

WT

SECTION

ROAD WHEELS & TIRES

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- L
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- O
- P

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000004529891

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.”

>> GO TO 2.

2.CRUISE TEST

Start the engine and drive the vehicle.

Dose the symptom that customer concerns occur?

YES >> GO TO 3.

NO >> GO TO 4.

3.BASIC INSPECTION

Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-100, "Tire Air Pressure"](#).

Is the malfunction corrected?

YES >> INSPECTION END

NO >> GO TO 4.

4.PERFORM SELF-DIAGNOSIS

With CONSULT-III

Perform self-diagnosis.

Is any DTC detected?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK SYMPTOM

Perform trouble diagnosis for the applicable symptom. Refer to [WT-80, "Symptom Table"](#).

Is the cause of the malfunction detected?

YES >> GO TO 7.

NO >> GO TO 9.

6.CIRCUIT DIAGNOSIS

Inspect the malfunctioning system indicated by the DTC code that is detected during self-diagnosis. Refer to [WT-77, "DTC Index"](#).

>> GO TO 7.

7.REPAIR WORK

Repair or replace the malfunctioning part.

>> GO TO 8.

8.PERFORM SELF-DIAGNOSIS

1. Erase the self-diagnosis results memory of the low tire pressure warning control unit.
2. Drive the vehicle.

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[REGULAR GRADE]

3. Perform self-diagnosis.

Is any DTC detected?

- YES >> GO TO 6.
- NO >> GO TO 9.

9.FINAL CHECK

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

Dose the tire pressure warning lamp turn OFF?

- YES >> INSPECTION END
- NO >> GO TO 3.

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WT

INSPECTION AND ADJUSTMENT

TRANSMITTER WAKE UP OPERATION

TRANSMITTER WAKE UP OPERATION : Description

INFOID:000000004470652

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

TRANSMITTER WAKE UP OPERATION : Special Repair Requirement

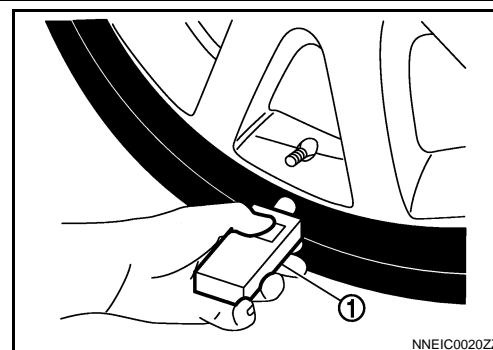
INFOID:000000004470653

1. TRANSMITTER WAKE-UP PROCEDURE

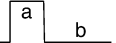
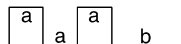
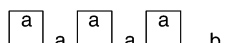
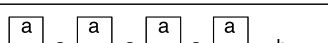
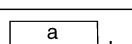
1. Turn the ignition switch ON.
2. Contact the transmitter activation tool (J-45295) (1) to the side of the tire at the location to the transmitter.
3. Press and hold the activation tool button while pushing the tool to the tire surface. (approximately for 5 seconds)

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 low tire pressure warning lamp blinks in the pattern shown as per the following. The pattern indicates that the transmitter wake-up procedure for the wheel is completed.

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

SEIA0762E

5. Check that the turn signal lamps blink twice when the transmitter wake-up procedure for all wheels is completed.
6. 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-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).

NO >> Perform trouble diagnosis for the transmitter. Refer to [WT-18, "Diagnosis Procedure"](#).

ID REGISTRATION PROCEDURE

ID REGISTRATION PROCEDURE : Description

INFOID:000000004470654

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

ID REGISTRATION PROCEDURE : Special Repair Requirement

INFOID:000000004470655

1. TRANSMITTER ID REGISTRATION PROCEDURE

 With CONSULT-III.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[REGULAR GRADE]

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.

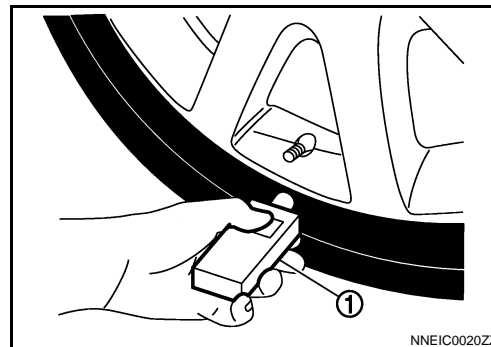
NO >> GO TO 3.

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.



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 blinks	"Red" ↓ "Green"
2	Front right wheel		
3	Rear right wheel		
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 [WT-12. "AIR PRESSURE MONITOR : Diagnosis Description"](#).

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)

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-100. "Tire Air Pressure"](#).

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[REGULAR GRADE]

Is ID registrations for all wheels completed?

YES >> ID registration END.

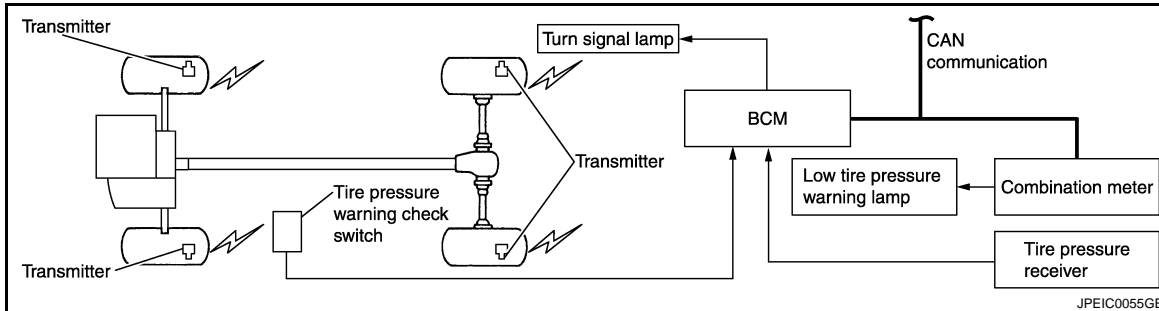
NO >> Performs trouble-diagnosis of the Tire Pressure Monitoring System (TPMS). Refer to [WT-12. "AIR PRESSURE MONITOR : Diagnosis Description"](#).

SYSTEM DESCRIPTION

TPMS

System Diagram

INFOID:000000004470656



System Description

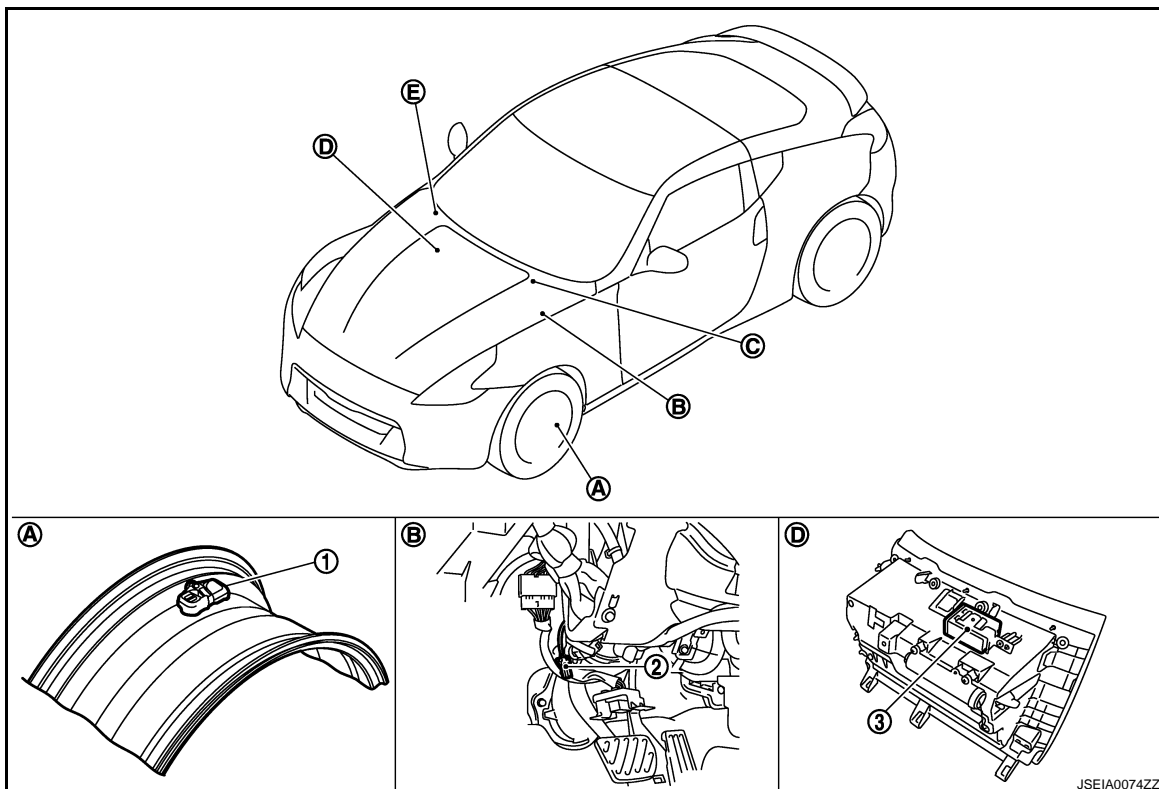
INFOID:000000004470657

DESCRIPTION

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 combination meter comes on.

Component Parts Location

INFOID:000000004470658



1. Transmitter

2. Tire pressure warning check switch

3. Tire pressure receiver

TPMS

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

- A. Wheel
- B. Behind instrument lower panel LH
- C. Low tire pressure warning lamp
(On the combination meter)
- D. Glove box assembly
- E. Refer to [BCS-8, "Component Parts Location"](#)

Component Description

INFOID:000000004470659

Component parts	Function
BCM (Body Control Module)	WT-34, "Description" .
Transmitter	WT-18, "Description" .
Tire pressure receiver	WT-36, "Description" .
Tire pressure warning check switch	WT-38, "Description" .
Turn signal lamp	ID registration of each wheel has been completed, turn signal lamp flashes.
Combination meter	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 • Hazard lamp signal • Buzzer signal
Low tire pressure warning lamp	Illuminates if malfunction is detected in electrical system of TPMS.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:0000000004692754

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 CONDITONER*			
<ul style="list-style-type: none">Intelligent Key systemEngine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	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 >

[REGULAR GRADE]

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	Power position status of the moment a particular DTC is detected	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	The number of times that ignition switch is turned ON after DTC is detected <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 : Diagnosis Description

INFOID:000000004470661

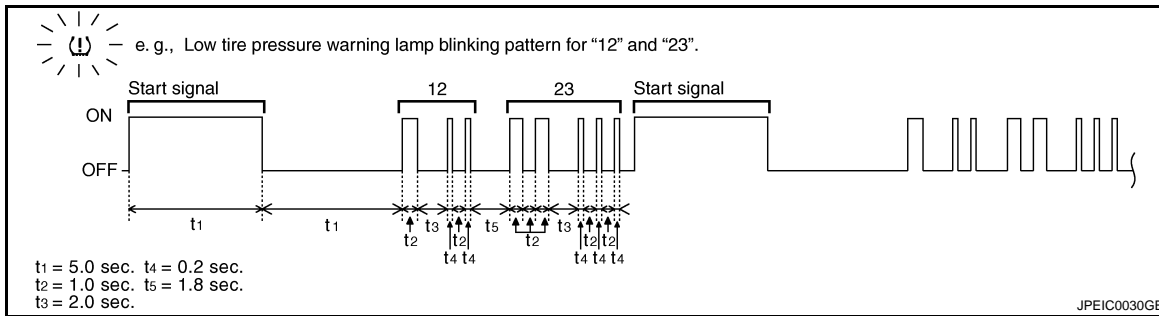
DESCRIPTION

During driving, the transmitter installed at each road wheel transmits the tire pressure information signal to the receiver. The receiver receives the tire pressure signal and transmits it to the BCM. The BCM judges whether or not the tire pressure is OK based on the tire pressure information signal, and if it judges that the tire pressure is low, it transmits the information via CAN communication to the combination meter.

After receiving the tire pressure information via CAN communication from the BCM, the combination meter illuminates the low tire pressure warning lamp and displays.

SELF DIAGNOSTIC PROCEDURE

1. Initiate diagnosis mode by short-circuiting the low tire pressure warning check switch to the ground.
2. The blinking pattern of the low tire pressure warning lamp indicates the conditions of the malfunction.



NOTE:

If the low tire pressure warning lamp is blinking repeatedly at 5 Hz, there is no malfunction occurring in the system.

Blinking pattern	Items	Diagnostic items detected when...	Check item
15	Tire pressure value (Front LH)	Front LH tire pressure drops to 189.6 kPa (1.9 kg/cm ² , 27 psi) or less.	WT-16
16	Tire pressure value (Front RH)	Front RH tire pressure drops to 189.6 kPa (1.9 kg/cm ² , 27 psi) or less.	
17	Tire pressure value (Rear RH)	Rear RH tire pressure drops to 189.6 kPa (1.9 kg/cm ² , 27 psi) or less.	
18	Tire pressure value (Rear LH)	Rear LH tire pressure drops to 189.6 kPa (1.9 kg/cm ² , 27 psi) or less.	
21	Transmitter no data (Front LH)	Data from front LH transmitter cannot be received.	WT-18
22	Transmitter no data (Front RH)	Data from front RH transmitter cannot be received.	
23	Transmitter no data (Rear RH)	Data from rear RH transmitter cannot be received.	
24	Transmitter no data (Rear LH)	Data from rear LH transmitter cannot be received.	
31	Transmitter checksum error (Front LH)	Checksum data from front LH transmitter is malfunctioning.	WT-21
32	Transmitter checksum error (Front RH)	Checksum data from front RH transmitter is malfunctioning.	
33	Transmitter checksum error (Rear RH)	Checksum data from rear RH transmitter is malfunctioning.	
34	Transmitter checksum error (Rear LH)	Checksum data from rear LH transmitter is malfunctioning.	
35	Transmitter pressure data error (Front LH)	Air pressure data from front LH transmitter is malfunction.	WT-24
36	Transmitter pressure data error (Front RH)	Air pressure data from front RH transmitter is malfunction.	
37	Transmitter pressure data error (Rear RH)	Air pressure data from rear RH transmitter is malfunction.	
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.	WT-26
42	Transmitter function code error (Front RH)	Function code data from front RH transmitter is malfunction.	
43	Transmitter function code error (Rear RH)	Function code data from rear RH transmitter is malfunction.	
44	Transmitter function code error (Rear LH)	Function code data from rear LH transmitter is malfunction.	

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

Blinking pattern	Items	Diagnostic items detected when...	Check item
45	Transmitter battery voltage low (Front LH)	Battery voltage of front LH transmitter drops.	WT-29
46	Transmitter battery voltage low (Front RH)	Battery voltage of front RH transmitter drops.	
47	Transmitter battery voltage low (Rear RH)	Battery voltage of rear RH transmitter drops.	
48	Transmitter battery voltage low (Rear LH)	Battery voltage of rear LH transmitter drops.	
52	Vehicle speed signal error	Vehicle speed signal error.	WT-32
53	Control unit	Tire pressure monitoring system malfunction in BCM.	WT-34
No blinking	Tire pressure warning check switch	Tire pressure warning switch circuit is open.	—

ERASE SELF-DIAGNOSIS

After performing self-diagnosis by short-circuiting the tire pressure warning check switch to the body, turn the ignition switch OFF.

AIR PRESSURE MONITOR : CONSULT-III Function

INFOID:000000004470662

FUNCTION

The diagnosis functions (main functions) include the following: "WORK SUPPORT", "SELF DIAGNOSTIC RESULT", "DATA MONITOR" and "ACTIVE TEST".

Diagnostic test mode	Function
Work support	In this mode, it is possible to make quick and accurate adjustments by following the instructions on the CONSULT-III display.
Self diagnostic result	Receives self-diagnosis results from the low tire pressure warning control unit, and indicates DTCs and the number of malfunctions.
Data monitor	Receives input/output signals from the low tire pressure warning control unit and indicates and stores them to facilitate locating the causes of malfunctions.
Active test	Transmits command to the low tire pressure warning control unit to change output signals and check operation of output system.

WORK SUPPORT MODE

Refer to [WT-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).

SELF-DIAG RESULTS MODE

Refer to [WT-77, "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.

Monitor item (Unit)	Remark
AIR PRESS FL (kPa), (kg/cm ²), (Psi)	Air pressure of tires
AIR PRESS FR (kPa), (kg/cm ²), (Psi)	
AIR PRESS RR (kPa), (kg/cm ²), (Psi)	
AIR PRESS RL (kPa), (kg/cm ²), (Psi)	

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

Monitor item (Unit)	Remark
ID REGST FL1	ID is registered: Done ID is not registered: Yet
ID REGST FR1	
ID REGST RR1	
ID REGST RL1	
WARNING LAMP	Low tire pressure warning lamp ON: On Low tire pressure warning lamp OFF: Off
BUZZER	Combination meter buzzer ON: On Combination meter buzzer 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.

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

DTC/CIRCUIT DIAGNOSIS

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

Description

INFOID:000000004470663

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:000000004470664

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible cause
C1704	LOW PRESSURE FL	Front LH tire pressure drops to 189.6 kPa (1.9 kg/cm ² , 27 psi) or less.	Low tire pressure
C1705	LOW PRESSURE FR	Front RH tire pressure drops to 189.6 kPa (1.9 kg/cm ² , 27 psi) or less.	
C1706	LOW PRESSURE RR	Rear RH tire pressure drops to 189.6 kPa (1.9 kg/cm ² , 27 psi) or less.	
C1707	LOW PRESSURE RL	Rear LH tire pressure drops to 189.6 kPa (1.9 kg/cm ² , 27 psi) or less.	

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

Ⓐ 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 BCM (AIR PRESSURE MONITOR) self-diagnosis.

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

- YES >> Perform trouble diagnosis. Refer to [WT-16, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000004470665

1.CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to [WT-100, "Tire Air Pressure"](#).

Is the inspection result normal?

- YES >> Replace the DTC-detected malfunctioning transmitter. Refer to [WT-97, "Exploded View"](#).
NO >> After adjusting the air pressure, GO TO 2.

2.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. 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.

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

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:000000004470666

1.CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-100, "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-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).

>> END

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C1708, C1709, C1710, C1711 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

C1708, C1709, C1710, C1711 TRANSMITTER

Description

INFOID:000000004470667

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

DTC Logic

INFOID:000000004470668

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 BCM (AIR PRESSURE MONITOR) self-diagnosis.

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

- YES >> Perform trouble diagnosis. Refer to [WT-18, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000004470669

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. 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 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 >

[REGULAR GRADE]

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

4. 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

1. Connect the BCM harness connector.

2. Turn the ignition switch ON.

CAUTION:

Never start the engine.

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

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-36. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace tire pressure receiver. Refer to [WT-99. "Exploded View"](#).

5.CHECK ID REGISTRATION

Perform ID registration of all transmitters. Refer to [WT-6. "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).

Can ID registration of all transmitters be completed?

YES >> GO TO 6.

NO >> Replace transmitter. Refer to [WT-97. "Exploded View"](#).

6.CHECK TIRE PRESSURE MONITORING SYSTEM

Ⓜ With CONSULT-III

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

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.

C1708, C1709, C1710, C1711 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

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 the CONSULT-III "DATA MONITOR" to read the tire pressure for all wheels.

Is the inspection result normal?

YES >> Replace the DTC-detected malfunctioning transmitter. Refer to [WT-97, "Exploded View"](#).

NO >> Replace BCM. Refer to [BCS-84, "Exploded View"](#).

Special Repair Requirement

INFOID:0000000004546513

1.CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-100, "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-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).

>> END

C1712, C1713, C1714, C1715 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

C1712, C1713, C1714, C1715 TRANSMITTER

Description

INFOID:000000004472073

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

DTC Logic

INFOID:000000004470672

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible case
C1712	[CHECKSUM ERR] FL	Checksum data from front LH transmitter is malfunctioning.	<ul style="list-style-type: none">• Tire pressure receiver malfunction• Transmitter malfunction• BCM malfunction• Harness or connector
C1713	[CHECKSUM ERR] FR	Checksum data from front RH transmitter is malfunctioning.	
C1714	[CHECKSUM ERR] RR	Checksum data from rear RH transmitter is malfunctioning.	
C1715	[CHECKSUM ERR] RL	Checksum data from rear LH transmitter is malfunctioning.	

DTC CONFIRMATION PROCEDURE

1. DTC REPRODUCTION PROCEDURE

④ With CONSULT-III

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

Is DTC "C1712", "C1713", "C1714", "C1715" detected?

- YES >> Perform trouble diagnosis. Refer to [WT-21, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000004470673

1. CHECK ID REGISTRATION

④ With CONSULT-III

1. Perform the ID registration of all transmitters. Refer to [WT-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).
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 >> GO TO 7.
NO >> GO TO 2.

2. CHECK TIRE PRESSURE SIGNAL

④ With CONSULT-III

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

C1712, C1713, C1714, C1715 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

3. Check that the tire pressure is the specified 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 0 kPa (0 Psi)?

YES >> GO TO 3.

NO >> GO TO 6.

3.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.

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

4. 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 4.

NO >> Repair or replace error-detected parts.

4.CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

1. Connect the BCM harness connector.
2. Turn the ignition switch ON.
CAUTION:
Never start the engine.
3. Check the voltage between the BCM harness connector and ground.

BCM		—	Voltage
Connector	Terminal		
M123	138	Ground	5 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace error-detected parts.

5.CHECK TIRE PRESSURE RECEIVER

Check the tire pressure receiver. Refer to [WT-36, "Diagnosis Procedure"](#).

Is the inspection result normal?

C1712, C1713, C1714, C1715 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

- YES >> Replace tire pressure receiver. Refer to [WT-99, "Exploded View"](#).
NO >> GO TO 6.

6.CHECK ID REGISTRATION

Perform ID registration of all transmitters. Refer to [WT-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).

Can ID registration of all transmitters be completed?

- YES >> GO TO 7.
NO >> Replace the DTC-detected malfunctioning transmitter. Refer to [WT-97, "Exploded View"](#).

7.CHECK TIRE PRESSURE MONITORING SYSTEM

Ⓔ With CONSULT-III

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

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

CAUTION:

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

Is the inspection result normal?

- YES >> Replace the DTC-detected malfunctioning transmitter. Refer to [WT-97, "Exploded View"](#).
NO >> Replace BCM. Refer to [BCS-84, "Exploded View"](#).

Special Repair Requirement

INFOID:0000000004543192

1.CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-100, "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-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).

>> END

C1716, C1717, C1718, C1719 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

C1716, C1717, C1718, C1719 TRANSMITTER

Description

INFOID:000000004476222

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

DTC Logic

INFOID:000000004470676

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 finishedTransmitter 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

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 BCM (AIR PRESSURE MONITOR) self-diagnosis.

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

- YES >> Perform trouble diagnosis. Refer to [WT-24, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000004470677

1. CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to [WT-100, "Tire Air Pressure"](#).

Is the inspection result normal?

- YES >> Replace the DTC-detected malfunctioning transmitter. Refer to [WT-97, "Exploded View"](#).
NO >> After adjusting the tire pressure, GO TO 2.

2. CHECK TIRE PRESSURE SIGNAL

④ With CONSULT-III

1. Check and adjust the tire pressure for all wheels. Refer to [WT-100, "Tire Air Pressure"](#).
2. Perform transmitter ID registration for all wheels. Refer to [WT-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).
3. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
4. 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.

CAUTION:

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

5. Check that "DATA MONITOR" displays tire pressure of 438.60 kPa (63.60 Psi).

Is the inspection 438.60 kPa (63.60 Psi)?

- YES >> Replace transmitter the tire pressure 438.60 kPa (63.60 Psi) displayed. Refer to [WT-97, "Exploded View"](#).
NO >> GO TO 1.

C1716, C1717, C1718, C1719 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

Special Repair Requirement

INFOID:000000004543305

1.CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-100, "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-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).

>> END

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C1720, C1721, C1722, C1723 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

C1720, C1721, C1722, C1723 TRANSMITTER

Description

INFOID:000000004476223

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

DTC Logic

INFOID:000000004470681

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible case
C1720	[CODE ERR] FL	Malfunction in the tire pressure data from the front left wheel transmitter.	<ul style="list-style-type: none">• Tire pressure receiver malfunction• Transmitter malfunction• BCM malfunction• Harness or connector
C1721	[CODE ERR] FR	Malfunction in the tire pressure data from the front right wheel transmitter.	
C1722	[CODE ERR] RR	Malfunction in the tire pressure data from the rear right wheel transmitter.	
C1723	[CODE ERR] RL	Malfunction in the tire pressure data from the rear left wheel transmitter.	

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 BCM (AIR PRESSURE MONITOR) self-diagnosis.

Is DTC "C1720", "C1721", "C1722", "C1723" detected?

YES >> Perform trouble diagnosis. Refer to [WT-26, "Diagnosis Procedure"](#).

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000004470682

1.CHECK ID REGISTRATION

④ With CONSULT-III

1. Perform the ID registration of all transmitters. Refer to [WT-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).
2. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
3. 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 >> GO TO 6.

NO >> GO TO 2.

2.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.

C1720, C1721, C1722, C1723 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

- 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		

Are all tire pressure displayed 0 kPa (0 Psi)?

YES >> GO TO 3.

NO >> GO TO 6.

3.CHECK HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

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

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

- Check 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 4.

NO >> Repair or replace error-detected parts.

4.CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

- Connect the BCM harness connector.
- Turn the ignition switch ON.
CAUTION:
Never start the engine.
- 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 5.

NO >> Repair or replace damaged parts.

5.CHECK TIRE PRESSURE RECEIVER

Check tire pressure receiver. Refer to [WT-36. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace tire pressure receiver. Refer to [WT-99. "Exploded View"](#).

C1720, C1721, C1722, C1723 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

6.CHECK TIRE PRESSURE MONITORING SYSTEM

⑧ 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 >> Replace the DTC-detected malfunctioning transmitter. Refer to [WT-97. "Exploded View"](#).
NO >> Replace BCM. Refer to [BCS-84. "Exploded View"](#).

Special Repair Requirement

INFOID:000000004543306

1.CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-100. "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-6. "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).

>> END

C1724, C1725, C1726, C1727 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

C1724, C1725, C1726, C1727 TRANSMITTER

Description

INFOID:000000004476224

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

DTC Logic

INFOID:000000004470685

DTC DETECTION LOGIC

DTC	Display item	Malfunction detected condition	Possible case
C1724	[BATT VOLT LOW] FL	Battery voltage of front LH transmitter drops.	<ul style="list-style-type: none">• Transmitter malfunction• Tire pressure receiver malfunction• BCM malfunction• Harness or connector
C1725	[BATT VOLT LOW] FR	Battery voltage of front RH transmitter drops.	
C1726	[BATT VOLT LOW] RR	Battery voltage of rear RH transmitter drops.	
C1727	[BATT VOLT LOW] RL	Battery voltage of rear LH transmitter drops.	

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

④With 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 BCM (AIR PRESSURE MONITOR) self-diagnosis.

Is DTC "C1724", "C1725", "C1726", "C1727" detected?

- YES >> Perform trouble diagnosis. Refer to [WT-29, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000004470686

1.CHECK ID REGISTRATION

④With CONSULT-III

1. Perform the ID registration of all transmitters. Refer to [WT-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).
2. Drive at a 40 km/h (25 MPH) or more, then drive normally for 10 minutes.

Can ID registration of all transmitters be completed?

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

2.CHECK TIRE PRESSURE SIGNAL

④With 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.

Are all tire pressures displayed 0 kPa?

- YES >> GO TO 3.
NO >> GO TO 6.

C1724, C1725, C1726, C1727 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

3.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.

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

4. Check 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 4.

NO >> Repair or replace damaged parts.

4.CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

1. Connect the BCM harness connector.
2. Turn the ignition switch ON.
CAUTION:
Never start the engine.
3. Check the voltage between the BCM harness connector and ground.

BCM		—	Voltage
Connector	Terminal		
M123	138	Ground	5 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace damaged parts.

5.CHECK TIRE PRESSURE RECEIVER

Check tire pressure receiver. Refer to [WT-36, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> Replace tire pressure receiver. Refer to [WT-99, "Exploded View"](#).

NO >> GO TO 6.

6.CHECK ID REGISTRATION

Perform ID registration of all transmitters. Refer to [WT-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).

Can ID registration of all transmitters be completed?

YES >> GO TO 7.

NO >> Replace the malfunctioning transmitter. Refer to [WT-97, "Exploded View"](#).

7.CHECK TIRE PRESSURE MONITORING SYSTEM

Ⓟ 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.

C1724, C1725, C1726, C1727 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

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 >> Replace the malfunctioning transmitter. Refer to [WT-97, "Exploded View"](#).

NO >> Replace BCM. Refer to [WT-100, "Tire Air Pressure"](#).

Special Repair Requirement

INFOID:0000000004543307

1.CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-100, "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-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).

>> END

C1729 VEHICLE SPEED SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

C1729 VEHICLE SPEED SIGNAL

Description

INFOID:000000004470688

BCM detects no vehicle speed signal.

DTC Logic

INFOID:000000004470689

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 errorCombination meter malfunction

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

Ⓔ With CONSULT-III

- Drive for several minutes at a speed of 40 km/h (25 MPH) or more, then stop the vehicle.
- Perform BCM (AIR PRESSURE MONITOR) self-diagnosis.

Is DTC "C1729" detected?

- YES >> Perform trouble diagnosis. Refer to [WT-32, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000004470690

1.PERFORM COMBINATION METER SELF-DIAGNOSIS

Ⓔ With CONSULT-III

Perform combination meter self-diagnosis.

Is any DTC detected?

- YES >> Check the DTC. Refer to [MWI-71, "DTC Index"](#).
NO >> GO TO 2.

2.PERFORM SELF-DIAGNOSIS

Ⓔ With CONSULT-III

Perform BCM (AIR PRESSURE MONITOR) self-diagnosis.

Is DTC "C1729" detected?

- YES >> Replace BCM. Refer to [BCS-17, "COMMON ITEM : CONSULT-III Function \(BCM - COMMON ITEM\)"](#).
NO >> GO TO 3.

3.CHECK INFORMATION

Ⓔ With CONSULT-III

Use CONSULT-III "DATA MONITOR" to check the input/output values. Refer to [WT-45, "Reference Value"](#).

Is the inspection result normal?

- YES >> Check pin terminal and connection of each harness connector for malfunctioning conditions.
NO >> Replace BCM. Refer to [BCS-84, "Exploded View"](#).

Special Repair Requirement

INFOID:0000000044543315

1.CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-100, "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.

C1729 VEHICLE SPEED SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

2.PERFORM ID REGISTRATION

Perform ID registration. Refer to [WT-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).

>> END

- A
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- L
- M
- N
- O
- P

C1734 BCM

Description

INFOID:000000004470692

The BCM reads the tire 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

INFOID:000000004470693

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 BCM (AIR PRESSURE MONITOR) self-diagnosis.

CAUTION:

Perform within 15 minutes after stop the vehicle.

Is DTC "C1734" detected?

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

Diagnosis Procedure

INFOID:000000004470694

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-85, "Fuse and Fusible Link Arrangement"](#).
 - 10A fuse [No. 10 located in the fuse block (J/B)]. Refer to [PG-84, "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.

C1734 BCM

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

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.

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		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace damaged parts.

4.CHECK BCM

Check the BCM input/output signal. Refer to [WT-45, "Reference Value"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 5.

5.CHECK BCM HARNESS CONNECTOR

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

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-84, "Exploded View"](#).

NO >> Check for looseness or damage at the harness connector pins of the low tire pressure warning control unit. Repair or replace if necessary.

Special Repair Requirement

INFOID:000000004543870

1.CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-100, "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-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).

>> END

TIRE PRESSURE RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

TIRE PRESSURE RECEIVER

Description

INFOID:0000000004470696

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

Component Function Check

INFOID:0000000004470697

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-36, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000004470698

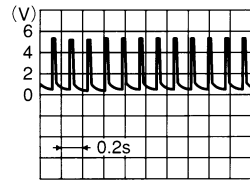
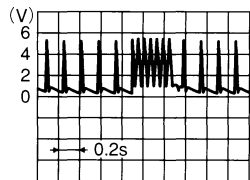
1. CHECK TIRE PRESSURE RECEIVER SIGNAL

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	 OCC3881D
			When receiving the signal from the transmitter	 OCC3880D

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

TIRE PRESSURE RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

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

Is the inspection result normal?

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

3.CHECK TIRE PRESSURE RECEIVER GROUND CIRCUIT

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

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

3. Check continuity between BCM harness connector and ground.

BCM		—	Continuity
Connector	Terminal		
M123	137	Ground	Not existed

Is the inspection result normal?

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

4.CHECK BCM CIRCUIT

Inspect the BCM circuit. Refer to [WT-34, "Diagnosis Procedure"](#).

Is the BCM circuit normal?

- YES >> Replace tire pressure receiver. Refer to [WT-99, "Exploded View"](#).
NO >> Replace BCM. Refer to [BCS-84, "Exploded View"](#).

TIRE PRESSURE WARNING CHECK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

TIRE PRESSURE WARNING CHECK SWITCH

Description

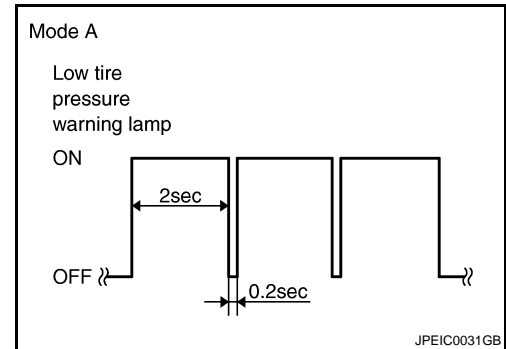
INFOID:000000004470699

Self-diagnosis can be performed by short-circuiting the tire pressure warning check switch to the ground. (Self-diagnosis indicates the location of the malfunction by the blinking of the low tire pressure warning lamp on the combination meter.)

NOTE:

If low tire pressure warning lamp blinks as shown in the figure, the system is normal.

- This mode shows transmitter status is in OFF-mode.
Perform transmitter wake up operation. Refer to [WT-6. "TRANSMITTER WAKE UP OPERATION : Special Repair Requirement"](#).



Component Function Check

INFOID:000000004470700

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

1. Turn the ignition switch ON.
CAUTION:
Never start the engine.
2. Short-circuit the tire pressure warning check switch connector terminal to the ground.
3. Check that the low tire pressure warning lamp blinking.

Is inspection result normal?

YES >> INSPECTION END

NO >> Perform diagnosis. Refer to [WT-38. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000004470701

1. CHECK TIRE PRESSURE WARNING CHECK SWITCH SIGNAL

1. Turn the ignition switch ON.
CAUTION:
Never start the engine.
2. Check the voltage between tire pressure warning check switch connector and ground.

Tire pressure warning check switch		—	Voltage (Approx.)
Connector	Terminal		
M23	1	Ground	12 V

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-84. "Exploded View"](#).

NO >> GO TO 2.

2. CHECK TIRE PRESSURE WARNING CHECK SWITCH CIRCUIT

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

TIRE PRESSURE WARNING CHECK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

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

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

BCM		—	Continuity
Connector	Terminal		
M123	149	Ground	Not existed

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. Replace BCM. Refer to [BCS-84. "Exploded View"](#).
- NO >> Repair or replace damaged parts.

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LOW TIRE PRESSURE WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

LOW TIRE PRESSURE WARNING LAMP

Description

INFOID:000000004470702

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

Condition	Low tire pressure warning lamp
Ignition switch OFF.	OFF
Ignition switch ON.	Illuminates for 1 second, then turns OFF.
Less than 189.6 kPa (1.9 kg/cm ² , 27 psi) [NOTE]	ON
Tire pressure monitoring system malfunction [Other diagnostic item]	Flashes for 1 minute, then stays illuminated.

NOTE: Standard tire pressure is for 240 kPa (2.4 kg/cm², 35 psi) vehicles.

Component Function Check

INFOID:000000004470703

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-40, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000004470704

1.POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit. Refer to [WT-41, "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 BCM (AIR PRESSURE MONITOR) self-diagnosis.

Is any DTC detected?

YES >> Check the DTC. Refer to [WT-77, "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. On "DATA MONITOR", select "WARNING LAMP".

3. 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-32, "Diagnosis Description"](#).

NO >> Replace the BCM. Refer to [BCS-84, "Exploded View"](#).

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000004476225

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

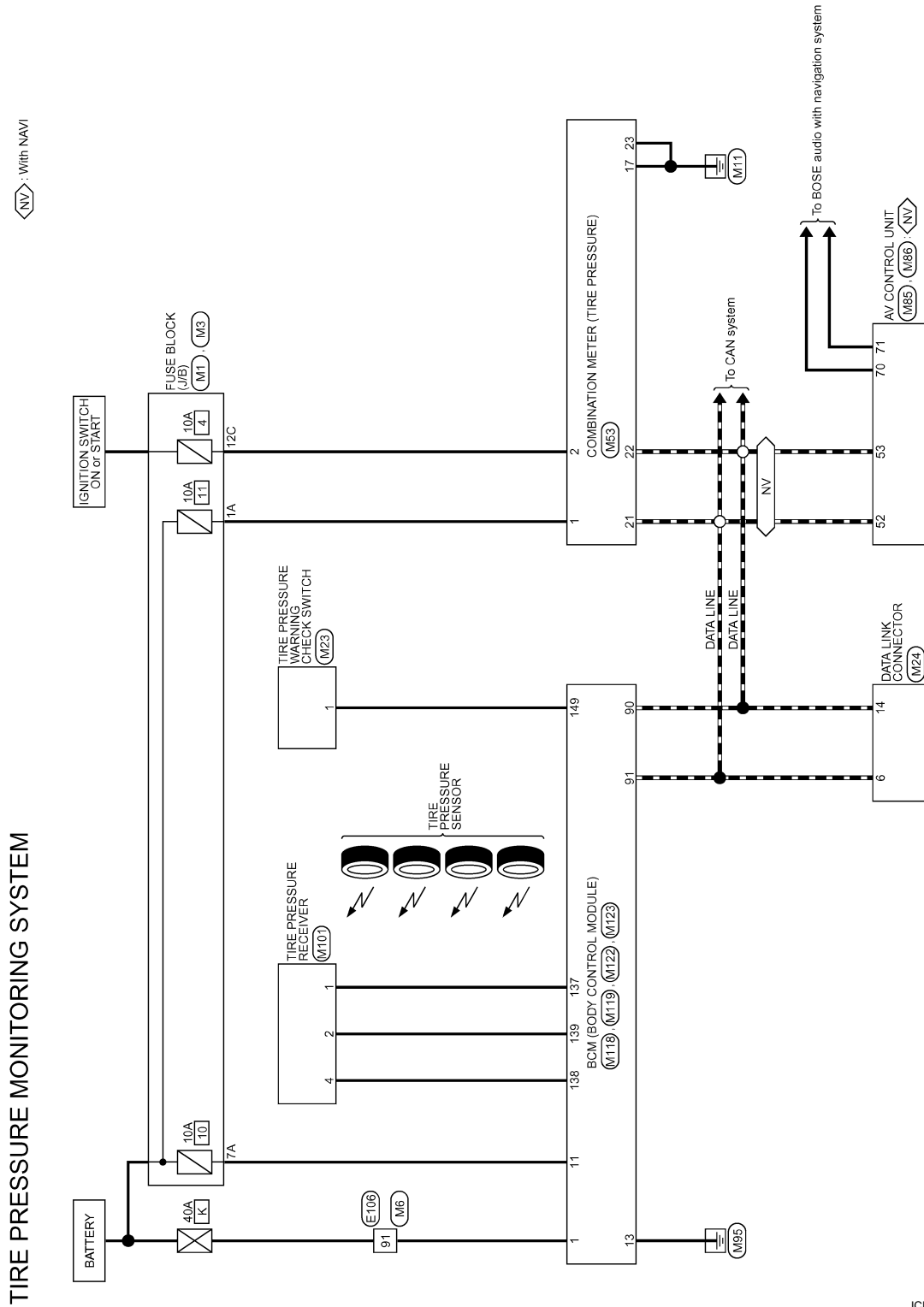
Is the inspection result normal?

- 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.

TPMS

Wiring Diagram - TIRE PRESSURE MONITORING SYSTEM -

INFOID:000000004470707

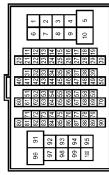


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TIRE PRESSURE MONITORING SYSTEM

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



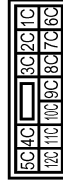
Terminal No.	91
Color of Wire	W
Signal Name [Specification]	-

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



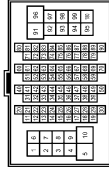
Terminal No.	1A
Color of Wire	V
Signal Name [Specification]	-
Terminal No.	7A
Color of Wire	BR
Signal Name [Specification]	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	12C
Color of Wire	O
Signal Name [Specification]	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MH-CS16-TM4



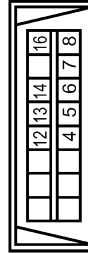
Terminal No.	91
Color of Wire	W
Signal Name [Specification]	-

Connector No.	M23
Connector Name	TIRE PRESSURE WARNING CHECK SWITCH
Connector Type	TR02FW



Terminal No.	1
Color of Wire	W
Signal Name [Specification]	-

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	6
Color of Wire	L
Signal Name [Specification]	-
Terminal No.	14
Color of Wire	P
Signal Name [Specification]	-

Connector No.	M83
Connector Name	COMBINATION METER
Connector Type	TH24FW-NH



Terminal No.	1
Color of Wire	V
Signal Name [Specification]	BATTERY POWER SUPPLY
Terminal No.	2
Color of Wire	O
Signal Name [Specification]	IGNITION SIGNAL
Terminal No.	17
Color of Wire	B
Signal Name [Specification]	GROUND
Terminal No.	21
Color of Wire	L
Signal Name [Specification]	CAN-H
Terminal No.	22
Color of Wire	P
Signal Name [Specification]	CAN-L
Terminal No.	23
Color of Wire	B
Signal Name [Specification]	GROUND

Connector No.	M85
Connector Name	AV CONTROL UNIT
Connector Type	TH40FW-NH



Terminal No.	52
Color of Wire	L
Signal Name [Specification]	CAN-H
Terminal No.	53
Color of Wire	P
Signal Name [Specification]	CAN-L

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TIRE PRESSURE MONITORING SYSTEM

Connector No.	M86
Connector Name	AV CONTROL UNIT
Connector Type	TH12FW-NH



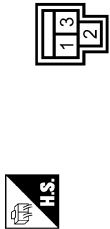
Terminal No.	Color of Wire	Signal Name [Specification]
70	R	COMM (CONT->DISP)
71	G	COMM (DISP->CONT)

Connector No.	M101
Connector Name	TIRE PRESSURE RECEIVER
Connector Type	TK04FW



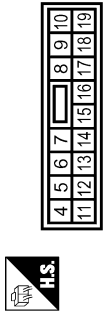
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	GND
2	L	SIGNAL
4	V	BATTERY

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC



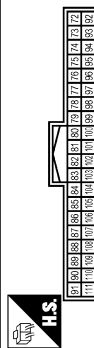
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS06FW-GS



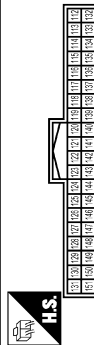
Terminal No.	Color of Wire	Signal Name [Specification]
11	BR	BAT (FUSE)
13	B	GND

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



Terminal No.	Color of Wire	Signal Name [Specification]
137	P	RECEIVER/SENSOR GND
138	V	RECEIVER/SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
149	W	TIRE PRESSURE WARN CHECK SW

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000004692749

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT	Off
	Front wiper switch INT	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TURN SIGNAL R	Other than turn signal switch RH	Off
	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
	Lighting switch AUTO	On
FR FOG SW	NOTE: The item is indicated, but not monitored.	Off
RR FOG SW	Rear fog lamp switch OFF	Off
	Rear fog lamp switch ON	On
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

Monitor Item	Condition	Value/Status
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	Back door closed	Off
	Back door opened	On
CDL LOCK SW	Other than door lock and unlock switch LOCK	Off
	Door lock and unlock switch LOCK	On
CDL UNLOCK SW	Other than door lock and unlock switch UNLOCK	Off
	Door lock and unlock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
	Hazard switch is ON	On
REAR DEF SW NOTE: At models with NAVI this item is not monitored.	Rear window defogger switch OFF	Off
	Rear window defogger switch ON	On
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	NOTE: The item is indicated, but not monitored.	Off
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed and held	On
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
	Passenger door request switch is pressed	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

Monitor Item	Condition	Value/Status
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Back door request switch is not pressed	Off
	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW NOTE: At A/T models this item is not monitored.	The clutch pedal is not depressed	Off
	The clutch pedal is depressed	On
BRAKE SW 1	Stop lamp switch 1 signal circuit is open	Off
	Stop lamp switch 1 signal circuit is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
	The brake pedal is depressed	On
DETE/CANCL SW NOTE: At M/T models with SynchroRev Match mode this item is not monitored.	<ul style="list-style-type: none"> Selector lever in P position (A/T models) The clutch pedal is depressed (M/T models without SynchroRev Match mode) 	Off
	<ul style="list-style-type: none"> Selector lever in any position other than P (A/T models) The clutch pedal is not depressed (M/T models without SynchroRev Match mode) 	On
SFT PN/N SW NOTE: At M/T models without SynchroRev Match mode this item is not monitored.	<ul style="list-style-type: none"> Selector lever in any position other than P and N (A/T models) Control lever in any position other than neutral position (M/T models with SynchroRev Match mode) 	Off
	<ul style="list-style-type: none"> Selector lever in P or N position (A/T models) Control lever in neutral position (M/T models with SynchroRev Match mode) 	On
S/L -LOCK	Steering is unlocked	Off
	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
	Steering is unlocked	On
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
UNLK SEN -DR	Driver door is unlocked	Off
	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
	Selector lever in P position	On

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[REGULAR GRADE]

Monitor Item	Condition	Value/Status
SFT PN -IPDM	<ul style="list-style-type: none"> Selector lever in any position other than P and N (A/T models) The clutch pedal is not depressed (M/T models) 	Off
	<ul style="list-style-type: none"> Selector lever in P or N position (A/T models) The clutch pedal is depressed (M/T models) 	On
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On
ENGINE STATE	Engine stopped	Stop
	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
	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
	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
DOOR STAT-AS	Passenger door is locked	LOCK
	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Steering is locked	Reset
	Steering is unlocked	Set
PRMT ENG STRT	The engine start is prohibited	Reset
	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
KEY SW -SLOT	The Intelligent Key is not inserted into key slot	Off
	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—
CONFIRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

Monitor Item	Condition	Value/Status
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
	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
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
	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
	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
	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
	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
	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	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
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 of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

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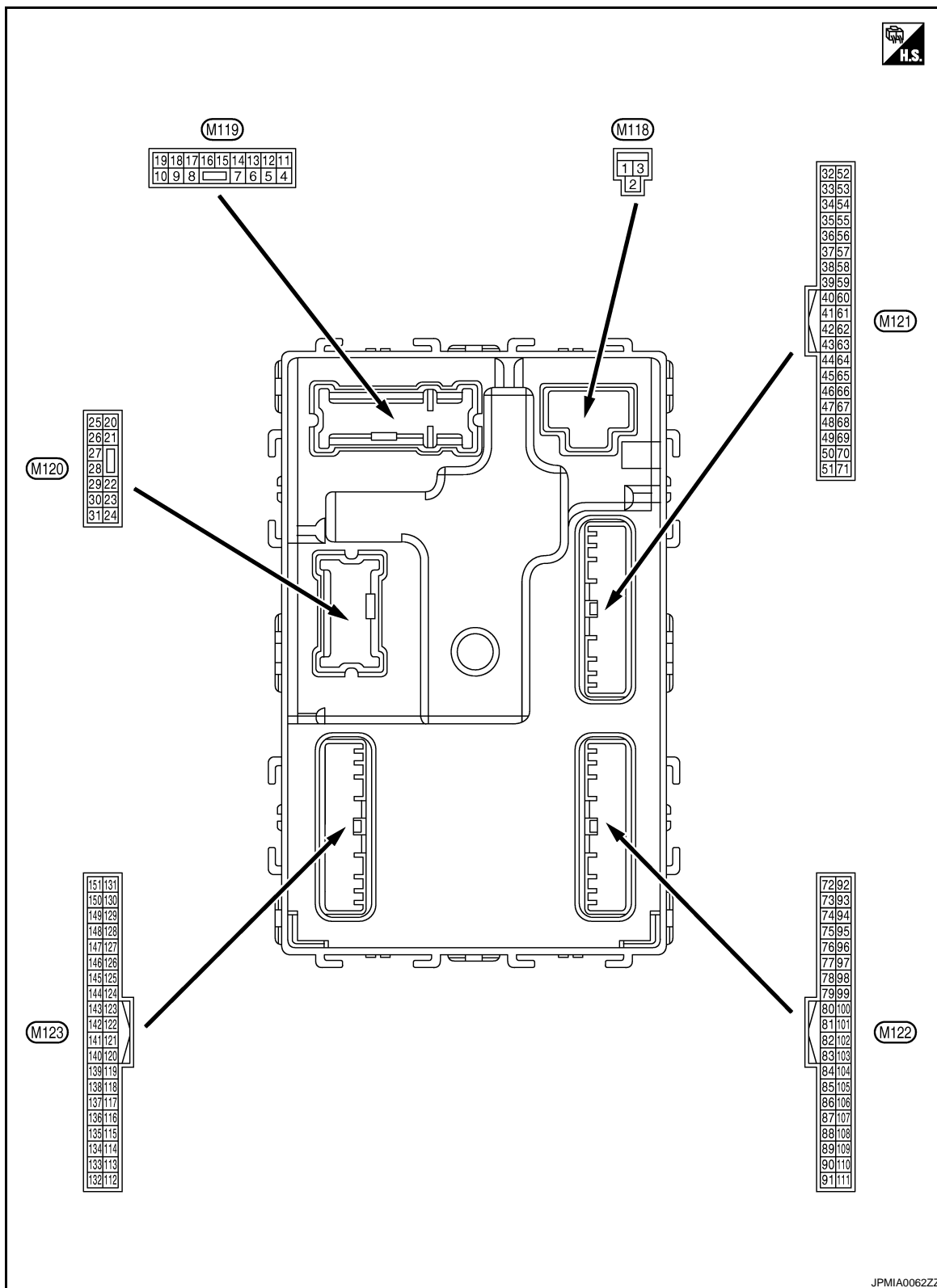
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[REGULAR GRADE]

TERMINAL LAYOUT

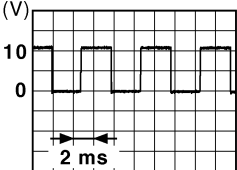


PHYSICAL VALUES

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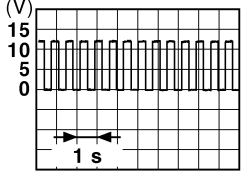
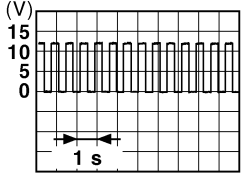
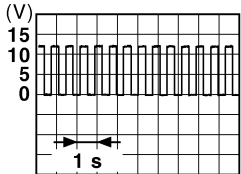
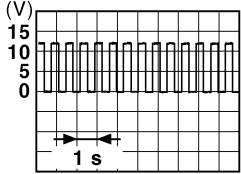
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		12 V
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		12 V
4 (R)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		12 V
5 (G)	Ground	Passenger door UN- LOCK	Output	Passenger door	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	12 V
					Other than LOCK (Actuator is not activated)	0 V
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
11 (BR)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
14 (R)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	OFF	0 V
					ON	<p>NOTE: When the illumination brightening/dimming level is in the neutral position.</p> 
15 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ACC	0 V

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Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
17 (W)	Ground	Turn signal RH (Front and side)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V
18 (O)	Ground	Turn signal LH (Front and side)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKID0926E 6.5 V
19 (V)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	12 V
					ON	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V
23 (L)	Ground	Back door open	Output	Back door	OPEN (Back door opener actua- tor is activated)	12 V
					Other than OPEN (Back door opener actua- tor is not activated)	0 V
24*1 (O)	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V
					ON	12 V
25 (LG)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKID0926E 6.5 V
30 (R)	Ground	Luggage room lamp	Output	Luggage room lamp	ON	0 V
					OFF	12 V

BCM (BODY CONTROL MODULE)

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[REGULAR GRADE]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
34 (G)	Ground	Luggage room antenna (-)	Output	Ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compartment	<p>JMKIA0063GB</p>
35 (R)	Ground	Luggage room antenna (+)	Output	Ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compartment	<p>JMKIA0063GB</p>
38 (B)	Ground	Rear bumper antenna (-)	Output	When the back door request switch is operated with ignition switch OFF	<p>JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	<p>JMKIA0063GB</p>

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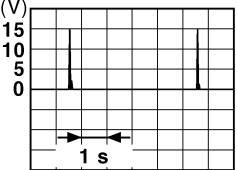
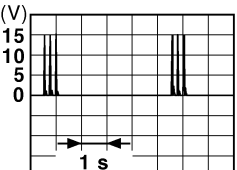
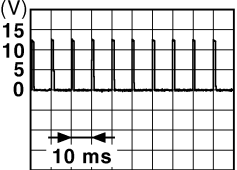
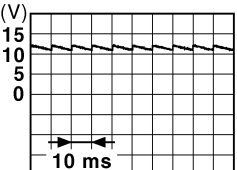
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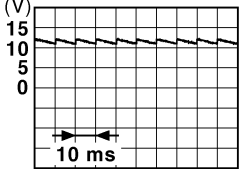
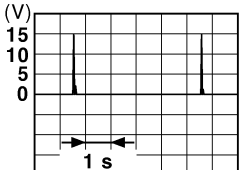
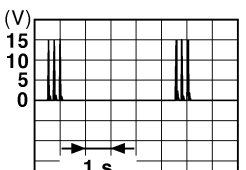
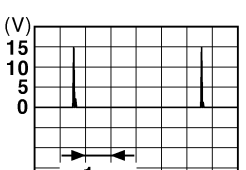
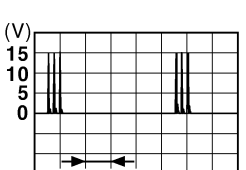
[REGULAR GRADE]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
39 (W)	Ground	Rear bumper antenna (+)	Output	When the back door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
47 (V)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	12 V
					ON	0 V
52 (SB)	Ground	Starter relay control	Output	Ignition switch ON (A/T models)	When selector lever is in P or N position	12 V
					When selector lever is not in P or N position	0 V
				Ignition switch ON (M/T models)	When the clutch pedal is depressed	Battery voltage
					When the clutch pedal is not depressed	0 V
61 (W)	Ground	Back door request switch	Input	Back door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB
64 (G)	Ground	Intelligent Key warning buzzer	Output	Intelligent Key warning buzzer	Sounding	0 V
					Not sounding	12 V
66 (R)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	 JPMIA0011GB
					ON (Door open)	0 V

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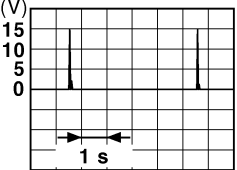
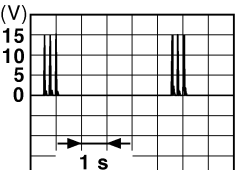
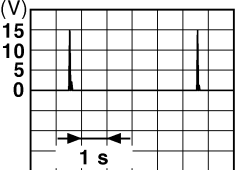
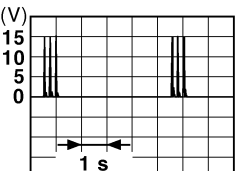
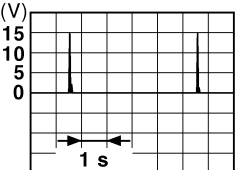
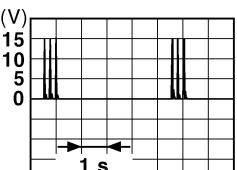
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
67 (GR)	Ground	Back door opener switch	Input	Back door opener switch	Pressed	0 V
					Not pressed	 JPMIA0011GB 11.8 V
72 (L)	Ground	Room antenna (-) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compart- ment	 JMKIA0063GB
73 (P)	Ground	Room antenna (+) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compart- ment	 JMKIA0063GB

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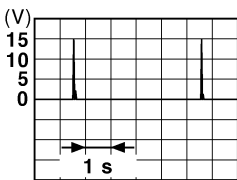
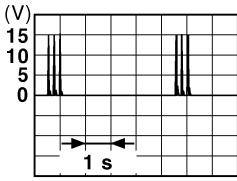
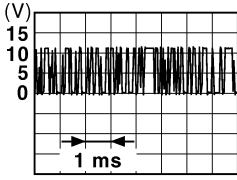
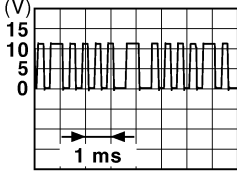
[REGULAR GRADE]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
74 (SB)	Ground	Passenger door antenna (-)	Output	When Intelligent Key is in the antenna detection area	 <p>JMKIA0062GB</p>
				When the passenger door request switch is operated with ignition switch OFF	 <p>JMKIA0063GB</p>
75 (BR)	Ground	Passenger door antenna (+)	Output	When Intelligent Key is in the antenna detection area	 <p>JMKIA0062GB</p>
				When the passenger door request switch is operated with ignition switch OFF	 <p>JMKIA0063GB</p>
76 (V)	Ground	Driver door antenna (-)	Output	When Intelligent Key is in the antenna detection area	 <p>JMKIA0062GB</p>
				When the driver door request switch is operated with ignition switch OFF	 <p>JMKIA0063GB</p>

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[REGULAR GRADE]

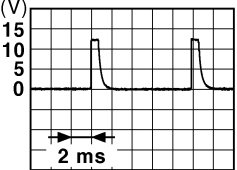


Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
77 (LG)	Ground	Driver door antenna (+)	Output		When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When the driver door request switch is operated with ignition switch OFF	
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
80 (GR)	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.
81 (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.
82 (R)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
					ON	12 V
83 (GR)	Ground	Remote keyless entry receiver communica- tion	Input/ Output		During waiting	 JMKIA0064GB
					When operating either button on the Intelli- gent Key	 JMKIA0065GB

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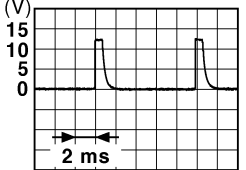

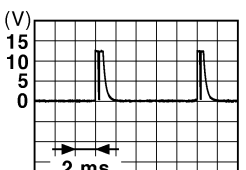

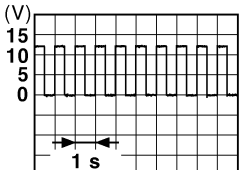
[REGULAR GRADE]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	<p>All switches OFF (Wiper intermittent dial 4)</p>  <p>JPMIA0041GB</p> <p>1.4 V</p>
					<p>Rear fog lamp switch ON (Wiper intermittent dial 4)</p>  <p>JPMIA0038GB</p> <p>1.3 V</p>
					<p>Any of the conditions below with all switches OFF</p> <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7  <p>JPMIA0040GB</p> <p>1.3 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 <p>JPMIA0041GB</p> <p>1.4 V</p>
					Lighting switch HI (Wiper intermittent dial 4)	 <p>JPMIA0036GB</p> <p>1.3 V</p>
					Lighting switch 2ND (Wiper intermittent dial 4)	 <p>JPMIA0037GB</p> <p>1.3 V</p>
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 	 <p>JPMIA0040GB</p> <p>1.3 V</p>
89 (BR)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ignition switch (push switch)	Pressed	0 V
					Not pressed	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 illumination	OFF	0 V
					Blinking	 <p>JPMIA0015GB</p> <p>6.5 V</p>
					ON	12 V

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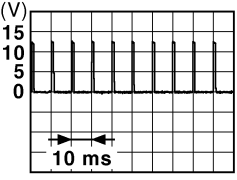
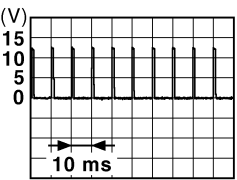
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

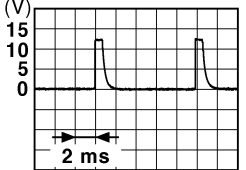

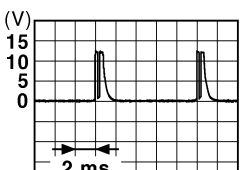

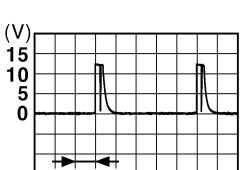
[REGULAR GRADE]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON	0 V
95 (O)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	12 V
96*2 (Y)	Ground	A/T shift selector (Detention switch) power supply	Output	—		12 V
97 (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status	0 V
					UNLOCK status	12 V
98 (P)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	12 V
					UNLOCK status	0 V
99*3 (R)*2 (BR)*4	Ground	Selector lever P position switch (A/T models)	Input	Selector lever	P position	0 V
					Any position other than P	12 V
		Clutch pedal position switch (M/T models without SynchroRev Match mode)	Input	Clutch pedal position switch	OFF (Clutch pedal is depressed)	0 V
					ON (Clutch pedal is not depressed)	Battery voltage
100 (GR)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 1.0 V
101 (Y)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 1.0 V
102 (O)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	12 V
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		12 V
106 (W)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	12 V
					ON	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

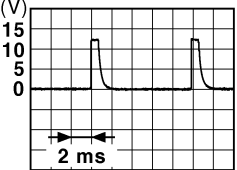

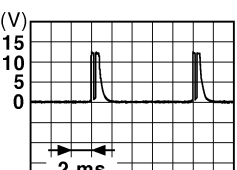
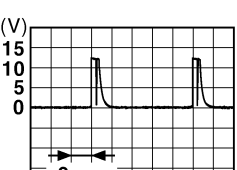
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	All switches OFF  <small>JPMIA0041GB</small> 1.4 V
					Turn signal switch LH  <small>JPMIA0037GB</small> 1.3 V
					Turn signal switch RH  <small>JPMIA0036GB</small> 1.3 V
					Front wiper switch LO  <small>JPMIA0038GB</small> 1.3 V
					Front washer switch ON  <small>JPMIA0039GB</small> 1.3 V

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

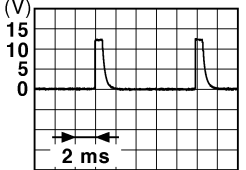

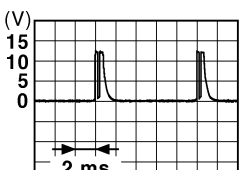


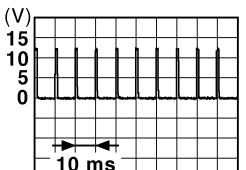
[REGULAR GRADE]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	 <p>JPMIA0041GB</p> <p>1.4 V</p>
				Lighting switch AUTO (Wiper intermittent dial 4)	 <p>JPMIA0038GB</p> <p>1.3 V</p>
				Lighting switch 1ST (Wiper intermittent dial 4)	 <p>JPMIA0036GB</p> <p>1.3 V</p>
				Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	 <p>JPMIA0039GB</p> <p>1.3 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
109 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	All switches OFF  <small>JPMIA0041GB</small> 1.4 V
					Lighting switch PASS  <small>JPMIA0037GB</small> 1.3 V
					Lighting switch 2ND  <small>JPMIA0036GB</small> 1.3 V
					Front wiper switch INT  <small>JPMIA0038GB</small> 1.3 V
					Front wiper switch HI  <small>JPMIA0040GB</small> 1.3 V
					ON 0 V
110 (P)	Ground	Hazard switch	Input	Hazard switch	OFF  <small>JPMIA0012GB</small> 1.1 V

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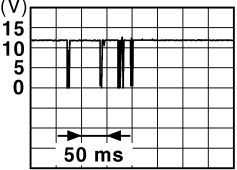
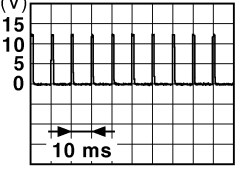
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

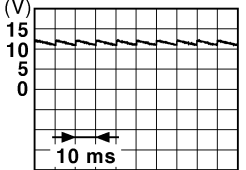
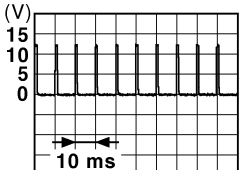

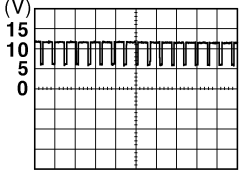
[REGULAR GRADE]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	12 V
					LOCK or UNLOCK	 JMKIA0066GB
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
113 (O)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle	Close to 5 V
					When dark outside of the vehicle	Close to 0 V
114*5 (R)	Ground	Clutch interlock switch	Input	Clutch interlock switch	OFF (Clutch pedal is not depressed)	0 V
					ON (Clutch pedal is de- pressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input	—		Battery voltage
118 (P)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is de- pressed)	Battery voltage
119 (SB)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	 JPMIA0012GB
					UNLOCK status (Unlock switch sensor ON)	0 V
						1.1 V
121 (R)	Ground	Key slot switch	Input	When the Intelligent Key is inserted into key slot		12 V
				When the Intelligent Key is not inserted into key slot		0 V
123 (W)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	 JPMIA0011GB 11.8 V
					ON (Door open)	0 V
130*6 (L)	Ground	Rear window defog- ger switch	Input	Ignition switch ON	Rear window defogger switch OFF	 JPMIA0012GB 1.1 V
					Rear window defogger switch ON	0 V
132 (Y)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		 JPMIA0013GB 10.2 V
				Ignition switch OFF or ACC		12 V
133 (G)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps OFF)	9.5 V
					ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination bright- ening/dimming level.  JPMIA0159GB
					OFF	0 V
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage
					ON	0 V
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138 (V)	Ground	Receiver and sensor power supply	Output	Ignition switch	OFF	0 V
					ACC or ON	5.0 V

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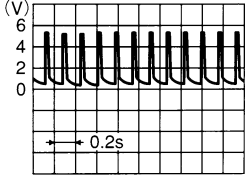
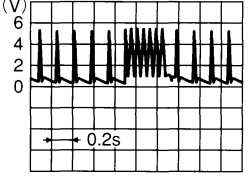
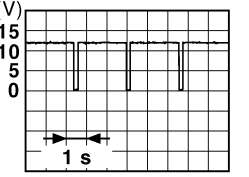
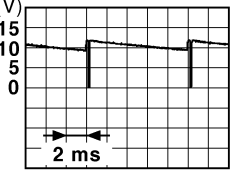
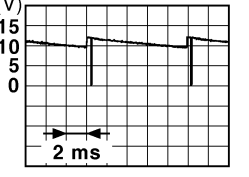
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

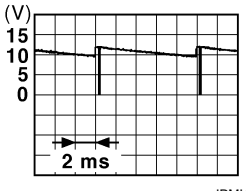
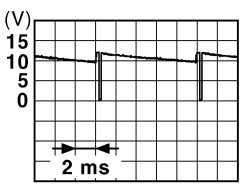
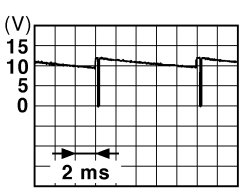
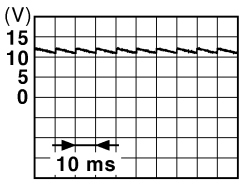
[REGULAR GRADE]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	Ignition switch ON	Standby state	 OCC3881D
					When receiving the signal from the transmitter	 OCC3880D
140*7 (G)	Ground	Selector lever P/N position (A/T models)	Input	Selector lever	P or N position	12 V
					Except P and N positions	0 V
		Transmission range switch (M/T models with SynchroRev Match mode)	Input	Ignition switch ON	Control lever in neutral position	Battery voltage
					Control lever in any position other than neutral	0 V
141 (Y)	Ground	Security indicator	Output	Security indicator	ON	0 V
					Blinking	 JPMIA0014GB
					OFF	12 V
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
					Lighting switch 1ST	 JPMIA0031GB
					Lighting switch HI	
					Lighting switch 2ND	
					Turn signal switch RH	
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	 JPMIA0032GB
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	
					Any of the conditions below with all switches OFF	
					<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	10.7 V
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
					Front wiper switch INT	
					Front wiper switch LO	
					Lighting switch AUTO	
					Rear fog lamp switch ON	
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
					Lighting switch 2ND	
					Lighting switch PASS	
					Turn signal switch LH	
149 (W)	Ground	Tire pressure warning check switch	Input	—	—	12 V
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	 11.8 V
					ON (Door open)	0 V
151 (G)	Ground	Rear window defog- ger relay control	Output	Rear window defogger	Active	0 V
					Not activated	Battery voltage

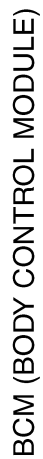
- *1: For Canada
- *2: A/T models
- *3: Except M/T models with SynchroRev Match mode
- *4: M/T models without SynchroRev Match mode
- *5: M/T models
- *6: Without NAVI
- *7: Except M/T models without SynchroRev Match mode

[REGULAR GRADE]

Wiring Diagram - BCM -

2008/09/12

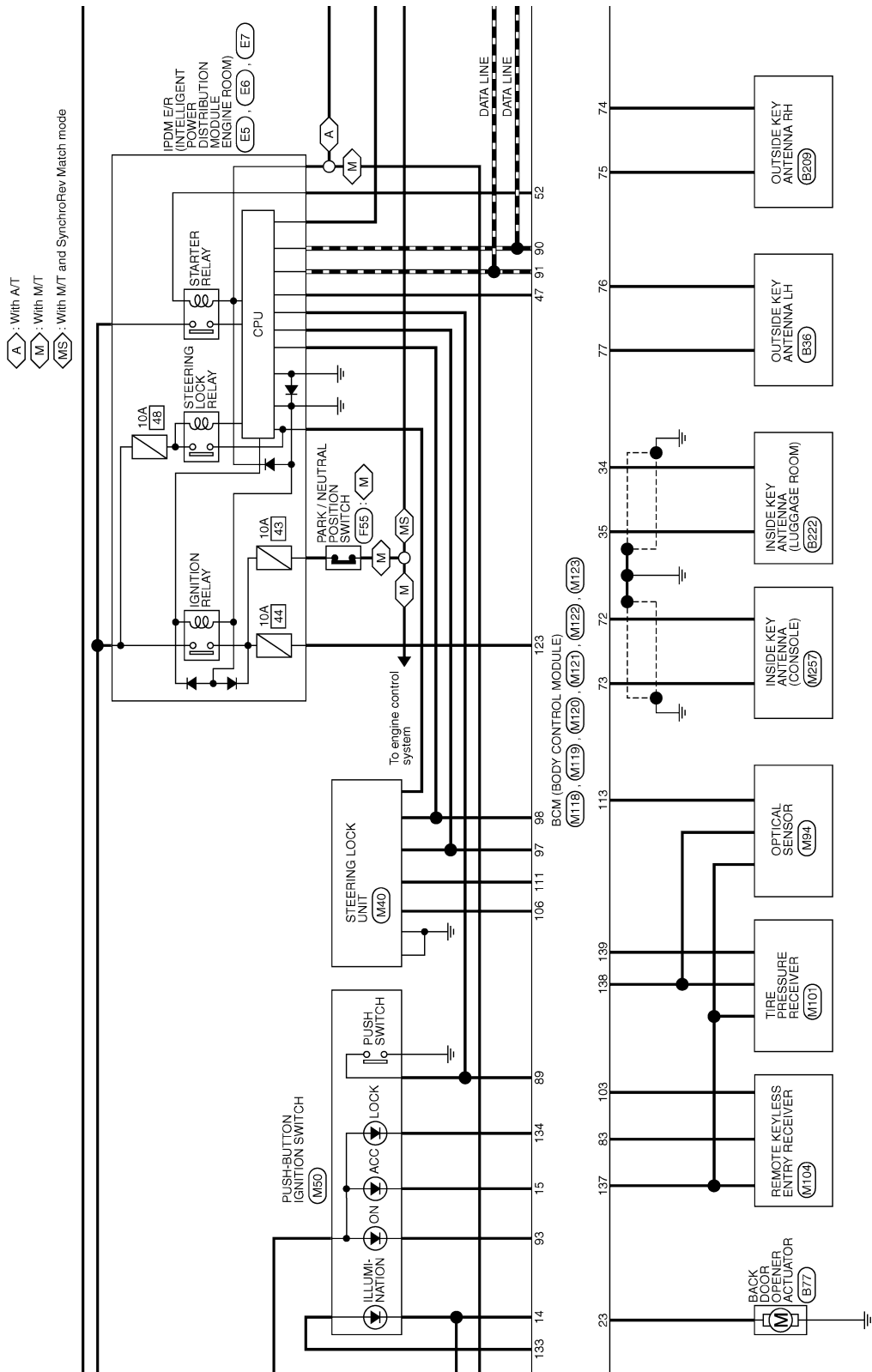
JCMWA3235GE



BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]



JCMWA3236G1

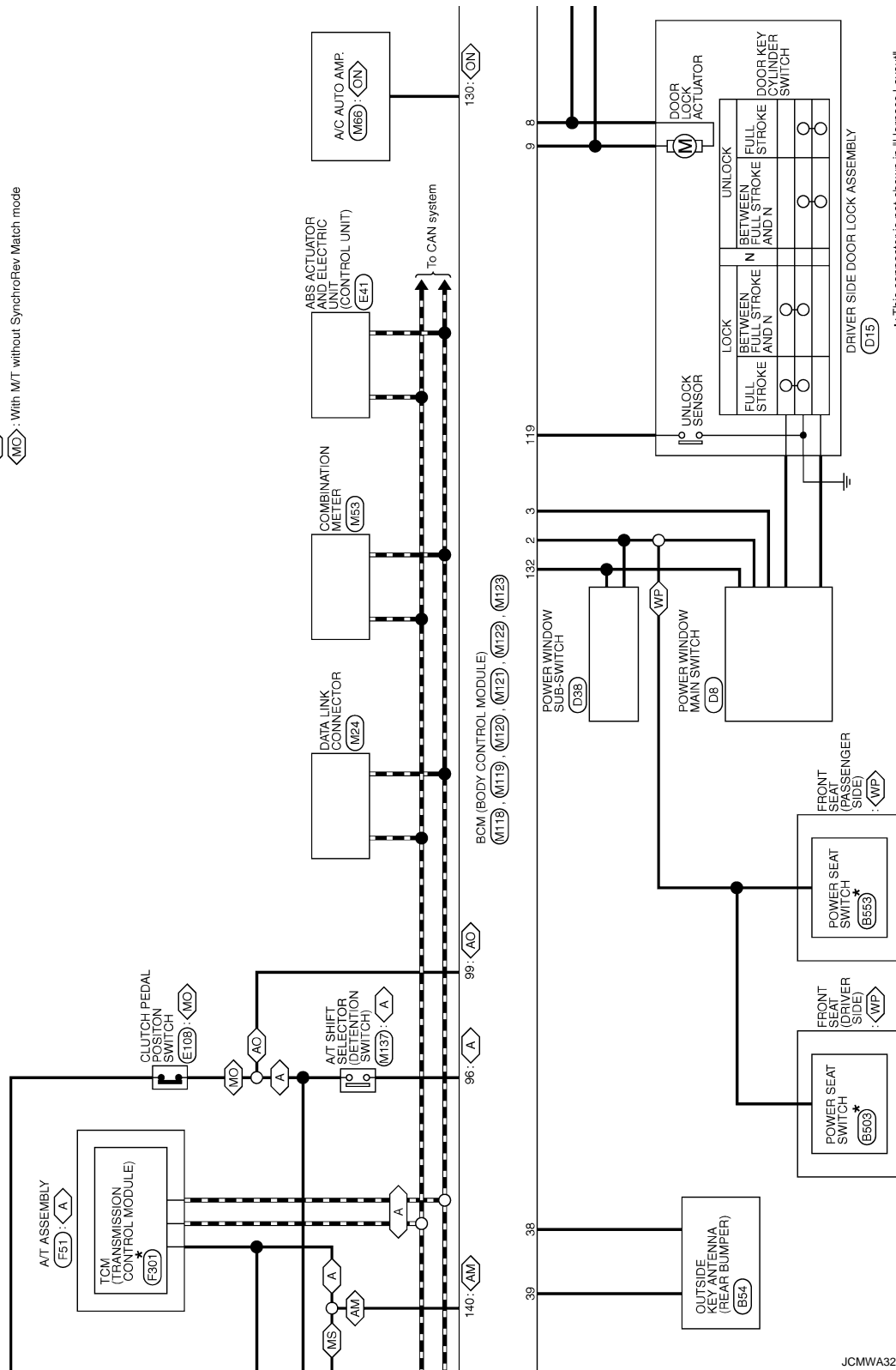
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

<A> : With A/T
 <WP> : With power seat
 <ON> : Without NAVI
 <AM> : With A/T or with M/T and SynchroRev Match mode
 <AO> : With A/T or with M/T without SynchroRev Match mode
 <MS> : With M/T and SynchroRev Match mode
 <MO> : With M/T without SynchroRev Match mode



*: This connector is not shown in "Harness Layout".

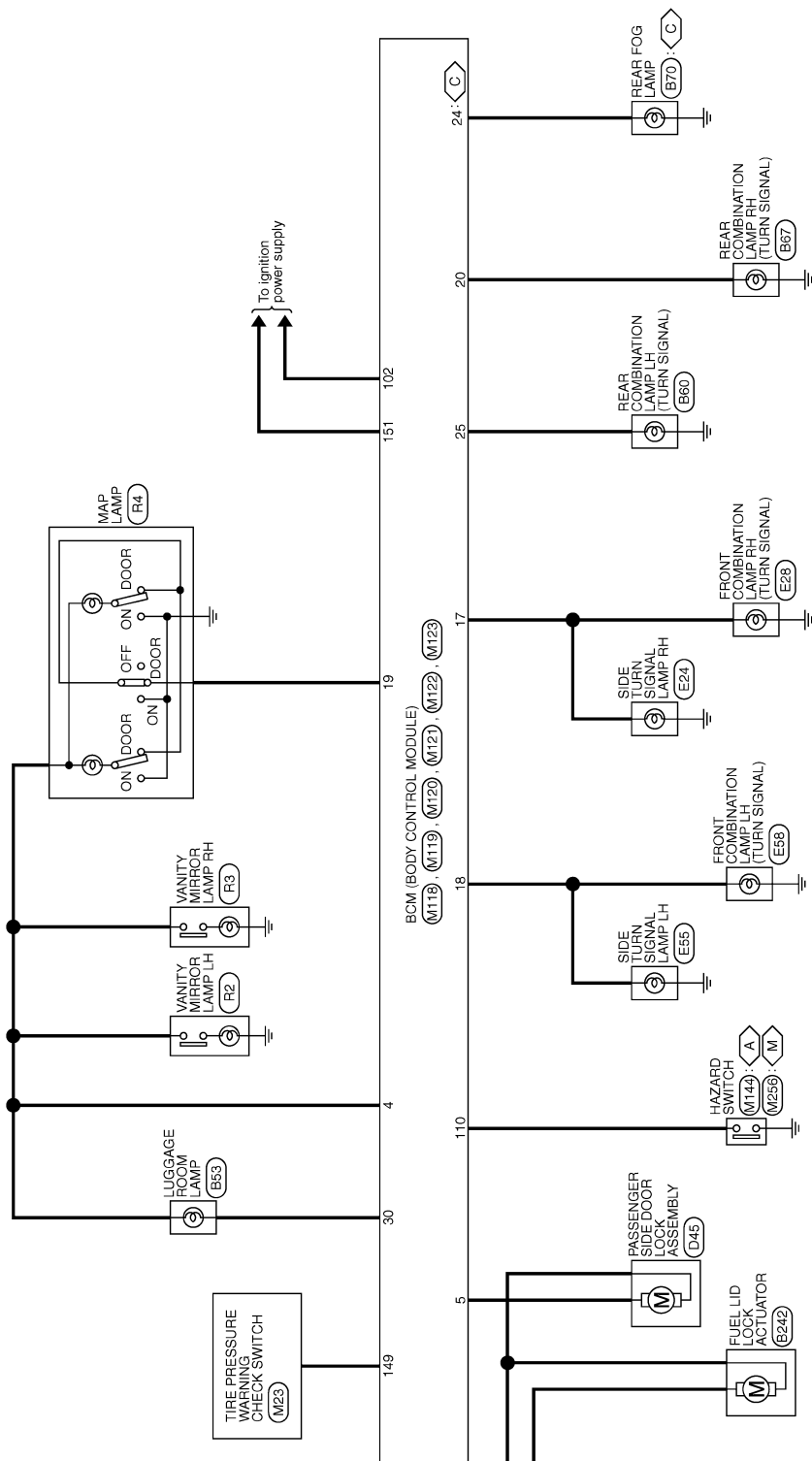
JCMWA3237Gf

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

A : With A/T
M : With M/T
C : For Canada



JCMWA3238Gf

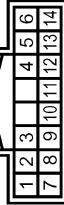
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

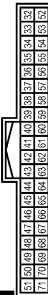
[REGULAR GRADE]

BCM (BODY CONTROL MODULE)		
Connector No.	M33	
Connector Name	COMBINATION SWITCH	
Connector Type	TH16FW-NH	



Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	OUTPUT 4
5	L	OUTPUT 3
7	V	INPUT 3
8	O	OUTPUT 5
9	Y	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	BR	INPUT 5
14	G	OUTPUT 2

Connector No.	M121	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	TH16GV-NH	



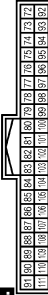
Terminal No.	Color of Wire	Signal Name [Specification]
34	G	LUGGAGE ROOM ANT-
35	R	LUGGAGE ROOM ANT+
38	B	BACK DOOR ANT-
39	W	BACK DOOR ANT+
47	V	IGN RELAY (IPDM F/R) CONT
52	SB	STARTER RELAY CONT
61	W	BACK DOOR OPENER REQUEST SW
64	G	F-KEY WARN BUZZER (ENG ROOM)
66	R	BACK DOOR SW
67	GR	BACK DOOR OPENER SW

Connector No.	M118	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	M03FB-LC	



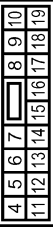
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (E/L)
2	W	POWER WINDOW POWER SUPPLY (BAT)
3	Y	POWER WINDOW POWER SUPPLY (RAP)

Connector No.	M122	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	TH16FB-NH	



Terminal No.	Color of Wire	Signal Name [Specification]
72	L	ROOM ANT-
73	P	ROOM ANT+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
80	GR	IMMOBI ANTENNA CONTROL
81	W	IMMOBI ANTENNA SIGNAL
82	R	IGN RELAY (F/R) CONT
83	GR	KEYLESS ENTRY RECEIVER COMM
87	BR	COMBI SW INPUT 3

Connector No.	M119	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	NS16FW-GS	



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
11	BR	BAT (FUSE)
13	B	GND
14	R	PUSH-BUTTON IGNITION SW ILL GND
15	Y	ASC IND
17	W	TURN SIGNAL RH (FRONT, SIDE)
18	O	TURN SIGNAL LH (FRONT, SIDE)
19	V	ROOM LAMP TIMER CONT

88	V	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	IGN IND
95	O	ACC RELAY CONT
96	Y	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	P	S/L CONDITION 2
99	BR	ASCO CLUTCH SW (With M/T without SynchroRe Match mode)
99	R	SHIFT P (With A/T)
100	GR	PASSENGER DOOR REQUEST SW
101	Y	DRIVER DOOR REQUEST SW
102	O	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
105	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	P	HAZARD SW
111	Y	S/L UNIT COMM

Connector No.	M120	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	NS16FW-GS	



Terminal No.	Color of Wire	Signal Name [Specification]
20	V	TURN SIGNAL RH (REAR)
23	L	BACK DOOR OPEN OUTPUT
24	O	REAR FOG OUTPUT
25	LG	TURN SIGNAL LH (REAR)
30	R	LUGGAGE ROOM LAMP OUTPUT

JCMWA3239Gt

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

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BCM (BODY CONTROL MODULE)

Connector No. M123

Connector Name BCM (BODY CONTROL MODULE)

Connector Type TH08F-G-NH

Terminal No.	Color of Wire	Signal Name [Specification]
113	O	OPTICAL SENSOR
114	R	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	R	KEY SLOT SW
123	W	IGN F/B
124	LG	PASSENGER DOOR SW
130	L	REAR DEFOGGER SW
132	Y	POWER WINDOW SW COMM
133	G	PUSH BUTTON IGNITION SW ILL POWER

	GR	LOCK IND
134	P	RECEIVER/SENSOR GND
137	V	RECEIVER/SENSOR POWER SUPPLY
138	L	TIRE PRESSURE RECEIVER COMM
139	G	WASH WINDSHIELD PUMP MOTOR (WASH MOTOR)
140	G	SHIFT N/P [Mtd A, T]
141	Y	SECURITY INDICATOR
142	O	COMET SW OUTPUT 5
143	P	COMET SW OUTPUT 1
144	G	COMET SW OUTPUT 2
145	L	COMET SW OUTPUT 3
146	SB	COMET SW OUTPUT 4
149	W	TIRE PRESSURE WARN CHECK SW
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

Fail-safe

FAIL-SAFE CONTROL BY DTC
BCM performs fail-safe control when any DTC are detected.

JCMWA3240GE
INFOID:000000004692751

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

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 ANTENNA 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 <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent <ul style="list-style-type: none"> • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • 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	500 ms after the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> • Status 1 <ul style="list-style-type: none"> - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 <ul style="list-style-type: none"> - 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	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

BCM (BODY CONTROL MODULE)

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[REGULAR GRADE]

Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has becomes consistent <ul style="list-style-type: none"> Steering lock relay signal (Request signal) Steering lock relay signal (Condition signal)
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> Starter motor relay control signal Starter relay status signal (CAN)
B2609: S/L STATUS	<ul style="list-style-type: none"> Inhibit engine cranking Inhibit steering lock 	When the following steering lock conditions agree <ul style="list-style-type: none"> 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	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> IGN relay (IPDM E/R) control signal: OFF (Battery voltage) Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
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 <ul style="list-style-type: none"> Power position changes to ACC Receives engine status signal (CAN)
B2612: S/L STATUS	<ul style="list-style-type: none"> Inhibit engine cranking Inhibit steering lock 	When any of the following conditions are fulfilled <ul style="list-style-type: none"> 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)
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
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
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled <ul style="list-style-type: none"> Status 1 <ul style="list-style-type: none"> Clutch switch signal (CAN from ECM): ON Clutch interlock switch signal: OFF (0 V) Status 2 <ul style="list-style-type: none"> Clutch switch signal (CAN from ECM): OFF Clutch interlock switch signal: ON (Battery voltage)
B26E9: S/L STATUS	<ul style="list-style-type: none"> Inhibit engine cranking Inhibit steering lock 	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled <ul style="list-style-type: none"> Steering condition No. 1 signal: LOCK (0 V) Steering condition No. 2 signal: LOCK (Battery voltage)

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.

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

NOTE:

If rain sensor malfunction is detected when ignition switch is turned OFF ⇒ ON and front wiper switch is INT position, BCM operates a fail-safe control.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

DTC Inspection Priority Chart

INFOID:000000004692752

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
2	<ul style="list-style-type: none">• U1000: CAN COMM CIRCUIT• U1010: CONTROL UNIT (CAN)
3	<ul style="list-style-type: none">• B2190: NATS ANTENNA AMP• B2191: DIFFERENCE OF KEY• B2192: ID DISCORD BCM-ECM• B2193: CHAIN OF BCM-ECM• B2195: ANTI SCANNING
4	<ul style="list-style-type: none">• B2013: ID DISCORD BCM-S/L• B2014: CHAIN OF S/L-BCM• B2553: IGNITION RELAY• B2555: STOP LAMP• B2556: PUSH-BTN IGN SW• B2557: VEHICLE SPEED• B2560: STARTER CONT RELAY• B2601: SHIFT POSITION• B2602: SHIFT POSITION• B2603: SHIFT POSI STATUS• B2604: PNP SW• B2605: PNP SW• B2606: S/L RELAY• B2607: S/L RELAY• B2608: STARTER RELAY• B2609: S/L STATUS• B260A: IGNITION RELAY• B260B: STEERING LOCK UNIT• B260C: STEERING LOCK UNIT• B260D: STEERING LOCK UNIT• B260F: ENG STATE SIG LOST• B2612: S/L STATUS• B2614: ACC RELAY CIRC• B2615: BLOWER RELAY CIRC• B2616: IGN RELAY CIRC• B2617: STARTER RELAY CIRC• B2618: BCM• B2619: BCM• B261A: PUSH-BTN IGN SW• B261E: VEHICLE TYPE• B26E8: CLUTCH SW• B26E9: S/L STATUS• B26EA: KEY REGISTRATION• C1729: VHCL SPEED SIG ERR• U0415: VEHICLE SPEED SIG

BCM (BODY CONTROL MODULE)

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[REGULAR GRADE]

Priority	DTC
5	<ul style="list-style-type: none"> • C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL • C1734: CONTROL UNIT
6	<ul style="list-style-type: none"> • B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA

DTC Index

INFOID:000000004692753

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, refer to [BCS-17. "COMMON ITEM : CONSULT-III Function \(BCM - COMMON ITEM\)".](#)

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
No DTC is detected. further testing may be required.	—	—	—	—	—
U1000: CAN COMM CIRCUIT	—	—	—	—	BCS-38
U1010: CONTROL UNIT (CAN)	—	—	—	—	BCS-39
U0415: VEHICLE SPEED SIG	—	—	—	—	BCS-40
B2013: ID DISCORD BCM-S/L	×	×	—	—	SEC-50
B2014: CHAIN OF S/L-BCM	×	×	—	—	SEC-51
B2190: NATS ANTENNA AMP	×	—	—	—	SEC-42
B2191: DIFFERENCE OF KEY	×	—	—	—	SEC-45
B2192: ID DISCORD BCM-ECM	×	—	—	—	SEC-46
B2193: CHAIN OF BCM-ECM	×	—	—	—	SEC-48
B2195: ANTI SCANNING	×	—	—	—	SEC-49
B2553: IGNITION RELAY	—	×	—	—	PCS-48
B2555: STOP LAMP	—	×	—	—	SEC-54

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
B2556: PUSH-BTN IGN SW	—	×	×	—	SEC-56
B2557: VEHICLE SPEED	×	×	×	—	SEC-58
B2560: STARTER CONT RELAY	×	×	×	—	SEC-59
B2562: LOW VOLTAGE	—	×	—	—	BCS-41
B2601: SHIFT POSITION	×	×	×	—	SEC-60
B2602: SHIFT POSITION	×	×	×	—	SEC-63
B2603: SHIFT POSI STATUS	×	×	×	—	SEC-66
B2604: PNP SW	×	×	×	—	SEC-69
B2605: PNP SW	×	×	×	—	SEC-71
B2606: S/L RELAY	×	×	×	—	SEC-73
B2607: S/L RELAY	×	×	×	—	SEC-74
B2608: STARTER RELAY	×	×	×	—	SEC-76
B2609: S/L STATUS	×	×	×	—	SEC-78
B260A: IGNITION RELAY	×	×	×	—	PCS-50
B260B: STEERING LOCK UNIT	—	×	×	—	SEC-82
B260C: STEERING LOCK UNIT	—	×	×	—	SEC-83
B260D: STEERING LOCK UNIT	—	×	×	—	SEC-84
B260F: ENG STATE SIG LOST	×	×	×	—	SEC-85
B2612: S/L STATUS	×	×	×	—	SEC-90
B2614: ACC RELAY CIRC	—	×	×	—	PCS-52
B2615: BLOWER RELAY CIRC	—	×	×	—	PCS-55
B2616: IGN RELAY CIRC	—	×	×	—	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	—	SEC-94
B2618: BCM	×	×	×	—	PCS-61
B2619: BCM	×	×	×	—	SEC-96
B261A: PUSH-BTN IGN SW	—	×	×	—	PCS-62
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	—	SEC-97
B2622: INSIDE ANTENNA	—	×	—	—	DLK-55
B2623: INSIDE ANTENNA	—	×	—	—	DLK-57
B26E8: CLUTCH SW	×	×	×	—	SEC-86
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	—	SEC-88
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	—	SEC-89
C1704: LOW PRESSURE FL	—	—	—	×	WT-16
C1705: LOW PRESSURE FR	—	—	—	×	
C1706: LOW PRESSURE RR	—	—	—	×	
C1707: LOW PRESSURE RL	—	—	—	×	
C1708: [NO DATA] FL	—	—	—	×	WT-18
C1709: [NO DATA] FR	—	—	—	×	
C1710: [NO DATA] RR	—	—	—	×	
C1711: [NO DATA] RL	—	—	—	×	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[REGULAR GRADE]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
C1712: [CHECKSUM ERR] FL	—	—	—	×	WT-21
C1713: [CHECKSUM ERR] FR	—	—	—	×	
C1714: [CHECKSUM ERR] RR	—	—	—	×	
C1715: [CHECKSUM ERR] RL	—	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	—	×	WT-24
C1717: [PRESSDATA ERR] FR	—	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	—	×	
C1720: [CODE ERR] FL	—	—	—	×	WT-26
C1721: [CODE ERR] FR	—	—	—	×	
C1722: [CODE ERR] RR	—	—	—	×	
C1723: [CODE ERR] RL	—	—	—	×	
C1724: [BATT VOLT LOW] FL	—	—	—	×	WT-29
C1725: [BATT VOLT LOW] FR	—	—	—	×	
C1726: [BATT VOLT LOW] RR	—	—	—	×	
C1727: [BATT VOLT LOW] RL	—	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	—	×	WT-32
C1734: CONTROL UNIT	—	—	—	×	WT-34

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SYMPTOM DIAGNOSIS

TPMS

Symptom Table

INFOID:000000004476226


LOW TIRE PRESSURE WARNING LAMP SYMPTOM CHART

Diagnosis items	Symptom (Ignition switch ON)	Low tire pressure warning lamp	Cause	Action
Low tire pressure warning lamp	The low tire pressure warning lamp illuminates for 1 second, then turns OFF.	 ON 1 sec > stays OFF SEIA0592E	Wake-up operation for all 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.	 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-6, "TRANSMITTER WAKE UP OPERATION : Special Repair Requirement" .
	The low tire pressure warning lamp blinks once.	 Blinks 1 time ON 0.3 sec > OFF 1.3 sec SEIA0594E	The front left transmitter is not activated.	Perform the wake-up operation for the transmitter at front left wheel. Refer to WT-6, "TRANSMITTER WAKE UP OPERATION : Special Repair Requirement" .
	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-6, "TRANSMITTER WAKE UP OPERATION : Special Repair Requirement" .
	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-6, "TRANSMITTER WAKE UP OPERATION : Special Repair Requirement" .
	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-6, "TRANSMITTER WAKE UP OPERATION : Special Repair Requirement" .
	The low tire pressure warning lamp turns ON and stays illuminated.	 Comes ON and stays ON SEIA0598E	Low tire pressure	Check with CONSULT-III the tire pressure values. Refer to WT-11, "COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)" .

TPMS

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

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.	 <p>Blinks 1 min</p> <p>ON 0.5 sec > OFF 0.5 sec and stays ON</p> <p>SEIA0788E</p>	The combination meter fuse is open or removed (or pulled out).	Check and install the combination meter fuse. If necessary, replace the fuse.
			The low tire pressure warning control unit harness connector is removed.	Check the connection conditions of the low tire pressure warning control unit 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 WT-11, "COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)". If necessary, perform transmitter ID registration. Refer to WT-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement".
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 BLINKS

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

LOW TIRE PRESSURE WARNING LAMP DOES NOT BLINKS

Description

INFOID:00000000455545

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:000000004470721

1.CHECK LOW TIRE PRESSURE WARNING LAMP

Perform trouble diagnosis of the low tire pressure warning lamp. Refer to [WT-40, "Diagnosis Procedure"](#).

Is the inspection result normal?

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

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LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

Description

INFOID:000000004470722

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

Diagnosis Procedure

INFOID:000000004470723

1.CHECK BCM

④ With CONSULT-III
Perform BCM (AIR PRESSURE MONITOR) self-diagnosis.

Is any DTC detected?

YES >> Check the DTC. Refer to [WT-77, "DTC Index"](#).

NO >> GO TO 2.

2.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-84, "Exploded View"](#).

NO >> Repair or replace damaged parts.

LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

LOW TIRE PRESSURE WARNING LAMP BLINKS

Description

INFOID:000000004470724

DESCRIPTION

The low tire pressure warning lamp illuminates or blinks.

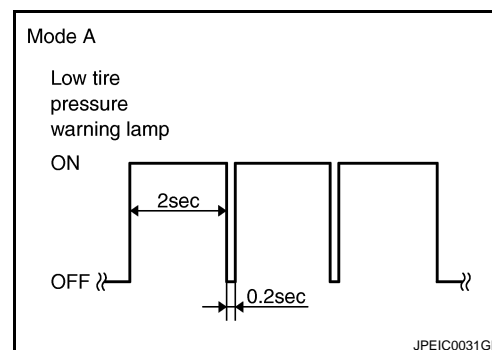
However, a check is necessary because the symptom may not be caused by a system malfunction. For example, the transmitter may not be initialized.

NOTE:

If low tire pressure warning lamp blinks as shown in the figure, the system is normal.

Blink Mode A

- This mode shows transmitter status is in OFF- mode.
Perform transmitter wake up operation. Refer to [WT-6, "TRANSMITTER WAKE UP OPERATION : Special Repair Requirement"](#).



Diagnosis Procedure

INFOID:000000004470725

1.CHECK TIRE PRESSURE WARNING CHECK SWITCH POWER SUPPLY

- Turn the ignition switch ON.

CAUTION:

Never start the engine.

- Check voltage between tire pressure warning check switch connector and ground.

Tire pressure warning check switch		—	Voltage (Approx.)
Connector	Terminal		
M23	1	Ground	12 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Ripper or replace error-detected damaged parts.

2.CHECK TIRE PRESSURE WARNING CHECK SWITCH CIRCUIT

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

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

- Check the continuity between BCM harness connector and ground.

BCM		—	Continuity
Connector	Terminal		
M123	149	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Ripper or replace error-detected damaged parts.

LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

3.CHECK BCM

Check the BCM input/output signal. Refer to [WT-45. "Reference Value"](#).

Is the inspection result normal?

- YES >> Check the tire pressure warning check switch. Refer to [WT-38. "Diagnosis Procedure"](#).
- NO >> Repair or replace the BCM.

TURN SIGNAL LAMP BLINKS

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

TURN SIGNAL LAMP BLINKS

Description

INFOID:000000004470726

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:000000004470727

1.CHECK TIRE PRESSURE WARNING CHECK SWITCH POWER SUPPLY CIRCUIT

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

2. Check voltage between tire pressure warning check switch connector and ground.

Tire pressure warning check switch		—	Voltage (Approx.)
Connector	Terminal		
M23	1	Ground	12 V

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace damaged parts.

2.CHECK TIRE PRESSURE WARNING CHECK SWITCH CIRCUIT

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

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

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

BCM		—	Continuity
Connector	Terminal		
M123	149	Ground	Not existed

Is the inspection result normal?

YES >> Check the turn signal lamp operation. Refer to [BCS-34, "SIGNAL BUFFER : CONSULT-III Function \(BCM - SIGNAL BUFFER\)"](#).

NO >> Repair or replace damaged parts.

ID REGISTRATION CANNOT BE COMPLETED

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

ID REGISTRATION CANNOT BE COMPLETED

Description

INFOID:000000004470728

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

INFOID:000000004470729

1.CHECK TRANSMITTER ID REGISTRATION

1. Perform transmitter ID registration for all wheels. Refer to [WT-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).
2. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
3. 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	Measuring 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 >> GO TO 2.

2.CHECK TRANSMITTERS

1. Perform trouble diagnosis for the transmitter. Refer to [WT-26, "Diagnosis Procedure"](#).
2. Perform transmitter ID registration for all wheels. Refer to [WT-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).
3. Check that transmitter ID registration is completed for all wheels.

Is transmitter ID registration for all wheels been completed?

YES >> INSPECTION END
NO >> Replace the transmitter. Refer to [WT-97, "Exploded View"](#).

NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

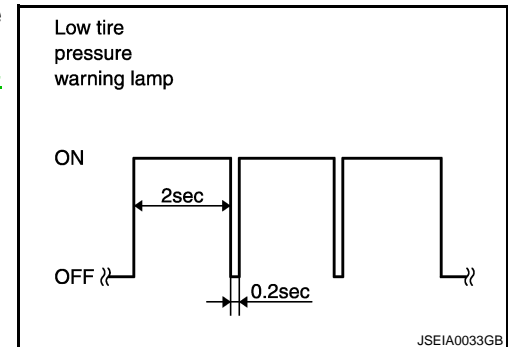
NORMAL OPERATING CONDITION

Description

INFOID:000000004470730

LOW TIRE PRESSURE WARNING LAMP BLINKS

If the low tire pressure warning lamp blinks as shown in the figure after the ignition switch is turned ON, the transmitter is not waked up. Perform the transmitter wake-up operation. Refer to [WT-6. "TRANSMITTER WAKE UP OPERATION : Special Repair Requirement"](#).



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NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

INFOID:000000004470731

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

Reference page			Possible cause and SUSPECTED PARTS																	
			Improper 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																	
Symptom	TIRES	Noise	x	x	x	x	x	x	x		x	x	x	x		x	x	x	x	
		Shake	x	x	x	x	x	x		x	x		x	x		x	x	x	x	
		Vibration				x				x	x		x	x			x		x	
		Shimmy	x	x	x	x	x	x	x	x			x	x		x		x	x	
		Judder	x	x	x	x	x	x		x			x	x		x		x	x	
		Poor quality ride or handling	x	x	x	x	x	x		x			x		x	x				
	ROAD WHEEL	Noise	x	x	x			x			x	x	x	x	x		x	x	x	
		Shake	x	x	x			x			x		x	x	x		x	x	x	
		Shimmy, Judder	x	x	x			x					x	x	x			x	x	
		Poor quality ride or handling	x	x	x			x					x	x	x					

x: Applicable

PRECAUTION

PRECAUTIONS

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

INFOID:000000004692755

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:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which 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 the "SRS AIR BAG".
- Do not 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:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT 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:000000004470732

- 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-12, "AIR PRESSURE MONITOR : Diagnosis Description"](#), [WT-6, "ID REGISTRATION PROCEDURE : Special Repair Requirement"](#).
- ID registration is required when replacing or rotating wheels, replacing transmitter or BCM. Refer to [BCS-84, "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-97, "Exploded View"](#).

PREPARATION

< PREPARATION >

[REGULAR GRADE]

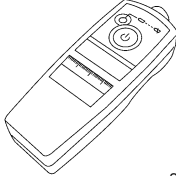
PREPARATION

PREPARATION

Special Service Tool

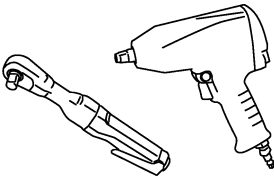
INFOID:000000004476230

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
<p>— (J-45295) Transmitter activation tool</p>  <p>SEIA0462E</p>	ID registration

Commercial Service Tool

INFOID:000000004476231

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

PERIODIC MAINTENANCE

ROAD WHEEL

Inspection

INFOID:000000004470734

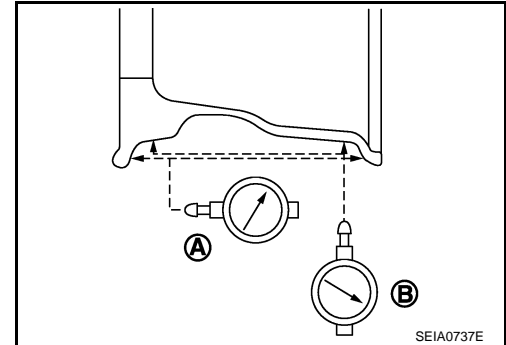
ALUMINUM WHEEL

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-100, "Road Wheel"](#).

B: Refer to [WT-100, "Road Wheel"](#).



STEEL WHEEL

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

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:

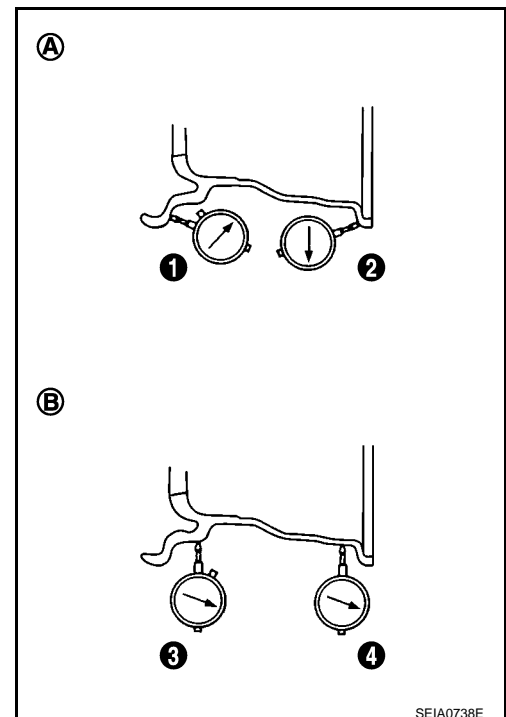
In case a positive or negative value is not available, use the maximum value (negative or positive) for total runout.

Limit

A: Refer to [WT-100, "Road Wheel"](#).

B: Refer to [WT-100, "Road Wheel"](#).

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



REMOVAL AND INSTALLATION

ROAD WHEEL TIRE ASSEMBLY

Adjustment

INFOID:000000004470737

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)

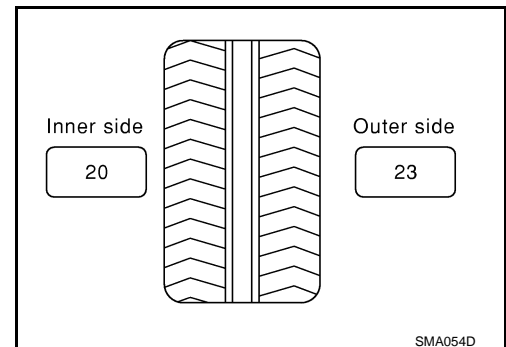
NOTE:

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 TIRE ASSEMBLY

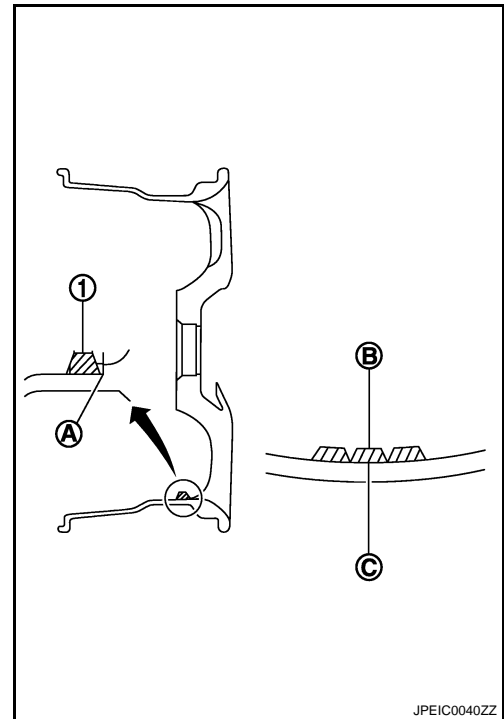
< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

- 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.



- 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:

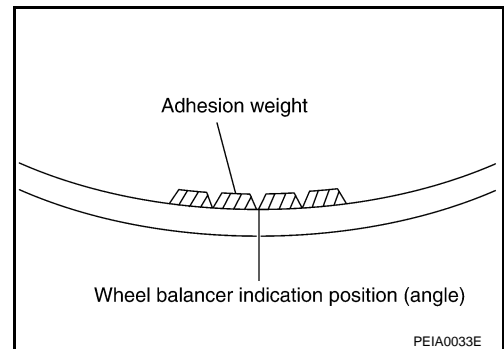
Do not install one balance weight sheet on top of another.

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

CAUTION:

Do not install more than two balance weight.

5. Start the 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.



Limit

Dynamic (At flange) : Refer to [WT-100, "Road Wheel"](#).

Static (At flange) : Refer to [WT-100, "Road Wheel"](#).

TIRE ROTATION

- 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 tightening torque : Refer to [WT-100, "Road Wheel"](#).

CAUTION:

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

Safety Device Preventing from Being Incorrectly installed

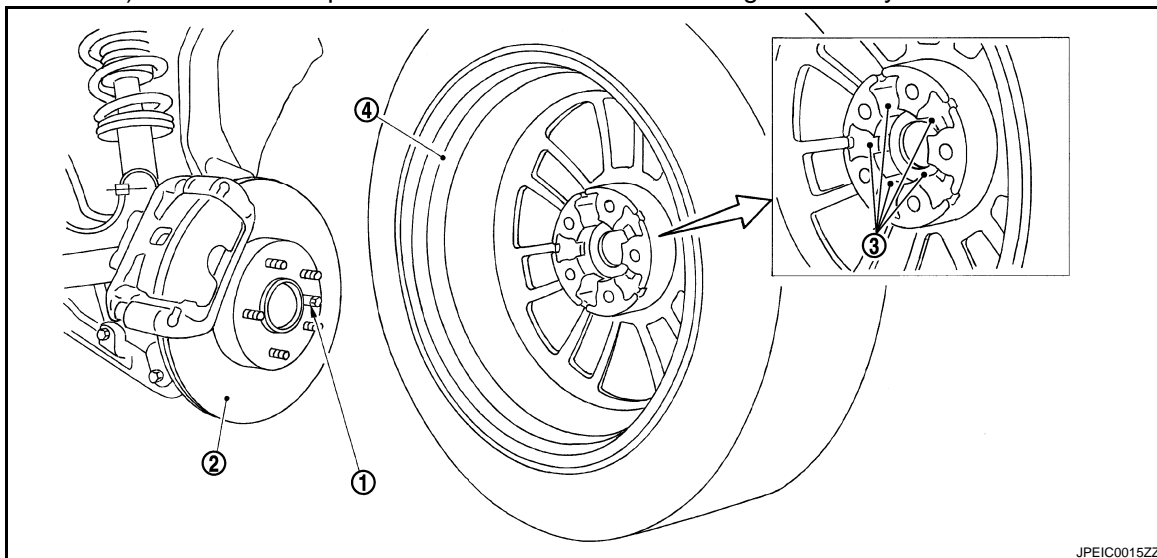
FRONT BRAKE DISC ROTOR AND FRONT WHEEL

ROAD WHEEL TIRE ASSEMBLY

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

- Front and rear wheel size for this model differs, therefore special pin (1) is adopted to the front brake disc rotor (2). And a hole (3) that matches to this pin is adopted to the front wheel (4) (the rear wheel does not have this wheel). This structure prevents the rear wheel from being mistakenly installed on the front.

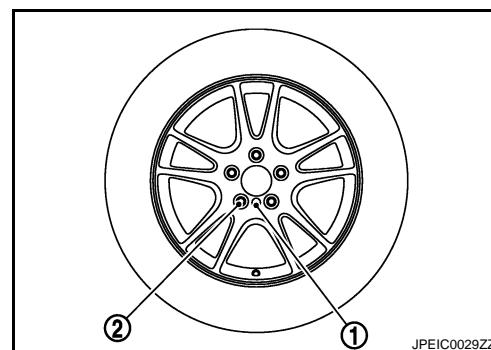


T-TYPE SPARE TIRE WHEEL

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

NOTE:

Protection pin through hole of 18 inch spare wheel is non-through type.



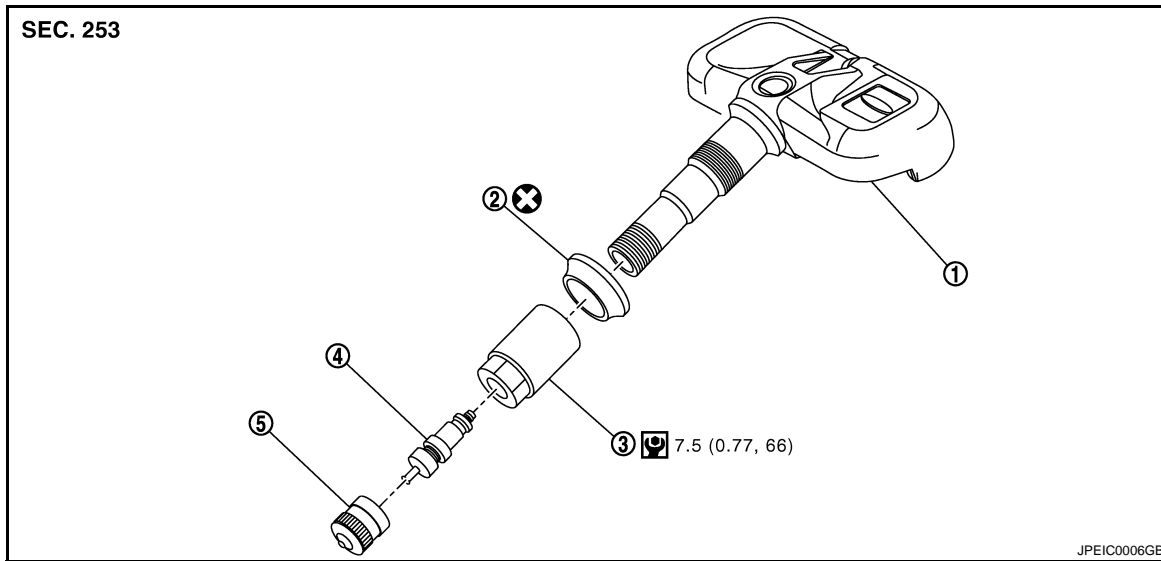
TRANSMITTER

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

TRANSMITTER

Exploded View



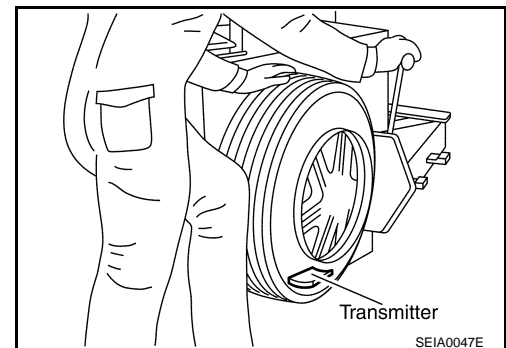
Refer to [GI-4, "Components"](#) for symbols in figure.

Removal and Installation

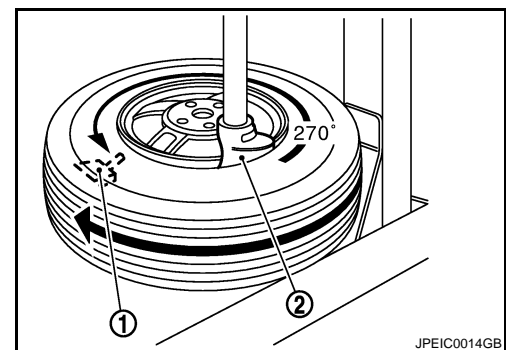
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REMOVAL

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.



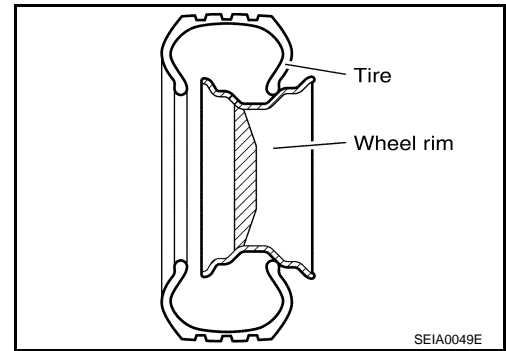
INSTALLATION

TRANSMITTER

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

1. Put first side of tire onto rim.



2. Mount transmitter on rim and tighten nut.

CAUTION:

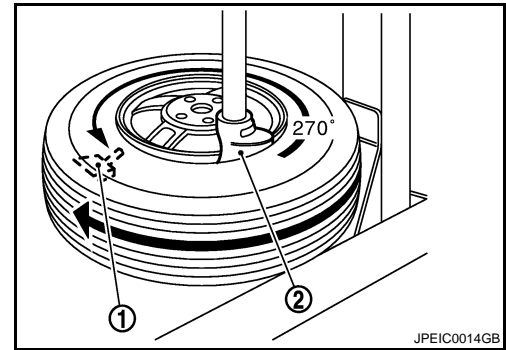
Speed for tightening nut should be less than 10 rpm.

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

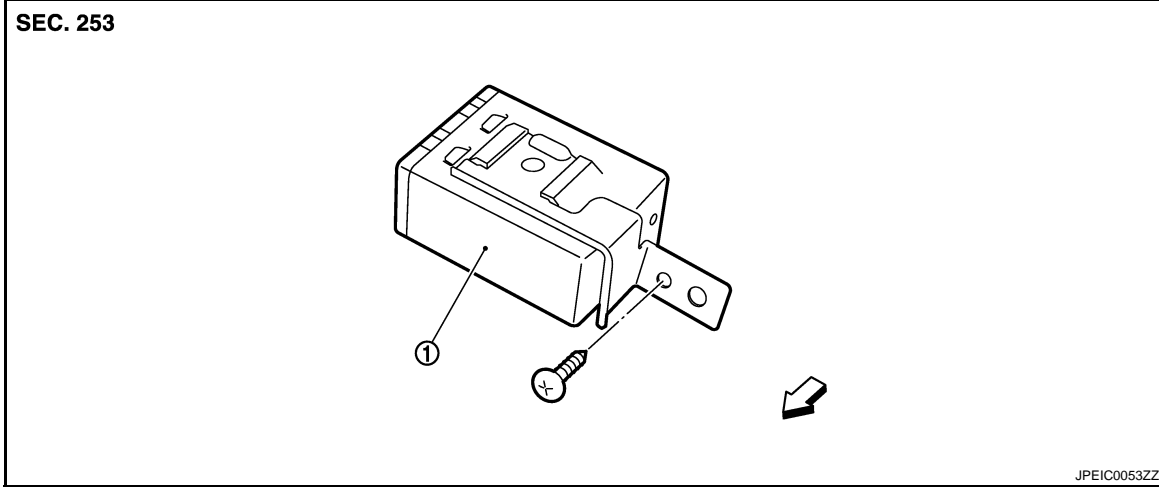
< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

TIRE PRESSURE RECEIVER

Exploded View

INFOID:000000004470740



1. Tire pressure receiver

← Vehicle front

Removal and Installation

INFOID:000000004470741

REMOVAL

1. Remove the glove box assembly. 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)

[REGULAR GRADE]

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Road Wheel

INFOID:0000000004470742

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)	Less than 10 g (0.35 oz)

EMERGENCY

Item		Limit
Radial runout	Lateral deflection	Less than 1.5 mm (0.059 in)
	Vertical deflection	
Allowable unbalance	Dynamic (At flange)	Less than 5 g (0.17 oz) (one side)
	Static (At flange)	Less than 10 g (0.35 oz)

Wheel Nut

INFOID:0000000004470743

Item	Standard
Wheel nut tightening torque	108 N·m (11 kg-m, 80 ft-lb)

Tire Air Pressure

INFOID:0000000004470744

Unit: kPa (kg/cm², psi)

Tire size	Air pressure	
	Front	Rear
225/50R18 95W	240 (2.4, 35)	—
245/45R18 96W	—	240 (2.4, 35)
245/40R19 94W	240 (2.4, 35)	—
275/35R19 96W	—	240 (2.4, 35)
T145/80D17	420 (4.2, 60)	420 (4.2, 60)
T145/70R18	420 (4.2, 60)	420 (4.2, 60)

ROAD WHEEL TIRE ASSEMBLY

< SPEC CHANGE INFORMATION >

[Nismo 370Z]

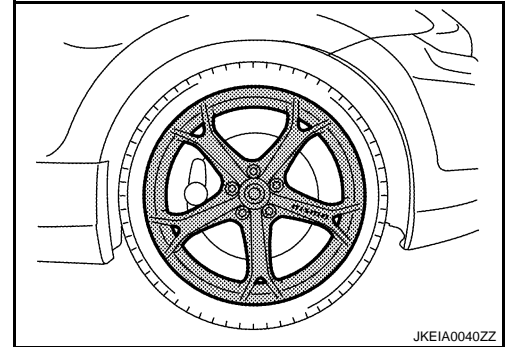
SPEC CHANGE INFORMATION

ROAD WHEEL TIRE ASSEMBLY

Road Wheel Tire Assembly

- Dedicated aluminum wheels adopted.

NISMO models	Item		Data
Aluminum road wheels	Size	Front	19 × 9.5J
		Rear	19 × 10.5J
	Offset	Front	+40 mm (+1.57 in)
		Rear	+23 mm (+0.91 in)
Tires	Tire size	Front	245/40ZR19 98Y
		Rear	285/35ZR19 99Y



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