

# WT

## SECTION

### ROAD WHEELS & TIRES

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D

WT

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PRECAUTION

PRECAUTIONS  
FOR USA AND CANADA

FOR USA AND CANADA : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000006353385

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.

FOR USA AND CANADA : Precaution for Battery Service

INFOID:000000006353386

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

FOR USA AND CANADA : Service Notice or Precautions

INFOID:000000006353387

- Low tire pressure warning lamp blinks for 1min, then turns ON when occurring any malfunction except low tire pressure. Delete the memory with CONSULT-III, or register the ID to turn low tire pressure warning lamp OFF. Refer to [WT-21, "Description"](#), [WT-21, "Work Procedure"](#).
- ID registration is required when replacing or rotating wheels, replacing transmitter or BCM. Refer to [BCS-92, "Exploded View"](#).
- Replace grommet seal, valve core and cap of transmitter in TPMS every tire replacement by reaching wear limit of tire. Refer to [WT-51, "Exploded View"](#).

FOR MEXICO

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

INFOID:000000006353388

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

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< PRECAUTION >

[REGULAR GRADE]

types of collision. 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.

## FOR MEXICO : Precaution for Battery Service

INFOID:000000006353389

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

## FOR MEXICO : Service Notice or Precautions

INFOID:000000006353390

- Low tire pressure warning lamp blinks for 1min, then turns ON when occurring any malfunction except low tire pressure. Delete the memory with CONSULT-III, or register the ID to turn low tire pressure warning lamp OFF. Refer to [WT-21, "Description"](#), [WT-21, "Work Procedure"](#).
- ID registration is required when replacing or rotating wheels, replacing transmitter or BCM. Refer to [BCS-92, "Exploded View"](#).
- Replace grommet seal, valve core and cap of transmitter in TPMS every tire replacement by reaching wear limit of tire. Refer to [WT-51, "Exploded View"](#).

# PREPARATION

< PREPARATION >

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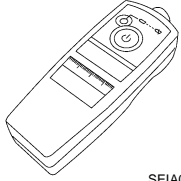
## PREPARATION

### PREPARATION

#### Special Service Tool

INFOID:000000006353391

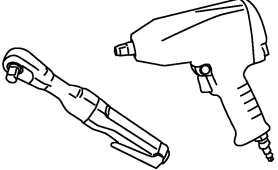
The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

| Tool number<br>(Kent-Moore No.)<br>Tool name  | Description     |
|---|-----------------|
| -<br>(J-45295)<br>Transmitter activation tool<br><br><br>SEIA0462E | ID registration |

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#### Commercial Service Tool

INFOID:000000006353392

| Tool name   | Description          |
|---|----------------------|
| Power tool<br><br><br>PBIC0190E | Loosening wheel nuts |

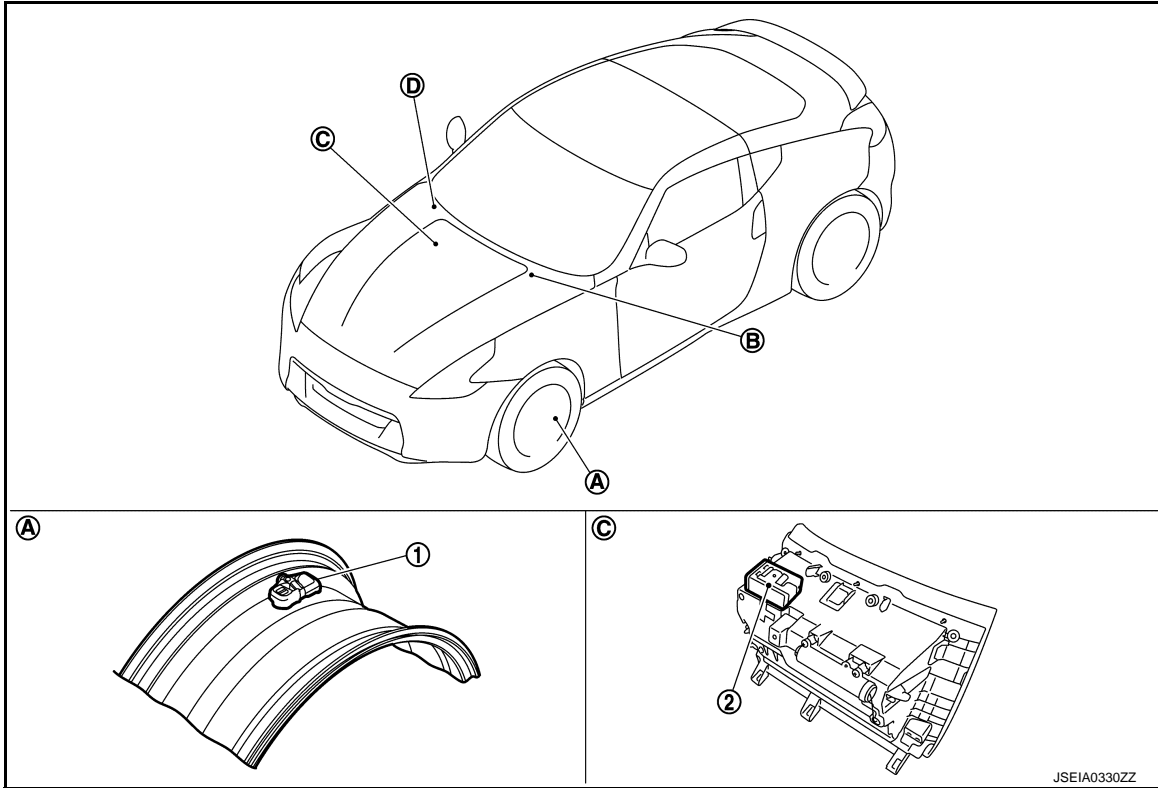
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:000000006353393



- 1. Transmitter
- 2. Tire pressure receiver
- A. Wheel
- B. Low tire pressure warning lamp (On the combination meter)
- C. Glove box assembly
- BCM
- D. Refer to [BCS-9. "Component Parts Location"](#)

Component Description

INFOID:000000006353394

| Component parts                | Function   |
|--------------------------------|--|
| BCM (Body Control Module)      | <a href="#">WT-6. "BCM"</a> .  |
| Transmitter                    | <a href="#">WT-7. "Transmitter"</a> .  |
| Tire pressure receiver         | <a href="#">WT-7. "Tire pressure receiver"</a> .   |
| Turn signal lamp               | ID registration of each wheel has been completed, turn signal lamp flashes.  |
| Combination meter              | Transmits the vehicle speed signal via CAN communication to BCM.   |
|                                | Receives the following signals via CAN communication to BCM. <ul style="list-style-type: none"> <li>• Low tire pressure warning lamp signal</li> <li>• TPMS warning lamp signal</li> </ul> |
| Low tire pressure warning lamp | <a href="#">WT-7. "Low tire pressure warning lamp"</a>   |

BCM

INFOID:000000006353395

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

# COMPONENT PARTS

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

## Transmitter

INFOID:000000006353396

A

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

## Tire pressure receiver

INFOID:000000006353397

B

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

## Low tire pressure warning lamp

INFOID:000000006353399

C

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

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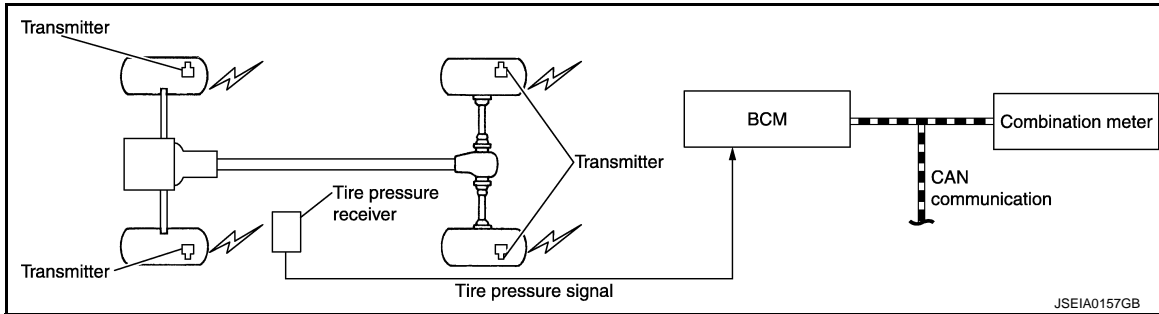
SYSTEM

System Description

INFOID:000000006861978

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

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 combination meter.<br>• Low tire pressure warning lamp signal |
| Combination meter | 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 combination meter.

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



# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

## DIAGNOSIS SYSTEM (BCM)

### COMMON ITEM

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

INFOID:000000006353403

### APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

| Diagnosis mode           | Function Description  |
|--------------------------|---|
| Work Support             | Changes the setting for each system function.   |
| Self Diagnostic Result   | Displays the diagnosis results judged by BCM.   |
| CAN Diag Support Monitor | Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual.  |
| Data Monitor             | The BCM input/output signals are displayed.   |
| Active Test              | The signals used to activate each device are forcibly supplied from BCM.  |
| Ecu Identification       | The BCM part number is displayed.   |
| Configuration            | <ul style="list-style-type: none"> <li>• Read and save the vehicle specification.</li> <li>• Write the vehicle specification when replacing BCM.</li> </ul> |

### 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  | Sub system selection item   | Diagnosis mode |              |             |
|---|-----------------------------|----------------|--------------|-------------|
|   |                             | Work Support   | Data Monitor | Active Test |
| Door lock   | DOOR LOCK                   | x              | x            | x           |
| Rear window defogger  | REAR DEFOGGER               |                | x            | x           |
| Warning chime   | BUZZER                      |                | x            | x           |
| Interior room lamp timer  | INT LAMP                    | x              | x            | x           |
| Exterior lamp   | HEAD LAMP                   | x              | x            | x           |
| Wiper and washer  | WIPER                       | x              | x            | x           |
| Turn signal and hazard warning lamps  | FLASHER                     | x              | x            | x           |
| —   | AIR CONDITONER*             |                |              |             |
| <ul style="list-style-type: none"> <li>• Intelligent Key system</li> <li>• Engine start system</li> </ul> | INTELLIGENT KEY             | x              | x            | x           |
| Combination switch  | COMB SW                     |                | x            |             |
| Body control system   | BCM                         | x              |              |             |
| IVIS - NATS   | IMMU                        |                | x            | x           |
| Interior room lamp battery saver  | BATTERY SAVER               | x              | x            | x           |
| Trunk lid open  | TRUNK                       |                | x            | x           |
| Vehicle security system   | THEFT ALM                   | x              | x            | x           |
| RAP system  | RETAINED PWR                |                | x            |             |
| Signal buffer system  | SIGNAL BUFFER               |                | x            | x           |
| TPMS  | TPMS (AIR PRESSURE MONITOR) | x              | x            | x           |

#### NOTE:

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

### FREEZE FRAME DATA (FFD)

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

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

| CONSULT screen item | Indication/Unit   | Description  |  |
|---------------------|---|--|--|
| Vehicle Speed       | km/h  | Vehicle speed of the moment a particular DTC is detected   |  |
| Odo/Trip Meter      | km  | Total mileage (Odometer value) of the moment a particular DTC is detected  |  |
| Vehicle Condition   | SLEEP>LOCK  | Power position status of the moment a particular DTC is detected   | While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK")              |
|                     | SLEEP>OFF   |  | While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)              |
|                     | LOCK>ACC  |  | While turning power supply position from "LOCK" to "ACC"   |
|                     | ACC>ON  |  | While turning power supply position from "ACC" to "IGN"  |
|                     | RUN>ACC   |  | While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.) |
|                     | CRANK>RUN   |  | While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)                   |
|                     | RUN>URGENT  |  | While turning power supply position from "RUN" to "ACC" (Emergency stop operation)                                     |
|                     | ACC>OFF   |  | While turning power supply position from "ACC" to "OFF"  |
|                     | OFF>LOCK  |  | While turning power supply position from "OFF" to "LOCK"   |
|                     | OFF>ACC   |  | While turning power supply position from "OFF" to "ACC"  |
|                     | ON>CRANK  |  | While turning power supply position from "IGN" to "CRANKING"   |
|                     | OFF>SLEEP   |  | While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode              |
|                     | LOCK>SLEEP  |  | While turning BCM status from normal mode (Power supply position is "LOCK".) to low power consumption mode             |
|                     | LOCK  |  | Power supply position is "LOCK" (Ignition switch OFF with steering is locked.)   |
|                     | OFF   |  | Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)  |
|                     | ACC   |  | Power supply position is "ACC" (Ignition switch ACC)   |
|                     | ON  |  | Power supply position is "IGN" (Ignition switch ON with engine stopped)  |
| ENGINE RUN          | Power supply position is "RUN" (Ignition switch ON with engine running) |  |  |
| CRANKING            | Power supply position is "CRANKING" (At engine cranking)                |  |  |
| IGN Counter         | 0 - 39  | The number of times that ignition switch is turned ON after DTC is detected <ul style="list-style-type: none"> <li>• The number is 0 when a malfunction is detected now.</li> <li>• The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON.</li> <li>• The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.</li> </ul> |  |

## AIR PRESSURE MONITOR

### AIR PRESSURE MONITOR : CONSULT-III Function

INFOID:000000006353405

#### FUNCTION

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

| Diagnostic test mode   | Function  |
|------------------------|---|
| Work support           | In this mode, it is possible to make quick and accurate adjustments by following the instructions on the CONSULT-III display.       |
| Self diagnostic result | Receives self-diagnosis results from the low tire pressure warning control unit, and indicates DTCs and the number of malfunctions. |

# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[REGULAR GRADE]

| Diagnostic test mode | Function   |
|----------------------|--|
| Data monitor         | Receives input/output signals from the low tire pressure warning control unit and indicates and stores them to facilitate locating the causes of malfunctions. |
| Active test          | Transmits command to the low tire pressure warning control unit to change output signals and check operation of output system.                                 |

## WORK SUPPORT MODE

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

## SELF-DIAG RESULTS MODE

Refer to [BCS-85, "DTC Index"](#).

## DATA MONITOR MODE

Screen of data monitor mode is displayed.

### NOTE:

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

| Monitor item (Unit)                              | Remark   |
|--|--|
| AIR PRESS FL (kPa), (kg/cm <sup>2</sup> ), (Psi) | Air pressure of tires  |
| AIR PRESS FR (kPa), (kg/cm <sup>2</sup> ), (Psi) |  |
| AIR PRESS RR (kPa), (kg/cm <sup>2</sup> ), (Psi) |  |
| AIR PRESS RL (kPa), (kg/cm <sup>2</sup> ), (Psi) |  |
| ID REGST FL1                                     | ID is registered: Done<br>ID is not registered: Yet                              |
| ID REGST FR1                                     |  |
| ID REGST RR1                                     |  |
| ID REGST RL1                                     |  |
| WARNING LAMP                                     | Low tire pressure warning lamp ON: On<br>Low tire pressure warning lamp OFF: Off |
| BUZZER   | Combination meter buzzer ON: On<br>Combination meter buzzer OFF: Off             |

### NOTE:

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

## ACTIVE TEST MODE

### NOTE:

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

## TEST ITEM LIST

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

# ECU DIAGNOSIS INFORMATION

## BCM

### List of ECU Reference

INFOID:000000006353406

| ECU | Reference   |
|-----|---|
| BCM | <a href="#">BCS-51, "Reference Value"</a>               |
|     | <a href="#">BCS-82, "Fail-safe"</a>                     |
|     | <a href="#">BCS-84, "DTC Inspection Priority Chart"</a> |
|     | <a href="#">BCS-85, "DTC Index"</a>                     |

# TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

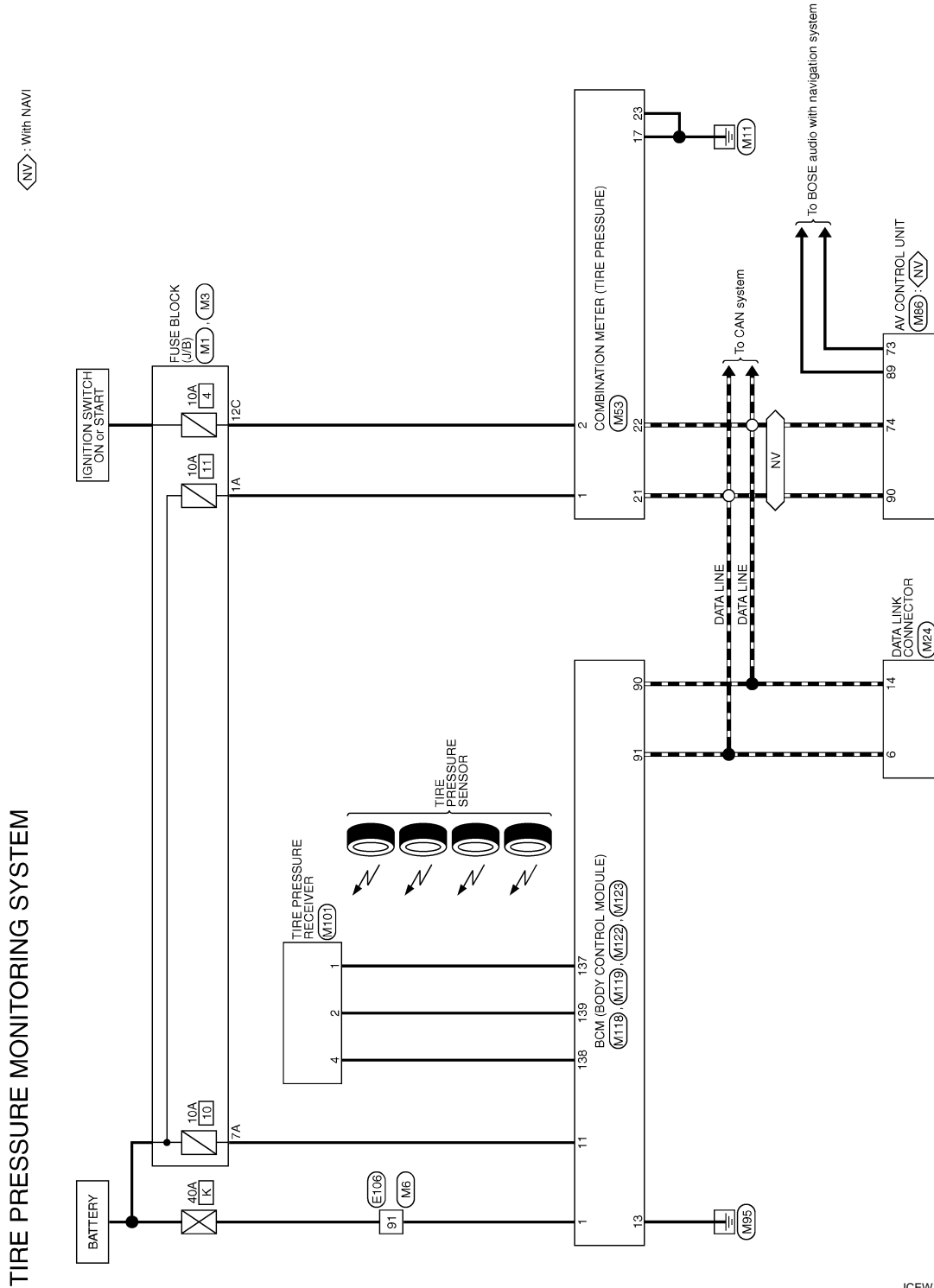
[REGULAR GRADE]

## WIRING DIAGRAM

### TIRE PRESSURE MONITORING SYSTEM

#### Wiring Diagram

INFOID:000000006353407



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WT

# TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

[REGULAR GRADE]

## TIRE PRESSURE MONITORING SYSTEM

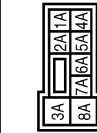
|                |                 |
|----------------|-----------------|
| Connector No.  | E106            |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80FW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification]   |
|--------------|---------------|---|
| 1            | Y             | -   |
| 3            | L             | -   |
| 4            | L             | -   |
| 7            | B             | -   |
| 8            | P             | -   |
| 9            | B             | -   |
| 11           | V             | -   |
| 12           | R             | -   |
| 13           | L             | -   |
| 14           | GR            | -   |
| 15           | P             | -   |
| 16           | W             | -   |
| 17           | SB            | -   |
| 20           | LG            | -   |
| 21           | BR            | - [Coupe models]<br>- [Roadster models]                                 |
| 31           | L             | -   |
| 32           | Y             | -   |
| 33           | P             | -   |
| 34           | L             | -   |
| 35           | BR            | -   |
| 36           | V             | -   |
| 37           | Y             | -   |
| 38           | R             | -   |
| 39           | B             | -   |
| 40           | W             | -   |
| 41           | LG            | -   |
| 42           | SB            | -   |
| 43           | G             | -   |
| 44           | GR            | - [Except for roadster models with M/T]<br>- [Roadster models with M/T] |
| 45           | BG            | -   |
| 46           | W             | -   |
| 47           | P             | -   |
| 58           | SHIELD        | -   |
| 59           | L             | -   |
| 70           | P             | -   |
| 80           | W             | -   |

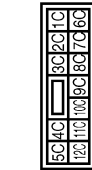
|     |    |   |
|-----|----|---|
| 81  | P  | - |
| 82  | G  | - |
| 83  | V  | - |
| 84  | L  | - |
| 86  | BG | - |
| 87  | LG | - |
| 87  | R  | - |
| 89  | P  | - |
| 91  | W  | - |
| 92  | L  | - |
| 93  | G  | - |
| 94  | Y  | - |
| 96  | Y  | - |
| 97  | BR | - |
| 98  | GR | - |
| 99  | LG | - |
| 100 | BG | - |

|                |                  |
|----------------|------------------|
| Connector No.  | M1               |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | NS08FW-M2        |



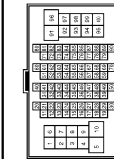
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1A           | V             | -                           |
| 2A           | G             | -                           |
| 3A           | L             | -                           |
| 4A           | P             | -                           |
| 5A           | L             | -                           |
| 6A           | Y             | -                           |
| 7A           | BR            | -                           |
| 8A           | L             | -                           |

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



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 6C           | R             | -                           |
| 7C           | B             | -                           |
| 9C           | O             | -                           |
| 10C          | L             | -                           |
| 11C          | LG            | -                           |
| 12C          | O             | -                           |

|                |                 |
|----------------|-----------------|
| Connector No.  | M6              |
| Connector Name | WIRE TO WIRE    |
| Connector Type | TH80MW-CS16-TM4 |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | Y             | -                           |
| 3            | L             | -                           |
| 4            | L             | -                           |
| 7            | B             | -                           |
| 8            | P             | -                           |
| 9            | B             | -                           |
| 11           | GR            | -                           |
| 12           | R             | -                           |
| 13           | L             | -                           |
| 14           | G             | -                           |
| 15           | P             | -                           |
| 16           | W             | -                           |
| 17           | BR            | -                           |
| 20           | GR            | -                           |
| 21           | R             | -                           |
| 31           | BR            | -                           |

|     |        |                              |
|-----|--------|------------------------------|
| 32  | V      | -                            |
| 33  | P      | -                            |
| 34  | L      | -                            |
| 35  | BR     | -                            |
| 36  | SB     | -                            |
| 37  | Y      | -                            |
| 38  | LG     | -                            |
| 39  | SB     | -                            |
| 40  | W      | -                            |
| 41  | LG     | -                            |
| 42  | R      | -                            |
| 43  | G      | -                            |
| 44  | G      | - [With A/T]<br>- [With M/T] |
| 44  | R      | -                            |
| 45  | O      | -                            |
| 46  | G      | -                            |
| 47  | BR     | -                            |
| 58  | SHIELD | -                            |
| 59  | L      | -                            |
| 70  | R      | -                            |
| 80  | LG     | -                            |
| 81  | GR     | -                            |
| 82  | V      | -                            |
| 83  | V      | -                            |
| 84  | L      | -                            |
| 85  | BR     | -                            |
| 86  | Y      | -                            |
| 87  | G      | -                            |
| 89  | P      | -                            |
| 91  | W      | -                            |
| 92  | P      | -                            |
| 93  | P      | -                            |
| 94  | Y      | -                            |
| 96  | P      | -                            |
| 97  | GR     | -                            |
| 98  | O      | -                            |
| 99  | W      | -                            |
| 100 | R      | -                            |

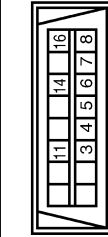
# TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

[REGULAR GRADE]

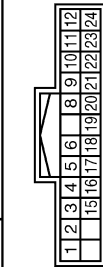
## TIRE PRESSURE MONITORING SYSTEM

|                |                     |
|----------------|---------------------|
| Connector No.  | M24                 |
| Connector Name | DATA LINK CONNECTOR |
| Connector Type | BD18FW              |



| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 3            | LG            | - [Coupe models]            |
| 3            | Y             | - [Roadster models]         |
| 4            | B             | -                           |
| 5            | B             | -                           |
| 6            | L             | -                           |
| 7            | Y             | -                           |
| 8            | G             | -                           |
| 11           | Y             | - [Coupe models]            |
| 11           | LG            | - [Roadster models]         |
| 14           | P             | -                           |
| 16           | Y             | -                           |

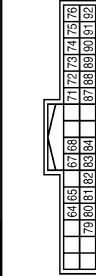
|                |                   |
|----------------|-------------------|
| Connector No.  | M63               |
| Connector Name | COMBINATION METER |
| Connector Type | TH24FW-NH         |



| Terminal No. | Color of Wire | Signal Name [Specification]                        |
|--------------|---------------|--|
| 1            | V             | BATTERY POWER SUPPLY                               |
| 2            | O             | IGNITION POWER SUPPLY                              |
| 3            | L             | VEHICLE SPEED SIGNAL (2-PULSE)                     |
| 4            | Y             | VEHICLE SPEED SIGNAL (8-PULSE) [Except for Mexico] |
| 4            | V             | VEHICLE SPEED SIGNAL (8-PULSE) [For Mexico]        |
| 5            | B             | ILLUMINATION CONTROL SIGNAL                        |
| 6            | R             | ROOF STATUS SIGNAL                                 |
| 9            | BR            | COMMUNICATION SIGNAL (METER->TRIPLE METER)         |
| 10           | L             | COMMUNICATION SIGNAL (TRIPLE METER->METER)         |
| 12           | G             | S-MODE SWITCH SIGNAL                               |
| 15           | L             | ACC POWER SUPPLY                                   |

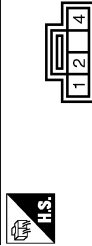
|    |    |  |
|----|----|--|
| 16 | R  | AIR BAG SIGNAL                             |
| 17 | B  | GROUND                                     |
| 18 | V  | AMBIENT SENSOR SIGNAL                      |
| 19 | G  | A/C AUTO AMP CONNECTION RECOGNITION SIGNAL |
| 20 | GR | AMBIENT SENSOR GROUND                      |
| 21 | L  | CAN-H                                      |
| 22 | P  | CAN-L                                      |
| 23 | B  | GROUND                                     |
| 24 | Y  | FUEL LEVEL SENSOR GROUND                   |

|                |                 |
|----------------|-----------------|
| Connector No.  | M86             |
| Connector Name | AV CONTROL UNIT |
| Connector Type | TH22FW-NH       |



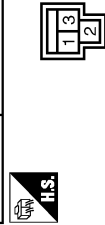
| Terminal No. | Color of Wire | Signal Name [Specification]    |
|--------------|---------------|--------------------------------|
| 65           | O             | PARKING BRAKE SIGNAL           |
| 67           | L             | COMPOSITE IMAGE GND            |
| 68           | G             | COMPOSITE IMAGE SIGNAL         |
| 71           | SHIELD        | SHIELD                         |
| 72           | R             | MICROPHONE VCC                 |
| 73           | G             | COMM (CONT->DISP)              |
| 74           | P             | CAN-L [Coupe models]           |
| 74           | L             | CAN-L [Roadster models]        |
| 75           | LG            | AV COMM (L) [Coupe models]     |
| 75           | Y             | AV COMM (L) [Roadster models]  |
| 76           | LG            | AV COMM (L) [Coupe models]     |
| 76           | Y             | AV COMM (L) [Roadster models]  |
| 79           | R             | ILL+                           |
| 80           | G             | IGNITION SIGNAL                |
| 81           | O             | REVERSE SIGNAL                 |
| 82           | Y             | VEHICLE SPEED SIGNAL (8-PULSE) |
| 83           | B             | SHIELD                         |
| 84           | Y             | -                              |
| 87           | G             | MICROPHONE SIGNAL              |
| 89           | R             | COMM (DISP->CONT)              |
| 90           | L             | CAN-H [Roadster models]        |
| 90           | P             | CAN-H [Coupe models]           |
| 91           | Y             | AV COMM (H) [Coupe models]     |
| 91           | LG            | AV COMM (H) [Roadster models]  |
| 92           | Y             | AV COMM (H) [Coupe models]     |
| 92           | LG            | AV COMM (H) [Roadster models]  |

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| Connector No.  | M101                   |
| Connector Name | TIRE PRESSURE RECEIVER |
| Connector Type | TK6FW                  |



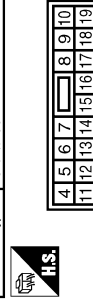
| Terminal No. | Color of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1            | P             | GND                         |
| 2            | L             | SIGNAL                      |
| 4            | V             | BATTERY        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

|                |                           |
|----------------|---------------------------|
| Connector No.  | M118                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | MO3FB-LG                  |



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

|                |                           |
|----------------|---------------------------|
| Connector No.  | M119                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | NS18FW-OS                 |



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

|    |    |                                    |
|----|----|------------------------------------|
| 4  | R  | INTERIOR ROOM LAMP POWER SUPPLY    |
| 5  | G  | SUPER LOCK OUTPUT                  |
| 8  | V  | ALL DOOR FUEL LID LOCK OUTPUT      |
| 9  | G  | DRIVER DOOR FUEL LID UNLOCK OUTPUT |
| 11 | BR | BAT (FUSE)                         |
| 13 | B  | GND                                |
| 14 | R  | PUSH-BUTTON IGNITION SW ILL POWER  |
| 15 | Y  | ACC IND                            |
| 17 | W  | TURN SIGNAL RH (FRONT SIDE)        |
| 18 | O  | TURN SIGNAL LH (FRONT SIDE)        |
| 19 | P  | ROOM LAMP TIMER CONTROL            |

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# TIRE PRESSURE MONITORING SYSTEM

< WIRING DIAGRAM >

[REGULAR GRADE]

## TIRE PRESSURE MONITORING SYSTEM

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| Connector No.  | M122                      |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Type | TH40FE-NH                 |



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



| Terminal No. | Color of Wire | Signal Name [Specification]          |
|--------------|---------------|--------------------------------------|
| 72           | L             | ROOM ANT 2-                          |
| 73           | P             | ROOM ANT 2+                          |
| 74           | SB            | PASSENGER DOOR ANT-                  |
| 75           | BR            | PASSENGER DOOR ANT+                  |
| 76           | V             | DRIVER DOOR ANT-                     |
| 77           | LG            | DRIVER DOOR ANT+                     |
| 78           | L             | ROOM ANT 1-                          |
| 79           | GR            | ROOM ANT 1+                          |
| 80           | GR            | NATS ANT AMP                         |
| 81           | W             | NATS ANT AMP                         |
| 82           | R             | IGN RELAY (F/B) CONT                 |
| 83           | GR            | KYLS ENT RECEIVER (FRONT) COMM       |
| 87           | BR            | COMBI SW INPUT 3                     |
| 88           | V             | COMBI SW INPUT 5                     |
| 89           | BR            | PUSH SW                              |
| 90           | P             | CAN-L                                |
| 91           | L             | CAN-H                                |
| 92           | LG            | KEY SLOT ILL                         |
| 93           | V             | ON IND                               |
| 95           | O             | ACC RELAY CONT                       |
| 96           | Y             | A/T SHIFT SELECTOR POWER SUPPLY      |
| 97           | L             | S/L CONDITION 1                      |
| 98           | P             | S/L CONDITION 2                      |
| 99           | R             | CLUTCH PEDAL POS SW (With M/T)       |
| 99           | R             | SHIFT P (With A/T)                   |
| 100          | GR            | PASSENGER DOOR REQUEST SW            |
| 101          | Y             | DRIVER DOOR REQUEST SW               |
| 102          | O             | BLOWER FAN MOTOR RELAY CONT          |
| 103          | LG            | KYLS ENT RECEIVER (FRONT) PWR SUPPLY |
| 106          | W             | S/L UNIT POWER SUPPLY                |
| 107          | LG            | COMBI SW INPUT 1                     |
| 108          | R             | COMBI SW INPUT 4                     |
| 109          | Y             | COMBI SW INPUT 2                     |
| 110          | P             | HAZARD SW                            |
| 111          | Y             | S/L UNIT COMM                        |

| Terminal No. | Color of Wire | Signal Name [Specification]                  |
|--------------|---------------|--|
| 113          | O             | OPTICAL SENSOR                               |
| 114          | R             | CLUTCH INTERLOCK SW                          |
| 115          | O             | SHOCK SENSOR                                 |
| 116          | SB            | STOP LAMP SW 1                               |
| 118          | P             | STOP LAMP SW 2                               |
| 119          | SB            | DR DOOR UNLOCK SENSOR                        |
| 121          | R             | KEY SLOT SW                                  |
| 123          | W             | IGN F/B                                      |
| 124          | LG            | PASSENGER DOOR SW                            |
| 129          | O             | TRUNK LID OPENER CANCEL SW                   |
| 130          | L             | REAR DEFOGGER SW                             |
| 132          | V             | P/W SW & SOFT TOP C-U COMM (Resistor models) |
| 132          | Y             | POWER WINDOW SW COMM (Couple models)         |
| 133          | G             | PUSH BUTTON (IGNITION SW ILL POWER)          |
| 134          | GR            | LOCK IND                                     |
| 137          | P             | RECEIVER/SENSOR GND                          |
| 138          | V             | RECEIVER / SENSOR POWER SUPPLY               |
| 139          | L             | TIRE PRESS./K/LS ENT (REAR) RECEV COMM       |
| 140          | G             | P/N POSITION SW (With M/T)                   |
| 140          | G             | SHIFT N/P (With A/T)                         |
| 141          | Y             | SECURITY INDICATOR                           |
| 142          | O             | COMBI SW OUTPUT 5                            |
| 143          | P             | COMBI SW OUTPUT 1                            |
| 144          | G             | COMBI SW OUTPUT 2                            |
| 145          | L             | COMBI SW OUTPUT 3                            |
| 146          | SB            | COMBI SW OUTPUT 4                            |
| 150          | GR            | DRIVER DOOR SW                               |
| 151          | G             | REAR WINDOW DEFOGGER RELAY CONT              |

JCEWA0201GB



**BASIC INSPECTION**

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000006353408

DETAILED FLOW

**1. COLLECT THE INFORMATION FROM THE CUSTOMER**

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

**CAUTION:**

**Customers are not professionals. Never assume “maybe the customer means...” or “maybe the customer mentioned this symptom.**

>> GO TO 2.

**2. BASIC INSPECTION**

1. Turn the ignition switch ON.

**CAUTION:**

**Never start the engine.**

2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-54, "Tire Air Pressure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Inspect or repair the tires or wheels.

**3. CHECK LOW TIRE PRESSURE WARNING LAMP**

Check low tire pressure warning lamp display.

Does not low tire pressure warning lamp turn OFF?

YES >> GO TO 4.

NO >> INSPECTION END

**4. CRUISE TEST**

Start the engine and drive the vehicle.

>> GO TO 5.

**5. PERFORM SELF-DIAGNOSIS**

 **With CONSULT-III**

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

Is any DTC detected?

YES >> GO TO 7.

NO >> GO TO 6.

**6. CHECK SYMPTOM**

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

Is the cause of the malfunction detected?

YES >> GO TO 8.

NO >> GO TO 10.

**7. CIRCUIT DIAGNOSIS**

Inspect the malfunctioning system indicated by the DTC code that is detected during self-diagnosis. Refer to [BCS-85, "DTC Index"](#).

>> GO TO 8.

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## DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[REGULAR GRADE]

---

### 8. REPAIR WORK

---

Repair or replace the malfunctioning part.

>> GO TO 9.

### 9. PERFORM SELF-DIAGNOSIS

---

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

Is any DTC detected?

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

### 10. FINAL CHECK

---

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

Dose the tire pressure warning lamp turn OFF?

- YES >> INSPECTION END  
NO >> GO TO 2.

# ADDITIONAL SERVICE WHEN REPLACING BCM

< BASIC INSPECTION >

[REGULAR GRADE]

## ADDITIONAL SERVICE WHEN REPLACING BCM

### Description

INFOID:000000006862344

When replacing BCM, transmitter ID registration is required.

### Work Procedure

INFOID:000000006862345

#### 1. PERFORM TRANSMITTER ID REGISTRATION

Perform transmitter ID registration.

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

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# TRANSMITTER WAKE UP OPERATION

< BASIC INSPECTION >

[REGULAR GRADE]

## TRANSMITTER WAKE UP OPERATION

### Description

INFOID:000000006353409

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

### Work Procedure

INFOID:000000006353410

#### 1. TRANSMITTER WAKE-UP PROCEDURE

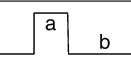
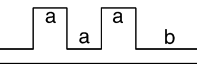
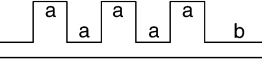
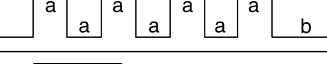
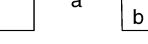
1. Turn the ignition switch ON.

**CAUTION:**

**Never start the engine.**

**NOTE:**

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

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

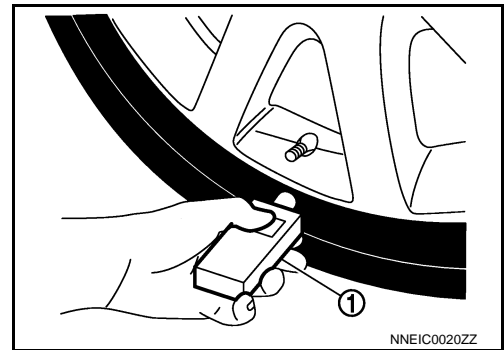
JPEIC0089GB

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

**CAUTION:**

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

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



NNEIC0020ZZ

Is the transmitter wake-up procedure completed?

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

# ID REGISTRATION PROCEDURE

< BASIC INSPECTION >

[REGULAR GRADE]

## ID REGISTRATION PROCEDURE

### Description

INFOID:000000006353411

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

### Work Procedure

INFOID:000000006353412

#### 1. TRANSMITTER ID REGISTRATION PROCEDURE

Ⓜ With CONSULT-III.

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

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

YES >> GO TO 2.

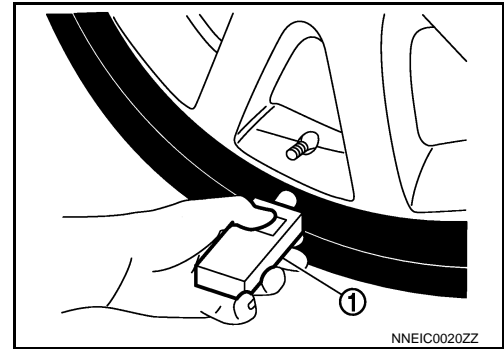
NO >> GO TO 3.

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

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

**CAUTION:**

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



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

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

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

Is the check result normal?

YES >> ID registration END.

NO >> Performs trouble-diagnosis of the Tire Pressure Monitoring System (TPMS). Refer to [BCS-85](#), "DTC Index".

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

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

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

## ID REGISTRATION PROCEDURE

< BASIC INSPECTION >

[REGULAR GRADE]

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

| ID registration position | CONSULT-III           |
|--------------------------|-----------------------|
| Front LH                 | "Red"<br>↓<br>"Green" |
| Front RH                 |                       |
| Rear RH                  |                       |
| Rear LH                  |                       |

4. Adjust the tire pressures for all wheels to the specified value. Refer to [WT-54, "Tire Air Pressure"](#).

Is ID registrations for all wheels completed?

YES >> ID registration END.

NO >> Performs trouble-diagnosis of the Tire Pressure Monitoring System (TPMS). Refer to [BCS-85, "DTC Index"](#).

# C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

## DTC/CIRCUIT DIAGNOSIS

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

#### Description

INFOID:000000006353415

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

#### DTC Logic

INFOID:000000006353416

#### DTC DETECTION LOGIC

| DTC   | Display item    | Malfunction detected condition   | Possible cause                                   |
|-------|-----------------|--|--|
| C1704 | LOW PRESSURE FL | Front LH tire pressure drops to * kPa (* kg/cm <sup>2</sup> , * psi) or less. [NOTE] | • Low tire pressure<br>• Transmitter malfunction |
| C1705 | LOW PRESSURE FR | Front RH tire pressure drops to * kPa (* kg/cm <sup>2</sup> , * psi) or less. [NOTE] |  |
| C1706 | LOW PRESSURE RR | Rear RH tire pressure drops to * kPa (* kg/cm <sup>2</sup> , * psi) or less. [NOTE]  |  |
| C1707 | LOW PRESSURE RL | Rear LH tire pressure drops to * kPa (* kg/cm <sup>2</sup> , * psi) or less. [NOTE]  |  |

#### NOTE:

- 189.6 kPa (1.9 kg/cm<sup>2</sup>, 27 psi): Standard air pressure is for 240 kPa (2.4 kg/cm<sup>2</sup>, 35 psi) vehicles.
- 205.1 kPa (2.1 kg/cm<sup>2</sup>, 30 psi): Standard air pressure is for 260 kPa (2.6 kg/cm<sup>2</sup>, 38 psi) vehicles.

#### DTC CONFIRMATION PROCEDURE

##### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT-III

1. Turn the ignition switch ON.

#### CAUTION:

**Never start the engine.**

2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-54, "Tire Air Pressure"](#).
3. Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

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

- YES >> Perform trouble diagnosis. Refer to [WT-23, "Diagnosis Procedure"](#).  
NO >> INSPECTION END

#### Diagnosis Procedure

INFOID:000000006353417

##### 1. CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to [WT-54, "Tire Air Pressure"](#).

Is the inspection result normal?

- YES >> Replace the DTC-detected malfunctioning transmitter. Refer to [WT-51, "Exploded View"](#).  
NO >> After adjusting the air pressure, GO TO 2.

##### 2. CHECK TIRE PRESSURE SIGNAL

Ⓜ With CONSULT-III

1. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
2. 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.

# C1704, C1705, C1706, C1707 LOW TIRE PRESSURE

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

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

## CAUTION:

Stop the vehicle and within 5 minutes, use “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:000000006353418

### 1.CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-54, "Tire Air Pressure"](#).

Does all tire pressure data meet the specification?

YES >> GO TO 2.

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

### 2.PERFORM ID REGISTRATION

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

>> END



# C1708, C1709, C1710, C1711 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

## C1708, C1709, C1710, C1711 TRANSMITTER

### DTC Logic

INFOID:000000006353419

### DTC DETECTION LOGIC

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

### DTC CONFIRMATION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT-III

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

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

- YES >> Perform trouble diagnosis. Refer to [WT-25, "Diagnosis Procedure"](#).  
 NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000006353420

#### 1. CHECK TIRE PRESSURE SIGNAL

Ⓜ With CONSULT-III

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

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

#### CAUTION:

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

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

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

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

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

# C1708, C1709, C1710, C1711 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

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

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

## 3. CHECK TIRE PRESSURE RECEIVER POWER SUPPLY CIRCUIT

1. Connect the BCM harness connector.

2. Turn the ignition switch ON.

**CAUTION:**

**Never start the engine.**

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

| BCM       |          | —      | Voltage |
|-----------|----------|--------|---------|
| Connector | Terminal |        |         |
| M123      | 138      | Ground | 5 V     |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace damaged parts.

## 4. CHECK TIRE PRESSURE RECEIVER

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace tire pressure receiver. Refer to [WT-53, "Removal and Installation"](#).

## 5. CHECK ID REGISTRATION

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

Can ID registration of all transmitters be completed?

YES >> GO TO 6.

NO >> Replace transmitter. Refer to [WT-51, "Exploded View"](#).

## 6. CHECK TIRE PRESSURE MONITORING SYSTEM

 With CONSULT-III

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

2. 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 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

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

## CAUTION:

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

Is the inspection result normal?

YES >> Replace the DTC-detected malfunctioning transmitter. Refer to [WT-51, "Exploded View"](#).

NO >> Replace BCM. Refer to [BCS-92, "Exploded View"](#).

## Special Repair Requirement

INFOID:000000006353421

WT

### 1. CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-54, "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

# C1716, C1717, C1718, C1719 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

## C1716, C1717, C1718, C1719 TRANSMITTER

### DTC Logic

INFOID:000000006353422

#### DTC DETECTION LOGIC

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

#### DTC CONFIRMATION PROCEDURE

##### 1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT-III

1. Turn the ignition switch ON.

**CAUTION:**

**Never start the engine.**

2. Check the tire pressure for all wheels and adjust to the specified value. Refer to [WT-54, "Tire Air Pressure"](#).
3. Perform "SELF-DIAG RESULTS" in "AIR PRESSURE MONITOR" of "BCM".

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

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

NO >> INSPECTION END

#### Diagnosis Procedure

INFOID:000000006353423

##### 1. CHECK TIRE PRESSURE

Check the internal pressure of all wheels. Refer to [WT-54, "Tire Air Pressure"](#).

Is the inspection result normal?

YES >> Replace the DTC-detected malfunctioning transmitter. Refer to [WT-51, "Exploded View"](#).

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

##### 2. CHECK TIRE PRESSURE SIGNAL

Ⓜ With CONSULT-III

1. Check and adjust the tire pressure for all wheels. Refer to [WT-54, "Tire Air Pressure"](#).
2. Perform transmitter ID registration for all wheels. Refer to [WT-21, "Work Procedure"](#).
3. Drive for 3 minutes at a speed of 40 km/h (25 MPH) or more, then drive normally for 10 minutes.
4. Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
5. Select "BCM" in "DATA MONITOR", and check that the tire pressures match the standard value.

**CAUTION:**

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

6. Check that "DATA MONITOR" displays tire pressure of 438.60 kPa (4.47 kg/cm<sup>2</sup>, 63.60 Psi).

Is the inspection 438.60 kPa (4.47 kg/cm<sup>2</sup>, 63.60 Psi)?

YES >> Replace transmitter the tire pressure 438.60 kPa (4.386 bar, 4.47 kg/cm<sup>2</sup>, 63.60 Psi) displayed. Refer to [WT-51, "Exploded View"](#).

NO >> GO TO 1.

# C1716, C1717, C1718, C1719 TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

## Special Repair Requirement

INFOID:000000006353424

### 1.CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-54, "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

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# C1729 VEHICLE SPEED SIGNAL

[REGULAR GRADE]

< DTC/CIRCUIT DIAGNOSIS >

## C1729 VEHICLE SPEED SIGNAL

### Description

INFOID:000000006353425

BCM detects no vehicle speed signal.

### DTC Logic

INFOID:000000006353426

### DTC DETECTION LOGIC

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

### DTC CONFIRMATION PROCEDURE

#### 1. DTC REPRODUCTION PROCEDURE

④ With CONSULT-III

- 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:000000006353427

#### 1. PERFORM COMBINATION METER SELF-DIAGNOSIS

④ With CONSULT-III

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

Is any DTC detected?

- YES >> Check the DTC. Refer to [BCS-85, "DTC Index"](#).  
NO >> GO TO 2.

#### 2. PERFORM SELF-DIAGNOSIS

④ With CONSULT-III

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

Is DTC "C1729" detected?

- YES >> Replace BCM. Refer to [WT-9, "COMMON ITEM : CONSULT-III Function \(BCM - COMMON ITEM\)"](#).  
NO >> GO TO 3.

#### 3. CHECK INFORMATION

④ With CONSULT-III

- Perform "DATA MONITOR" in "AIR PRESSURE MONITOR" of "BCM".
- Select "BCM" in "DATA MONITOR", and check the input/output values. Refer to [BCS-51, "Reference Value"](#).

Is the inspection result normal?

- YES >> Check pin terminal and connection of each harness connector for malfunctioning conditions.  
NO >> Replace BCM. Refer to [BCS-92, "Exploded View"](#).

### Special Repair Requirement

INFOID:000000006353428

#### 1. CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-54, "Tire Air Pressure"](#).

Does all tire pressure data meet the specification?

- YES >> GO TO 2.

# C1729 VEHICLE SPEED SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

---

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

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C1734 BCM

DTC Logic

INFOID:000000006353429

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. DTC REPRODUCTION PROCEDURE

Ⓜ With CONSULT-III

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

**CAUTION:**

**Perform within 15 minutes after stop the vehicle.**

Is DTC "C1734" detected?

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

Diagnosis Procedure

INFOID:000000006353430

1. CHECK BCM POWER SUPPLY

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

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

Is the power supply normal?

- YES >> GO TO 2.  
 NO >> Check the following. If any items are damaged, repair or replace damage parts.
- 40A fusible link [No. K located in the fuse block]. Refer to [PG-113, "Fuse and Fusible Link Arrangement"](#).
  - 10A fuse [No. 10 located in the fuse block (J/B)]. Refer to [PG-114, "Fuse, Connector and Terminal Arrangement"](#).
  - Harness for short or open between battery and BCM harness connector M118 terminal 1.
  - Harness for short or open between battery and BCM harness connector M119 terminal 11.
  - Check the Battery voltage.

2. CHECK BCM GROUND

Check the continuity between BCM harness connector and ground.

| BCM       |          | —      | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal |        |            |
| M119      | 13       | Ground | Existed    |

Is the inspection result normal?

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

3. CHECK HARNESS BETWEEN BCM AND TIRE PRESSURE RECEIVER

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



# C1734 BCM

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

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

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

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

Is the inspection result normal?

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

## 4.CHECK BCM

Check the BCM input/output signal. Refer to [BCS-51, "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-92, "Exploded View"](#).
- NO >> Check for looseness or damage at the harness connector pins of the low tire pressure warning control unit. Repair or replace if necessary.

## Special Repair Requirement

INFOID:000000006353431

## 1.CHECK TIRE PRESSURE

Check all tires for tire pressures. Refer to [WT-54, "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

# TIRE PRESSURE RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

## TIRE PRESSURE RECEIVER

### Component Function Check

INFOID:000000006353432

#### 1. TIRE PRESSURE MONITORING SYSTEM OPERATION

④ With CONSULT-III

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

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

#### CAUTION:

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

Is the inspection result normal?

YES >> INSPECTION END

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

### Diagnosis Procedure

INFOID:000000006353433

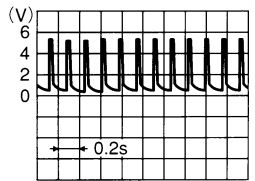
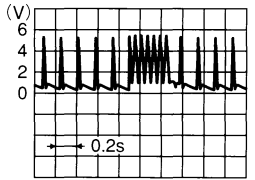
#### 1. CHECK TIRE PRESSURE RECEIVER SIGNAL

1. Turn the ignition switch ON.

#### CAUTION:

Never start the engine.

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

| Tire pressure receiver |          | —      | Condition                                      | Voltage (Approx.)   |
|------------------------|----------|--------|--|---|
| Connector              | Terminal |        |  |   |
| M101                   | 2        | Ground | Stand by state                                 |  <p>OCC3881D</p> |
|                        |          |        | When receiving the signal from the transmitter |  <p>OCC3880D</p> |

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 >

[REGULAR GRADE]

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

### 3. CHECK TIRE PRESSURE RECEIVER GROUND CIRCUIT

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

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

3. Check continuity between BCM harness connector and ground.

| BCM       |          | —      | Continuity  |
|-----------|----------|--------|-------------|
| Connector | Terminal |        |             |
| M123      | 137      | Ground | Not existed |

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace damaged parts.

### 4. CHECK BCM CIRCUIT

Inspect the BCM circuit. Refer to [BCS-46, "Diagnosis Procedure"](#).

Is the BCM circuit normal?

YES >> Replace tire pressure receiver. Refer to [WT-53, "Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-92, "Exploded View"](#).

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# LOW TIRE PRESSURE WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

## LOW TIRE PRESSURE WARNING LAMP

### Component Function Check

INFOID:000000006353436

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

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

Is the inspection result normal?

YES >> INSPECTION END

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

### Diagnosis Procedure

INFOID:000000006353437

#### 1. POWER SUPPLY AND GROUND CIRCUIT

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace damaged parts.

#### 2. PERFORM SELF-DIAGNOSIS

Ⓜ With CONSULT-III

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

Is any DTC detected?

YES >> Check the DTC. Refer to [BCS-85, "DTC Index"](#).

NO >> GO TO 3.

#### 3. CHECK LOW TIRE PRESSURE WARNING LAMP SIGNAL

Ⓜ With CONSULT-III

1. Turn the ignition switch ON.

**CAUTION:**

**Never start the engine.**

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

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

Is the inspection result normal?

YES >> Check the combination meter. Refer to [MWI-45, "COMBINATION METER : Diagnosis Procedure"](#).

NO >> Replace the BCM. Refer to [BCS-92, "Exploded View"](#).

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[REGULAR GRADE]

## POWER SUPPLY AND GROUND CIRCUIT

### Diagnosis Procedure

INFOID:000000006353438

#### 1. POWER SUPPLY SYSTEM CHECK

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

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

Is the inspection result normal?

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

#### 2. GROUND SYSTEM INSPECTION

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

| BCM       |          | —      | Continuity |
|-----------|----------|--------|------------|
| Connector | Terminal |        |            |
| M119      | 13       | Ground | Existed    |

Is the inspection result normal?

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

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# SYMPTOM DIAGNOSIS

## TPMS

### Symptom Table
















INFOID:000000006353439

### LOW TIRE PRESSURE WARNING LAMP SYMPTOM CHART

# TPMS

## < SYMPTOM DIAGNOSIS >

**[REGULAR GRADE]**


| Diagnosis items                | Symptom<br>(Ignition switch ON)   | Low tire pressure warning lamp  | Cause  | Action  |
|--------------------------------|---|---|--|---|
| Low tire pressure warning lamp | The low tire pressure warning lamp illuminates for 1 second, then turns OFF.                  |  <br>ON 1 sec > stays OFF<br><small>SEIA0592E</small>   | Wake-up operation for all transmitters at wheels is completed.     | No system malfunctions  |
|                                | The low tire pressure warning lamp repeats blinking ON for 2 seconds and OFF for 0.2 seconds. |  Blinks: <br>ON 2 sec > OFF 0.2 sec<br><small>SEIA0593E</small>   | Wake-up operation for all transmitters at wheels is not completed. | Perform the wake-up operation for all transmitters at wheels. Refer to <a href="#">WT-20, "Work Procedure"</a> .                |
|                                | The low tire pressure warning lamp blinks once.   | <br>Blinks 1 time<br>ON 0.3 sec > OFF 1.0 sec<br><small>JPEIC0090GB</small>  | The front left transmitter is not activated.                       | Perform the wake-up operation for the transmitter at front left wheel. Refer to <a href="#">WT-20, "Work Procedure"</a> .       |
|                                | The low tire pressure warning lamp repeats blinking twice.                                    |  <br>Blinks 2 times<br>ON 0.3 sec > OFF 0.3 sec<br><small>SEIA0595E</small>   | The front right transmitter is not activated.                      | Perform the wake-up operation for the transmitter at front right wheel. Refer to <a href="#">WT-20, "Work Procedure"</a> .      |
|                                | The low tire pressure warning lamp repeats blinking for 3 times.                              |   <br>Blinks 3 times<br>ON 0.3 sec > OFF 0.3 sec<br><small>SEIA0596E</small>   | The rear right transmitter is not activated.                       | Perform the wake-up operation for the transmitter at rear right wheel. Refer to <a href="#">WT-20, "Work Procedure"</a> .       |
|                                | The low tire pressure warning lamp repeats blinking for 4 times.                              |    <br>Blinks 4 times<br>ON 0.3 sec > OFF 0.3 sec<br><small>SEIA0597E</small> | The rear left transmitter is not activated.                        | Perform the wake-up operation for the transmitter at rear left wheel. Refer to <a href="#">WT-20, "Work Procedure"</a> .        |
|                                | The low tire pressure warning lamp turns ON and stays illuminated.                            | <br>Comes ON and stays ON<br><small>SEIA0598E</small>  | Low tire pressure  | Check the tire pressure for all wheels and adjust to the specified value. Refer to <a href="#">WT-54, "Tire Air Pressure"</a> . |

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# TPMS

## < SYMPTOM DIAGNOSIS >

**[REGULAR GRADE]**

| Diagnosis items                | Symptom<br>(Ignition switch ON)   | Low tire pressure warning lamp  | Cause   | Action   |
|--------------------------------|---|---|---|--|
| Low tire pressure warning lamp | The low tire pressure warning lamp repeats blinking at 0.5-second intervals for 1 minute, and then stays illuminated. |  <p style="text-align: center;">Blinks 1 min</p> <p style="text-align: center;">ON 0.5 sec &gt; OFF 0.5 sec and stays ON</p> <p style="text-align: center;"><small>SEIA0788E</small></p> | The combination meter fuse is open or removed (or pulled out).  | Check and install the combination meter fuse. If necessary, replace the fuse.  |
|                                |   |   | The low tire pressure warning control unit harness connector is removed.  | Check the connection conditions of the low tire pressure warning control unit harness connector, and repair if necessary.  |
|                                |   |   | Tire Pressure Monitoring System (TPMS) malfunction.   | <ul style="list-style-type: none"> <li>• Perform CONSULT-III self-diagnosis. Refer to <a href="#">WT-9, "COMMON ITEM: CONSULT-III Function (BCM - COMMON ITEM)"</a>.</li> <li>• If necessary, perform transmitter ID registration. Refer to <a href="#">WT-21, "Work Procedure"</a>.</li> </ul>  |
| Turn signal lamp               | The turn signal lamps do not blink twice when the transmitter is activated. Or the buzzer does not sound.             | —   | <ol style="list-style-type: none"> <li>1. The transmitter activation tool (J-45295) does not activate.</li> <li>2. The ignition switch is OFF when the transmitter wake-up operation is performed.</li> <li>3. The transmitter activation tool (J-45295) is not used in the correct position.</li> <li>4. The transmitter is already waked up.</li> </ol> | <ol style="list-style-type: none"> <li>1. Replace the battery in the transmitter activation tool (J-45295).</li> <li>2. Turn the ignition switch ON when performing the transmitter wake-up operation.</li> <li>3. Operate the transmitter activation tool (J-45295) in the correct position when performing the wake-up operation.</li> <li>4. No procedure.</li> </ol> |

**NOTE:**

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

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



# LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

## LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN ON

### Description

INFOID:000000006353440

### DESCRIPTION

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

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

### Diagnosis Procedure

INFOID:000000006353441

#### 1.CHECK LOW TIRE PRESSURE WARNING LAMP

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

Is the inspection result normal?

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

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# LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

## LOW TIRE PRESSURE WARNING LAMP DOES NOT TURN OFF

### Description

INFOID:000000006353442

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

### Diagnosis Procedure

INFOID:000000006353443

#### 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-54, "Tire Air Pressure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Inspect or repair the tires or wheels.

#### 2. CHECK LOW TIRE PRESSURE WARNING LAMP

Check low tire pressure warning lamp display.

Does not low tire pressure warning lamp turn OFF?

YES >> GO TO 3.

NO >> INSPECTION END

#### 3. CHECK BCM

Ⓟ With CONSULT-III

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

Is any DTC detected?

YES >> Check the DTC. Refer to [BCS-85, "DTC Index"](#).

NO >> GO TO 4.

#### 4. CHECK BCM POWER SUPPLY AND GROUND

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

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

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-92, "Exploded View"](#).

NO >> Repair or replace damaged parts.

# LOW TIRE PRESSURE WARNING LAMP BLINKS

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

## LOW TIRE PRESSURE WARNING LAMP BLINKS

### Description

INFOID:000000006882332

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

**NOTE:**

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

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

JPEIC0089GB

### Diagnosis Procedure

INFOID:000000006882333

#### 1. TRANSMITTER WAKE-UP OPERATION

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

Is the transmitter wake-up completed?

YES >> GO TO 2.

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

#### 2. TRANSMITTER ID REGISTRATION

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

Is transmitter ID registration completed?

YES >> INSPECTION END

NO >> Perform the self-diagnosis for "AIR PRESSURE MONITOR". Refer to [BCS-85, "DTC Index"](#).

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# ID REGISTRATION CANNOT BE COMPLETED

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

## ID REGISTRATION CANNOT BE COMPLETED

### Description

INFOID:000000006862435

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

### Diagnosis Procedure

INFOID:000000006862436

#### 1. TRANSMITTER WAKE-UP

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

Is the transmitter wake-up completed?

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

#### 2. CHECK ACTIVATION TOOL

Check activation tool.

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Replace battery for activation tool, or repair or replace activation tool.

#### 3. TRANSMITTER ID REGISTRATION

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

Is transmitter ID registration completed?

- YES >> GO TO 4.
- NO >> Change the work location and perform ID registration again.

#### 4. CHECK TIRE PRESSURE SIGNAL

##### With CONSULT-III

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

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

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Change the work location, then GO TO 3.

# NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

< SYMPTOM DIAGNOSIS >

[REGULAR GRADE]

## NOISE, VIBRATION AND HARSHNESS (NVH) TROUBLESHOOTING

### NVH Troubleshooting Chart

INFOID:000000006353451

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

| Symptom    |                               | Possible cause and SUSPECTED PARTS |              |           |                         |                  |                       |                |                     |                 |              |                                 |                               |       |             | Reference page |       |          |                                    |
|------------|-------------------------------|------------------------------------|--------------|-----------|-------------------------|------------------|-----------------------|----------------|---------------------|-----------------|--------------|---------------------------------|-------------------------------|-------|-------------|----------------|-------|----------|------------------------------------|
|            |                               | Improper installation, looseness   | Out-of-round | unbalance | Incorrect tire pressure | Uneven tire wear | Deformation or damage | Non-uniformity | Incorrect tire size | PROPELLER SHAFT | DIFFERENTIAL | FRONT AXLE AND FRONT SUSPENSION | REAR AXLE AND REAR SUSPENSION | TIRES | ROAD WHEELS | DRIVE SHAFT    | BRAKE | STEERING |                                    |
| TIRES      | Noise                         | x                                  | x            | x         | x                       | x                | x                     | x              |                     | x               | x            | x                               | x                             |       | x           | x              | x     | x        | FSU-10, FSU-13                     |
|            | Shake                         | x                                  | x            | x         | x                       | x                | x                     |                | x                   | x               | x            | x                               |                               | x     | x           | x              | x     | x        | WT-49, "Inspection"                |
|            | Vibration                     |                                    |              |           | x                       |                  |                       |                | x                   | x               |              | x                               | x                             |       |             |                |       |          | WT-46, "Adjustment"                |
|            | Shimmy                        | x                                  | x            | x         | x                       | x                | x                     | x              | x                   |                 |              | x                               | x                             |       | x           |                | x     | x        | WT-54, "Tire Air Pressure"         |
|            | Judder                        | x                                  | x            | x         | x                       | x                | x                     |                | x                   |                 |              | x                               | x                             |       | x           |                | x     | x        | WT-46, "Adjustment"                |
|            | Poor quality ride or handling | x                                  | x            | x         | x                       | x                | x                     |                | x                   |                 |              | x                               |                               | x     | x           |                |       |          | —                                  |
|            |                               |                                    |              |           |                         |                  |                       |                |                     |                 |              |                                 |                               |       |             |                |       |          | —                                  |
| ROAD WHEEL | Noise                         | x                                  | x            | x         |                         |                  | x                     |                |                     | x               | x            | x                               | x                             | x     |             | x              | x     | x        | WT-54, "Tire Air Pressure"         |
|            | Shake                         | x                                  | x            | x         |                         |                  | x                     |                |                     | x               |              | x                               | x                             | x     |             | x              | x     | x        | NVH in DLN section.                |
|            | Shimmy, Judder                | x                                  | x            | x         |                         |                  | x                     |                |                     |                 |              | x                               | x                             | x     |             |                | x     | x        | NVH in DLN section.                |
|            | Poor quality ride or handling | x                                  | x            | x         |                         |                  |                       |                |                     |                 |              | x                               | x                             | x     |             |                |       |          | 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 RAX section.                |
|            |                               |                                    |              |           |                         |                  |                       |                |                     |                 |              |                                 |                               |       |             |                |       |          | NVH in BR section.                 |
|            |                               |                                    |              |           |                         |                  |                       |                |                     |                 |              |                                 |                               |       |             |                |       |          | NVH in ST section.                 |

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## PERIODIC MAINTENANCE

### ROAD WHEEL TIRE ASSEMBLY

#### Adjustment

INFOID:000000006353452

#### BALANCING WHEELS (BONDING WEIGHT TYPE)

##### Preparation Before Adjustment

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

##### CAUTION:

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

##### Wheel Balance Adjustment

If a tire balance machine has adhesion balance weight mode settings and drive-in weight mode setting, select and adjust a drive-in weight mode suitable for road wheels.

1. Set road wheel on tire balance machine using the center hole as a guide. Start the tire balance machine.
2. When inner and outer unbalance values are shown on the tire balance machine indicator, multiply outer unbalance value by  $5/3$  to determine balance weight that should be used. Select the outer balance weight with a value closest to the calculated value above and install to the designated outer position of, or at the designated angle in relation to the road wheel.

##### CAUTION:

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

- a. Indicated unbalance value  $\times 5/3 =$  balance weight to be installed

##### Calculation example:

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

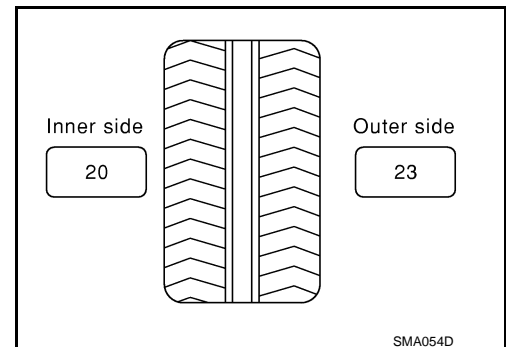
##### NOTE:

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

##### Example:

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

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



- b. Installed balance weight in the position.

# ROAD WHEEL TIRE ASSEMBLY

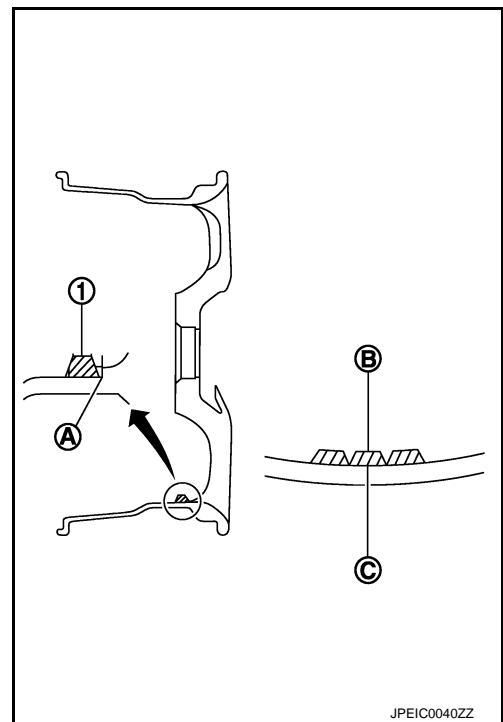
< PERIODIC MAINTENANCE >

[REGULAR GRADE]

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

**CAUTION:**

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



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

**CAUTION:**

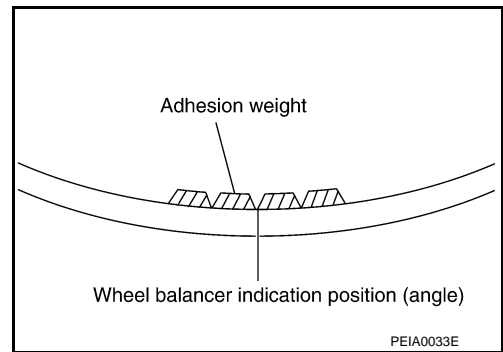
**Do not install one balance weight sheet on top of another.**

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

**CAUTION:**

**Do not install more than two balance weight.**

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



**Limit**

**Dynamic (At flange) : Refer to [WT-54, "Road Wheel"](#).**

**Static (At flange) : Refer to [WT-54, "Road Wheel"](#).**

## TIRE ROTATION

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

**Wheel nuts tightening torque : Refer to [WT-54, "Road Wheel"](#).**

**CAUTION:**

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

Safety Device Preventing from Being Incorrectly installed

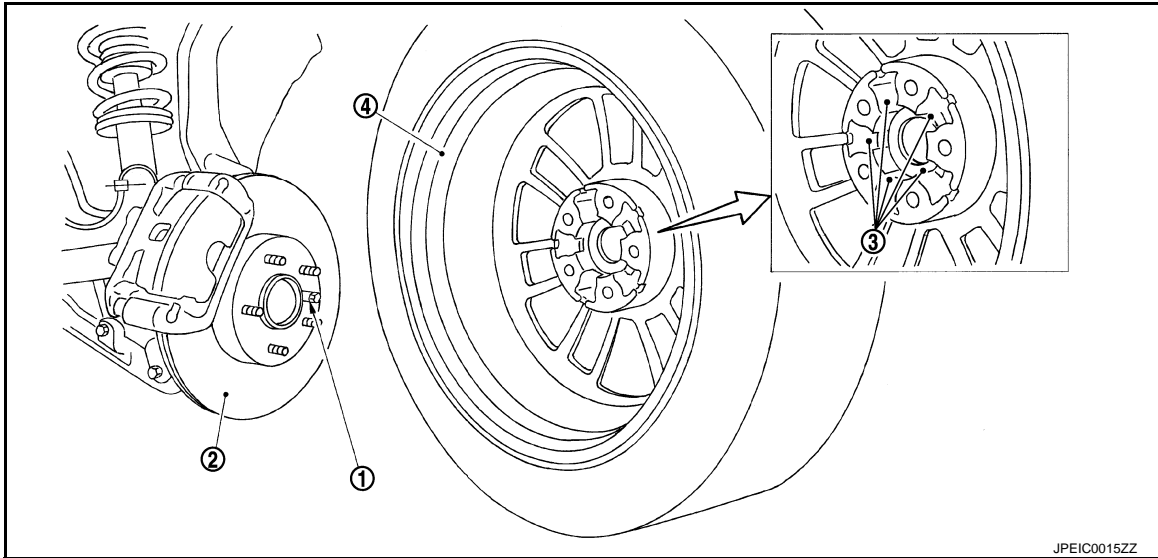
FRONT BRAKE DISC ROTOR AND FRONT WHEEL

## ROAD WHEEL TIRE ASSEMBLY

< PERIODIC MAINTENANCE >

[REGULAR GRADE]

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

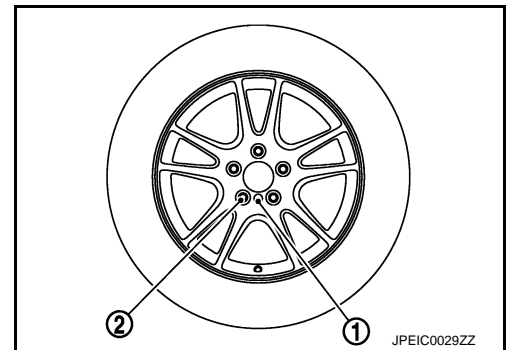


### T-TYPE SPARE TIRE WHEEL

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

**NOTE:**

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



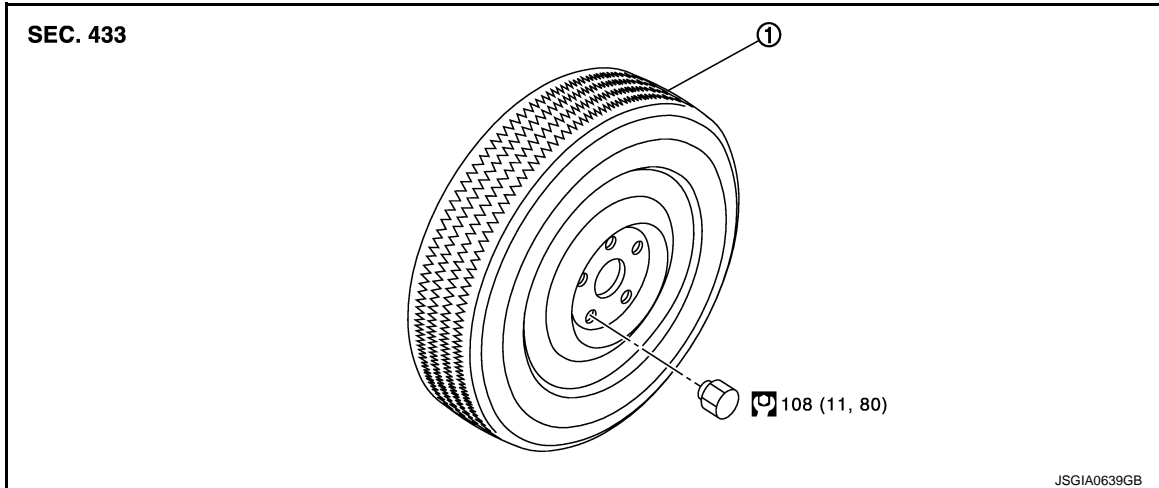


## REMOVAL AND INSTALLATION

### ROAD WHEEL TIRE ASSEMBLY

#### Exploded View

INFOID:000000006353453



1. Tire assembly

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

### Removal and Installation

INFOID:000000006353454

#### REMOVAL

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

#### INSTALLATION

Install in the reverse order of removal.

#### Inspection

INFOID:000000006353455

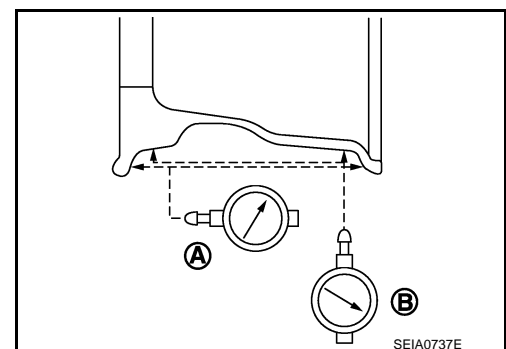
#### ALUMINUM WHEEL

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

#### Limit

**A:** Refer to [WT-54, "Road Wheel"](#).

**B:** Refer to [WT-54, "Road Wheel"](#).



#### STEEL WHEEL

1. Check tires for were and improper inflation.

# ROAD WHEEL TIRE ASSEMBLY

[REGULAR GRADE]

## < REMOVAL AND INSTALLATION >

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

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

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

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

**CAUTION:**

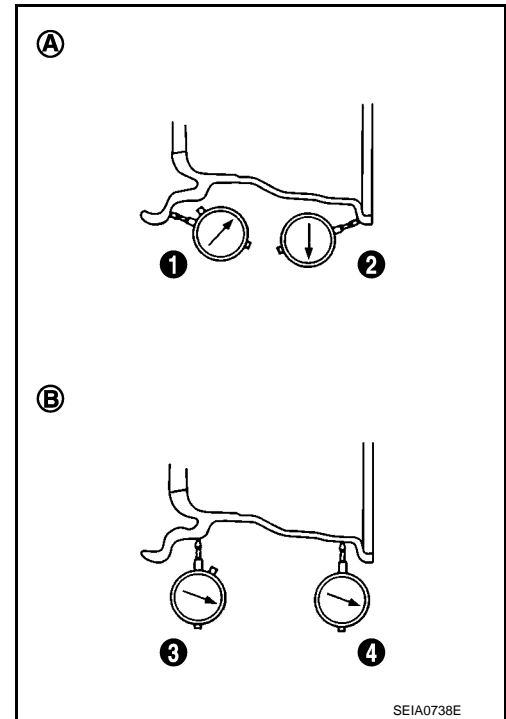
**In case a positive or negative value is not available, use the maximum value (negative or positive) for total runout.**

**Limit**

**A:** Refer to [WT-54, "Road Wheel"](#).

**B:** Refer to [WT-54, "Road Wheel"](#).

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



## How to Handle Puncture Repair Agent (With Puncture Repair Kit)

INFOID:000000006862437

**CAUTION:**

- Never spill the sealant in the tire during repair.
- If the sealant spills, wipe it out with a waste cloth.
- Never reuse the repair kit hose used for a temporary repair of a flat tire because some of the puncture repair agent remains in the hose.

1. Remove tires from the vehicle.
2. Remove tire from road wheel, using a tire chenger.

**CAUTION:**

- When deflating a tire, cover the valve with a waste cloth to prevent the sealant from splattering.
- Never spill the sealant in the tire during repair.

3. Dispose of sealant in the removed tire.

**CAUTION:**

- Wipe out sealant spilled on the road wheel, tire, tire chenger, and floor with a waste cloth.
- Drained sealant or expired sealant returned by the customer must be disposed according to the law and local regulations.
- Fix a tire blowout, if repairable.

**NOTE:**

Sealant blocks holes caused by blowouts. These holes may not be found and repaired, depending on the level of blowout. Therefore, it is necessary to check tire air pressure frequently and replace tire with a new one, if the air pressure is decreasing.

- Replace tire with a new one, if not repairable.

**CAUTION:**

**Never dispose of tires with the sealant contained.**

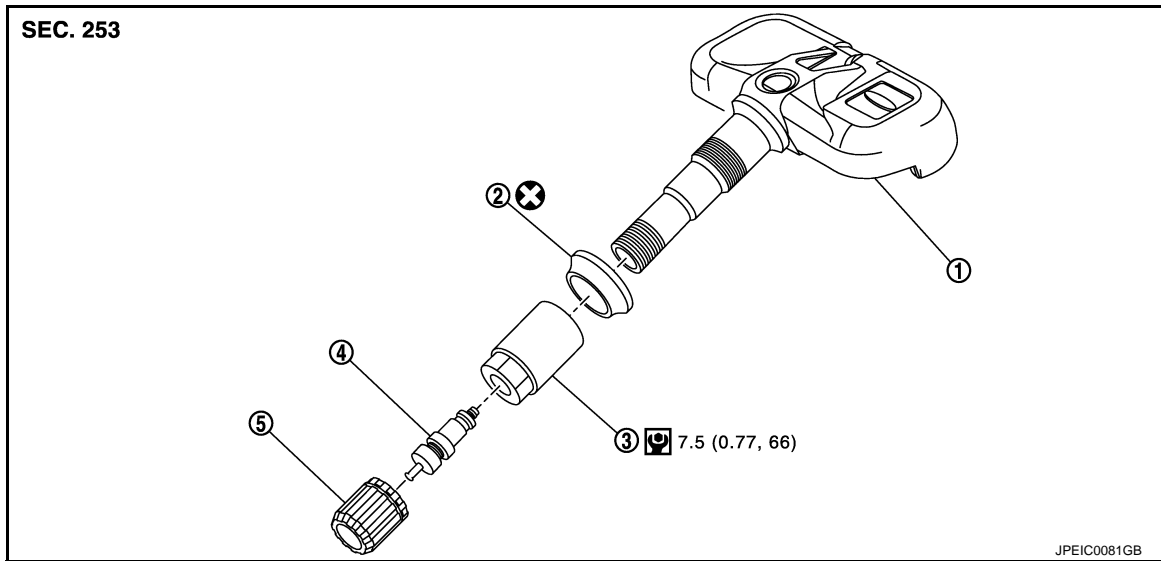
# TRANSMITTER

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

## TRANSMITTER

### Exploded View



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

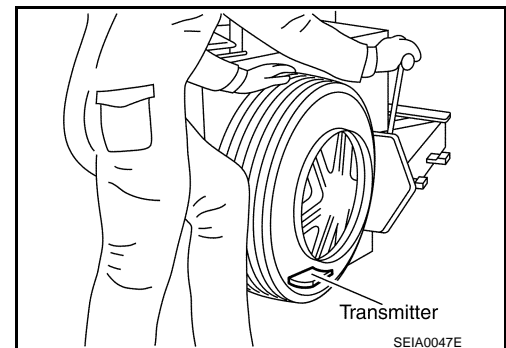
Refer to [GI-4, "Components"](#) for symbols in figure.

### Removal and Installation

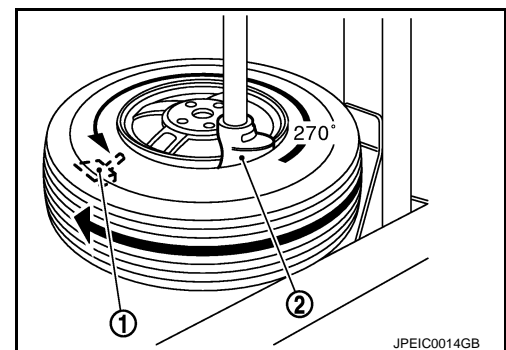
INFOID:000000006353457

#### REMOVAL

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



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



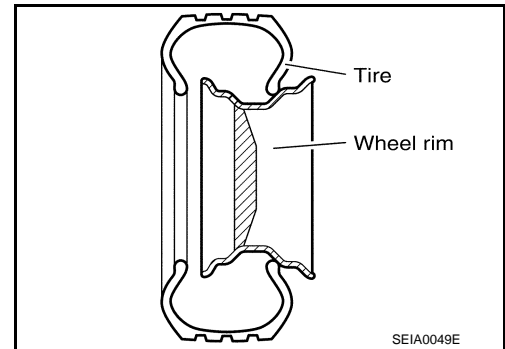
#### INSTALLATION

# TRANSMITTER

## < REMOVAL AND INSTALLATION >

[REGULAR GRADE]

1. Put first side of tire onto rim.



2. Mount transmitter on rim and tighten nut.

**CAUTION:**

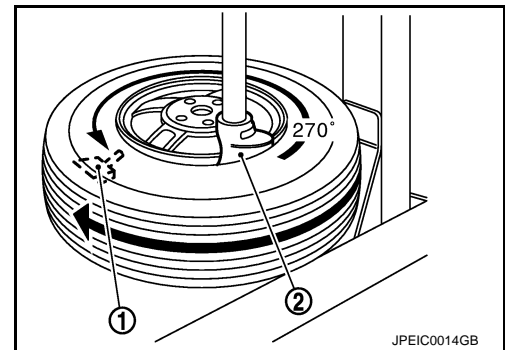
**Speed for tightening nut should be less than 10 rpm.**

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

**NOTE:**

Do not touch transmitter at mounting head.

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



# TIRE PRESSURE RECEIVER

< REMOVAL AND INSTALLATION >

[REGULAR GRADE]

## TIRE PRESSURE RECEIVER

### Removal and Installation

INFOID:000000006353458

#### REMOVAL

1. Remove the glove box assembly. Refer to [IP-14, "Exploded View"](#).
2. Remove the instrument lower panel RH. Refer to [IP-14, "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.

A

B

C

D

WT

F

G

H

I

J

K

L

M

N

O

P

# SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

[REGULAR GRADE]

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### Road Wheel

INFOID:000000006353459

#### CONVENTIONAL

| Item                |                     | Limit                              |
|---------------------|---------------------|------------------------------------|
| Radial runout       | Lateral deflection  | Less than 0.3 mm (0.012 in)        |
|                     | Vertical deflection |                                    |
| Allowable unbalance | Dynamic (At flange) | Less than 5 g (0.17 oz) (one side) |
|                     | Static (At flange)  | Less than 10 g (0.35 oz)           |

#### EMERGENCY

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

#### Tire Air Pressure

INFOID:000000006353460

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

| Tire size     | Air pressure  |               |               |               |
|---------------|---------------|---------------|---------------|---------------|
|               | Front         |               | Rear          |               |
|               | Coupe         | Roadster      | Coupe         | Roadster      |
| 225/50R18 95W | 240 (2.4, 35) | 260 (2.6, 38) | -             |               |
| 245/45R18 96W | -             |               | 240 (2.4, 35) | 260 (2.6, 38) |
| 245/40R19 94W | 240 (2.4, 35) |               | -             |               |
| 275/35R19 96W | -             |               | 240 (2.4, 35) |               |
| T145/80D17    | 420 (4.2, 60) |               | 420 (4.2, 60) |               |
| T145/70R18    | 420 (4.2, 60) |               | 420 (4.2, 60) |               |

# ROAD WHEEL TIRE ASSEMBLY

< SPEC CHANGE INFORMATION >

[Nismo 370Z]

## SPEC CHANGE INFORMATION

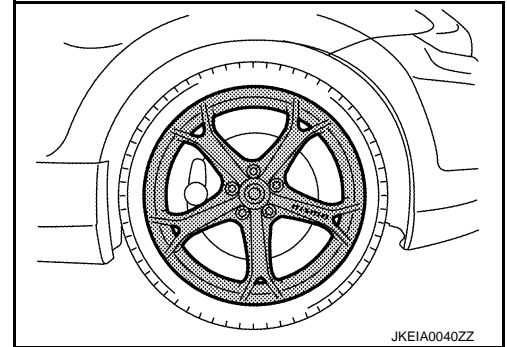
### ROAD WHEEL TIRE ASSEMBLY

#### Road Wheel Tire Assembly

INFOID:000000006353461

- Dedicated aluminum wheels adopted.

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



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