711	[NO DATA] RL	Tire pressure data signal from the rear left wheel transmitter cannot be detected.	

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

④ With CONSULT-III

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

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

YES >> Perform trouble diagnosis. Refer to [WT-25, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006347298

1.CHECK TIRE PRESSURE SIGNAL

④ With CONSULT-III

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

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

CAUTION:

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

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

YES >> GO TO 2.

NO >> GO TO 5.

2.CHECK HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

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

C1708, C1709, C1710, C1711 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

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

- Check the continuity between BCM harness connector and ground.

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace damaged parts.

3.CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

- Connect the BCM harness connector.
- Turn the ignition switch ON.
- Check the voltage between the BCM harness connector and ground.

BCM		—	Voltage
Connector	Terminal		
M123	138	Ground	5 V

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace damaged parts.

4.CHECK TIRE PRESSURE RECEIVER

Check tire pressure receiver. Refer to [WT-34, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace tire pressure receiver. Refer to [WT-52, "Removal and Installation"](#).

5.CHECK ID REGISTRATION

Perform ID registration of all transmitters. Refer to [WT-21, "Work Procedure"](#).

Can ID registration of all transmitters be completed?

YES >> GO TO 6.
NO >> Replace transmitter. Refer to [WT-50, "Exploded View"](#).

6.CHECK TIRE PRESSURE MONITORING SYSTEM

With CONSULT-III

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

C1708, C1709, C1710, C1711 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

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

CAUTION:

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

Is the inspection result normal?

YES >> Replace the DTC-detected malfunctioning transmitter. Refer to [WT-50, "Exploded View"](#).
NO >> Replace BCM. Refer to [BCS-86, "Exploded View"](#).

Special Repair Requirement

INFOID:0000000006347299

WT

1. CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-53, "Tire Air Pressure"](#).

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-21, "Work Procedure"](#).

>> END

A

B

C

D

F

G

H

I

J

K

L

M

N

O

P

C1716, C1717, C1718, C1719 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

C1716, C1717, C1718, C1719 TRANSMITTER

DTC Logic

INFOID:0000000006347300

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible case
C1716	[PRESSDATA ERR] FL	Malfunction in the tire pressure data from the front left wheel transmitter.	<ul style="list-style-type: none">• ID registration is not finished• Transmitter malfunction
C1717	[PRESSDATA ERR] FR	Malfunction in the tire pressure data from the front right wheel transmitter.	
C1718	[PRESSDATA ERR] RR	Malfunction in the tire pressure data from the rear right wheel transmitter.	
C1719	[PRESSDATA ERR] RL	Malfunction in the tire pressure data from the rear left wheel transmitter.	

DTC CONFIRMATION PROCEDURE

1. DTC REPRODUCTION PROCEDURE

With CONSULT-III

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-53, "Tire Air Pressure"](#).
3. Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

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

YES >> Perform trouble diagnosis. Refer to [WT-28, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006347301

1. CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to [WT-53, "Tire Air Pressure"](#).

Is the inspection result normal?

YES >> Replace the DTC-detected malfunctioning transmitter. Refer to [WT-50, "Exploded View"](#).

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

2. CHECK TIRE PRESSURE SIGNAL

With CONSULT-III

1. Check and adjust the tire pressure for all wheels. Refer to [WT-53, "Tire Air Pressure"](#).
2. Perform transmitter ID registration for all wheels. Refer to [WT-21, "Work Procedure"](#).
3. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
4. Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
5. Select "BCM" in "DATA MONITOR", and check that the tire pressures match the standard value.

CAUTION:

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

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

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

YES >> Replace transmitter the tire pressure 438.60 kPa (4.386 bar, 4.47 kg/cm², 63.60 Psi) displayed. Refer to [WT-50, "Exploded View"](#).

NO >> GO TO 1.

C1716, C1717, C1718, C1719 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

Special Repair Requirement

INFOID:000000006347302

1. CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-53, "Tire Air Pressure"](#).

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-21, "Work Procedure"](#).

>> END

A

B

C

D

WT

F

G

H

I

J

K

L

M

N

O

P

C1729 VEHICLE SPEED SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

C1729 VEHICLE SPEED SIGNAL

Description

INFOID:0000000006347303

BCM detects no vehicle speed signal.

DTC Logic

INFOID:0000000006347304

DTC DETECTION LOGIC

DTC number	Trouble diagnosis name	DTC detecting condition	Possible case
C1729	VHCL SPEED SIG ERR	Vehicle speed signal not detected.	<ul style="list-style-type: none">• CAN communication error• Unified meter and A/C amp. malfunction

DTC CONFIRMATION PROCEDURE

1. DTC REPRODUCTION PROCEDURE

(B) With CONSULT-III

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

Is DTC "C1729" detected?

YES >> Perform trouble diagnosis. Refer to [WT-30, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006347305

1. PERFORM UNIFIED METER AND A/C AMP. SELF-DIAGNOSIS

(B) With CONSULT-III

Perform "SELF-DIAG RESULTS" of "METER/M&A".

Is any DTC detected?

YES >> Check the DTC. Refer to [MWI-106, "DTC Index"](#).

NO >> GO TO 2.

2. PERFORM SELF-DIAGNOSIS

(B) With CONSULT-III

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

Is DTC "C1729" detected?

YES >> Replace BCM. Refer to [WT-8, "COMMON ITEM : CONSULT-III Function \(BCM - COMMON ITEM\)"](#).

NO >> GO TO 3.

3. CHECK INFORMATION

(B) With CONSULT-III

1. Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".

2. Select "BCM" in "DATA MONITOR", and check the input/output values. Refer to [BCS-47, "Reference Value"](#).

Is the inspection result normal?

YES >> Check pin terminal and connection of each harness connector for malfunctioning conditions.

NO >> Replace BCM. Refer to [BCS-86, "Exploded View"](#).

Special Repair Requirement

INFOID:0000000006347306

1. CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-53, "Tire Air Pressure"](#).

Does all tire pressure data meet the specification?

C1729 VEHICLE SPEED SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

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-21, "Work Procedure"](#).

>> END

A

B

C

D

WT

F

G

H

I

J

K

L

M

N

O

P

< DTC/CIRCUIT DIAGNOSIS >

C1734 BCM

DTC Logic

INFOID:0000000006347307

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. DTC REPRODUCTION PROCEDURE

With CONSULT-III

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

CAUTION:

Perform within 15 minutes after stop the vehicle.

Is DTC "C1734" detected?

YES >> Perform trouble diagnosis. Refer to [WT-32, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000006347308

1. CHECK BCM POWER SUPPLY

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

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

Is the power supply normal?

YES >> GO TO 2.

NO >> Check the following. If any items are damaged, repair or replace damage parts.

- 40A fusible link [No. K located in the fuse block]. Refer to [PG-132, "Fuse and Fusible Link Arrangement"](#).
- 10A fuse [No. 10 located in the fuse block (J/B)]. Refer to [PG-133, "Fuse, Connector and Terminal Arrangement"](#).
- Harness for short or open between battery and BCM harness connector M118 terminal 1.
- Harness for short or open between battery and BCM harness connector M119 terminal 11.
- Check the Battery voltage.

2. CHECK BCM GROUND

Check the continuity between BCM harness connector and ground.

BCM		—	Continuity
Connector	Terminal		
M119	13	Ground	Existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

3. CHECK HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

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

C1734 BCM

< DTC/CIRCUIT DIAGNOSIS >

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

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

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

A
B
C
D

WT

Is the inspection result normal?

F

YES >> GO TO 4.
NO >> Repair or replace damaged parts.

4. CHECK BCM

Check the BCM input/output signal. Refer to [BCS-47, "Reference Value"](#).

Is the inspection result normal?

G

H

YES >> INSPECTION END
NO >> GO TO 5.

5. CHECK BCM HARNESS CONNECTOR

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

I

Is the inspection result normal?

J

K

L

M

N

YES >> Replace BCM. Refer to [BCS-86, "Exploded View"](#).

O

P

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

Special Repair Requirement

INFOID:0000000006347309

1. CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-53, "Tire Air Pressure"](#).

Does all tire pressure data meet the specification?

L

M

N

O

P

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-21, "Work Procedure"](#).

>> END

TIRE PRESSURE RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

TIRE PRESSURE RECEIVER

Component Function Check

INFOID:0000000006347310

1. TIRE PRESSURE MONITORING SYSTEM OPERATION

With CONSULT-III

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

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

CAUTION:

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Perform trouble diagnosis. Refer to [WT-34, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000006347311

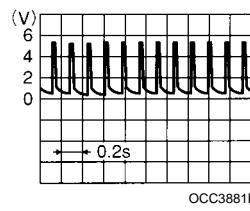
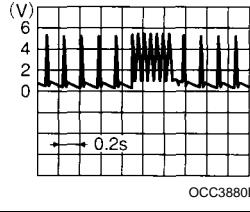
1. CHECK TIRE PRESSURE RECEIVER SIGNAL

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

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

Tire pressure receiver	—	Condition	Voltage (Approx.)
Connector	Terminal		
M101	2	Ground	Stand by state
			
			When receiving the signal from the transmitter
			

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK TIRE PRESSURE RECEIVER INPUT VOLTAGE

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

TIRE PRESSURE RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

Tire pressure receiver		—	Voltage (Approx.)
Connector	Terminal		
M101	4	Ground	5.0 V

A

Is the inspection result normal?

B

YES >> GO TO 3.

C

NO >> Repair or replace damaged parts.

D

3.CHECK TIRE PRESSURE RECEIVER GROUND CIRCUIT

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

E

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

F

3. Check continuity between BCM harness connector and ground.

G

BCM		—	Continuity
Connector	Terminal		
M123	137	Ground	Not existed

H

Is the inspection result normal?

I

YES >> GO TO 4.

J

NO >> Repair or replace damaged parts.

K

4.CHECK BCM CIRCUIT

L

Inspect the BCM circuit. Refer to [WT-32, "Diagnosis Procedure"](#).

M

Is the BCM circuit normal?

N

YES >> Replace tire pressure receiver. Refer to [WT-52, "Removal and Installation"](#).

O

NO >> Replace BCM. Refer to [BCS-86, "Exploded View"](#).

P

LOW TIRE PRESSURE WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP

Component Function Check

INFOID:0000000006347314

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Perform trouble diagnosis. Refer to [WT-36, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000006347315

1. POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit. Refer to [WT-37, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace damaged parts.

2. PERFORM SELF-DIAGNOSIS

With CONSULT-III

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

Is any DTC detected?

YES >> Check the DTC. Refer to [BCS-80, "DTC Index"](#).

NO >> GO TO 3.

3. CHECK LOW TIRE PRESSURE WARNING LAMP SIGNAL

With CONSULT-III

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

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

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

Is the inspection result normal?

YES >> Check the combination meter. Refer to [MWI-6, "METER SYSTEM : System Description"](#).

NO >> Replace the BCM. Refer to [BCS-86, "Exploded View"](#).

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000006347316

1. POWER SUPPLY SYSTEM CHECK

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

CAUTION:
Never start the engine.

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

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

Is the inspection result normal?

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

2. GROUND SYSTEM INSPECTION

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

BCM		—	Continuity
Connector	Terminal		
M119	13	Ground	Existed

Is the inspection result normal?

YES >> • Check the 10 A fuse [No. 10 in fuse block (J/B)].
• Check the 40 A fusible link [No. K in fuse block].
NO >> Repair or replace damaged parts.

<SYMPTOM DIAGNOSIS>

SYMPTOM DIAGNOSIS

TPMS

Symptom Table

INFOID:000000006347317

LOW TIRE PRESSURE WARNING LAMP SYMPTOM CHART

< SYMPTOM DIAGNOSIS >

Diagnosis items	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
Low tire pressure warning lamp	The low tire pressure warning lamp illuminates for 1 second, then turns OFF.	  ON 1 sec > stays OFF SEIA0592E	Wake-up operation for all transmitters at wheels is completed.	No system malfunctions
	The low tire pressure warning lamp repeats blinking ON for 2 seconds and OFF for 0.2 seconds.	 Blinks:  ON 2 sec > OFF 0.2 sec SEIA0593E	Wake-up operation for all transmitters at wheels is not completed.	Perform the wake-up operation for all transmitters at wheels. Refer to WT-20, "Work Procedure" .
	The low tire pressure warning lamp blinks once.	 Blinks 1 time ON 0.3 sec > OFF 1.0 sec JPEIC0090GB	The front left transmitter is not activated.	Perform the wake-up operation for the transmitter at front left wheel. Refer to WT-20, "Work Procedure" .
	The low tire pressure warning lamp repeats blinking twice.	  Blinks 2 times ON 0.3 sec > OFF 0.3 sec SEIA0595E	The front right transmitter is not activated.	Perform the wake-up operation for the transmitter at front right wheel. Refer to WT-20, "Work Procedure" .
	The low tire pressure warning lamp repeats blinking for 3 times.	   Blinks 3 times ON 0.3 sec > OFF 0.3 sec SEIA0596E	The rear right transmitter is not activated.	Perform the wake-up operation for the transmitter at rear right wheel. Refer to WT-20, "Work Procedure" .
	The low tire pressure warning lamp repeats blinking for 4 times.	    Blinks 4 times ON 0.3 sec > OFF 0.3 sec SEIA0597E	The rear left transmitter is not activated.	Perform the wake-up operation for the transmitter at rear left wheel. Refer to WT-20, "Work Procedure" .
	The low tire pressure warning lamp turns ON and stays illuminated.	 Comes ON and stays ON SEIA0598E	Low tire pressure	Check the tire pressure for all wheels and adjust to the specified value. Refer to WT-53, "Tire Air Pressure" .

A

B

C

D

WT

F

G

H

I

J

K

L

M

N

O

P

TPMS

< SYMPTOM DIAGNOSIS >

Diagnosis items	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
Low tire pressure warning lamp	The low tire pressure warning lamp repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated.	 Blinks 1 min ON 0.5 sec > OFF 0.5 sec and stays ON <small>SEIA0788E</small>	The combination meter fuse is open or removed (or pulled out).	Check and install the combination meter fuse. If necessary, replace the fuse.
			The BCM harness connector is removed.	Check the connection conditions of the BCM harness connector, and repair if necessary.
			Tire Pressure Monitoring System (TPMS) malfunction.	<ul style="list-style-type: none"> Perform CONSULT-III self-diagnosis. Refer to BCS-18, "COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)". If necessary, perform transmitter ID registration. Refer to WT-21, "Work Procedure".
Turn signal lamp	The turn signal lamps do not blink twice when the transmitter is activated. Or the buzzer does not sound.	—	<ol style="list-style-type: none"> The transmitter activation tool (J-45295) does not activate. The ignition switch is OFF when the transmitter wake-up operation is performed. The transmitter activation tool (J-45295) is not used in the correct position. The transmitter is already waked up. 	<ol style="list-style-type: none"> Replace the battery in the transmitter activation tool (J-45295). Turn the ignition switch ON when performing the transmitter wake-up operation. Operate the transmitter activation tool (J-45295) in the correct position when performing the wake-up operation. No procedure.

NOTE:

If transmitter wake-up operation is not completed for two or more transmitters, the applicable low tire pressure warning lamp blinking patterns are displayed continuously.

(Example: Blinks once/OFF/blinks 3 times = Wake-up operation is not completed at the front left wheel and rear right wheel transmitters.)

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

Description

INFOID:000000006347318

DESCRIPTION

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

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

Diagnosis Procedure

INFOID:000000006347319

1. CHECK LOW TIRE PRESSURE WARNING LAMP

Perform trouble diagnosis of the low tire pressure warning lamp. Refer to [WT-36, "Diagnosis Procedure"](#).

Is the inspection result normal?

WT

YES >> Check pin terminal and connection of each connector for damage and loose connection.
NO >> Repair or replace damaged parts.

F

G

H

I

J

K

L

M

N

O

P

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

Description

INFOID:0000000006347320

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

Diagnosis Procedure

INFOID:0000000006347321

1. CHECK TIRE PRESSURE

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-53, "Tire Air Pressure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Inspect or repair the tires or wheels.

2. CHECK LOW TIRE PRESSURE WARNING LAMP

Check low tire pressure warning lamp display.

Does not low tire pressure warning lamp turn OFF?

YES >> GO TO 3.

NO >> INSPECTION END

3. CHECK BCM

 With CONSULT-III

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

Is any DTC detected?

YES >> Check the DTC. Refer to [BCS-80, "DTC Index"](#).

NO >> GO TO 4.

4. CHECK BCM POWER SUPPLY AND GROUND

1. Turn the ignition switch OFF.

2. Disconnect the BCM harness connector.

3. Turn the ignition switch ON.

CAUTION:

Never start the engine.

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

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

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-86, "Exploded View"](#).

NO >> Repair or replace damaged parts.

LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP BLINKS

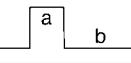
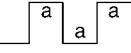
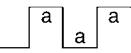
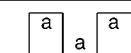
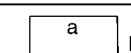
Description

INFOID:0000000006880834

The low tire pressure warning lamp blinks when the ignition switch is turned ON.

NOTE:

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

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

JPEIC0089GB

Diagnosis Procedure

INFOID:0000000006880835

1. TRANSMITTER WAKE-UP OPERATION

Perform the transmitter wake-up. Refer to [WT-20, "Work Procedure"](#).

Is the transmitter wake-up completed?

YES >> GO TO 2.

NO >> Perform trouble diagnosis for the transmitter. Refer to [WT-25, "Diagnosis Procedure"](#).

2. TRANSMITTER ID REGISTRATION

Perform transmitter ID registration. Refer to [WT-21, "Work Procedure"](#).

Is transmitter ID registration completed?

YES >> INSPECTION END

NO >> Perform the self-diagnosis for "AIR PRESSURE MONITOR". Refer to [BCS-80, "DTC Index"](#).

ID REGISTRATION CANNOT BE COMPLETED

< SYMPTOM DIAGNOSIS >

ID REGISTRATION CANNOT BE COMPLETED

Description

INFOID:0000000006845266

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

INFOID:0000000006845267

1. TRANSMITTER WAKE-UP

Perform the transmitter wake-up. Refer to [WT-20, "Work Procedure"](#).

Is the transmitter wake-up completed?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK ACTIVATION TOOL

Check activation tool.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace battery for activation tool, or repair or replace activation tool.

3. TRANSMITTER ID REGISTRATION

Perform transmitter ID registration. Refer to [WT-21, "Work Procedure"](#).

Is transmitter ID registration completed?

YES >> GO TO 4.

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

4. CHECK TIRE PRESSURE SIGNAL

With CONSULT-III

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. Stop the vehicle.
3. Select "DATA MONITOR" for "AIR PRESSURE MONITOR" with CONSULT-III.
4. Within 5 minutes after vehicle stopped, check that the tire pressures match the standard value.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Change the work location, then GO TO 3.

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

INFOID:0000000006347329

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

Reference page

Possible cause and SUSPECTED PARTS

x: Applicable

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

< PERIODIC MAINTENANCE >

PERIODIC MAINTENANCE

ROAD WHEEL

Adjustment

INFOID:000000006347330

BALANCING WHEELS (BONDING WEIGHT TYPE)

Preparation Before Adjustment

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

CAUTION:

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

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 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 unbalance value $\times 5/3$ = balance weight to be installed

Calculation example:

$23 \text{ g (0.81 oz)} \times 5/3 = 38.33 \text{ g (1.35 oz)} \Rightarrow 37.5 \text{ g (1.32 oz)}$ balance weight (closer to calculated balance weight value)

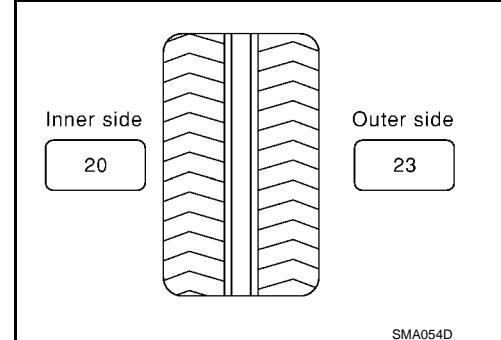
NOTE:

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

Example:

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

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



- b. Installed balance weight in the position.

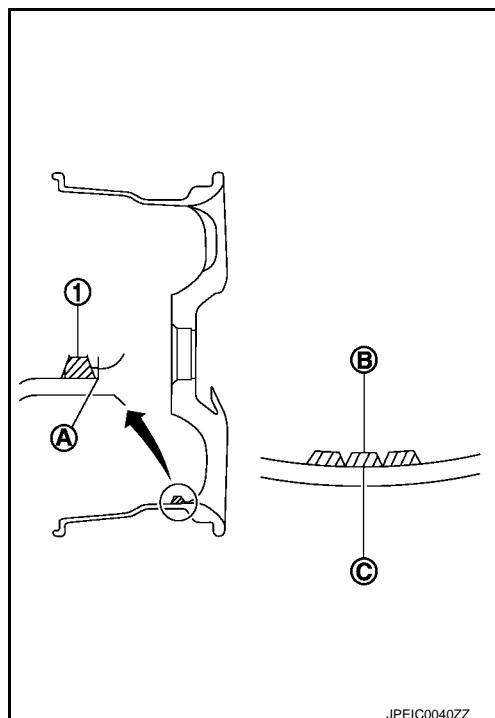
ROAD WHEEL

< PERIODIC MAINTENANCE >

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

CAUTION:

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

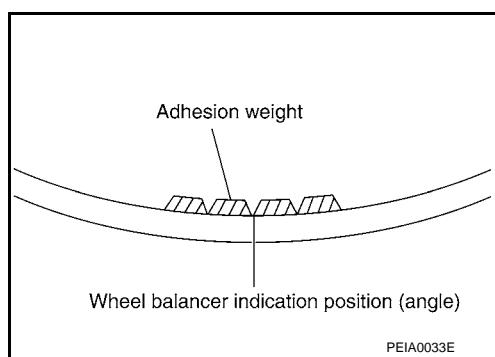


- If calculated balance weight value exceeds 50 g (1.76 oz), install two balance weight sheets in line with each other as shown in the figure.

CAUTION:

Do not install one balance weight sheet on top of another.

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



Limit

Dynamic (At flange): Refer to [WT-53, "Road Wheel"](#).

Static (At flange): Refer to [WT-53, "Road Wheel"](#).

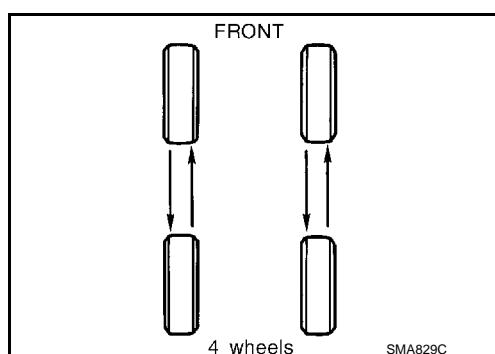
TIRE ROTATION

- Follow the maintenance schedule for tire rotation service intervals. Refer to [MA-4, "Explanation of General Maintenance"](#).

- 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 tightening torque : Refer to [WT-48, "Exploded View"](#).

- Perform the ID registration, after tire rotation. Refer to [WT-21, "Work Procedure"](#).

ROAD WHEEL TIRE ASSEMBLY

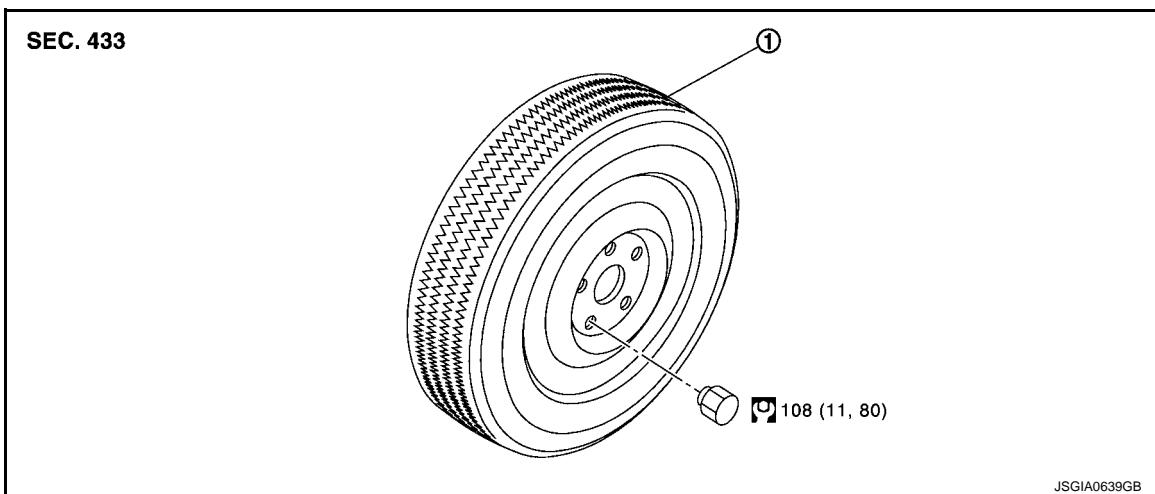
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

ROAD WHEEL TIRE ASSEMBLY

Exploded View

INFOID:000000006347331



JSGIA0639GB

1. Tire assembly

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000006347332

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

Inspection

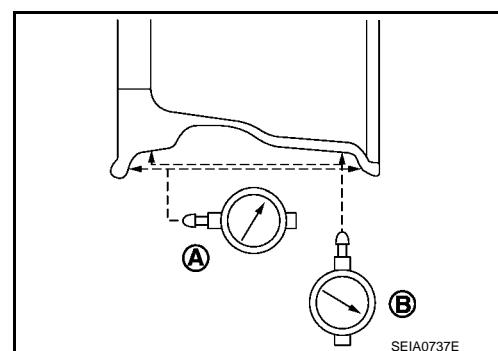
INFOID:000000006347333

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 lateral deflection (A) or vertical deflection (B) for radial runout value exceeds the limit, replace aluminum wheel.

Limit

A: Refer to [WT-53, "Road Wheel"](#).
B: Refer to [WT-53, "Road Wheel"](#).



SEIA0737E

STEEL WHEEL

1. Check tires for wear and improper inflation.

ROAD WHEEL TIRE ASSEMBLY

< REMOVAL AND INSTALLATION >

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

Lateral runout limit (A): $(1+2)/2$

Radial runout limit (B): $(3+4)/2$

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

CAUTION:

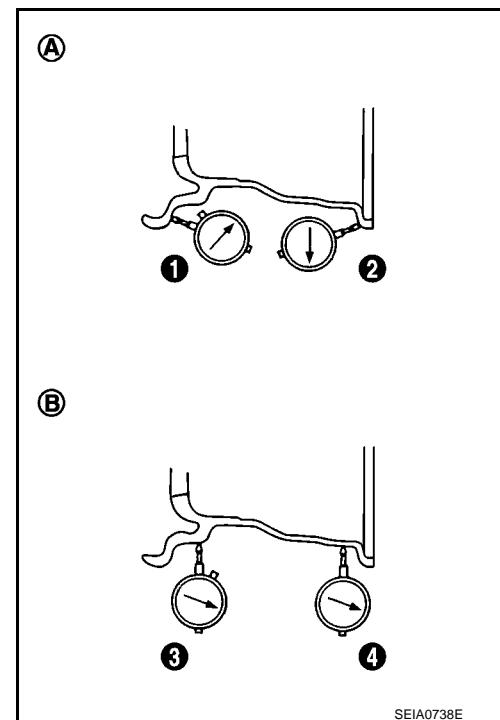
In case a positive or negative value is not available, use the maximum value (negative or positive) for total runout.

Limit

A: Refer to [WT-53, "Road Wheel"](#).

B: Refer to [WT-53, "Road Wheel"](#).

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



SEIA0738E

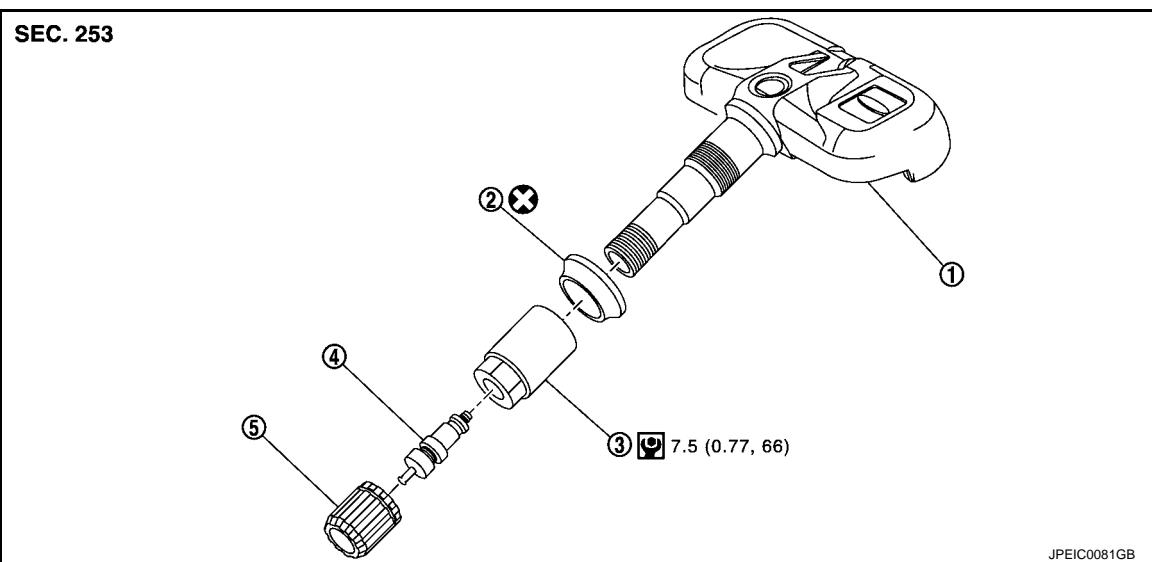
TRANSMITTER

< REMOVAL AND INSTALLATION >

TRANSMITTER

Exploded View

INFOID:0000000006347334



1. Transmitter
2. Grommet seal
3. Valve nut
4. Valve core
5. Valve cap

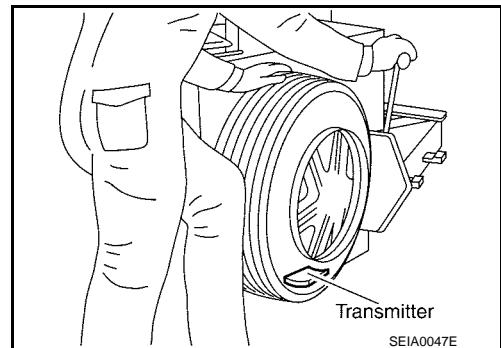
Refer to [GI-4, "Components"](#) for symbols in figure.

Removal and Installation

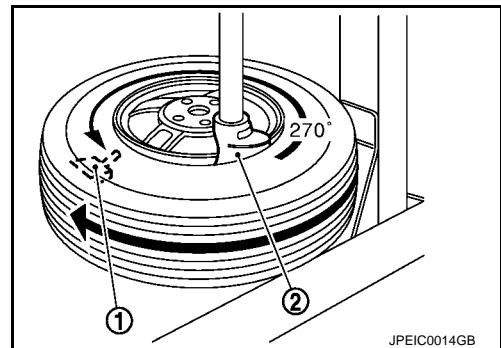
INFOID:0000000006347335

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.

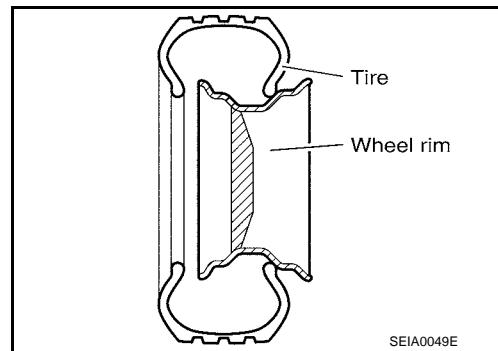


INSTALLATION

TRANSMITTER

< REMOVAL AND INSTALLATION >

1. Put first side of tire onto rim.



2. Mount transmitter on rim and tighten nut.

CAUTION:

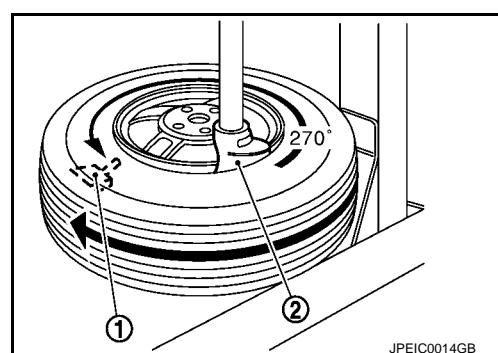
Speed for tightening nut should be less than 10 rpm.

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.



TIRE PRESSURE RECEIVER

< REMOVAL AND INSTALLATION >

TIRE PRESSURE RECEIVER

Removal and Installation

INFOID:000000006347336

REMOVAL

1. Remove the instrument lower cover. Refer to [IP-12, "Exploded View"](#).
2. Remove the instrument lower panel RH. Refer to [IP-12, "Exploded View"](#).
3. Disconnect tire pressure receiver harness connector.
4. Remove Tire pressure receiver mounting screw.
5. Remove tire pressure receiver.

INSTALLATION

Install is the reverse order of removal.

SERVICE DATA AND SPECIFICATIONS (SDS)

<SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Road Wheel

INFOID:000000006347337

ALUMINUM WHEEL (CONVENTIONAL)

Item		Limit
Radial runout	Lateral deflection	Less than 0.3 mm (0.012 in)
	Vertical deflection	
Allowable unbalance	Dynamic (At flange)	Less than 5 g (0.17 oz) (one side)
	Static (At flange)	

STEEL WHEEL (FOR EMERGENCY USE)

Item		Limit
Radial runout	Lateral deflection	Less than 1.5 mm (0.059 in)
	Vertical deflection	

Tire Air Pressure

INFOID:000000006347338

Unit: kPa (kg/cm², psi)

Item	Standard	
	Front	Rear
P225/55R18 97V		230 (2.3, 33)
P245/45R19 98V		230 (2.3, 33)
T165/80R17 104M		420 (4.2, 60)
T165/80D17 104M		