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CONTENTS

| PRECAUTION3 | BCM11 F |
|--|--|
| PRECAUTIONS 3 | List of ECU Reference11 |
| Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TEN- | WIRING DIAGRAM12 G |
| SIONER"3 Service Notice and Precautions3 | TIRE PRESSURE MONITORING SYSTEM12 Wiring Diagram12 |
| PREPARATION4 | BASIC INSPECTION17 |
| PREPARATION | DIAGNOSIS AND REPAIR WORK FLOW17 Work Flow17 |
| Commercial Service Tool4 | ADDITIONAL SERVICE WHEN REPLACING |
| SYSTEM DESCRIPTION5 | BCM 19 J |
| | Description19 |
| COMPONENT PARTS5 | Work Procedure19 |
| Component Parts Location5 | TIRE PRESSURE SENSOR WAKE UP OP- |
| Component Description5 | ERATION20 |
| BCM5 | Description20 |
| Tire pressure sensor6 Tire pressure receiver6 | Work Procedure20 |
| Information Display6 | |
| iniomation display | ID REGISTRATION21 |
| SYSTEM 7 | Description21 |
| | Work Procedure21 |
| TIRE PRESSURE MONITORING SYSTEM7 | DTC/CIDCUIT DIA CNOCIC |
| TIRE PRESSURE MONITORING SYSTEM: Sys- | DTC/CIRCUIT DIAGNOSIS23 |
| tem Description7 | C1704, C1705, C1706, C1707 LOW TIRE |
| DIAGNOSIS SYSTEM (BCM)8 | PRESSURE23 |
| , , | Description |
| COMMON ITEM8 | DTC Logic23 |
| COMMON ITEM : CONSULT Function (BCM - | Diagnosis Procedure23 |
| COMMON ITEM)8 | Special Repair Requirement 24 |
| AIR PRESSURE MONITOR9 | P |
| AIR PRESSURE MONITOR : CONSULT Function | C1708, C1709, C1710, C1711 TIRE PRES- |
| (BCM - AIR PRESSURE MONITOR)9 | SURE SENSOR25 |
| · | DTC Logic25 |
| ECU DIAGNOSIS INFORMATION11 | Diagnosis Procedure25 |
| | Special Repair Requirement27 |

| C1716, C1717, C1718, C1719 TIRE PRES- | | LOW TIRE PRESSURE WARNING LAMP | |
|---------------------------------------|------|------------------------------------|------|
| SURE SENSOR | | BLINKS | |
| DTC Logic | | Description | |
| Diagnosis Procedure | | Diagnosis Procedure | 43 |
| Special Repair Requirement | 29 | ID REGISTRATION CANNOT BE COMPLET- | |
| C1729 VEHICLE SPEED SIGNAL | 30 | ED | . 44 |
| Description | | Description | |
| DTC Logic | 30 | Diagnosis Procedure | |
| Diagnosis Procedure | | | |
| Special Repair Requirement | 30 | NOISE, VIBRATION AND HARSHNESS | |
| C1734 BCM | 22 | (NVH) TROUBLESHOOTING | |
| DTC Logic | | NVH Troubleshooting Chart | 45 |
| Diagnosis Procedure | | PERIODIC MAINTENANCE | . 46 |
| Special Repair Requirement | | | |
| | | ROAD WHEEL | _ |
| TIRE PRESSURE RECEIVER | | Adjustment | 46 |
| Component Function Check | | REMOVAL AND INSTALLATION | 40 |
| Diagnosis Procedure | 34 | REMOVAL AND INSTALLATION | . 48 |
| LOW TIRE PRESSURE WARNING LAMP | 36 | ROAD WHEEL TIRE ASSEMBLY | . 48 |
| Component Function Check | | Exploded View | 48 |
| Diagnosis Procedure | | Removal and Installation | |
| | | Inspection | 48 |
| POWER SUPPLY AND GROUND CIRCUIT | | TIRE PRESSURE SENSOR | 50 |
| Diagnosis Procedure | 37 | Exploded View | |
| SYMPTOM DIAGNOSIS | . 38 | Removal and Installation | |
| | | | |
| TPMS | | TIRE PRESSURE RECEIVER | |
| Symptom Table | 38 | Removal and Installation | 52 |
| LOW TIRE PRESSURE WARNING LAMP | | SERVICE DATA AND SPECIFICATIONS | |
| DOES NOT TURN ON | 41 | (SDS) | 53 |
| Description | | (000) | . 33 |
| Diagnosis Procedure | | SERVICE DATA AND SPECIFICATIONS | |
| • | | (SDS) | . 53 |
| LOW TIRE PRESSURE WARNING LAMP | | Road Wheel | |
| DOES NOT TURN OFF | | Tire Air Pressure | 53 |
| Description | | | |
| Diagnosis Procedure | 42 | | |

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Service Notice and Precautions

- Low tire pressure warning lamp blinks for 1min, then turns ON when occurring any malfunction except low
 tire pressure. Delete the memory with CONSULT, or register the ID to turn low tire pressure warning lamp
 OFF. Refer to <a href="https://www.wt.enu.org/wt.enu.
- ID registration is required when replacing or rotating wheels, replacing tire pressure sensor or BCM. Refer to BCS-96, "Exploded View".
- Replace grommet seal, valve core and cap of tire pressure sensor in TPMS every tire replacement by reaching wear limit of tire. Refer to <u>WT-50</u>, "<u>Exploded View</u>".

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PREPARATION

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Special Service Tool

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

| Tool number (Kent-Moore No.) Tool name | Description |
|--|-----------------|
| - (J-45295) Tire pressure sensor activation tool | ID registration |

Commercial Service Tool

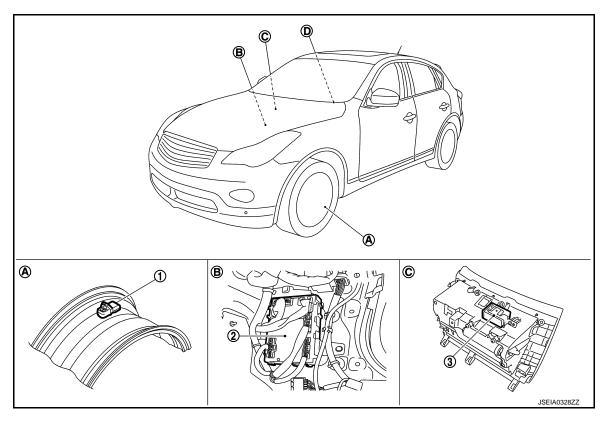
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| Tool name | Description |
|------------|----------------------|
| Power tool | Loosening wheel nuts |
| PBIC0190E | |

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



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

Component Description

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| Component parts | Function |
|--------------------------------|--|
| BCM (Body Control Module) | WT-5, "BCM". |
| Tire pressure sensor | WT-6, "Tire pressure sensor". |
| Tire pressure receiver | WT-6, "Tire pressure receiver". |
| Turn signal lamp | ID registration of each wheel has been completed, turn signal lamp flashes. |
| | Transmits the vehicle speed signal via CAN communication to BCM. |
| Unified meter and A/C amp. | Receives the following signals via CAN communication for BCM. • Low tire pressure warning lamp signal • TPMS malfunction warning lamp signal |
| Low tire pressure warning lamp | WT-7, "TIRE PRESSURE MONITORING SYSTEM : System Description" |
| Information display | WT-6. "Information Display" |

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

Revision: 2013 March WT-5 2014 QX50

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Tire pressure sensor

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

Tire pressure receiver

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

Information Display

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

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

SYSTEM

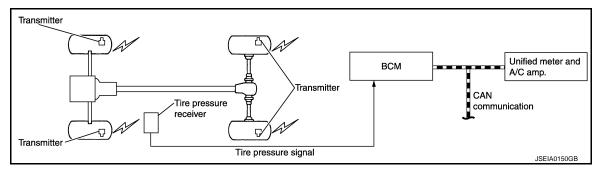
TIRE PRESSURE MONITORING SYSTEM

TIRE PRESSURE MONITORING SYSTEM: System Description

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

SYSTEM DIAGRAM



INPUT/OUTPUT SIGNAL

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

| Component parts | Signal item |
|----------------------------|--|
| BCM | Transmits the following signals via CAN communication to unified meter and A/C amp. • TPMS malfunction warning lamp signal • Low tire pressure warning lamp signal |
| Unified meter and A/C amp. | Transmits the vehicle speed signal via CAN communication to BCM. |

LOW TIRE PRESSURE WARNING LAMP INDICATION CONDITION

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

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

Revision: 2013 March WT-7 2014 QX50

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

| Diagnosis mode | Function Description | |
|--------------------------|---|--|
| Work Support | Changes the setting for each system function. | |
| Self Diagnostic Result | Displays the diagnosis results judged by BCM. | |
| CAN Diag Support Monitor | Monitors the reception status of CAN communication viewed from BCM. | |
| Data Monitor | The BCM input/output signals are displayed. | |
| Active Test | The signals used to activate each device are forcibly supplied from BCM. | |
| Ecu Identification | The BCM part number is displayed. | |
| Configuration | 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.

x: Applicable item

| System | Cub avatam adjection item | | Diagnosis mode | | |
|--|---------------------------|--------------|----------------|-------------|--|
| System | Sub system selection item | Work Support | Data Monitor | Active Test | |
| Door lock | DOOR LOCK | × | × | × | |
| Rear window defogger | REAR DEFOGGER | | × | × | |
| Warning chime | BUZZER | | × | × | |
| Interior room lamp timer | INT LAMP | × | × | × | |
| Exterior lamp | HEAD LAMP | × | × | × | |
| Wiper and washer | WIPER | × | × | × | |
| Turn signal and hazard warning lamps | FLASHER | × | × | × | |
| _ | AIR CONDITONER* | | | | |
| 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 | × | × | × | |
| Back door open system | TRUNK | | × | × | |
| Vehicle security system | THEFT ALM | × | × | × | |
| RAP system | RETAINED PWR | | × | | |
| Signal buffer system | SIGNAL BUFFER | | × | × | |
| TPMS | AIR PRESSURE MONITOR | × | × | × | |

NOTE

FREEZE FRAME DATA (FFD)

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

^{*:} This item is displayed, but is not used.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

| CONSULT screen item | Indication/Unit | Description | | |
|---------------------|-----------------|--|---|--|
| Vehicle Speed | km/h | Vehicle speed of the moment a particular DTC is detected | | |
| Odo/Trip Meter | km | Total mileage (Odometer value) of the moment a particular DTC is detected | | |
| | SLEEP>LOCK | | While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*) | |
| | SLEEP>OFF | | While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".) | |
| | LOCK>ACC | | While turning power supply position from "LOCK"* to "ACC" | |
| | ACC>ON | | While turning power supply position from "ACC" to "IGN" | |
| | RUN>ACC | | While turning power supply position from "RUN" to "ACC" (Except emergency stop operation) | |
| | 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 | Power supply position status of the moment a | While turning power supply position from "OFF" to "LOCK"* | |
| Vehicle Condition | OFF>ACC | particular DTC is de- | While turning power supply position from "OFF" to "ACC" | |
| | ON>CRANK | tected* | While turning power supply position from "IGN" to "CRANKING" | |
| | OFF>SLEEP | | While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode | |
| | LOCK>SLEEP | | While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode | |
| | LOCK | | Power supply position is "LOCK"* | |
| | OFF | | Power supply position is "OFF" (Ignition switch OFF) | |
| | ACC | | Power supply position is "ACC" (Ignition switch ACC) | |
| | ON | | Power supply position is "IGN" (Ignition switch ON with engine stopped) | |
| | ENGINE RUN | | Power supply position is "RUN" (Ignition switch ON with engine running) | |
| | CRANKING | | Power supply position is "CRANKING" (At engine cranking) | |
| IGN Counter | 0 - 39 | The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 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. | | |

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met.

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- · Closing door
- Opening door
- · Door is locked using door request switch
- · Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

AIR PRESSURE MONITOR

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

WORK SUPPORT MODE

ID Read

Revision: 2013 March WT-9 2014 QX50

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

The registered ID number is displayed.

ID Regist

Refer to WT-21, "Work Procedure".

SELF-DIAG RESULTS MODE

Operation Procedure

Refer to BCS-90, "DTC Index".

DATA MONITOR MODE

Screen of data monitor mode is displayed.

NOTE:

- When malfunction is detected, CONSULT perform REAL-TIME DIAGNOSIS.
- Also, any malfunction detected while in this mode will be displayed at real time.
- The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Display item list

| Monitor | Condition | Specification |
|--|--|---|
| AIR PRESS FL AIR PRESS FR AIR PRESS RR AIR PRESS RL | Drive vehicle for a few minutes. or Ignition switch ON and tire pressure sensor tire pressure sensor activation tool is transmitting activation signals. | Tire pressure (kPa, kg/cm ² or Psi) |
| ID REGST FL1 ID REGST FR1 ID REGST RR1 ID REGST RL1 | | Registration ID: Green No registration: Red |
| WARNING LAMP | Ignition switch ON | Low tire pressure warning lamp ON: on Low tire pressure warning lamp OFF: off |
| BUZZER | | Buzzer in combination meter ON: on Buzzer in combination meter OFF: off |

NOTE:

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

ACTIVE TEST MODE

NOTE:

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

TEST ITEM LIST

| Test item | Content |
|-------------------|--|
| WARNING LAMP | This test is able to check to check that the low tire pressure warning lamp turns on. |
| ID REGIST WARNING | This test is able to check to check that the buzzer sounds or the low tire pressure warning lamp turns on. |
| FLASHER | This test is able to check to check that each turn signal lamp turns on. |
| HORN | This test is able to check to check that the horn sounds. |

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

| ECU | Reference |
|-------|---|
| | BCS-50, "Reference Value" |
| BCM | BCS-88, "Fail-safe" |
| DCIVI | BCS-89, "DTC Inspection Priority Chart" |
| | BCS-90, "DTC Index" |

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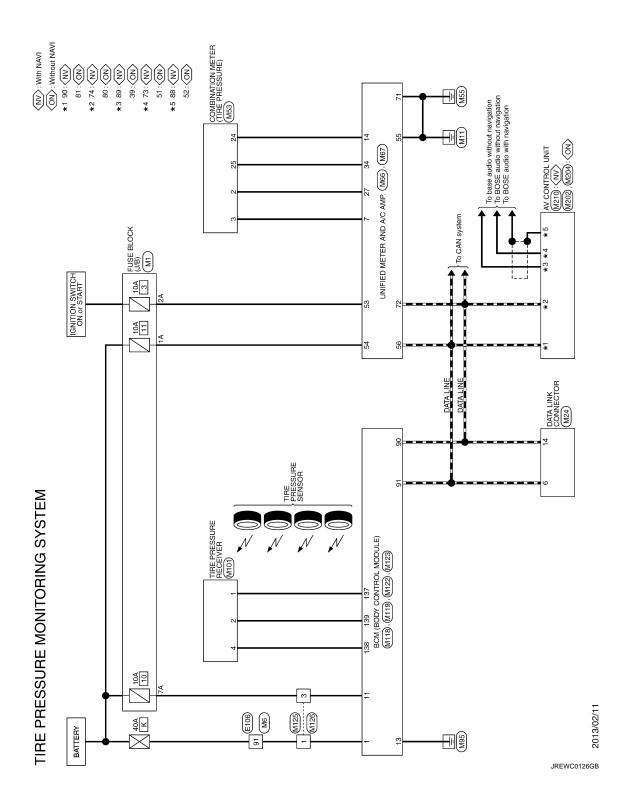
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WIRING DIAGRAM

TIRE PRESSURE MONITORING SYSTEM

Wiring Diagram



TIRE PRESSURE MONITORING SYSTEM

| Connector No. | | l | | | _ | | | | | |
|----------------|---|-----|--------|-----------------|-------------------|----------------------|---|--------------|----------|---|
| | Connector No. E106 42 | 45 | G | | \dashv | BG | , | 4 | SHIELD | , |
| | WIRE TO WIRE | 43 | £ | | 98 | ۵ (| | 2 | υ ; | 1 |
| ┪ | THE OTHER PROPERTY. | £ ; | ≥ . | | T | r i | | 00 | > 6 | |
| Connector Type | TH80FW-CS16-1M4 | 48 | _ | • | 86 | SHIELD | | s | + | |
| | | 20 | ۵ | | 66 | 7 | | 9 | \dashv | |
| • | 4 | 21 | _ | - | 100 | Ь | - | Ξ | BR | - |
| • | | 54 | BG | | | | | 12 | Н | |
| | 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 25 | BR | | | | | 13 | L | |
| Ę | 2 7 8 8 8 8 8 8 | 29 | × | | Connector No. | lo. M1 | | 14 | œ | |
| Ż | 5 F | 09 | 2 | | | Γ | | 15 | ┞ | |
| | 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 61 | 9 | | Connector Name | ame FUSE BLOCK (J/B) | (B) | 16 | ╀ | |
| | | 62 | SB | | Connector Type | voe NS06FW-M2 | | 1 | ╀ | |
| Jorna Color Of | | 63 | × | | | 1 | | ę | > | |
| No Wire | Signal Name [Specification] | 3 2 | : 0 | | _ | | | 2 8 | + | |
| φ | | 85 | ď | | _ | L | | 24 | ╀ | |
| - 6 | | 3 8 | 0 | | | 3A | 3A 7 2A 1A | 2 5 | + | 1 |
| 4 0 | | 3 8 | 4 | | • | | | 3 8 | ; (| |
| 1 | | T | SPIELL | | ~ | | 8A 7A 6A 5A 4A | 3 | + | |
| 4 GR | | 99 | | | | | | 54 | ¥ | |
| | | 69 | P | | | | | 52 | - | |
| | - | 70 | Μ | - | | | | 26 | | - |
| | | 7.1 | œ | | Terminal Color Of | | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | 27 | 9 | |
| 10 BG | | 72 | ≻ | | 9 | Wire | ogran varne [opecinication] | 78 | 9 | |
| H | | 73 | а | , | 1A | GR | | 31 | _ | 4 |
| 12 BG | | 74 | BR. | - [With ICC] | ╀ | 5 | | 32 | U | , |
| ╀ | | 7.4 | ŀ | - [Without ICC] | 3.4 | | | 33 | ŀ | |
| 1 | | 1 1 | ار | [With ICC] | 5 | , , | | 3 5 | + | |
| 2 G | | 0 1 | 9 | - [value of | 4 | L | | 5 2 | + | |
| 4 | | 6/ | Λ | - [without Icc] | ¥6 | > : | - | 8 | 1 | |
| 4 | | 9/ | > | - [with ICC] | eA | Α. | | 99 | SHELD | |
| | | 9/ | > | - [Without ICC] | 7A | R | - | 37 | - | |
| | | 77 | ۵ | - [Without ICC] | 8A | | | 88 | | • |
| 20 BG | | 77 | œ | - [With ICC] | | | | 38 | BR | |
| L | | 78 | BR | - [Without ICC] | | | | 41 | H | |
| ļ | | 02 | - | - DW#h ICCI | Connector No | MAG | | 5 | ╀ | |
| 4 | | 2 8 | 1 | [Online] | 500 | T | | 1 | 3 8 | |
| 52 | | e, | ا ا | - [without Icc] | Connector Name | ame WIRE TO WIRE | | 43 | + | |
| | | 6/ | - | - [With ICC] | | | | 4 | Α | |
| | | 80 | SS | • | Connector Type | ype TH80MW-CS16-TM4 | TM4 | 48 | _ | |
| L | | 81 | œ | | | | | 20 | H | • |
| L | | æ | 97 | | _ | L | | 4 | F | , |
| + | | 8 | 3 | | , | E | 3 1 2 2 2 3 3 4 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 3 4 | $^{+}$ | |
| 4 | | 3 3 | | | _ | ~ | | 5 | + | |
| 4 | | \$ | 9 | _ | | 3 8 | 8 u s |) q | _ | |
| 32 W | | 82 | ۔ | • | Š | | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 29 | > | |
| L | | 98 | d. | | | * | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 9 | 7 | |
| L | | 87 | > | | | <u>'</u> | | 61 | H | • |
| ļ | | o | a | | | | | 8 | g | |
| Ī | | T | 100 | | - | L | | 8 | + | |
| _ | | ┪ | MELL | | <u>a</u> | | Signal Name [Specification] | õ | 9 | |
| _ | | 91 | > | - | No. | 0 | , | \$ | | |
| | | 92 | > | 1 | - | M | 1 | 65 | Α | |
| 39 BG | | 93 | > | | 2 | ~ | | 99 | ď | |
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Revision: 2013 March WT-13 2014 QX50

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| | AH HR | TIRE PRESSURE MONITORING SYSTEM | YSTEN | TEM Connector No. | M24 | 21 | BG IGNITION SIGNAL | Connector No | | M67 |
|-------|----------|---|----------|----------------------|---|----------------|--|----------------|----------|--|
| 69 | 8 c | 21 | Connec | Connector Name | DATA LINK CONNECTOR | 22 | B GROUND BB COMMINICATION SICNAL (LCB AMB) | Connector Name | r Name | UNIFIED METER AND A/C AMP. |
| 1 | $^{+}$ | | Conne | Connector Type | BD16FW | + | + | Connector Tyne | | TH32FW-NH |
| 127 | ╁ | , | 2 | odf. oo | _ | 56 | R VEHICLE SPEED SIGNAL (8-PULSE) | | | |
| 75 | SB | n | | 1 | | 27 | V PARKING BRAKE SWITCH SIGNAL | _ | 7 | |
| 7,4 | Н | w] - | | 1 | | Н | Н | _ | • | |
| 74 | | - [Without ICC] | • | Į | 11 14 16 | 29 | SB SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE) | | Ī | |
| 75 | 9 | | | V I | | 30 | G SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE | | V | 42 43 44 45 48 47 53 54 55 |
| 76 | | - [Wit | | į | 3 4 5 6 7 8 | 31 | L WASHER LEVEL SWITCH SIGNAL | 1 | 1 | 57 58 59 60 61 62 63 65 69 70 71 72 |
| 9/ | H | .W] - | | | | 33 | B ILLUMINATION CONTROL SIGNAL | | • | |
| 7.7 | | - [Without ICC] | | | | 36 | -G SELECT SWITCH SIGNAL | | | |
| 77 | Н | W] - | Terminal | ial Color Of | F Simol Name [Seconfficial | 37 | SB ENTER SWITCH SIGNAL | Terminal | Color Of | Signal Momo [Specification] |
| 3/ | | W] - | ġ | Wire | orginal refine [opecification] | 38 | L TRIP AB RESET SWITCH SIGNAL | Ö | Wire | organia realine [Specification] |
| 3/ | L | - [wit | က | 97 | • | 38 | P ILLUMINATION CONTROL SWITCH SIGNAL (-) | 41 | ^ | ACC POWER SUPPLY |
| 75 | M E | - [with | 4 | В | | 40 | BG ILLUMINATION CONTROL SWITCH SIGNAL (+) | 42 | У | FUEL LEVEL SENSOR SIGNAL |
| 75 | L | - [With ICC] | വ | В | | | | 43 | ď | INTAKE SENSOR SIGNAL |
| 38 | L | - | 9 | 1 | | | | 44 | 97 | IN-VEHICLE SENSOR SIGNAL |
| 8 | SB | | - | > | | Connector No. |). M66 | 45 | ۵ | AMBIENT SENSOR SIGNAL |
| 88 | H | - | ∞ | O | | | Γ | 46 | BG | SUNLOAD SENSOR SIGNAL |
| 8 | H | | 7 | SB | | Connector Name | Ime UNIFIED METER AND A/C AMP. | 47 | ŋ | EXHAUST GAS / CUTSIDE ODOR DETECTING SENSOR SIGNAL |
| 8 | 5 | | 4 | ۵ | | Connector Type | De TH40FW-NH | 23 | O | IGNITION POWER SUPPLY |
| ğ | + | | 4 | > | | | | 2 | > | BATTERY DOWER SLIDELY |
| ó | 16 | | 2 | - | | - | • | 5 5 | - | DALIENI FOWEN SUFFEI |
| ర | + | | | | | | | 22 | Ω. | GROUND |
| 8 | 4 | - | | | | | | 29 | - | CAN-H |
| 88 | | | Conne | Connector No. | M53 | | | 25 | Μ | BRAKE FLUID LEVEL SWITCH SIGNAL |
| 36 | SHIELD | - OTE | Journal | Connoctor Mono | COMPINATION METER | S II V | 5 7 8 9 10 11 14 20 | 28 | BR | FUEL LEVEL SENSOR GROUND |
| 91 | | - · · · · · · · · · · · · · · · · · · · | 5 | | | | | 69 | GR | INTAKE SENSOR GROUND |
| 8 | L | | Conne | Connector Type | TH40FW-NH | | | 09 | - | IN-VEHICLE SENSOR GROUND |
| 6 | | D.C. | | | | | | 19 | BR | AMBIENT SENSOR GROUND |
| g | <u> </u> | | | 7 | | Terminal Col | Color Of | 62 | SB | SUNLOAD SENSOR GROUND |
| 96 | H | ar ar | | • | | | Wire Signal Name [Specification] | 63 | œ | |
| 8 | 3 | | | Į | [| t | MANITAL MODE SHIFT UP SIGNAL | 9 | G. | ECV SIGNAL |
| 6 | + | | 1 | Į | 123 567 10 156 | $^{+}$ | COMMINICATION SIGNAL VAND METER | 3 9 | 3 | A/C I AN SIGNAI |
| 5 8 | CHIELD | | • | 7 | 21 22 M S 18 27 28 28 31 32 32 38 39 40 | - 00 | + | | 1 0 | EACH DOOR MOTOR POWER SLIPPLY |
| 5 8 | Т | | | ı | | + | OD STATES OF THE | 2 7 | ء د | COURTS CALLED |
| 8 2 | + | | | | | + | $^{+}$ | - 62 | ۵ ۵ | GROOMS |
| | 1 | | Torminal | Color | L | 1 | Ž | | 1 | |
| | | | Ź | | Signal Name [Specification] | + | COM | | | |
| | | | - | S. | BATTERY POWER SUPPLY | ╀ | ╁ | _ | | |
| | | | ٠ | - | COMMINICATION SIGNAL (METER-AMP) | 23 | Y AT SNOW SWITCH SIGNAL | | | |
| | | | · · | 9 | COMMINICATION SIGNAL (AMP. METER) | 25 | V MANIAI MODE SHIFT DOWN SIGNAL | | | |
| | | | ه ا | <u>΄</u> α | CONTRACTOR | + | COMMINICATION SIGNAL METER-AMP. | T- | | |
| | | | 9 4 | 0 | ALTERNATOR SICHAL | + | + | <u> </u> | | |
| | | | ٠ ا | - 2 | ALI ENIALON SIGNAL | 0 00 | + | | | |
| | | | - ! | Yo . | AIN DAG SIGIRAL | 200 | V FARRING BRANE SWILLOW SIGNAL | | | |
| | | | 2 ; | + | SECURITY SIGNAL | 34 | + | _ | | |
| | | | £ : | + | GROUND | 38 | P BLOWER MOTOR CONTROL SIGNAL | | | |
| | | | 9 ! | œ (| METER CONTROL SWITCH GROUND | | | | | |
| | | | 9 | a (| ILL GND | | | | | |
| | | | 20 | œ | ILL | | | | | |

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TIRE PRESSURE MONITORING SYSTEM

| IGNATE ANT AMP. 140 GR SECURITY IND LAMP CONT 141 G SECURITY IND LAMP CONT 141 G SECURITY IND LAMP CONT 141 G SECURITY IND LAMP CONT 142 B6 COMBI SW OUTPUT 5 144 G COMBI SW OUTPUT 1 145 G COMBI SW OUTPUT 2 144 G COMBI SW OUTPUT 2 145 C COMBI SW OUTPUT 3 145 G COMBI SW OUTPUT 3 145 C COMBI SW OUTPUT 4 146 SB COMBI SW OUTPUT 5 146 COMBI SW OUTPUT 6 COMBI SW OUTPUT 7 146 COMBI SW OUTPUT 7 14 | Corrector Name Corrector Type Terminal Color Of No. Wire 1 W. Wire 2 Y 2 Y 3 R | | |
|---|---|--|--|
| MX19 BCM (BODY CONTROL MODULE) BS Y BS | N N N N N N N N N N | HADZE HADZ | |
| TIRE PRESSURE MONITORING SYSTEM Corrector No. M101 Corrector Type TKO4FW Corrector Type TKO4FW M.S. H.S. H.S. H.S. H.S. H.S. H.S. | Terminal Color Of Signal Name Specification No. No. | Corrector | |

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Revision: 2013 March WT-15 2014 QX50

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| TIRE | E PRE | TIRE PRESSURE MONITORING SYSTEM | STEM | | | | | |
|---------|-------------------|---|---------------|-------------------|------------------------------------|-------|----------------|---|
| Connec | Connector No. | M202 | Terminal | Terminal Color Of | Signal Name [Specification] | 7 06 | CAN-H | П |
| Connec | Connector Name | AV CONTROL UNIT | oj 🧏 | Wire | AV COMM (1) | 94 SB | AV COMM (H) | Т |
| Janua | Connector Type | HN-WAECHT | 2 12 | 2 8 | AV COMM (E) | ┨ | (ii) minion av | 7 |
| 8 | 24 | | 78 | 9 5 | AV COMM (1) | | | |
| _ | 7 | | 62 | 88 | AV COMM (H) | | | |
| | • | / / \ | 80 | ۵ | CAN-L | | | |
| _ | Į | 21 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25 | 84 | _ | CAN-H | | | |
| | Ć | 30 37 38 38 40 41 42 43 44 45 46 47 | 82 | В | SW GND | | | |
| | į | 48 49 50 51 52 57 58 | 98 | SHELD | SHIELD | | | |
| | | | 87 | _ | TEL VOICE SIGNAL (+) | | | |
| | | | 88 | ۵ | TEL VOICE SIGNAL (-) | | | |
| Terming | Ferminal Color Of | f Signal Nome (Secontification) | 95 | Я | VEHICLE SPEED SIGNAL (8-PULSE) | | | |
| No | Wire | orginal realine [opecification] | 93 | ۸ | PARKING BRAKE SIGNAL | | | |
| 98 | 8g | SIGNAL VCC | 8 | BG | REVERSE SIGNAL | | | |
| 37 | 97 | SIGNAL GND | 92 | 9 | IGNITION SIGNAL | | | |
| 38 | œ | £ | 96 | > | DISK EJECT SIGNAL | | | |
| 39 | BR | COMM (DISP-CONT) | | | | | | |
| 40 | В | RGB AF | | | | | | |
| 41 | SHIELD | | Connector No. | | M210 | | | |
| 45 | W | RGB SYNC | Connoct | Connector Name | AV CONTROL LINIT | | | |
| 43 | 9 | RGB (R:RED) SIGNAL | DO I INC | | AV CONTROL ONL | | | |
| 44 | ٦ | RGB (G:GREEN) SIGNAL | Connecto | Connector Type | TH32FW-NH | | | |
| 42 | Ь | RGB (B:BLUE) SIGNAL | | | | | | |
| 46 | ۸ | COMPOSITE IMAGE SIGNAL GND | | 1 | | | | |
| 47 | SB | COMPOSITE IMAGE SIGNAL | | • | | | | |
| 48 | Υ | INVERTER VCC | 7 | į | 7 | | | |
| 49 | BR | INVERTER GND | 5 | V I | 65 67 68 71 72 73 74 75 76 | | | |
| 20 | 9 | Ν | 1 | 3 | 79 80 81 82 83 8 87 88 89 90 91 92 | | | |
| 21 | Υ | COMM (CONT-DISP) | | | | | | |
| 25 | SHIELD | | | | | | | |
| 24 | SHIELD | | Terminal | erminal Color Of | Sional Name [Snecification] | | | |
| 28 | SHIELD | SHIELD | é | Wire | ogner remo [opcomparent] | | | |
| | | | 92 | > | PARKING BRAKE SIGNAL | | | |
| | | | 49 | r U | COMPOSITE IMAGE SIGNAL GND | | | |
| Connec | Connector No. | M204 | 88 | œ į | COMPOSITE IMAGE SIGNAL | | | |
| Connec | Connector Name | AV CONTROL UNIT | | O III | MICROFILONE SHIELD | | | |
| Connec | or Type | Consocior Line TH20EM.NH | 7.3 | ۵ ک | COMM (CONT. DISE) | | | |
| | 360 | 1021 021 | 2 7 | ء د | (ISIG-INIOS) | | | |
| - | • | | 77 | 1 | CANFL | | | |
| - | • | | 6) | 2 . | Av COMINI (L) | | | |
| | • | | 76 | LG | AV COMM (L) | | | |
| _ | Į | <u> </u> - | 79 | ж | ILLUMINATION | | | |
| | <u>ن</u> | 76 77 78 79 80 81 82 86 87 88 | 80 | 9 | IGNITION SIGNAL | | | |
| | į | 92 93 94 95 98 | 81 | BG | REVERSE SIGNAL | | | |
| | | | 82 | Я | VEHICLE SPEED SIGNAL (8-PULSE) | | | |
| | | | 83 | SHIELD | SHIELD | | | |
| | | | 87 | 9 | MICRO | | | |
| | | | 88 | SHIELD | | | | |
| | | | 88 | O | COMM (DISP-CONT) | | | |

JREWC0138GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow INFOID:0000000009062473

DETAILED FLOW

${f 1}$.collect the information from the customer

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

CAUTION:

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

>> GO TO 2.

2.BASIC INSPECTION

Turn the ignition switch ON.

CAUTION:

Never start the engine.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Inspect or repair the tires or wheels.

3.CHECK LOW TIRE PRESSURE WARNING LAMP

Check low tire pressure warning lamp display.

Does not low tire pressure warning lamp turn OFF?

YES >> GO TO 4.

NO >> INSPECTION END

4.CRUISE TEST

Start the engine and drive the vehicle.

>> GO TO 5.

PERFORM SELF-DIAGNOSIS

(P)With CONSULT

Perform "SELF-DIAG RESULTS".

Is any DTC detected?

YES >> Record or print DTC and freeze frame data (FFD). GO TO 7.

NO >> GO TO 6.

O.CHECK SYMPTOM

Perform trouble diagnosis for the applicable symptom. Refer to WT-38, "Symptom Table".

Is the cause of the malfunction detected?

YES >> GO TO 8.

NO >> GO TO 10.

.CIRCUIT DIAGNOSIS

Inspect the malfunctioning system indicated by the DTC code that is detected during self-diagnosis. Refer to BCS-90, "DTC Index".

>> GO TO 8.

WT-17 Revision: 2013 March 2014 QX50

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

8. REPAIR WORK

Repair or replace the malfunctioning part.

>> GO TO 9.

9. PERFORM SELF-DIAGNOSIS

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

Is any DTC detected?

YES >> GO TO 7. NO >> GO TO 10.

10. FINAL CHECK

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

Dose the tire pressure warning lamp turn OFF?

YES >> INSPECTION END

NO >> GO TO 2.

ADDITIONAL SERVICE WHEN REPLACING BCM

ADDITIONAL SERVICE WHEN REPLACING BCM Description When replacing BCM, tire pressure sensor ID registration is required. Work Procedure 1.PERFORM TIRE PRESSURE SENSOR ID REGISTRATION A NFOID:000000009062474 C

Perform tire pressure sensor ID registration.

>> Refer to WT-21, "Work Procedure".

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TIRE PRESSURE SENSOR WAKE UP OPERATION

< BASIC INSPECTION >

TIRE PRESSURE SENSOR WAKE UP OPERATION

This procedure must be done after replacement of a tire pressure sensor, BCM, or rotation of wheels.

Work Procedure

1. TIRE PRESSURE SENSOR WAKE-UP PROCEDURE

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

NOTE:

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

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

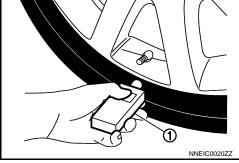
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- 2. Contact the tire pressure sensor activation tool (J-45295) (1) to the side of the tire at the location to the tire pressure sensor.
- Press and hold the tire pressure sensor activation tool button while pushing the tool to the tire surface. (approximately for 5 seconds)

CAUTION:

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

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



Is the tire pressure sensor wake-up procedure completed?

YES >> Perform the tire pressure sensor ID registration procedure. Refer to WT-21, "Work Procedure".

NO >> Perform trouble diagnosis for the tire pressure sensor. Refer to WT-25, "Diagnosis Procedure".

ID REGISTRATION

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

Work Procedure

1. TIRE PRESSURE SENSOR ID REGISTRATION PROCEDURE

CAUTION:

To perform ID registration, observe the following points:

- Never register ID in a place where radio waves are interfered (e.g. radio tower).
- Never register ID in a place close to vehicles including TPMS.

(P)With CONSULT

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

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

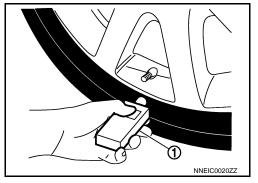
YES >> GO TO 2. NO >> GO TO 3.

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

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

CAUTION:

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



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

| Sequence | ID registration position | Turn signal lamp | CONSULT |
|----------|--------------------------|------------------|---------|
| 1 | Front left wheel | | |
| 2 | Front right wheel | 2 blinks | "Red" |
| 3 | Rear right wheel | 2 DIITIKS | "Green" |
| 4 | Rear left wheel | | |

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

Is the check result normal?

YES >> ID registration END.

NO >> Refer to <u>WT-44, "Diagnosis Procedure"</u>.

3. TIRE PRESSURE SENSOR ID REGISTRATION PROCEDURE (WITHOUT TIRE PRESSURE SENSOR ACTIVATION TOOL)

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

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ID REGISTRATION

< BASIC INSPECTION >

| 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 tire pressure sensor ID registration procedure.

^{3.} After ID registration for all wheels is completed, press "END" to end ID registration.

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

^{4.} Adjust the tire pressures for all wheels to the specified value. Refer to <u>WT-53, "Tire Air Pressure"</u>. <u>Is ID registrations for all wheels completed?</u>

YES >> ID registration END.

NO >> Performs trouble-diagnosis of the Tire Pressure Monitoring System (TPMS). Refer to <u>BCS-90.</u> "<u>DTC Index"</u>.

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

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INFOID:0000000009062482

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

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

DTC Logic

DTC DETECTION LOGIC

| DTC | Display item | Malfunction detected condition | Possible cause |
|-------|-----------------|---|--|
| C1704 | LOW PRESSURE FL | Front LH tire pressure drops to * kPa (* kg/cm², * psi) or less. [NOTE] | _ |
| C1705 | LOW PRESSURE FR | Front RH tire pressure drops to * kPa (* kg/cm², * psi) or less. [NOTE] | Low tire pressureTire pressure sen- |
| C1706 | LOW PRESSURE RR | Rear RH tire pressure drops to * kPa (* kg/cm², * psi) or less. [NOTE] | sor malfunction |
| C1707 | LOW PRESSURE RL | Rear LH tire pressure drops to * kPa (* kg/cm², * psi) or less. [NOTE] | |

NOTE:

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

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

(P)With CONSULT

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

- Check the tire pressure for all wheels and adjust to the specified value. Refer to <u>WT-53, "Tire Air Pressure"</u>.
- Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

<u>Is DTC "C1704", "C1705", "C1706", "C1707" detected?</u>

YES >> Perform trouble diagnosis. Refer to WT-23, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to WT-53, "Tire Air Pressure".

Is the inspection result normal?

YES >> Replace the DTC-detected malfunctioning tire pressure sensor. Refer to WT-50, "Exploded View".

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

2.CHECK TIRE PRESSURE SIGNAL

With CONSULT

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.

- Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
- 3. Select "BCM" in "DATA MONITOR", and check that the tire pressures match the standard value.

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

Revision: 2013 March WT-23 2014 QX50

C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

CAUTION:

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

Is the inspection result normal?

YES >> Inspect or repair the tires or wheels and adjust the tire pressure to the specification.

NO >> GO TO 1.

Special Repair Requirement

INFOID:0000000009062483

1. CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to WT-53, "Tire Air Pressure".

Does all tire pressure data meet the specification?

YES >> GO TO 2.

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

2. PERFORM ID REGISTRATION

Perform ID registration. Refer to WT-21, "Work Procedure".

>> END

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

DTC Logic

DTC DETECTION LOGIC

| | | | | _ |
|-------|--------------|---|--|---|
| DTC | Display item | Malfunction detected condition | Possible cause | |
| C1708 | [NO DATA] FL | Tire pressure data signal from the front left wheel tire pressure sensor cannot be detected. | Harness or connector (Tire pressure receiver, BCM) ID registration is not finished | |
| C1709 | [NO DATA] FR | Tire pressure data signal from the front right wheel tire pressure sensor cannot be detected. | | |
| C1710 | [NO DATA] RR | Tire pressure data signal from the rear right wheel tire pressure sensor cannot be detected. | | |
| C1711 | [NO DATA] RL | Tire pressure data signal from the rear left wheel tire pressure sensor cannot be detected. | | V |

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

(P)With CONSULT

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

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

YES >> Perform trouble diagnosis. Refer to <u>WT-25, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

1. CHECK TIRE PRESSURE SIGNAL

I CHECK TIRE PRESSURE SIGNA

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

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

CAUTION:

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

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

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

2.CHECK HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

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

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INFOID:0000000009062485

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

| В | CM | Tire pressu | Continuity | |
|-----------|----------|-------------|------------|------------|
| Connector | Terminal | Connector | Terminal | Continuity |
| | 137 | | 1 | |
| M123 | 138 | M101 | 4 | Existed |
| | 139 | | 2 | |

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

| BO | CM | | Continuity |
|-----------|----------|------------------|-------------|
| Connector | Terminal | _ | |
| | 137 | Ground Not exist | |
| M123 | 138 | | Not existed |
| | 139 | | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

3. CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

- Connect the BCM harness connector.
- 2. Turn the ignition switch ON.

CAUTION:

Never start the engine.

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

| В | CM | _ | Voltage |
|--------------------|-----|--------|-----------|
| Connector Terminal | | _ | (Approx.) |
| M123 | 138 | Ground | 5 V |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace damaged parts.

4. CHECK TIRE PRESSURE RECEIVER

Check tire pressure receiver. Refer to WT-34, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace tire pressure receiver. Refer to WT-52, "Removal and Installation".

5. CHECK ID REGISTRATION

Perform ID registration of all tire pressure sensors. Refer to WT-21, "Work Procedure".

Can ID registration of all tire pressure sensors be completed?

YES >> GO TO 6.

NO >> Replace tire pressure sensor. Refer to WT-50, "Exploded View".

6.CHECK TIRE PRESSURE MONITORING SYSTEM

(P)With CONSULT

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

C1708, C1709, C1710, C1711 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

| AIR PRESS FL | Condition | Displayed value | | |
|---------------------------|---|----------------------------------|--|--|
| | | | | |
| AIR PRESS FR | Drive at a speed of 40 km/h (25 MPH) or more, for several | Internal procesure of tires | | |
| AIR PRESS RR | minutes without stopping. | | | |
| AIR PRESS RL | | | | |
| | within 15 minutes, use "DATA MONITOR" in "e pressure for all wheels. | AIR PRESSURE MONITOR" of | | |
| 'ES >> Replace the | DTC-detected malfunctioning tire pressure sensor. M. Refer to BCS-96, "Exploded View". | Refer to WT-50, "Exploded View". | | |
| pecial Repair Req | uirement | INFOID:0000000009062486 | | |
| CHECK TIRE PRESS | | | | |
| | · · | | | |
| | essures. Refer to <u>WT-53, "Tire Air Pressure"</u> . <u>Ita meet the specification?</u> | | | |
| 'ES >> GO TO 2. | na meet the specimeation: | | | |
| IO >> Inspect or re | epair the tires or wheels and adjust the tire pressure | to the specification. | | |
| PERFORM ID REGIS | STRATION | | | |
| erform ID registration. I | Refer to WT-21, "Work Procedure". | | | |
| =115 | | | | |
| >> END | | | | |
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Revision: 2013 March **WT-27** 2014 QX50

C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

DTC Logic

DTC DETECTION LOGIC

| DTC | Display item | Malfunction detected condition | Possible case |
|-------|--------------------|--|---------------------------------------|
| C1716 | [PRESSDATA ERR] FL | Malfunction in the tire pressure data from the front left wheel tire pressure sensor. | |
| C1717 | [PRESSDATA ERR] FR | Malfunction in the tire pressure data from the front right wheel tire pressure sensor. | ID registration is not fin- ished |
| C1718 | [PRESSDATA ERR] RR | Malfunction in the tire pressure data from the rear right wheel tire pressure sensor. | Tire pressure sensor mal- function |
| C1719 | [PRESSDATA ERR] RL | Malfunction in the tire pressure data from the rear left wheel tire pressure sensor. | |

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

(P)With CONSULT

Turn the ignition switch ON.

CAUTION:

Never start the engine.

- Check the tire pressure for all wheels and adjust to the specified value. Refer to <u>WT-53, "Tire Air Pressure"</u>.
- 3. Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

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

YES >> Perform trouble diagnosis. Refer to WT-28, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:00000000009062488

1. CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to WT-53, "Tire Air Pressure".

Is the inspection result normal?

YES >> Replace the DTC-detected malfunctioning tire pressure sensor. Refer to WT-50, "Exploded View".

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

2.CHECK TIRE PRESSURE SIGNAL

(P)With CONSULT

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

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

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

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

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

NO >> GO TO 1.

C1716, C1717, C1718, C1719 TIRE PRESSURE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

| Special Repair Requirement | INFOID:0000000009062489 | Λ |
|---|-------------------------|---|
| 1. CHECK TIRE PRESSURE | | Α |
| Check all tires for tire pressures. Refer to WT-53, "Tire Air Pressure". | - | |
| Does all tire pressure data meet the specification? | | В |
| YES >> GO TO 2. NO >> Inspect or repair the tires or wheels and adjust the tire pressure to the specification | ٦. | |
| 2.PERFORM ID REGISTRATION | | |
| Perform ID registration. Refer to WT-21, "Work Procedure". | | |
| | | D |
| >> END | | |

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C1729 VEHICLE SPEED SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

C1729 VEHICLE SPEED SIGNAL

BCM detects no vehicle speed signal.

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.DTC REPRODUCTION PROCEDURE

(I) With CONSULT

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

Is DTC "C1729" detected?

YES >> Perform trouble diagnosis. Refer to WT-30, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009062492

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

(P)With CONSULT

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

Is any DTC detected?

YES >> Check the DTC. Refer to MWI-109, "DTC Index".

NO >> GO TO 2.

2.PERFORM SELF-DIAGNOSIS

(P)With CONSULT

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

Is DTC "C1729" detected?

YES >> Replace BCM. Refer to BCS-96, "Exploded View".

NO >> GO TO 3.

3.CHECK INFORMATION

(P)With CONSULT

- Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
- Select "BCM" in "DATA MONITOR", and check the input/output values. Refer to <u>BCS-50</u>, "<u>Reference Value</u>".

Is the inspection result normal?

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

NO >> Replace BCM. Refer to BCS-96, "Exploded View".

Special Repair Requirement

INFOID:0000000009062493

1. CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to WT-53, "Tire Air Pressure".

Does all tire pressure data meet the specification?

YES >> GO TO 2.

C1729 VEHICLE SPEED SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

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

2.PERFORM ID REGISTRATION

Perform ID registration. Refer to WT-21, "Work Procedure".

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C1734 BCM

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. DTC REPRODUCTION PROCEDURE

(P)With CONSULT

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

CAUTION:

Perform within 15 minutes after stop the vehicle.

Is DTC "C1734" detected?

YES >> Perform trouble diagnosis. Refer to <u>WT-32, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000009062495

1. CHECK BCM POWER SUPPLY

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

| В | CM | _ | Voltage | |
|-----------|----------|--------|-----------------|--|
| Connector | Terminal | _ | voltage | |
| M118 | 1 | Ground | Pattory voltage | |
| M119 | 11 | Ground | Battery voltage | |

Is the power supply normal?

YES >> GO TO 2.

NO

>> Check the following. If any items are damaged, repair or replace damage parts.

- 40A fusible link [No. K located in the fuse block]. Refer to <u>PG-96, "Fuse and Fusible Link Arrangement"</u>.
- 10A fuse [No. 10 located in the fuse block (J/B)]. Refer to <u>PG-97</u>, "Fuse, Connector and Terminal Arrangement".
- Harness for short or open between battery and BCM harness connector M118 terminal 1.
- Harness for short or open between battery and BCM harness connector M119 terminal 11.
- Check the Battery voltage.

2.CHECK BCM GROUND

Check the continuity between BCM harness connector and ground.

| В | CM | | Continuity | |
|--------------------|----|--------|------------|--|
| Connector Terminal | | _ | Continuity | |
| M119 | 13 | Ground | Existed | |

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

3. CHECK HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

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

C1734 BCM

< DTC/CIRCUIT DIAGNOSIS >

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

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

| BCM | | | Continuity | |
|-----------|----------|--------------|-------------|--|
| Connector | Terminal | _ | Continuity | |
| 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 BCS-50, "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-96, "Exploded View".

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

Special Repair Requirement

1. CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to WT-53, "Tire Air Pressure".

Does all tire pressure data meet the specification?

YES >> GO TO 2.

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

2.PERFORM ID REGISTRATION

Perform ID registration. Refer to WT-21, "Work Procedure".

>> END

WT-33 Revision: 2013 March 2014 QX50 В

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TIRE PRESSURE RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

TIRE PRESSURE RECEIVER

Component Function Check

1. TIRE PRESSURE MONITORING SYSTEM OPERATION

(P)With CONSULT

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

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

CAUTION:

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Perform trouble diagnosis. Refer to <u>WT-34, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000009062498

INFOID:0000000009062497

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 (Approv.) | |
|------------------------|----------|------------|---|---|--|
| Connector | Terminal | _ | Condition | Voltage (Approx.) | |
| M101 | | Ground | Stand by state | (V) 6 4 2 0 + 0.2s OCC3881D | |
| M101 2 | ۷ | 2 Ground - | When receiving the signal from the tire pressure sensor | (V) 6 4 2 0 ••• 0.2s | |

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK TIRE PRESSURE RECEIVER INPUT VOLTAGE

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

TIRE PRESSURE RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

| Tire press | ure 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

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

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

Check continuity between BCM harness connector and ground.

| В | CM | _ | 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-32, "Diagnosis Procedure".

Is the BCM circuit normal?

YES >> Replace tire pressure receiver. Refer to WT-52, "Removal and Installation".

>> Replace BCM. Refer to BCS-96, "Exploded View". NO

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LOW TIRE PRESSURE WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP

Component Function Check

INFOID:0000000009062499

${f 1}.$ 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 <u>WT-36, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000009062500

1. POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit. Refer to WT-37, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace damaged parts.

2. PERFORM SELF-DIAGNOSIS

(P)With CONSULT

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

Is any DTC detected?

YES >> Check the DTC. Refer to BCS-90, "DTC Index".

NO >> GO TO 3.

3.check low tire pressure warning lamp signal

(II) With CONSULT

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

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

Is the inspection result normal?

YES >> Check the combination meter. Refer to MWI-6, "METER SYSTEM: System Description".

NO >> Replace the BCM. Refer to BCS-96, "Exploded View".

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000009062501

1. POWER SUPPLY SYSTEM CHECK

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

CAUTION:

Never start the engine.

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

Terminal 1

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Voltage

Battery voltage

Is the inspection result normal?

Connector

M118

M119

>> GO TO 2.

NO >> Repair or replace damaged parts.

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2.GROUND SYSTEM INSPECTION

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

| В | CM | _ | Continuity | | |
|-----------|----------|--------|------------|--|--|
| Connector | Terminal | | Continuity | | |
| M119 | 13 | Ground | Existed | | |

Ground

Is the inspection result normal?

YES >> • Check the 10A fuse [No. 10 in fuse block (J/B)].

• Check the 40A fusible link [No. K in fuse block].

NO >> Repair or replace damaged parts.

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TPMS

SYMPTOM DIAGNOSIS

TPMS

Symptom Table

LOW TIRE PRESSURE WARNING LAMP SYMPTOM CHART

| Diagnosis items | Symptom (Ignition switch ON) | Low tire pressure warning lamp | Cause | Action |
|--|---|--|--|--|
| | The low tire pressure warning lamp illuminates for 1 second, then turns OFF. | ON 1 sec > stays OFF SEIA0592E | Wake-up operation for all tire pressure sensors at wheels is completed. | No system malfunctions |
| | The low tire pressure warning lamp repeats blinking ON for 2 seconds and OFF for 0.2 seconds. | Blinks: ON 2 sec > OFF 0.2 sec SEIA0593E | Wake-up operation for all tire pressure sensors at wheels is not complet- ed. | Perform the wake-up operation for all tire pressure sensors at wheels. Refer to WT-20, "Work Procedure". |
| | The low tire pressure warning lamp blinks once. | Blinks 1 time ON 0.3 sec > OFF 1.0 sec JPEIC0090GB | The front left tire pressure sensor is not activated. | Perform the wake-up operation for the tire pressure sensor at front left wheel. Refer to WT-20, "Work Procedure". |
| Low tire pres- sure warning lamp | The low tire pressure warning lamp repeats blinking twice. | Blinks 2 times ON 0.3 sec > OFF 0.3 sec SEIA0595E | The front right tire pressure sensor is not activated. | Perform the wake-up operation for the tire pressure sensor at front right wheel. Refer to WT-20, "Work Procedure". |
| | The low tire pressure warning lamp repeats blinking for 3 times. | Blinks 3 times ON 0.3 sec > OFF 0.3 sec SEIA0596E | The rear right tire pressure sensor is not activated. | Perform the wake-up operation for the tire pressure sensor at rear right wheel. Refer to WT-20, "Work Procedure". |
| | The low tire pressure warning lamp repeats blinking for 4 times. | Blinks 4 times ON 0.3 sec > OFF 0.3 sec SEIAO597E | The rear left tire pressure sensor is not activated. | Perform the wake-up operation for the tire pressure sensor at rear left wheel. Refer to WT-20, "Work Procedure". |
| | The low tire pressure warning lamp turns ON and stays illuminated. | Comes ON and stays ON | Low tire pressure | Check the tire pressure for all wheels and adjust to the specified value. Refer to WT-53, "Tire Air Pressure". |

TPMS

< SYMPTOM DIAGNOSIS >

| Diagnosis items | Symptom (Ignition switch ON) | Low tire pressure warning lamp | Cause | Action | | |
|--|--|--------------------------------|---|---|--|--|
| | | | 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 lamp | | The BCM harness connector is removed. | Check the connection conditions of the BCM harness connector, and repair if necessary. | | |
| Low tire pres- sure warning lamp | repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated. | Blinks 1 min | Tire Pressure Monitoring System (TPMS) malfunction. | Perform CONSULT self-diagnosis. Refer to BCS-18, "COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)". If necessary, perform tire pressure sensor ID registration. Refer to WT-21, "Work Procedure". | | |
| Turn signal lamp | The turn signal lamps do not blink twice when the tire pressure sensor is activated. Or the buzzer does not sound. | | 1. The tire pressure sensor activation tool (J-45295) does not activate. 2. The ignition switch is OFF when the tire pressure sensor wake-up operation is performed. 3. The tire pressure sensor activation tool (J-45295) is not used in the correct position. 4. The tire pressure sensor is already waked up. | Replace the battery in the tire pressure sensor activation tool (J-45295). Turn the ignition switch ON when performing the tire pressure sensor wake-up operation. Operate the tire pressure sensor activation tool (J-45295) in the correct position when performing the wake-up operation. No procedure. | | |

NOTE:

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

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

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

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

1. CHECK LOW TIRE PRESSURE WARNING LAMP

Perform trouble diagnosis of the low tire pressure warning lamp. Refer to <u>WT-36, "Diagnosis Procedure"</u>. <u>Is the inspection result normal?</u>

YES >> Check pin terminal and connection of each connector for damage and loose connection.

NO >> Repair or replace damaged parts.

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LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

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

Diagnosis Procedure

INFOID:0000000009062506

1. CHECK TIRE PRESSURE

1. Turn the ignition switch ON.

CAUTION:

Never start the engine.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Inspect or repair the tires or wheels.

CHECK LOW TIRE PRESSURE WARNING LAMP

Check low tire pressure warning lamp display.

Does not low tire pressure warning lamp turn OFF?

YES >> GO TO 3.

NO >> INSPECTION END

3.CHECK BCM

(P)With CONSULT

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

Is any DTC detected?

YES >> Check the DTC. Refer to BCS-90, "DTC Index".

NO >> GO TO 4.

f 4.CHECK BCM POWER SUPPLY AND GROUND

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

CAUTION:

Never start the engine.

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

| В | CM | | Voltage | | | |
|-----------|----------|--------------|-----------------|--|--|--|
| Connector | Terminal | _ | voltage | | | |
| M118 | 1 | Ground | Rattery voltage | | | |
| M119 | 11 | Giouna | Battery voltage | | | |

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-96, "Exploded View".

NO >> Repair or replace damaged parts.

LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

LOW TIRE PRESSURE WARNING LAMP BLINKS

Description INFOID:0000000009062507

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

NOTE:

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

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

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Diagnosis Procedure

1. TIRE PRESSURE SENSOR WAKE-UP OPERATION

Perform the tire pressure sensor wake-up. Refer to WT-20, "Work Procedure".

Is the tire pressure sensor wake-up completed?

YES >> GO TO 2.

NO >> Perform trouble diagnosis for the tire pressure sensor. Refer to WT-25, "Diagnosis Procedure".

2.TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to WT-21, "Work Procedure".

Is tire pressure sensor ID registration completed?

YES >> INSPECTION END

NO >> Perform the self-diagnosis for "AIR PRESSURE MONITOR". Refer to BCS-90, "DTC Index".

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ID REGISTRATION CANNOT BE COMPLETED

< SYMPTOM DIAGNOSIS >

ID REGISTRATION CANNOT BE COMPLETED

Description

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

Diagnosis Procedure

INFOID:0000000009062510

1. TIRE PRESSURE SENSOR WAKE-UP

Perform the tire pressure sensor wake-up. Refer to WT-20, "Work Procedure".

Is the tire pressure sensor wake-up completed?

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

2.CHECK TIRE PRESSURE SENSOR ACTIVATION TOOL

Check tire pressure sensor activation tool.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace the battery of tire pressure sensor activation tool or repair/replace the tire pressure sensor activation tool.

3. TIRE PRESSURE SENSOR ID REGISTRATION

Perform tire pressure sensor ID registration. Refer to WT-21, "Work Procedure".

CAUTION:

To perform ID registration, observe the following points:

- Never register ID in a place where radio waves are interfered (e.g. radio tower).
- Never register ID in a place close to vehicles including TPMS.

Is tire pressure sensor ID registration completed?

YES >> INSPECTION END

NO >> GO TO 4.

4. CHECK TIRE PRESSURE SIGNAL

Change the work location and perform ID registration again.

NOTE:

Depending on the tire pressure sensor position*, a blind spot exists, and the tire pressure receiver gets a poor reception. If an ID registration is performed under this condition, the registration may not be completed. In such case, follow the instructions below to improve the radio wave receiving environment.

- Rotate tire by 90°, 180°, or 270°. (This Step is to change tire pressure sensor position.)
- Open the door close to the tire of which ID registration is ongoing.
- *: Radio wave reception condition depends on vehicle architecture (e.g. body harness layout, tire wheel design) or environment.

When ID registration is performed, which wheels do not react?

All wheels react and ID registration is possible.>>INSPECTION END

Only certain wheel(s) do not react.>>Replace applicable tire pressure sensor. Refer to WT-50, "Removal and Installation".

All wheels do not react.>>Check the tire pressure receiver. Refer to WT-34, "Component Function Check".

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

NVH Troubleshooting Chart

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| Use chart bel | low to find t | ne cause of the sympt | om. | If nec | essa | ry, rep | air or | repla | ce the | ese p | arts. | | | | | | | ı | | |
|---------------|---------------|-------------------------------|---|-----------------------------------|---------------------|---------------------|----------------------------|---------------------|-----------------------|----------------|----------------------------|---------------------|---------------------|---------------------------------|-------------------------------|-------------------------------|------------------------------------|--------------------------|--------------------|--------------------|
| Reference (| page | | 2WD models: FSU-9, FSU-12 | AWD models: FSU-28, FSU-31 | WT-48, "Inspection" | WT-46, "Adjustment" | WT-53, "Tire Air Pressure" | WT-46, "Adjustment" | I | I | WT-53, "Tire Air Pressure" | NVH in DLN section. | NVH in DLN section. | NVH in FAX and FSU sections. | NVH in RAX and RSU sections. | Refer to TIRES in this chart. | Refer to ROAD WHEEL in this chart. | NVH in FAX, RAX section. | NVH in BR section. | NVH in ST section. |
| Possible ca | use and Sl | USPECTED PARTS | () () () () () () () () () () | improper installation, looseriess | Out-of-round | unbalance | Incorrect tire pressure | Uneven tire wear | Deformation or damage | Non-uniformity | Incorrect tire size | PROPELLER SHAFT | DIFFERENTIAL | FRONT AXLE AND FRONT SUSPENSION | REAR AXLE AND REAR SUSPENSION | TIRES | ROAD WHEELS | DRIVE SHAFT | BRAKE | STEERING |
| | | Noise | | × | × | × | × | × | × | × | | × | × | × | × | | × | × | × | × |
| | | Shake | | × | × | × | × | × | × | | × | × | | × | × | | × | × | × | × |
| | | Vibration | | | | | × | | | | × | × | | × | × | | | × | | × |
| | TIRES | Shimmy | | × | × | × | × | × | × | × | × | | | × | × | | × | | × | × |
| | | Judder | | × | × | × | × | × | × | | × | | | × | × | | × | | × | × |
| Symptom | | Poor quality ride or handling | | × | × | × | × | × | × | | × | | | × | | × | × | | | |
| | | Noise | | × | × | × | | | × | | | × | × | × | × | × | | × | × | × |
| | BOAD | Shake | | × | × | × | | | × | | | × | | × | × | × | | × | × | × |
| | ROAD WHEEL | Shimmy, Judder | | × | × | × | | | × | | | | | × | × | × | | | × | × |
| | | Poor quality ride or handling | | × | × | × | | | × | | | | | × | × | × | | | | |

^{×:} Applicable

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PERIODIC MAINTENANCE

ROAD WHEEL

Adjustment

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:**

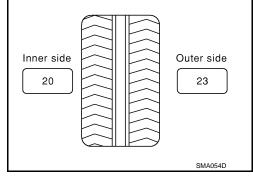
23 g (0.81 oz) \times 5/3 = 38.33 g (1.35 oz) \Rightarrow 37.5 g (1.32 oz) balance weight (closer to calculated balance weight value)

NOTE:

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

Example:

 $36.2 \Rightarrow 35 \text{ g } (1.23 \text{ oz})$ $36.3 \Rightarrow 37.5 \text{ g } (1.32 \text{ oz})$



b. Installed balance weight in the position.

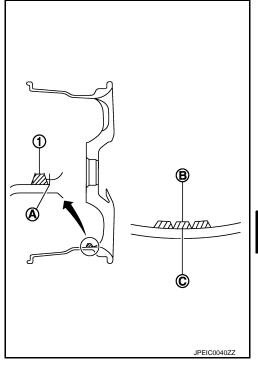
ROAD WHEEL

< PERIODIC MAINTENANCE >

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

CAUTION:

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



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.

- 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.



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

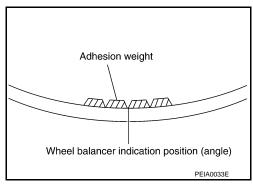
Static (At flange): Refer to WT-53, "Road Wheel".

TIRE ROTATION

- Follow the maintenance schedule for tire rotation service intervals. Refer to MA-4, "Explanation of General Maintenance".
- When installing the wheel, tighten wheel nuts to the specified torque. Refer to WT-48, "Exploded View".

CAUTION:

- Do not include the T-type spare tire when rotating the tires.
- When installing wheels, tighten them diagonally by dividing the work two to three times in order to prevent the wheels from developing any distortion.
- Be careful not to tighten wheel nut at torque exceeding the criteria for preventing strain of disc rotor.
- Use NISSAN genuine wheel nuts for aluminum wheels.
- Perform the ID registration, after tire rotation. Refer to WT-21, "Work Procedure".



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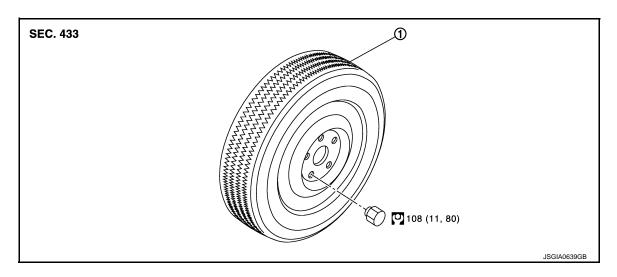
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Revision: 2013 March WT-47 2014 QX50

REMOVAL AND INSTALLATION

ROAD WHEEL TIRE ASSEMBLY

Exploded View



1. Tire assembly

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

Removal and Installation

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REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

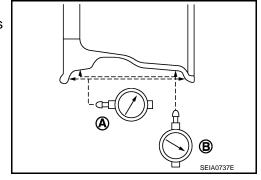
ALUMINUM WHEEL

- 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. Check runout, If the axial runout (A) or radial runout (B) exceeds the limit, replace aluminum wheel.

Limit

Axial runout (A) : Refer to WT-53, "Road Wheel".

Radial runout (B) : Refer to WT-53, "Road Wheel".



STEEL WHEEL

1. Check tires for wear and improper inflation.

ROAD WHEEL TIRE ASSEMBLY

< REMOVAL AND INSTALLATION >

- 2. Check wheels for deformation, clacks and other damage. If deformed, remove wheel and check wheel runout.
- Remove tire from steel wheel and mount wheel on a tire balance machine.
- b. Set two dial indicators as shown in the illustration.
- c. Set each dial indicator to "0".
- 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.

Axial runout (A) : (1+2)/2 Radial runout (B) : (3+4)/2

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

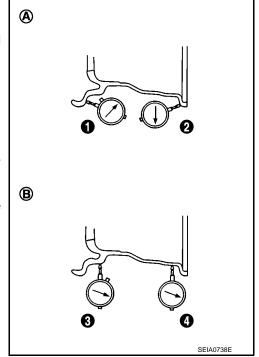
In case a positive or negative value is not available, use the maximum value (negative or positive) for total runout.

Limit

A: Refer to <u>WT-53, "Road Wheel"</u>.

B: Refer to <u>WT-53, "Road Wheel"</u>.

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



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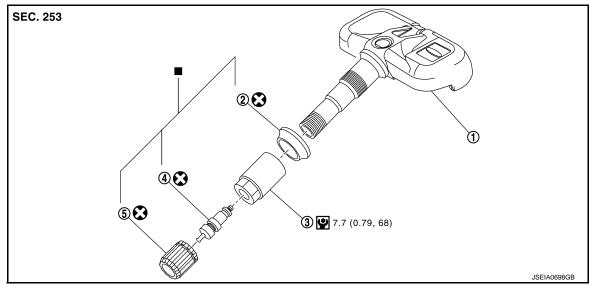
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TIRE PRESSURE SENSOR

Exploded View

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- 1. Tire pressure sensor
- 2. Grommet seal

3. Valve nut

4. Valve core

5. Valve cap

: Parts that are replaced as a set when the tire is replaced.

Refer to GI-4, "Components" for symbols not described above.

Removal and Installation

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REMOVAL

- Remove tire assembly. Refer to <u>WT-48, "Removal and Installation"</u>.
- 2. Remove valve cap, valve core and then deflate tire.

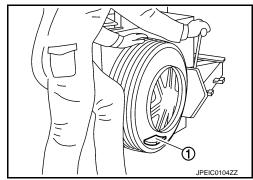
NOTE:

If the tire is reused, apply a matching mark to the position of the tire road wheel valve hole for the purpose of wheel balance adjustment after installation.

- 3. Remove valve nut retaining tire pressure sensor and allow tire pressure sensor to fall into tire.
- 4. Use the tire changer and disengage the tire beads.

CAUTION:

- Verify that the tire pressure sensor (1) is at the bottom of the tire while performing the above.
- Be sure not to damage the road wheel or tire pressure sensor
- 5. Apply bead cream or an equivalent to the tire beads.
- Set tire onto the tire changer turntable so that the tire pressure sensor inside the tire is located close to the road wheel valve hole.



TIRE PRESSURE SENSOR

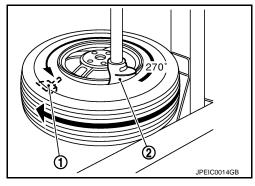
< REMOVAL AND INSTALLATION >

Turn tire so that valve hole is at bottom and bounce so that tire pressure sensor (1) is near valve hole. Carefully lift tire onto turntable and position valve hole (and tire pressure sensor) 270 degree from mounting/dismounting head (2).

CAUTION:

Be sure not to damage the road wheel and tire pressure sensor.

- 8. Remove tire pressure sensor from tire.
- Remove the grommet seal.

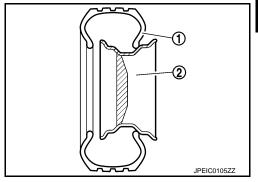


INSTALLATION

- 1. Apply bead cream or an equivalent to the tire beads.
- 2. Install the tire inside beads (1) onto the road wheel (2) in the position shown in the figure.
- 3. Install grommet seal to the tire pressure sensor.

CAUTION:

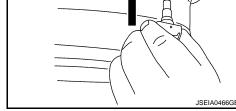
- Never reuse grommet seal.
- Insert grommet seal all the way to the base.



4. Hold tire pressure sensor as shown in the figure, and press the sensor in the direction shown by arrow (-) to bring it into absolute contact with valve hole. After this, tighten valve nut to the specified torque.

CAUTION:

- Never reuse valve core and valve cap.
- · Check that grommet seal is free of foreign matter.
- Check that grommet seal contacts horizontally with road wheel.
- Manually tighten valve nut all the way to the wheel. (Never use a power tool to avoid impact.)



5. Set the tire onto the turntable so that the tire changer arm (2) is at a position approximately 270° from the tire pressure sensor (1).

CAUTION:

Be sure that the arm does not contact the tire pressure sen-

Install the tire outer side beads onto the road wheel.

CAUTION:

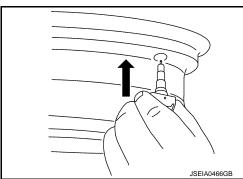
When installing, check that the tire does not turn together with the road wheel.

7. Check the tire pressure for all wheels and adjust to the specified value. Refer to WT-53, "Tire Air Pressure".

NOTE:

Before adding air, align the tire with the position of the matching mark applied at the time of removal.

- Install tire to the vehicle, Refer to WT-48, "Removal and Installation".
- Perform tire pressure sensor ID registration. Refer to <u>WT-21, "Work Procedure"</u>.



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TIRE PRESSURE RECEIVER

< REMOVAL AND INSTALLATION >

TIRE PRESSURE RECEIVER

Removal and Installation

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REMOVAL

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

INSTALLATION

Install is the reverse order of removal.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Road Wheel

ALUMINUM WHEEL (CONVENTIONAL)

| Item | | Limit |
|----------------------|---------------------|------------------------------------|
| Runout | Axial runout | Less than 0.3 mm (0.012 in) |
| | Radial runout | Less than 0.3 min (0.012 iii) |
| Allowable unbalance | Dynamic (At flange) | Less than 5 g (0.17 oz) (one side) |
| Allowable ulibaidite | Static (At flange) | Less than 10 g (0.35 oz) |

STEEL WHEEL (FOR EMERGENCY USE)

| Item | | Limit |
|--------|-------------------------|-----------------------------|
| Runout | Axial runout (Average) | Less than 1.5 mm (0.059 in) |
| runout | Radial runout (Average) | Less than 1.5 mm (0.000 m) |

Tire Air Pressure

Unit: kPa (kg/cm², psi)

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

Revision: 2013 March WT-53 2014 QX50

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