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2008 Xterra

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INFOID:0000000003081059

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Repair Work Flow

WORK FLOW

INSPECTION START Verify customer complaints. Perform preliminary check. Perform self-diagnosis. Check symptoms. Repair or replace malfunctioning parts. Perform drive test. NG Perform self-diagnosis. OK END ALEIA0003GB

WT-5, "Preliminary Check"

WT-12, "Self-Diagnosis (Without CONSULT-III)" WT-34, "Symptom Table"

DETAILED FLOW

1.CUSTOMER INFORMATION

Interview the customer to obtain detailed information about the symptom.

>> GO TO 2

2.PRELIMINARY CHECK

Perform preliminary check. Refer to WT-5, "Preliminary Check".

>> GO TO 3

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

3.self-diagnosis

Perform SELF-DIAGNOSIS. Refer to <u>WT-11</u>, "CONSULT-III Function (BCM)" (with CONSULT-III) or <u>WT-32</u>, "Self-Diagnosis (Without CONSULT-III)" (without CONSULT-III).

>> GO TO 4

4.SYMPTOM

Check for symptoms. Refer to WT-34, "Symptom Table".

>> GO TO 5

5. MALFUNCTIONING PARTS

Repair or replace the applicable parts.

>> GO TO 6

6. DRIVE TEST

- 1. Perform a drive test.
- 2. Check the low tire pressure warning lamp.

>> GO TO 7

7. SELF-DIAGNOSIS

Perform SELF-DIAGNOSIS.

Are any DTC's displayed?

YES >> GO TO 5

NO >> Inspection End.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

Preliminary Check

1. TIRE PRESSURE

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Check all tire pressures. Refer to WT-48, "Tire".

Do tire pressures match specification?

YES >> GO TO 2.

NO >> Adjust tire pressures to specified value.

2.LOW TIRE PRESSURE WARNING LAMP

Check low tire pressure warning lamp activation.

Does the low tire pressure warning lamp activate for one second when ignition switch is turned ON?

YES >> GO TO 3.

>> GO TO WT-35, "Low Tire Pressure Warning Lamp Does Not Come On When Ignition Switch Is NO Turned On".

3.BCM CONNECTOR

Disconnect BCM harness connectors.

- 2. Check terminals for damage or loose connections.
- Reconnect harness connectors.

Are BCM connectors damaged or loose?

YES >> Repair or replace damaged parts.

NO >> GO TO 4.

4.TRANSMITTER ACTIVATION TOOL

Check battery in transmitter activation tool.

Is transmitter activation tool battery fully charged?

YES >> Perform self-diagnosis. Refer to WT-31, "Self-Diagnosis (With CONSULT-III)".

NO >> Replace battery in transmitter activation tool.

Transmitter Wake Up Operation

NOTE: This procedure must be done after replacement of a low tire pressure warning transmitter or BCM. New replacement transmitters are provided asleep and must first be woken up using Transmitter Acti-

Turn ignition switch ON. Push the transmitter activation tool against the tire near the front left transmitter. Press the button for 5 seconds. The hazard warning lamps flash per the following diagram.

vation Tool J-45295 before ID registration can be performed.

Tool number : (J-45295) LEIA0036E

Repeat this procedure for each tire in the following order: FL, FR, RR, RL.

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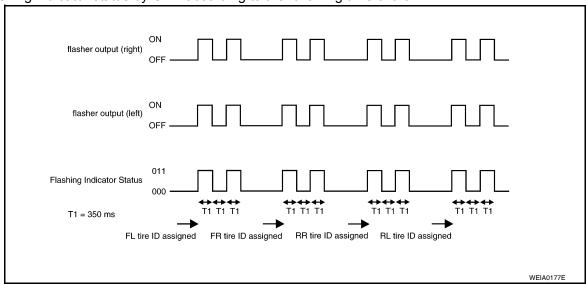
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< BASIC INSPECTION >

3. When the BCM finishes assigning each tire ID, the BCM flashes the hazard warning lamps and sends flashing indicator status by CAN according to the following time chart.



4. After completing wake up of all transmitters, make sure low tire pressure warning lamp goes out.

ID Registration Procedure

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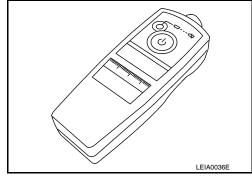
ID REGISTRATION WITH TRANSMITTER ACTIVATION TOOL

NOTE:

This procedure must be done after replacement of a low tire pressure warning transmitter or BCM. New replacement transmitters are provided asleep and must first be woken up using Transmitter Activation Tool J-45295 before ID registration can be performed.

- Connect CONSULT-III.
- 2. Select ID REGIST under BCM.
- 3. Push the transmitter activation tool against the tire near the front left transmitter. Press the button for 5 seconds.

Tool number : (J-45295)



Register the IDs in order from FR LH, FR RH, RR RH and RR LH. When ID registration of each wheel has been completed, the hazard warning lamps flash.

| Step | Activation tire position | Hazard warning lamp | CONSULT-III |
|------|--------------------------|---------------------|-------------|
| 1 | Front LH | | |
| 2 | Front RH | 2 times flashing | YET |
| 3 | Rear RH | 2 times hashing | DONE |
| 4 | Rear LH | | |

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

NOTE:

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

ID REGISTRATION WITHOUT TRANSMITTER ACTIVATION TOOL

NOTE:

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

This procedure must be done after replacement of a low tire pressure warning transmitter or BCM. New replacement transmitters are provided asleep and must first be woken up before ID registration can be performed.

- 1. Connect CONSULT-III.
- Select ID REGIST under BCM.
- Adjust the tire pressures to the values shown in the table and drive the vehicle at 40 km/h (25 MPH) or more for a few minutes.

| Tire position | Tire pressure kPa (kg/cm², psi) |
|---------------|---------------------------------|
| Front LH | 250 (2.5, 36) |
| Front RH | 230 (2.3, 33) |
| Rear RH | 210 (2.1, 30) |
| Rear LH | 190 (1.9, 27) |

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

| Activation tire position | CONSULT-III |
|--------------------------|-------------|
| Front LH | |
| Front RH | YET |
| Rear RH | DONE |
| Rear LH | |

Inflate all tires to proper pressure. Refer to WT-48, "Tire".

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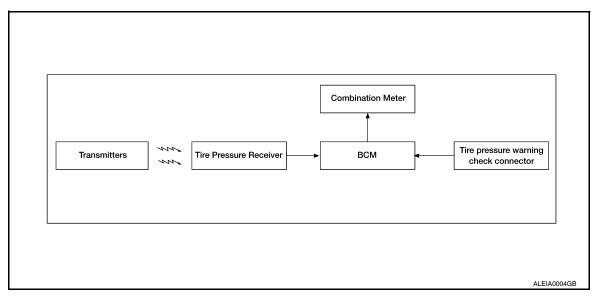
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FUNCTION DIAGNOSIS

TPMS

System Diagram

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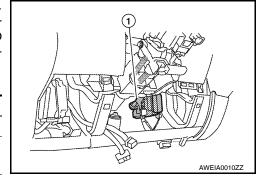
System Description

INFOID:0000000003081064

BODY CONTROL MODULE (BCM)

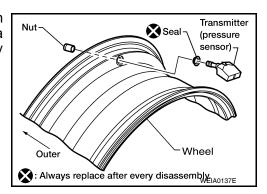
The BCM (1) is shown with the lower instrument panel LH removed. The BCM reads the air pressure signal received by the remote keyless entry receiver, and controls the low tire pressure warning lamp as shown below. It also has a self-diagnosis function to detect a system malfunction.

| Condition | Low tire pressure warning lamp |
|--|---|
| System normal | On for 1 second after ignition ON |
| Tire less than 193 kPa (2.0 kg/cm ² , 28 psi) [Flat tire] | ON |
| Low tire pressure warning system malfunction | After key ON, flashes once per second for 1 minute, then stays ON |



TRANSMITTER

A sensor-transmitter integrated with a valve is installed in each wheel, and transmits a detected air pressure signal in the form of a radio wave. The radio signal is received by the remote keyless entry receiver.

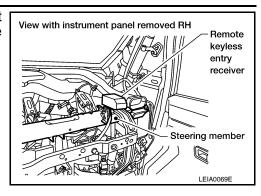


REMOTE KEYLESS ENTRY RECEIVER

TPMS

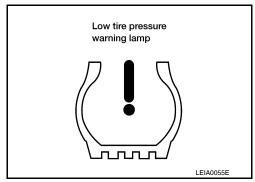
< FUNCTION DIAGNOSIS >

The remote keyless entry receiver is shown with the instrument panel RH removed. The remote keyless entry receiver receives the air pressure signal transmitted by the transmitter in each wheel.



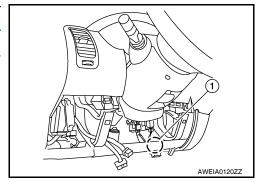
COMBINATION METER

The combination meter receives tire pressure status from the BCM using CAN communication. When a low tire pressure condition is sensed by the BCM, the combination meter low tire pressure warning lamp is activated.



TIRE PRESSURE WARNING CHECK CONNECTOR

The tire pressure warning check connector can be grounded in order to initiate self-diagnosis without a CONSULT-III. Refer to <u>WT-12</u>, <u>"Self-Diagnosis (Without CONSULT-III)"</u>. The tire pressure warning check connector (1) is located behind the lower portion of the instrument panel LH.



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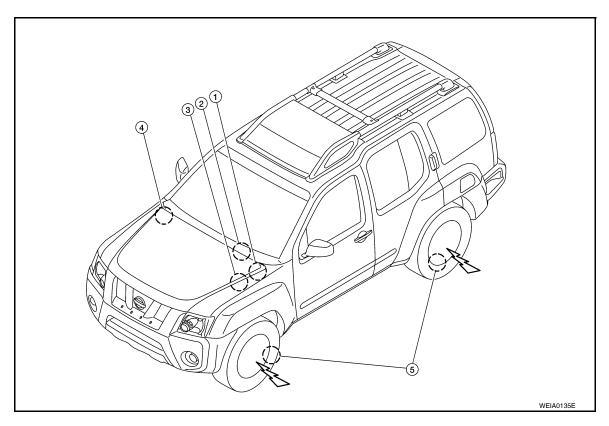
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System Component

INFOID:0000000003248914



1. BCM M18, M20

- 2. Combination meter M24
- 4. Remote keyless entry receiver M120 5. Transmitters
- 3. Tire pressure warning check connector M123

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (BCM)

CONSULT-III Function (BCM)

INFOID:0000000003081066

CONSULT-III DIAGNOSTIC MODES

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

| Diagnostic mode | Description |
|-----------------------|--|
| WORK SUPPORT | Supports inspections and adjustments. Commands are transmitted to the BCM for setting the status suitable for required operation, input/output signals are received from the BCM and received data is displayed. |
| DATA MONITOR | Displays BCM input/output data in real time. |
| ACTIVE TEST | Operation of electrical loads can be checked by sending drive signal to them. |
| SELF-DIAG RESULTS | Displays BCM self-diagnosis results. |
| CAN DIAG SUPPORT MNTR | The result of transmit/receive diagnosis of CAN communication can be read. |
| ECU PART NUMBER | BCM part number can be read. |
| CONFIGURATION | Performs BCM configuration read/write functions. |

DESCRIPTION

During driving, the tire pressure monitoring system receives the signal transmitted from the transmitter installed in each wheel, and turns on the low tire pressure warning lamp when the tire pressure becomes low. The control unit (BCM) for this system has pressure judgement and self-diagnosis functions.

FUNCTION

When the tire pressure monitoring system detects low inflation pressure or an internal malfunction, the low tire pressure warning lamp in the combination meter comes on. The malfunction is indicated by the low tire pressure warning lamp flashing.

CONSULT-III Application to Tire Pressure Monitoring System

| ITEM | SELF-DIAGNOSTIC RESULTS | DATA MONITOR |
|---------------------------|-------------------------|--------------|
| Front - Left transmitter | × | × |
| Front - Right transmitter | × | × |
| Rear - Left transmitter | × | × |
| Rear - Right transmitter | × | × |
| Warning lamp | _ | × |
| Vehicle speed | × | × |
| CAN Communication | × | × |

^{×:} Applicable

Data Monitor Mode

| MONITOR | CONDITION | SPECIFICATION |
|--|--|-----------------------------|
| VHCL SPEED | Drive vehicle. | Vehicle speed (km/h or MPH) |
| AIR PRESS FL AIR PRESS FR AIR PRESS RR AIR PRESS RL | Drive vehicle for a few minutes. or Ignition switch ON and activation tool is transmitting activation signals. | Tire pressure (kPa or psi) |

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^{- :} Not applicable

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

| MONITOR | CONDITION | SPECIFICATION |
|---|--------------------|--|
| ID REGST FL1 ID REGST FR1 ID REGST RR1 ID REGST RL1 | Ignition switch ON | ID not registered: YET ID registered: DONE |
| WARNING LAMP | | Low tire pressure warning lamp on: ON Low tire pressure warning lamp off: OFF |

NOTE:

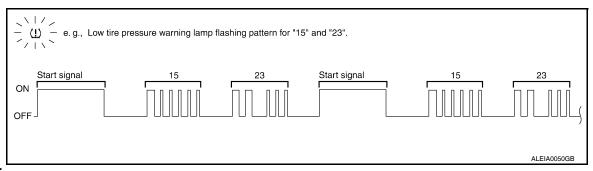
Before performing the self-diagnosis, be sure to register the ID, or the actual malfunction location may be different from that displayed on CONSULT-III.

Self-Diagnosis (Without CONSULT-III)

INFOID:0000000004190597

SELF DIAGNOSTIC PROCEDURE (WITHOUT CONSULT-III)

- 1. Turn ignition switch ON.
- 2. Ground the tire pressure warning check connector to initiate self diagnosis.
- 3. Compare the flashing pattern with the flash code chart below.



NOTE:

The system is normal when the low tire pressure warning lamp flashes 5 times and continues repeating. Self-diagnosis results are erased automatically by turning the ignition switch "OFF".

| Flash Code | Malfunction part | Reference page |
|----------------------|---|----------------|
| 15 16 17 18 | Tire pressure dropped below specified value. Refer to WT-8, "System Description". | _ |
| 21 22 23 24 | Transmitter no data (FL) Transmitter no data (FR) Transmitter no data (RR) Transmitter no data (RL) | <u>WT-14</u> |
| 31 32 33 34 | Transmitter checksum error (FL) Transmitter checksum error (FR) Transmitter checksum error (RR) Transmitter checksum error (RL) | <u>WT-16</u> |
| 35 36 37 38 | Transmitter pressure data error (FL) Transmitter pressure data error (FR) Transmitter pressure data error (RR) Transmitter pressure data error (RL) | <u>WT-18</u> |
| 41 42 43 44 | Transmitter function code error (FL) Transmitter function code error (FR) Transmitter function code error (RR) Transmitter function code error (RL) | <u>WT-16</u> |
| 45 46 47 48 | Transmitter battery voltage low (FL) Transmitter battery voltage low (FR) Transmitter battery voltage low (RR) Transmitter battery voltage low (RL) | <u>WT-16</u> |

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

| Flash Code | Malfunction part | Reference page |
|------------|-------------------------|----------------|
| 52 | Vehicle speed signal | <u>WT-19</u> |
| 54 | Vehicle ignition signal | <u>WT-20</u> |

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C1708 - C1711 DATA FROM TRANSMITTER NOT BEING RECEIVED

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

C1708 - C1711 DATA FROM TRANSMITTER NOT BEING RECEIVED

Description INFOID:0000000003081068

Tire pressure data for one or more transmitters is not being received by the BCM.

DTC Logic

DTC DETECTION LOGIC

| DTC | CONSULT-III | DTC detecting condition | | |
|-------|------------------|--|--|--|
| C1708 | [NO - DATA] - FL | Data from FL transmitter cannot be received. | | |
| C1709 | [NO - DATA] - FR | Data from FR transmitter cannot be received. | | |
| C1710 | [NO - DATA] - RR | Data from RR transmitter cannot be received. | | |
| C1711 | [NO - DATA] - RL | Data from RL transmitter cannot be received. | | |

DTC CONFIRMATION PROCEDURE

1. ID REGISTRATION AND VEHICLE DRIVING

- Carry out ID registration of all transmitters.
- Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.

INFOID:0000000003081070

3. Check all tire pressures with CONSULT-III within 5 minutes.

Does DATA MONITOR ITEM display tire pressure as normal without any warning lamp?

YES >> Inspection End.

NO >> Refer to WT-14, "Diagnosis Procedure".

Diagnosis Procedure

MALFUNCTION CODE NO. 21, 22, 23 OR 24 (DTC C1708, C1709, C1710 OR C1711)

1.CHECK BCM

Drive for several minutes. Check all tire pressures with CONSULT-III.

Are all tire pressures displayed as 0 kPa?

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

2.check tire pressure receiver connector

Check tire pressure receiver connector for damage or loose connection.

Is tire pressure receiver connector damaged or loose?

YES >> Repair or replace tire pressure receiver connector.

NO >> Replace BCM, then GO TO 3. Refer to BCS-53, "Removal and Installation".

3.PERFORM ID REGISTRATION

Carry out ID registration of all transmitters. Refer to WT-6, "ID Registration Procedure".

Is there a tire that cannot register ID?

YES >> Replace malfunctioning transmitter, then GO TO 5. Refer to <u>WT-46, "Transmitter (Pressure Sensor)".</u>

NO >> GO TO 4

4. DRIVE VEHICLE

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

Does DATA MONITOR ITEM display tire pressure as normal without any warning lamp?

C1708 - C1711 DATA FROM TRANSMITTER NOT BEING RECEIVED

< COMPONENT DIAGNOSIS >

YES >> Inspection End. NO >> GO TO 5

5.ID REGISTRATION AND VEHICLE DRIVING

- 1. Carry out ID registration of all transmitters.
- 2. Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.
- 3. Check all tire pressures with CONSULT-III within 5 minutes.

Does DATA MONITOR ITEM display tire pressure as normal without any warning lamp?

YES >> Inspection End.

NO >> Proceed to the inspection applicable to DTC.

Special Repair Requirement

Perform preliminary check. Refer to WT-5. "Preliminary Check".

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C1712 - C1715, C1720 - C1723, C1724 - C1727 TRANSMITTER MALFUNCTION

< COMPONENT DIAGNOSIS >

C1712 - C1715, C1720 - C1723, C1724 - C1727 TRANSMITTER MALFUNC-TION

Description INFOID:0000000003081072

One or more transmitters are malfunctioning internally.

DTC Logic

DTC DETECTION LOGIC

| DTC | CONSULT-III | DTC detecting condition | |
|-------|--------------------------|---|--|
| C1712 | [CHECKSUM - ERR] - FL | Checksum data from FL transmitter is malfunctioning. | |
| C1713 | [CHECKSUM - ERR] - FR | Checksum data from FR transmitter is malfunctioning. | |
| C1714 | [CHECKSUM - ERR] - RR | Checksum data from RR transmitter is malfunctioning. | |
| C1715 | [CHECKSUM - ERR] - RL | Checksum data from RL transmitter is malfunctioning. | |
| C1720 | [CODE - ERR] - FL | Function code data from FL transmitter is malfunctioning. | |
| C1721 | [CODE - ERR] - FR | Function code data from FR transmitter is malfunctioning. | |
| C1722 | [CODE - ERR] - RR | Function code data from RR transmitter is malfunctioning. | |
| C1723 | [CODE - ERR] - RL | Function code data from RL transmitter is malfunctioning. | |
| C1724 | [BATT - VOLT - LOW] - FL | Battery voltage of FL transmitter drops. | |
| C1725 | [BATT - VOLT - LOW] - FR | Battery voltage of FR transmitter drops. | |
| C1726 | [BATT - VOLT - LOW] - RR | Battery voltage of RR transmitter drops. | |
| C1727 | [BATT - VOLT - LOW] - RL | Battery voltage of RL transmitter drops. | |

DTC CONFIRMATION PROCEDURE

1. DRIVE VEHICLE

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

Does DATA MONITOR ITEM display tire pressure as normal without any warning lamp?

YES >> Inspection End.

NO >> Refer to WT-16, "Diagnosis Procedure".

Diagnosis Procedure

MALFUNCTION CODE NO. 31, 32, 33, 34, 41, 42, 43, 44, 45, 46, 47 OR 48 (DTC C1712, C1713, C1714, C1715, C1720, C1721, C1722, C1723, C1724, C1725, C1726 OR C1727)

INFOID:0000000003081074

1.PERFORM ID REGISTRATION

- Carry out ID registration of all transmitters. Refer to <u>WT-6, "ID Registration Procedure"</u>.
- Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.

>> GO TO 2

2. REPLACE TRANSMITTER

- 1. Check low tire pressure warning lamp again for flashing, replace malfunctioning transmitter. Refer to <u>WT-46</u>, "Transmitter (Pressure Sensor)".
- 2. Carry out ID registration of all transmitters.

Can ID registration of all transmitters be completed?

YES >> GO TO 3

NO >> GO TO WT-14, "Diagnosis Procedure".

C1712 - C1715, C1720 - C1723, C1724 - C1727 TRANSMITTER MALFUNCTION

< COMPONENT DIAGNOSIS >

3. DRIVE VEHICLE

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

<u>Does DATA MONITOR ITEM display tire pressure as normal without any warning lamp?</u>

YES >> Inspection End.

NO >> Replace malfunctioning transmitter, and perform Step 3 again.

Special Repair Requirement

Perform preliminary check. Refer to WT-5, "Preliminary Check".

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C1716 - C1719 TRANSMITTER PRESSURE MALFUNCTION

< COMPONENT DIAGNOSIS >

C1716 - C1719 TRANSMITTER PRESSURE MALFUNCTION

Description INFOID:0000000003081076

Air pressure data from one or more transmitters is out of range.

DTC Logic

DTC DETECTION LOGIC

| DTC | CONSULT - III | DTC detecting condition |
|-------|----------------------|--|
| C1716 | [PRESSDATA - ERR] FL | Air pressure data from FL transmitter is malfunctioning. |
| C1717 | [PRESSDATA - ERR] FR | Air pressure data from FR transmitter is malfunctioning. |
| C1718 | [PRESSDATA - ERR] RR | Air pressure data from RR transmitter is malfunctioning. |
| C1719 | [PRESSDATA - ERR] RL | Air pressure data from RL transmitter is malfunctioning. |

DTC CONFIRMATION PROCEDURE

1. ID REGISTRATION AND VEHICLE DRIVING

- 1. Carry out ID registration of all transmitters.
- Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.
- 3. Check all tire pressures with CONSULT-III within 5 minutes.

Does DATA MONITOR ITEM display tire pressure as normal without any warning lamp?

YES >> Inspection End.

NO >> Refer to <u>WT-18, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000003081078

MALFUNCTION CODE NO. 35, 36, 37 OR 38 (DTC C1716, C1717, C1718 OR C1719)

1. CHECK ALL TIRE PRESSURES

Check all tire pressures. Refer to WT-48, "Tire".

Are there any tires with pressure of 64 psi or more?

YES >> Adjust tire pressure to specified value.

NO >> GO TO 2

2.ID REGISTRATION AND VEHICLE DRIVING

- Carry out ID registration of all transmitters. Refer to <u>WT-6, "ID Registration Procedure"</u>.
- 2. Drive at a speed of 40 km/h (25 MPH) or more for several minutes without stopping.
- Check all tire pressures with CONSULT-III within 15 minutes after vehicle speed becomes 17 km/h (11 MPH).

Does DATA MONITOR ITEM display 64 psi or more?

YES >> Replace transmitter. Refer to WT-46, "Transmitter (Pressure Sensor)". GO TO 3.

NO >> GO TO 3

3.ID REGISTRATION AND VEHICLE DRIVING

- 1. Carry out ID registration of all transmitters.
- Drive at a speed of 40 km/h (25 MPH) or more for 3 minutes, and then drive the vehicle at any speed for 10 minutes.
- Check all tire pressures with CONSULT-III within 5 minutes.

Does DATA MONITOR ITEM display tire pressure as normal without any warning lamp?

YES >> Inspection End.

NO >> Proceed to the inspection applicable to DTC.

Special Repair Requirement

INFOID:0000000003081079

Perform preliminary check. Refer to WT-5, "Preliminary Check".

C1729 VEHICLE SPEED SIGNAL < COMPONENT DIAGNOSIS > C1729 VEHICLE SPEED SIGNAL Α Description INFOID:0000000003081080 The vehicle speed signal is not being detected by the BCM. В **DTC** Logic INFOID:0000000003081081 DTC DETECTION LOGIC DTC **CONSULT - III** DTC detecting condition D C1729 VHCL SPEED SIG ERR Vehicle speed signal is in error. DTC CONFIRMATION PROCEDURE 1. CHECK SELF-DIAGNOSTIC RESULTS WT On SELECT DIAG MODE, select the SELF-DIAG RESULT screen. Check display contents on SELF DIAG RESULT screen. Is the CAN COMM CIRCUIT displayed in the self-diagnosis display? >> Refer to WT-19, "Diagnosis Procedure". NO >> Inspection end. Diagnosis Procedure INFOID:0000000003081082 MALFUNCTION CODE NO. 52 (DTC C1729) Н 1. CHECK SELF-DIAGNOSTIC RESULTS On SELECT DIAG MODE, select the SELF-DIAG RESULT screen. Check display contents on SELF DIAG RESULT screen. Is the CAN COMM CIRCUIT displayed in the self-diagnosis display? YES >> Perform trouble diagnosis for CAN communication system. Refer to LAN-14, "Trouble Diagnosis Flow Chart". >> Check combination meter. Refer to MWI-24, "CONSULT-III Function (METER/M&A)". NO Special Repair Requirement INFOID:0000000004190598 Perform preliminary check. Refer to WT-5, "Preliminary Check". Ν

Revision: February 2010 WT-19 2008 Xterra

C1735 IGNITION SIGNAL

< COMPONENT DIAGNOSIS >

C1735 IGNITION SIGNAL

Description INFOID:000000004190599

The BCM monitors the IGN ON signal on the CAN line and compares it to it's direct IGN ON signal. When these two signals do not match, the BCM sets C1735.

DTC Logic

DTC DETECTION LOGIC

| DTC | CONSULT - III | DTC detecting condition |
|-------|---------------------------------|---|
| C1735 | IGNITION SIGNAL LINE - BCM/TPMS | BCM has detected a mismatch between IGN ON signals. |

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAGNOSTIC RESULTS

- 1. On SELECT DIAG MODE, select the SELF-DIAG RESULT screen.
- 2. Check display contents on SELF DIAG RESULT screen.

Is C1735 displayed in the self-diagnosis display?

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

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000004190601

MALFUNCTION CODE NO. 54 (DTC C1735)

1.CAN IGNITION SIGNAL

Check BCM IGN RLY signal with CONSULT-III. Refer to WT-21, "Reference Value".

Are the inspection results normal with the ignition switch ON?

YES >> GO TO 2.

NO >> Check CAN system. Refer to LAN-14, "Trouble Diagnosis Flow Chart".

2.BCM POWER SUPPLY

Check BCM power supply (ignition ON). Refer to BCS-30, "Diagnosis Procedure".

Is the power supply with the ignition switch ON normal?

YES >> GO TO 3.

NO >> Repair power supply as necessary.

3.DRIVE VEHICLE

Clear DTC and then test drive the vehicle and check the low tire pressure warning lamp.

Does the vehicle operate without any low tire pressure warning lamp?

YES >> Inspection End.

NO >> Replace BCM. Refer to <u>BCS-53, "Removal and Installation"</u>.

Special Repair Requirement

INFOID:0000000004190602

Perform preliminary check. Refer to WT-5, "Preliminary Check".

< ECU DIAGNOSIS >

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

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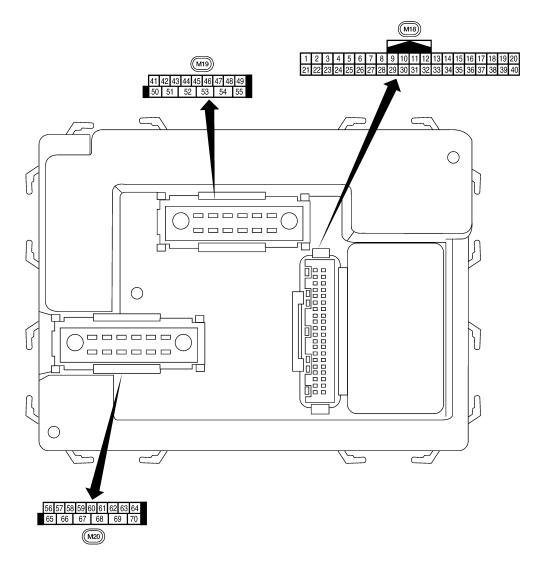
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VALUES ON THE DIAGNOSIS TOOL

| Monitor Item | Condition | Value/Status | |
|---------------|---|--------------|--|
| AIR COND SW | A/C switch OFF | OFF | |
| AIR COND 3W | A/C switch ON | ON | |
| BACK DOOR SW | Back door closed | OFF | |
| BACK DOOK SW | Back door opened | ON | |
| CDL LOCK SW | Door lock/unlock switch does not operate | OFF | |
| CDL LOCK SVV | Press door lock/unlock switch to the LOCK side | ON | |
| CDL UNLOCK SW | Door lock/unlock switch does not operate | OFF | |
| CDL UNLOCK SW | Press door lock/unlock switch to the UNLOCK side | ON | |
| DOOD OW AC | Front door RH closed | OFF | |
| DOOR SW-AS | Front door RH opened | ON | |
| D00D 0W DD | Front door LH closed | OFF | |
| DOOR SW-DR | Front door LH opened | ON | |
| D00D 0M 5: | Rear door LH closed | OFF | |
| DOOR SW-RL | Rear door LH opened | ON | |
| | Rear door RH closed | OFF | |
| DOOR SW-RR | Rear door RH opened | ON | |
| | Engine stopped | OFF | |
| ENGINE RUN | Engine running | ON | |
| | Front fog lamp switch OFF | OFF | |
| FR FOG SW | Front fog lamp switch ON | ON | |
| | Front washer switch OFF | OFF | |
| FR WASHER SW | Front washer switch ON | ON | |
| | Front wiper switch OFF | OFF | |
| FR WIPER LOW | Front wiper switch LO | ON | |
| | Front wiper switch OFF | OFF | |
| FR WIPER HI | Front wiper switch HI | ON | |
| | Front wiper switch OFF | OFF | |
| FR WIPER INT | Front wiper switch INT | ON | |
| | Any position other than front wiper stop position | OFF | |
| FR WIPER STOP | Front wiper stop position | ON | |
| | When hazard switch is not pressed | OFF | |
| HAZARD SW | When hazard switch is pressed | ON | |
| | Lighting switch OFF | OFF | |
| LIGHT SW 1ST | Lighting switch 1st | ON | |
| | Headlamp switch OFF | OFF | |
| HEADLAMP SW1 | ' | | |
| HEADLAMP SW1 | Headlamp switch 1st | ON | |
| HEADLAMP SW1 | Headlamp switch 1st Headlamp switch OFF | OFF | |

| Monitor Item | Condition | Value/Status |
|-------------------|---|-----------------------------------|
| LUDEAM CW | High beam switch OFF | OFF |
| HI BEAM SW | High beam switch HI | ON |
| IGN ON SW | Ignition switch OFF or ACC | OFF |
| IGN ON SW | Ignition switch ON | ON |
| IGN SW CAN | Ignition switch OFF or ACC | OFF |
| IGN SW CAN | Ignition switch ON | ON |
| INT VOLUME | Wiper intermittent dial is in a dial position 1 - 7 | 1 - 7 |
| KEY ON SW | Mechanical key is removed from key cylinder | OFF |
| KET ON SW | Mechanical key is inserted to key cylinder | ON |
| KEYLESS LOCK | LOCK button of key fob is not pressed | OFF |
| RETLESS LOCK | LOCK button of key fob is pressed | ON |
| KENTEGO HINII OOK | UNLOCK button of key fob is not pressed | OFF |
| KEYLESS UNLOCK | UNLOCK button of key fob is pressed | ON |
| OIL PRESS SW | Ignition switch OFF or ACC Engine running | OFF |
| | Ignition switch ON | ON |
| DA COINO OM | Other than lighting switch PASS | OFF |
| PASSING SW | Lighting switch PASS | ON |
| DEAD DEE OW | Rear window defogger switch OFF | OFF |
| REAR DEF SW | Rear window defogger switch ON | ON |
| | Rear washer switch OFF | OFF |
| RR WASHER SW | Rear washer switch ON | ON |
| DD WIDED INT | Rear wiper switch OFF | OFF |
| RR WIPER INT | Rear wiper switch INT | ON |
| RR WIPER ON | Rear wiper switch OFF | OFF |
| RR WIPER ON | Rear wiper switch ON | ON |
| RR WIPER STOP | Rear wiper stop position | OFF |
| RR WIPER STOP | Other than rear wiper stop position | ON |
| TAIL LAND CVA | Lighting switch OFF | OFF |
| TAIL LAMP SW | Lighting switch 1ST | ON |
| TRNK OPNR SW | When back door opener switch is not pressed | OFF |
| ININ OFINE SW | When back door opener switch is pressed | ON |
| TURN SIGNAL L | Turn signal switch OFF | OFF |
| I UKIN SIGNAL L | Turn signal switch LH | ON |
| THEN SIGNAL P | Turn signal switch OFF | OFF |
| TURN SIGNAL R | Turn signal switch RH | ON |
| VEHICLE SPEED | While driving | Equivalent to speedometer reading |

Terminal Layout



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Physical Values

| | | | Signal | | Measuring condition | |
|--------------|---------------|---|------------------|--------------------|--|--|
| Terminal | Wire color | Signal name | input/ output | Ignition switch | Operation or condition | Reference value or waveform (Approx.) |
| 1 | BR | Ignition keyhole illumi- | Output | OFF | Door is locked (SW OFF) | Battery voltage |
| ı | DK | nation | Output | OFF | Door is unlocked (SW ON) | 0V |
| 2 | Р | Combination switch input 5 | Input | ON | Lighting, turn, wiper OFF Wiper dial position 4 | (V) 6 4 2 0 ***5ms |
| 3 | SB | Combination switch input 4 | Input | ON | Lighting, turn, wiper OFF Wiper dial position 4 | (V) 6 4 2 0 ***5ms SKIA5292E |
| 4 | ٧ | Combination switch input 3 | Input | ON | Lighting, turn, wiper OFF Wiper dial position 4 | (V) 6 4 2 0 **5ms SKIAS291E |
| 5 | L | Combination switch input 2 | | | | (V) |
| 6 | R | Combination switch input 1 | Input | ON | Lighting, turn, wiper OFF Wiper dial position 4 | 6 4 2 0 • • • • • 5 ms |
| | | Front door lock as- | | | ON (open, 2nd turn) | Momentary 1.5V |
| 7 | GR | sembly LH (key cylin- der switch) and back door key cylinder switch (unlock) | Input | OFF | OFF (closed) | 0V |
| | | Front door lock as- | | | ON (open) | Momentary 1.5V |
| 8 | SB | sembly LH (key cylin- der switch) and back door key cylinder switch (lock) | Input | OFF | OFF (closed) | 0V |
| 9 | Y | Rear window defogger | Input | ON | Rear window defogger switch ON | 0V |
| . | ' | switch | mput | ON | Rear window defogger switch OFF | 5V |
| 11 | G/B | Ignition switch (ACC or ON) | Input | ACC or ON | Ignition switch ACC or ON | Battery voltage |
| 12 | LG | Front door switch RH | Input | OFF | ON (open) | 0V |
| | | | put | | OFF (closed) | Battery voltage |

| | Wire | | Signal | | Measuring condition | Reference value or waveform | | | | | | | | | | | | | |
|----------|-------------------------------|---|------------------|-----------------|--|--|--|--|--|--|---|-------------|-------|--|--|--|--|---|--------------------------|
| Terminal | color | Signal name | input/ output | Ignition switch | Operation or condition | (Approx.) | | | | | | | | | | | | | |
| 13 | L | Rear door switch RH | Input | OFF | ON (open) | 0V | | | | | | | | | | | | | |
| 13 | L | Real door Switch RH | iliput | OFF | OFF (closed) | Battery voltage | | | | | | | | | | | | | |
| 15 | W | Tire pressure warning check connector | Input | OFF | _ | 5V | | | | | | | | | | | | | |
| 18 | BR | Remote keyless entry receiver and optical sensor (ground) | Output | OFF | _ | 0V | | | | | | | | | | | | | |
| 19 | V | Remote keyless entry receiver (power supply) | Output | OFF | Ignition switch OFF | (V) 6 4 2 0 ********************************* | | | | | | | | | | | | | |
| 20 | G | Remote keyless entry | Input | OFF | Stand-by (keyfob buttons released) | (V) 6 4 2 0 +-50 ms | | | | | | | | | | | | | |
| | | receiver (signal) | | | | | | | | | r | receiver re | OFF - | | | | | When remote keyless entry receiver receives signal from keyfob (keyfob buttons pressed) | (V) 6 4 2 -1 |
| 21 | GR | NATS antenna amp. | Input | OFF → ON | Ignition switch (OFF \rightarrow ON) | Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage. | | | | | | | | | | | | | |
| 23 | G | Security indicator lamp | Output | OFF | Goes OFF \rightarrow illuminates (Every 2.4 seconds) | Battery voltage → 0V | | | | | | | | | | | | | |
| 25 | BR | NATS antenna amp. | Input | OFF → ON | Ignition switch (OFF → ON) | Just after turning ignition switch ON: Pointer of tester should move for approx. 1 second, then return to battery voltage. | | | | | | | | | | | | | |
| 27 | W Compressor ON sig- Input ON | ON | A/C switch OFF | 5V | | | | | | | | | | | | | | | |
| | ** | nal | Input ON | J.V | A/C switch ON | 0V | | | | | | | | | | | | | |
| 28 | R | Front blower monitor | Input | ON | Front blower motor OFF | Battery voltage | | | | | | | | | | | | | |
| | | | | | Front blower motor ON | 0V | | | | | | | | | | | | | |
| 29 | G | Hazard switch | Input | OFF | ON | 0V | | | | | | | | | | | | | |
| | | | , 511 | OFF | 5V | | | | | | | | | | | | | | |

| | \A.C | | Signal | | Measuring condition | · · · · · · · · · · · · · · · · · · |
|-----------|---------------|-----------------------------|------------------|--------------------|--|--|
| Terminal | Wire color | Signal name | input/ output | Ignition switch | Operation or condition | Reference value or waveform (Approx.) |
| 32 | 0 | Combination switch output 5 | Output | ON | Lighting, turn, wiper OFF Wiper dial position 4 | (V) 6 4 2 0 ***5ms SKIA5291E |
| 33 | GR | Combination switch output 4 | Output | ON | Lighting, turn, wiper OFF Wiper dial position 4 | (V) 6 4 2 0 ***5ms SKIA5292E |
| 34 | G | Combination switch output 3 | Output | ON | Lighting, turn, wiper OFF Wiper dial position 4 | (V) 6 4 2 0 **-5ms SKIA5291E |
| 35 | BR | Combination switch output 2 | | | | |
| 36 | LG | Combination switch output 1 | Output | ON | Lighting, turn, wiper OFF Wiper dial position 4 | (V) 6 2 0 ***5ms SKIA5292E |
| 37 | В | Key switch and key | Input | OFF | Key inserted | Battery voltage |
| <i>31</i> | Ь | lock solenoid | Input | OFF | Key inserted | 0V |
| 38 | W/R | Ignition switch (ON) | Input | ON | _ | Battery voltage |
| 39 | L | CAN-H | _ | _ | _ | |
| 40 | Р | CAN-L | _ | _ | — — — — — — — — — — — — — — — — — — — | |
| 43 | Υ | Back door switch | Input | OFF | ON (open) OFF (closed) | 0V Battery voltage |
| | | | | | Rise up position (rear wiper arm on stopper) | 0V |
| | | | | | A Position (full clockwise stop position) | Battery voltage |
| 44 | 0 | Rear wiper auto stop switch | Input | ON | Forward sweep (counterclockwise direction) | Fluctuating |
| | | | | | B Position (full counterclockwise stop position) | 0V |
| | | | | | Reverse sweep (clockwise direction) | Fluctuating |
| 45 | V | Lock switch | Input | OFF | ON (lock) | 0V |
| | | | · | | OFF | Battery voltage |

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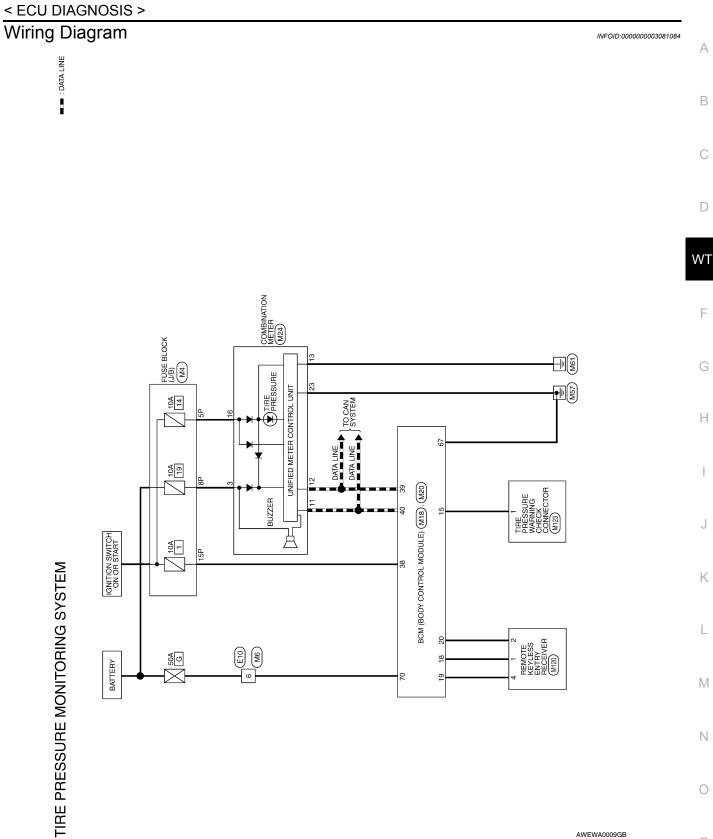
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| | Wire | 0 | Signal | | Measuring cond | dition | Reference value or waveform |
|----------|-------|---|------------------|-----------------|-----------------------------------|--------------|--|
| Terminal | color | Signal name | input/ output | Ignition switch | Operation | or condition | (Approx.) |
| 46 | LG | Unlock switch | Input | OFF | ON (unlock) | | 0V |
| 40 | LG | Officer Switch | iliput | OFF | OFF | | Battery voltage |
| 47 | GR | Front door switch LH | Input | OFF | ON (open) | | 0V |
| 47 | GIX | 1 TOTIL GOOF SWILCH ETT | IIIput | OH | OFF (closed) | | Battery voltage |
| 48 | Р | Rear door switch LH | Input | OFF | ON (open) | | 0V |
| 40 | Г | iteal door switch En | iliput | OH | OFF (closed) | | Battery voltage |
| 49 | L | Cargo lamp | Output | OFF | Any door open | (ON) | 0V |
| 40 | | Cargo ramp | Output | 011 | All doors close | d (OFF) | Battery voltage |
| 51 | G | Trailer turn signal (right) | Output | ON | Turn right ON | | (V) 15 10 5 0 500 ms |
| 52 | V | Trailer turn signal (left) | Output | ON | Turn left ON | | (V) 15 10 5 0 500 ms SKIA3009J |
| 55 | W | Rear wiper output cir- | Output | ON | OFF | | 0 |
| 55 | VV | cuit 1 | Output | ON | ON | | Battery voltage |
| 56 | V | Battery saver output | Output | OFF | 30 minutes after switch is turned | | 0V |
| | | | | ON | - | _ | Battery voltage |
| 57 | R/Y | Battery power supply | Input | OFF | - | _ | Battery voltage |
| 59 | GR | Front door lock as- sembly LH actuator | Output | OFF | OFF (neutral) | | 0V |
| 59 | GK | (unlock) | Output | OFF | ON (unlock) | | Battery voltage |
| 60 | LG | Turn signal (left) | Output | ON | Turn left ON | | (V) 15 10 5 0 500 ms |
| 61 | G | Turn signal (right) | Output | ON | Turn right ON | | (V) 15 10 5 0 500 ms SKIA3009J |
| | | Interior room/map | | OFF | Any door | ON (open) | 0V |
| 63 | BR | intonor roomanap | Output | \cap | | | |

| Wiro | Wire | | Signal | | Measuring condition | Reference value or waveform |
|----------|--|-------------------------|------------------|--|---|-----------------------------|
| Terminal | color | Signal name | input/ output | Ignition switch | Operation or condition | (Approx.) |
| 65 | 65 V All door lock actuators | All door lock actuators | Output | OFF | OFF (neutral) | 0V |
| 05 | V | (lock) | Output | OFF | ON (lock) | Battery voltage |
| | | Front door lock actua- | | | OFF (neutral) | 0V |
| 66 | tor RH, rear door lock 66 L actuators LH/RH and back door lock actuator (unlock) | Output | put OFF | ON (unlock) | Battery voltage | |
| 67 | В | Ground | Input | ON | _ | 0V |
| | | | | | Ignition switch ON | Battery voltage |
| | | | | | Within 45 seconds after ignition switch OFF | Battery voltage |
| 68 O | Power window power supply (RAP) | Output | _ | More than 45 seconds after ignition switch OFF | 0V | |
| | | | | | When front door LH or RH is open or power window timer operates | 0V |
| 70 | W | Battery power supply | Input | OFF | _ | Battery voltage |



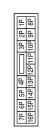
WT-29 Revision: February 2010 2008 Xterra

TIRE PRESSURE MONITORING SYSTEM CONNECTORS

| M4 | Connector Name FUSE BLOCK (J/B) | WHITE |
|---------------|---------------------------------|-----------------------|
| Connector No. | Connector Name | Connector Color WHITE |

Connector No. M6
Connector Name WIRE TO WIRE
Connector Color WHITE

| SCIOL NO. | | ₹ | | | | | | |
|-------------------------------|-----------------------------------|-------|-----|-----|-----|----------|----|----|
| ector Name FUSE BLOCK (J/B) | lame | FU | SE | В | ŏ | 쏬 | 5 | B) |
| ector Color WHITE | olor | W | Ę | ш | | | | |
| | | | | | | | | |
| | 7P 6P 5P 4P [| SP C | ₽ | Ш | П | 3P 2P 1P | 2P | ₽ |
| | 16P 15P 14P 13P 12P 11P 10P 9P 8P | P 14P | 13P | 12P | 11P | 10P | 96 | 8P |
| | | | | | | | | ı |



| Signal Nam | I | I | _ |
|------------------|-----|-----|-----|
| Color of Wire | M/G | R/Υ | W/R |
| Terminal No. | 5P | 8P | 15P |

Signal Name

Color of Wire >

Terminal No.

| Connector No. | <u>.</u> | MIR | |
|-------------------|------------------|----------|---|
| Connector Name | ıme | BCM (E | BCM (BODY CONTROL MODULE) |
| Connector Color | lor | WHITE | |
| H.S. 2 | ~ | | 12 13 14 15 16 17 18 19 |
| 2 2 2 5 5 5 50 50 | 97 /7 | 23 30 31 | 32 33 34 35 36 37 38 38 40 |
| Terminal No. | Color of Wire | Jo e | Signal Name |
| 15 | ≥ | | TMPS MODE TRIGGER SW |
| 18 | BR | | KEYLESS&AUTO LIGHT SENSOR GND |
| 19 | > | | KEYLESS TUNER POWER SUPPLY OUTPUT |
| 20 | G | | KEYLESS TUNER SIGNAL |
| 38 | W/R | ш | IGN SW |
| 39 | _ | | CAN-H |
| 40 | _ | | CAN-L |
| | | | |

| Signal Name | BATTERY | CAN-L | CAN-H | GROUND | RUN START | GND (POWER) |
|------------------|---------|-------|-------|--------|-----------|-------------|
| Color of Wire | R/Υ | ۵ | ٦ | GR | M/G | В |
| Terminal No. | 3 | 1 | 12 | 13 | 16 | 23 |
| ' | | | | | | |







| Connector No. M24 | Connector Name COMBII | Connector Color WHITE | | 17 16 15 14 13 12 11 10 |
|---------------------|-----------------------|-----------------------|-----|-------------------------|
| ect | ect | ect | ró. | 19 18 17 |
| Ē | E | ΙĒ | E E | |
| ဒ | ပြ | ပြ | | 20 |

| n | BCM (BODY CONTROL MODULE) | BLACK | 85 56 67 68 69 70 | Signal Name | GND (POWER) | BAT (F/I) |
|---------------|---------------------------|-----------------|-----------------------------|------------------|-------------|-----------|
| . MZO | | | | Color of Wire | В | M |
| Connector No. | Connector Name | Connector Color | H.S. | Terminal No. | 29 | 02 |

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| | _ | |
|-----------------------|------------------|-------------------------------|
| Connector No. | E10 | |
| onnector Na | ıme WIR | Connector Name WIRE TO WIRE |
| Connector Color WHITE | lor WHI | 11 |
| 闻 H.S. | - 4 | 0 0 0 0 |
| Terminal No. | Color of Wire | Signal Name |
| 9 | M | ı |
| | | |

| Connector No. | . M123 | .3 |
|-----------------------|------------------|--|
| Connector Na | ime TIRI CHE | Connector Name TIRE PRESSURE WARNING CHECK CONNECTOR |
| Connector Color WHITE | lor WH | TE |
| 原 H.S. | | 2 |
| Terminal No. | Color of Wire | Signal Name |

LOW_TIRE

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| Connector No. | M120 | 0 |
|-------------------------|------------------|----------------------------------|
| Connector Name | e REC | REMOTE KEYLESS ENTRY RECEIVER |
| Connector Color WHITE | ı WHI | TE |
| H.S. | | 4 |
| Terminal No. | Color of Wire | Signal Name |
| - | BR | GND |
| 2 | G | SIGNAL |
| 4 | ^ | PWR |

Self-Diagnosis (With CONSULT-III)

FUNCTION

Self-Diagnostic Results Mode

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| Diagnostic item | Diagnostic item is detected when ··· | Reference page |
|--|---|----------------|
| LOW - PRESSURE - FL [C1704] LOW - PRESSURE - FR [C1705] LOW - PRESSURE - RR [C1706] LOW - PRESSURE - RL [C1707] | Tire pressures dropped below specified value. Refer to WT-8, "System Description". | _ |
| [NO-DATA] - FL [C1708] [NO-DATA] - FR [C1709] [NO-DATA] - RR [C1710] [NO-DATA] - RL [C1711] | Data from FL transmitter cannot be received. Data from FR transmitter cannot be received. Data from RR transmitter cannot be received. Data from RL transmitter cannot be received. | <u>WT-14</u> |
| [CHECKSUM- ERR] - FL [C1712] [CHECKSUM- ERR] - FR [C1713] [CHECKSUM- ERR] - RR [C1714] [CHECKSUM- ERR] - RL [C1715] | Checksum data from FL transmitter is malfunctioning. Checksum data from FR transmitter is malfunctioning. Checksum data from RR transmitter is malfunctioning. Checksum data from RL transmitter is malfunctioning. | <u>WT-16</u> |
| [PRESSDATA- ERR] - FL [C1716] [PRESSDATA- ERR] - FR [C1717] [PRESSDATA- ERR] - RR [C1718] [PRESSDATA- ERR] - RL [C1719] | Air pressure data from FL transmitter is malfunctioning. Air pressure data from FR transmitter is malfunctioning. Air pressure data from RR transmitter is malfunctioning. Air pressure data from RL transmitter is malfunctioning. | <u>WT-18</u> |
| [CODE- ERR] - FL [C1720] [CODE- ERR] - FR [C1721] [CODE- ERR] - RR [C1722] [CODE- ERR] - RL [C1723] | Function code data from FL transmitter is malfunctioning. Function code data from FR transmitter is malfunctioning. Function code data from RR transmitter is malfunctioning. Function code data from RL transmitter is malfunctioning. | <u>WT-16</u> |
| [BATT - VOLT - LOW] - FL [C1724] [BATT - VOLT - LOW] - FR [C1725] [BATT - VOLT - LOW] - RR [C1726] [BATT - VOLT - LOW] - RL [C1727] | Battery voltage of FL transmitter drops. Battery voltage of FR transmitter drops. Battery voltage of RR transmitter drops. Battery voltage of RL transmitter drops. | <u>WT-16</u> |
| VHCL_SPEED_SIG_ERR [C1729] | Vehicle speed signal is in error. | <u>WT-19</u> |
| IGN_CIRCUIT_OPEN [C1735] | Vehicle ignition signal is in error. | <u>WT-20</u> |

NOTE:

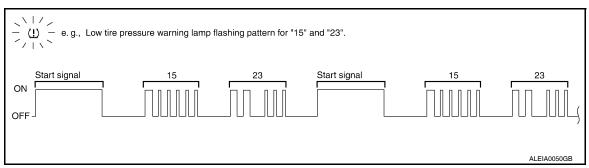
Before performing the self-diagnosis, be sure to register the ID or else the actual malfunction location may be different from that displayed on CONSULT-III.

Self-Diagnosis (Without CONSULT-III)

INFOID:0000000003081086

SELF DIAGNOSTIC PROCEDURE (WITHOUT CONSULT-III)

- 1. Turn ignition switch ON.
- Ground the tire pressure warning check connector to initiate self diagnosis.
- Compare the flashing pattern with the flash code chart below.



NOTE:

The system is normal when the low tire pressure warning lamp flashes 5 times and continues repeating. Self-diagnosis results are erased automatically by turning the ignition switch "OFF".

< ECU DIAGNOSIS >

| Flash Code | Malfunction part | Reference page |
|----------------------|---|----------------|
| 15 16 17 18 | Tire pressure dropped below specified value. Refer to WT-8, "System Description". | _ |
| 21 22 23 24 | Transmitter no data (FL) Transmitter no data (FR) Transmitter no data (RR) Transmitter no data (RL) | <u>WT-14</u> |
| 31 32 33 34 | Transmitter checksum error (FL) Transmitter checksum error (FR) Transmitter checksum error (RR) Transmitter checksum error (RL) | <u>WT-16</u> |
| 35 36 37 38 | Transmitter pressure data error (FL) Transmitter pressure data error (FR) Transmitter pressure data error (RR) Transmitter pressure data error (RL) | <u>WT-18</u> |
| 41 42 43 44 | Transmitter function code error (FL) Transmitter function code error (FR) Transmitter function code error (RR) Transmitter function code error (RL) | <u>WT-16</u> |
| 45 46 47 48 | Transmitter battery voltage low (FL) Transmitter battery voltage low (FR) Transmitter battery voltage low (RR) Transmitter battery voltage low (RL) | <u>WT-16</u> |
| 52 | Vehicle speed signal | <u>WT-19</u> |
| 54 | Vehicle ignition signal | <u>WT-20</u> |

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TPMS

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

TPMS

Symptom Table

| Symptom | Reference |
|--|--------------|
| Low tire pressure warning lamp does not come on when ignition switch is turned on. | <u>WT-35</u> |
| Low tire pressure warning lamp stays on when ignition switch is turned on. | <u>WT-36</u> |
| Low tire pressure warning lamp flashes when ignition switch is turned on. | <u>WT-37</u> |
| Hazard warning lamps flash when ignition switch is turned on. | <u>WT-38</u> |
| ID registration cannot be completed. | <u>WT-39</u> |

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

| < SYMPTOM DIAGNOSIS > | |
|---|--------------|
| LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON | ٨ |
| Low Tire Pressure Warning Lamp Does Not Come On When Ignition Switch Is Turned On | Α |
| | В |
| DIAGNOSTIC PROCEDURE 1.SELF-DIAGNOSTIC RESULT CHECK | |
| Using CONSULT-III, check display contents of BCM in SELF-DIAGNOSIS. | С |
| Is CAN COMM CIRCUIT displayed in the self-diagnosis display items? | |
| YES >> Malfunction in CAN communication system. NO >> GO TO 2 | D |
| 2.CHECK COMBINATION METER | |
| Check combination meter operation. Refer to MWI-24, "CONSULT-III Function (METER/M&A)". | WT |
| Inspection results OK? | |
| YES >> GO TO 3 NO >> Replace combination meter. Refer to MWI-89, "Removal and Installation". | F |
| 3. CHECK LOW TIRE PRESSURE WARNING LAMP | |
| Disconnect BCM harness connector. | G |
| <u>Does the low tire pressure warning lamp activate?</u> YES >> Replace BCM. Refer to <u>BCS-53</u> , "Removal and Installation". | |
| NO >> Check combination meter operation. Refer to MWI-23, "Diagnosis Description". | Н |
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Revision: February 2010 WT-35 2008 Xterra

LOW TIRE PRESSURE WARNING LAMP STAYS ON

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LOW TIRE PRESSURE WARNING LAMP STAYS ON

Low Tire Pressure Warning Lamp Stays On When Ignition Switch Is Turned On

INFOID:0000000003081089

DIAGNOSTIC PROCEDURE

1.BCM CONNECTORS

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connectors.
- 3. Check terminals for damage or loose connections.

Are any of the BCM connectors loose or damaged?

YES >> Repair or replace damaged parts.

NO >> GO TO 2

2.BCM POWER SUPPLY AND GROUND CIRCUITS

Check BCM power supply and ground circuits. Refer to BCS-30, "Diagnosis Procedure".

Are the BCM power supply and ground circuits OK?

YES >> Replace BCM. Refer to BCS-53, "Removal and Installation".

NO >> Repair BCM circuits.

LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP BLINKS

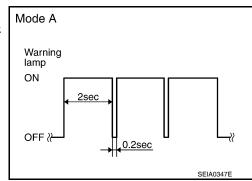
Low Tire Pressure Warning Lamp Flashes When Ignition Switch Is Turned On

INFOID:0000000003081090

NOTE:

If low tire pressure warning lamp flashes as shown, the system is normal. Flash Mode A

This mode shows transmitter status is OFF-mode.
 Carry out transmitter wake up operation. Refer to <u>WT-5</u>, "<u>Transmitter Wake Up Operation</u>".



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DIAGNOSTIC PROCEDURE

1. CHECK BCM CONNECTORS

- Turn ignition switch OFF.
- 2. Disconnect BCM harness connectors.
- 3. Check terminals for damage or loose connections.

Inspection results OK?

YES >> GO TO 2

NO >> Repair or replace damaged parts.

2.CHECK TIRE PRESSURE WARNING CHECK CONNECTOR CIRCUIT

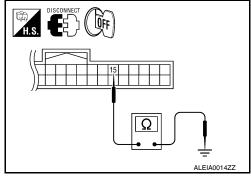
Check continuity between BCM harness connector M18 terminal 15 and ground.

Continuity should not exist.

Does continuity exist?

YES >> Repair circuit for short to ground.

NO >> Replace BCM. Refer to BCS-53, "Removal and Installation".



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HAZARD WARNING LAMPS FLASH

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HAZARD WARNING LAMPS FLASH

Hazard Warning Lamps Flash When Ignition Switch Is Turned On

INFOID:0000000003081091

DIAGNOSTIC PROCEDURE

1. CHECK BCM GROUND CIRCUIT

Check BCM ground circuit. Refer to BCS-30, "Diagnosis Procedure".

Is BCM ground circuit OK?

YES >> Replace BCM. Refer to BCS-53, "Removal and Installation".

NO >> Repair BCM ground circuit.

ID REGISTRATION CANNOT BE COMPLETED

< SYMPTOM DIAGNOSIS >

ID REGISTRATION CANNOT BE COMPLETED ID Registration Cannot Be Completed DIAGNOSTIC PROCEDURE 1. PERFORM ID REGISTRATION OF ALL TRANSMITTERS Carry out ID registration of all transmitters. Refer to WT-6, "ID Registration Procedure". Can ID registration of all transmitters be completed? YES >> Inspection End. NO >> GO TO WT-14, "Diagnosis Procedure".

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

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

General Precautions

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

PREPARATION

< PREPARATION >

PREPARATION

PREPARATION

Special Service Tool

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 | |
|--|-----------|---|---|
| KV991B1000 (J-45295) Transmitter activation tool | WEIA0144E | Transmitter wake up operation ID registration procedure | V |

Commercial Service Tool

INFOID:0000000003288951

INFOID:0000000003288950

| Tool name | | Description |
|------------|-----------|---------------------|
| Power tool | | Removing wheel nuts |
| | PBIC0190E | |

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NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

INFOID:0000000003288952

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

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

| Reference page | | <u>WT-43</u> | <u>WT-44</u> | <u>WT-48</u> | <u>WT-44, FSU-6</u> | I | I | <u>WT-48</u> | DLN-160, "NVH Troubleshooting Chart", DLN-194, "NVH Troubleshooting Chart", DLN-226, "NVH Troubleshooting Chart", DLN-249, "NVH Troubleshooting Chart" | FAX-4, "NVH Troubleshooting Chart", ESU-5, "NVH Troubleshooting Chart" | RAX-18, "NVH Troubleshooting Chart", RAX-6, "NVH Troubleshooting Chart", RSU-4, "NVH Troubleshooting Chart" | Refer to TIRES in this chart. | Refer to ROAD WHEEL in this chart. | BR-5, "NVH Troubleshooting Chart" | ST-5, "NVH Troubleshooting Chart" | |
|------------------------------------|-------------------------------|-------------------------------|--------------|-------------------------|---------------------|-----------------------|----------------|---------------------|--|--|---|-------------------------------|------------------------------------|-----------------------------------|-----------------------------------|---|
| Possible cause and SUSPECTED PARTS | | Out-of-round | Imbalance | Incorrect tire pressure | Uneven tire wear | Deformation or damage | Non-uniformity | Incorrect tire size | FRONT AND REAR FINAL DRIVE | FRONT AXLE AND FRONT SUSPENSION | REAR AXLE AND REAR SUSPENSION | TIRES | ROAD WHEEL | BRAKE | STEERING | |
| | | Noise | × | × | × | × | × | × | | × | × | × | × | | × | × |
| | | Shake | × | × | × | × | × | | × | | × | × | × | | × | × |
| | | Vibration | | | × | | | | × | | × | × | × | | | × |
| Symptom | TIRES | Shimmy | × | × | × | × | × | × | × | | × | × | × | | × | × |
| | | Shudder | × | × | × | × | × | | × | | × | × | × | | × | × |
| | | Poor quality ride or handling | × | × | × | × | × | | × | | × | × | × | | | |
| | | Noise | × | × | | | × | | | × | × | × | | × | × | × |
| ROAD | BOVD | Shake | × | × | | | × | | | | × | × | | × | × | × |
| | WHEEL | Shimmy, shudder | × | × | | | × | | | | × | × | | × | × | × |
| | Poor quality ride or handling | × | × | | | × | | | | × | × | | × | | | |

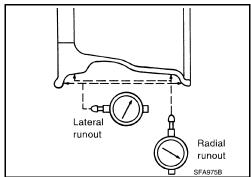
x: Applicable

ON-VEHICLE MAINTENANCE

WHEEL

Inspection INFOID:0000000003288954

- 1. Remove wheel and tire using power tool.
- 2. Check tires for wear and improper inflation.
- 3. Check wheels for deformation, cracks and other damage. If deformed, remove wheel and check wheel runout.
- a. Remove tire from wheel and mount wheel on a tire balance machine.
- b. Set dial indicator as shown in the illustration. Refer to <u>WT-48</u>, <u>"Road Wheel"</u>.
- 4. Check front wheel bearings for looseness.
- 5. Check front suspension for looseness.
- 6. Install wheel and tire. Refer to WT-44, "Adjustment".



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WHEEL AND TIRE ASSEMBLY

< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

WHEEL AND TIRE ASSEMBLY

Adjustment

BALANCING WHEELS (ADHESIVE WEIGHT TYPE)

Preparation Before Adjustment

Remove inner and outer balance weights from the road wheel using releasing agent, remove double-faced adhesive tape from the road wheel.

CAUTION:

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

Wheel Balance Adjustment

- If a balancer machine has an adhesive weight mode setting, select the adhesive weight mode setting and skip Step 2. below. If a balancer machine only has the clip-on (rim flange) weight mode setting, follow Step 2. to calculate the correct size adhesive weight.
- 1. Set road wheel on balancer machine using the center hole as a guide. Start the balancer machine.
- 2. For tire balance machines that only have a clip-on (rim flange) weight mode setting, follow this step to calculate the correct size adhesive weight to use. When inner and outer imbalance values are shown on the balancer machine indicator, multiply outer imbalance value by 5/3 (1.67) to determine balance weight that should be used. Select the outer balance weight with a value closest to the calculated value above and install in to the designated outer position of, or at the designated angle in relation to the road wheel.
- a. Indicated imbalance value \times 5/3 (1.67) = balance weight to be installed.

Calculation example:

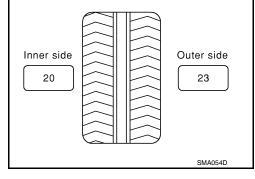
23 g (0.81 oz) \times 5/3 (1.67) = 38.33 g (1.35 oz) \Rightarrow 40 g (1.41 oz) balance weight (closer to calculated balance weight value)

NOTE:

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

Example:

 $37.4 \Rightarrow 35 \text{ g } (1.23 \text{ oz})$ $37.5 \Rightarrow 40 \text{ g } (1.41 \text{ oz})$



WHEEL AND TIRE ASSEMBLY

< ON-VEHICLE REPAIR >

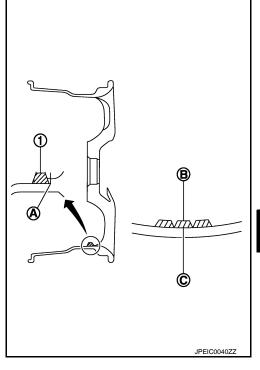
3. Install balance weight in the position shown.

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

CAUTION:

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



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

Do not install one balance weight sheet on top another.

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

Do not install more than two balance weights.

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

| Wheel balance | Dynamic (At flange) | Static (At flange) | | | |
|----------------------------------|---------------------|--------------------|--|--|--|
| Maximum allowable un- balance | Refer to WT-44 | 4, "Adjustment". | | | |

TIRE ROTATION

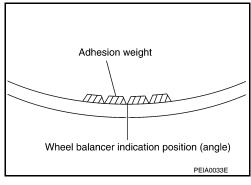
- Follow the maintenance schedule for tire rotation service intervals.
 Refer to MA-6, "General Maintenance".
- When installing the wheel, tighten wheel nuts to the specified torque.

CAUTION:

- When installing wheels, tighten them diagonally by dividing the work two to three times in order to prevent the wheels from developing any distortion.
- Be careful not to tighten wheel nut at torque exceeding the criteria for preventing strain of disc rotor.
- Use NISSAN genuine wheel nuts for aluminum wheels.

Wheel nut tightening torque

: 133 N·m (14 kg-m, 98 ft-lb)



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Wheels

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REMOVAL AND INSTALLATION

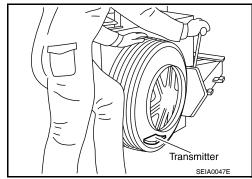
REMOVAL AND INSTALLATION

Transmitter (Pressure Sensor)

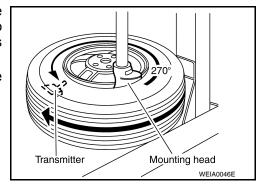
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REMOVAL

- 1. Remove wheel and tire using power tool.
- 2. Deflate tire. Unscrew transmitter retaining nut and allow transmitter to fall into tire.
- Gently bounce tire so that transmitter falls to bottom of tire. Place wheel and tire assembly on tire changing machine and break both tire beads. Ensure that the transmitter remains at the bottom of the tire while breaking the bead.

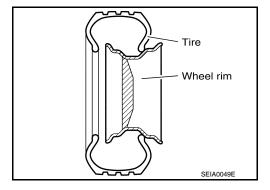


- 4. Turn tire so that valve hole is at bottom, and gently bounce the tire to ensure transmitter is near valve hole. Carefully lift tire onto turntable and position valve hole (and transmitter) 270 degrees from mounting/dismounting head.
- 5. Lubricate tire well, and remove top side of tire. Reach inside the tire and remove the transmitter.
- 6. Remove the second side of the tire as normal.



INSTALLATION

1. Place first side of tire onto rim.



2. Apply suitable silicone lubricant to new transmitter seal then install seal on transmitter. Refer to MA-13. "Fluids and Lubricants".

NOTE:

Always replace the seal after every disassembly.

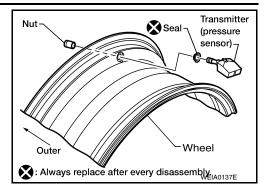
REMOVAL AND INSTALLATION

< REMOVAL AND INSTALLATION >

Mount transmitter on rim and tighten nut to specification.NOTE:

Make sure no burrs exist in the valve stem hole of the wheel.

Transmitter nut : 7.7 N·m (0.79 kg-m, 68 in-lb)



4. Place wheel on turntable of tire machine. Ensure that transmitter is 270 degrees from mounting/dismounting head.

NOTE:

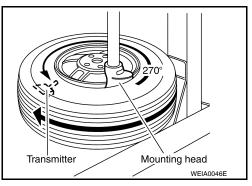
Do not touch transmitter with mounting head.

- 5. Lubricate tire well, and install second side of tire as normal. Ensure that tire does not rotate relative to rim.
- 6. Inflate tire and balance the wheel and tire assembly. Refer to WT-44, "Adjustment".
- Install wheel and tire assembly in appropriate wheel position on vehicle.

NOTE:

If replacing transmitter, transmitter wake up operation must be performed. Refer to <u>WT-5</u>, "<u>Transmitter Wake Up Operation</u>".

Adjust neutral position of steering angle sensor. Refer to <u>BRC-122</u>, "<u>ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION</u>: <u>Special Repair Requirement</u>".



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SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Road Wheel

| Wheel type | | Aluminum | Steel | | | | |
|----------------------|-------------------------|--|---------------------|---------------------|--|--|--|
| | | Aluminum | Inside | Outside | | | |
| Maximum radial | Lateral mm (in) | 0.3 (0.012) or less | 0.8 (0.031) or less | 0.8 (0.031) or less | | | |
| runout limit | Radial mm (in) | 0.3 (0.012) or less | 0.6 (0.024) or less | 0.6 (0.024) or less | | | |
| Maximum residual im- | Dynamic (at rim flange) | flange) Less than 5 g (0.18 oz) (per side) | | | | | |
| balance | Static (at rim flange) | Less than 10 g (0.35 oz) | | | | | |

Tire INFOID:0000000000006084567

Unit: kPa (kg/cm², psi)

| Tire size | Air pressure | | | | |
|------------|-------------------|---------------|--|--|--|
| THE SIZE | Conventional tire | Spare tire | | | |
| P265/70R16 | 240 (2.4, 35) | 240 (2.4, 35) | | | |
| P265/75R16 | 240 (2.4, 35) | 240 (2.4, 35) | | | |
| P265/65R17 | 240 (2.4, 35) | 240 (2.4, 35) | | | |