

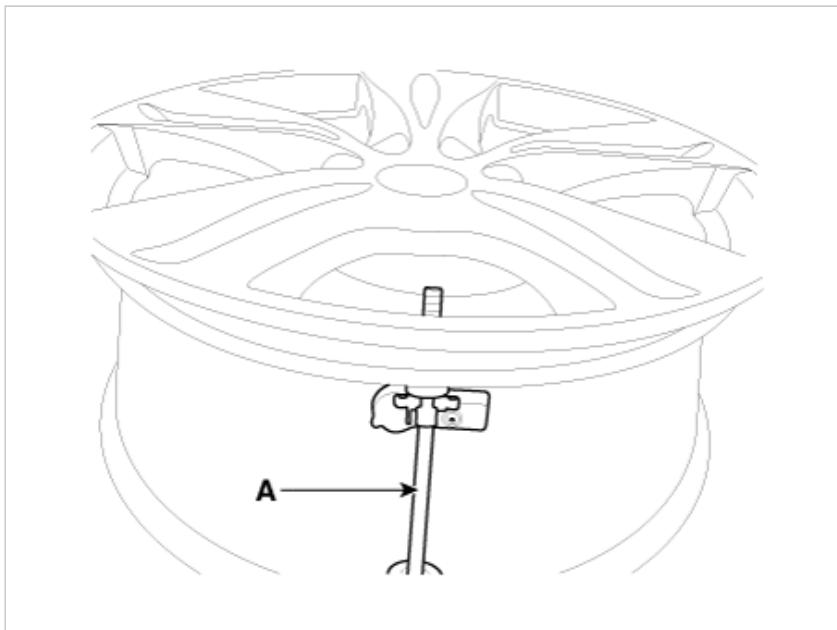


Removal

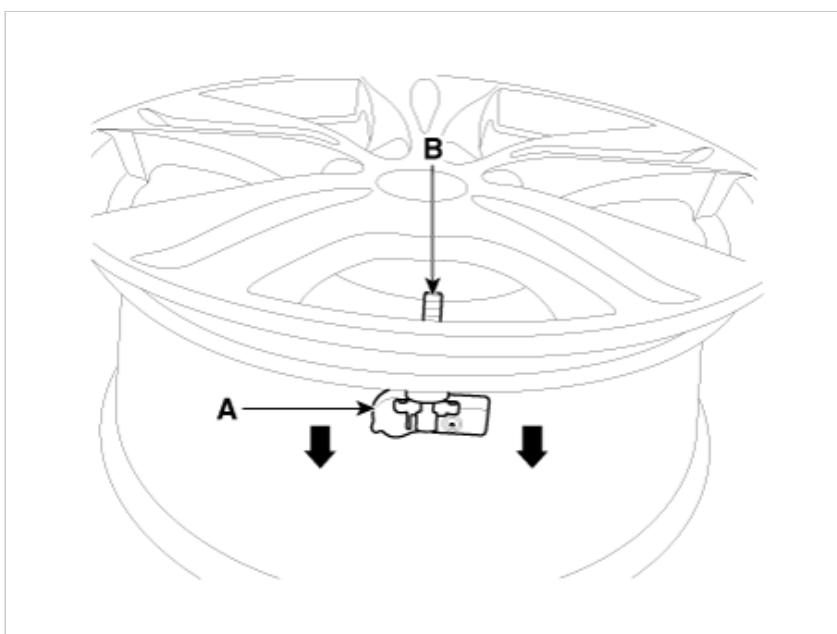
1. Remove the tire.
(Refer to Tires/Wheels - "Tire")
2. Remove the screw with torx driver (A).

CAUTION

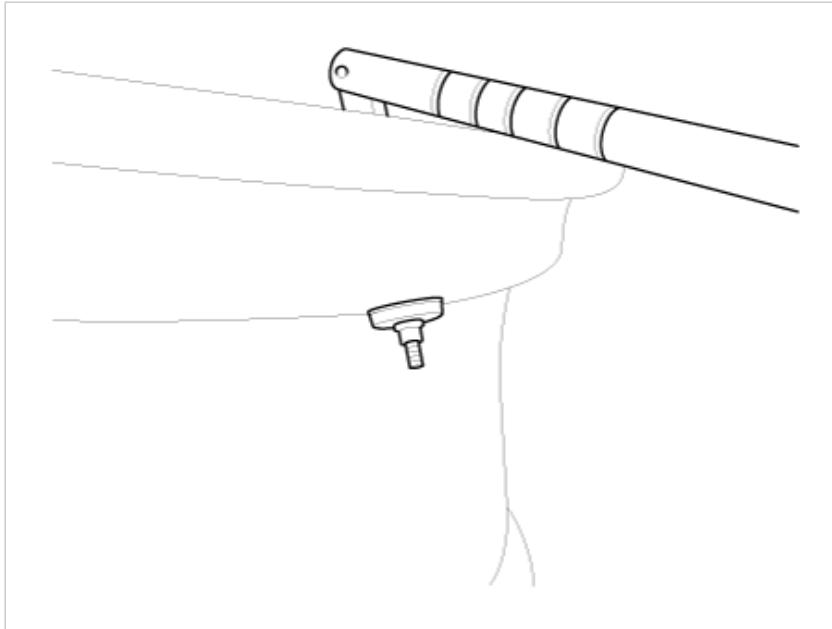
- When installing the bead brake, make sure that it does not come in contact with the TPMS sensor.
- Be careful not to damage the TPMS sensor when installing the bead brake near the TPMS sensor.



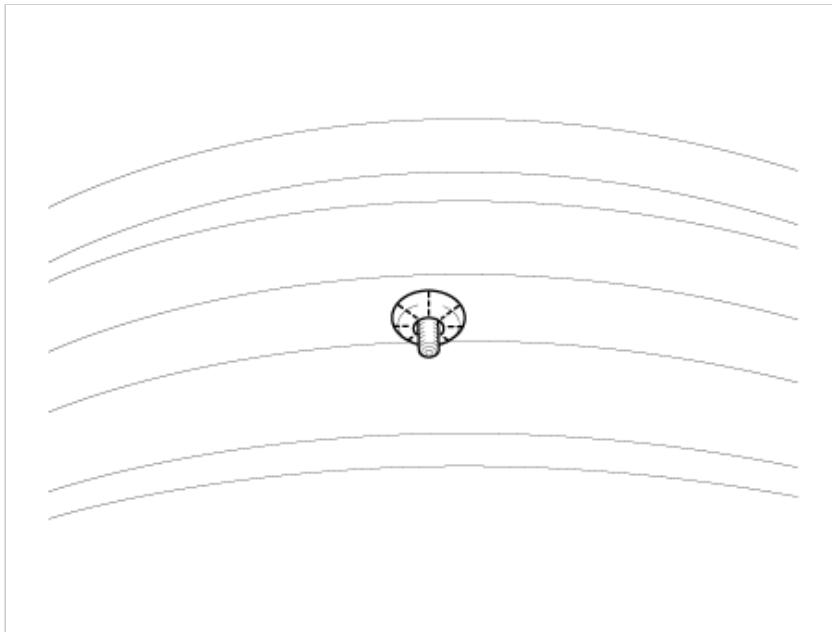
3. Remove the sensor body (A) from the valve (B) in the direction of the arrow.



4. Use the valve mounting tool to pull out the valve until it is entirely out of the lower hole.

**NOTICE**

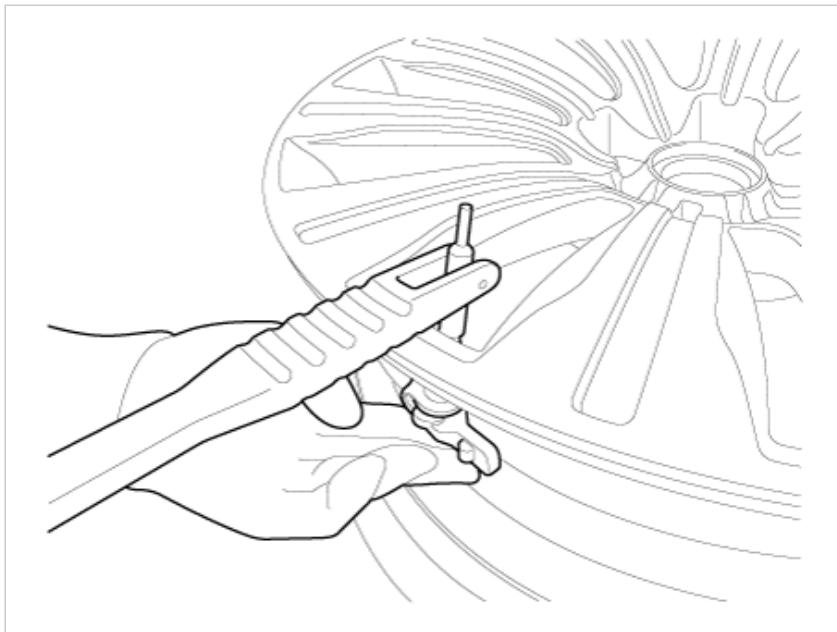
Cut the rubber at the bottom of valve with a knife.



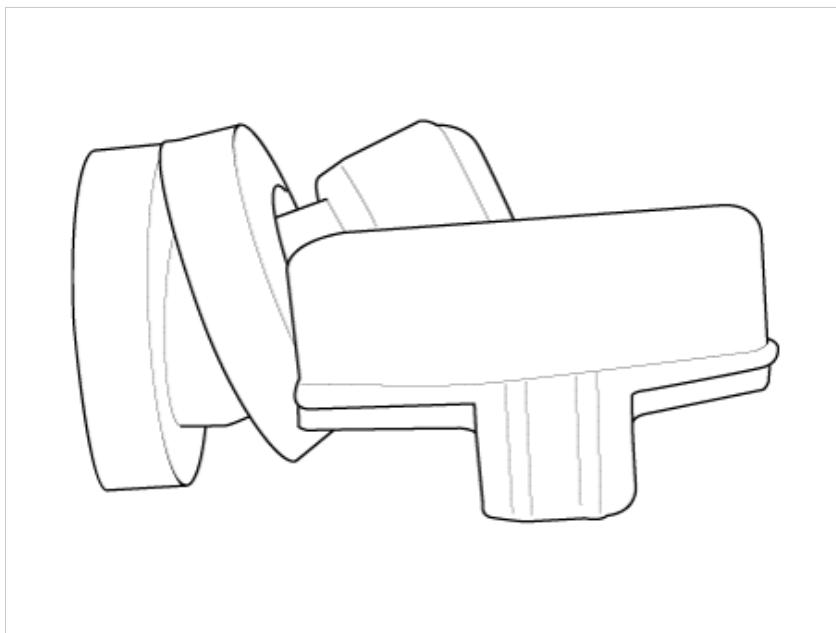
5. Apply lubricant to the surface of the valve, and then mount it through the valve hole of the wheel.

NOTICE

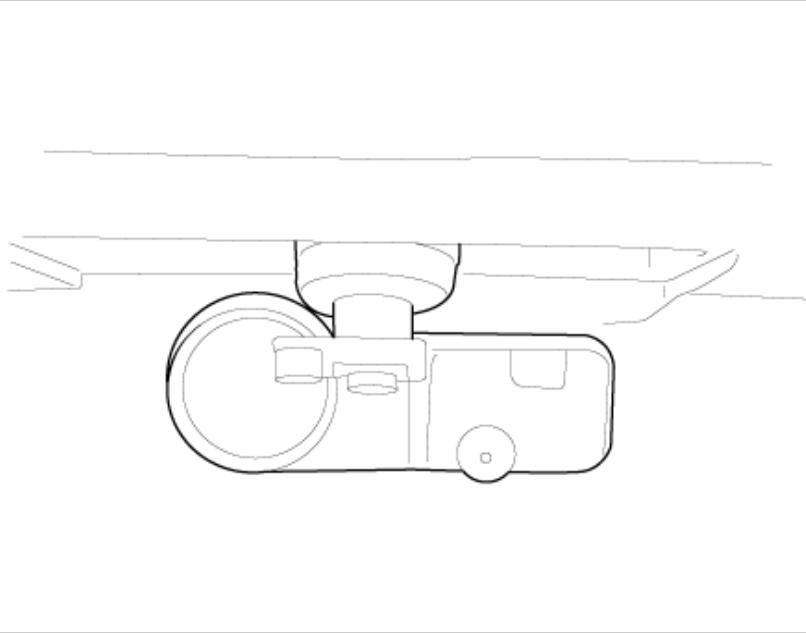
We recommend using regular soapy water as lubricant.

**▲ CAUTION**

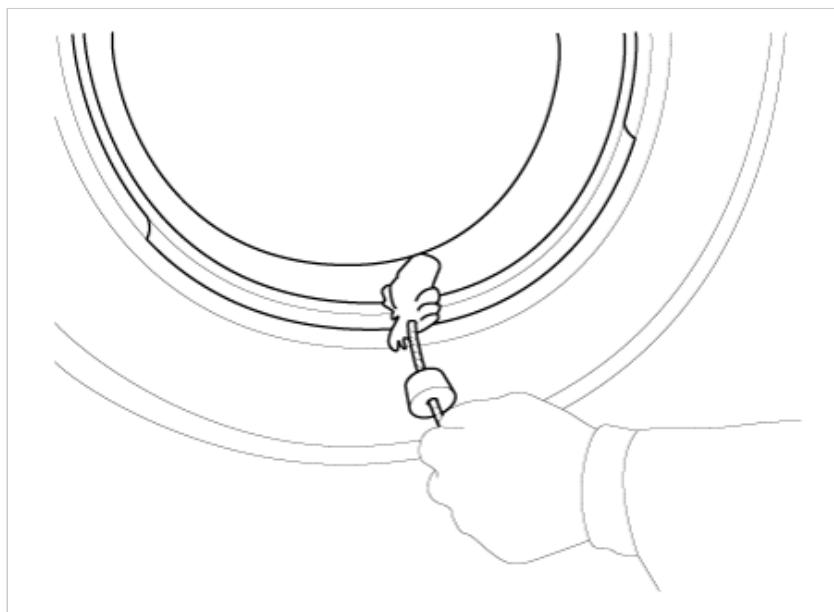
- The TPMS sensor valve bottom is not properly sealed if it is not fully mounted on the wheel, as shown in the following figure:



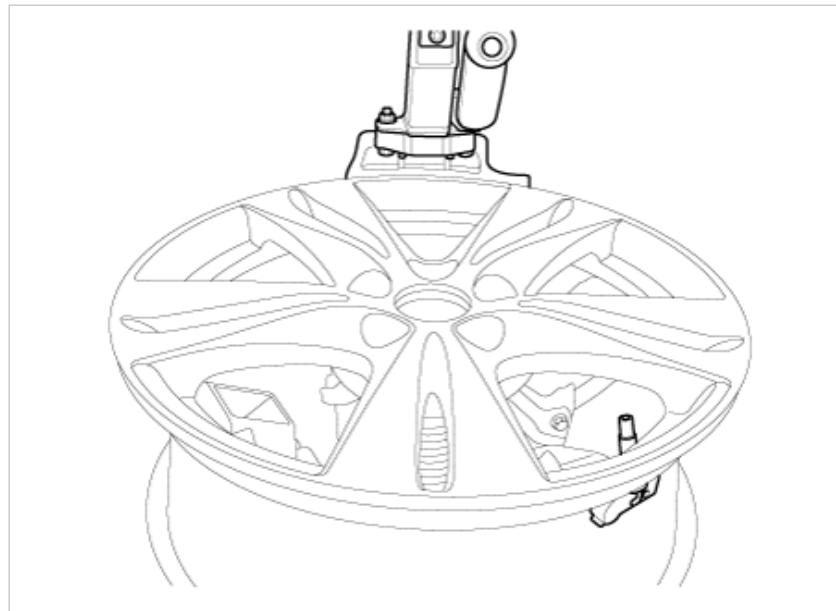
- Make sure that the valve body is pulled entirely through the hole.



6. Apply soapy water or lubricant to the upper/lower bead section of the tire.



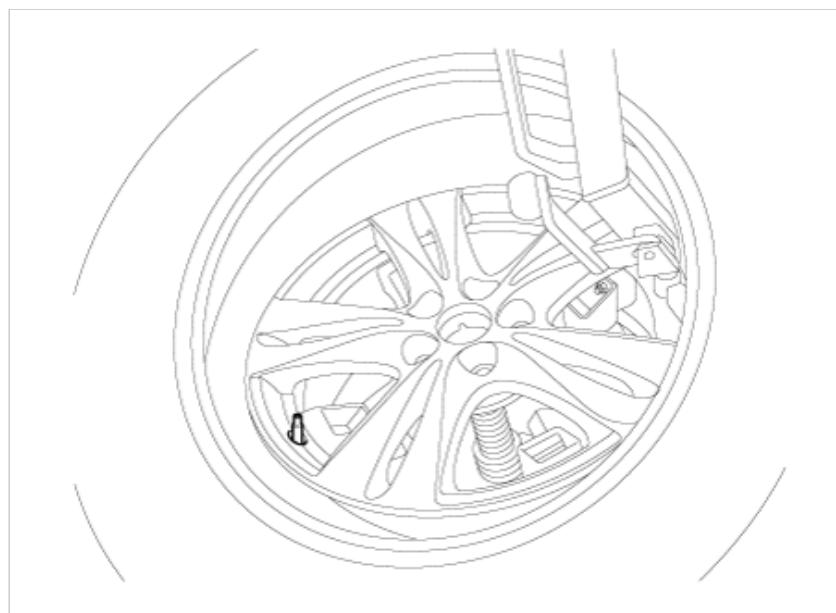
7. In order to mount lower the beads, place the TPMS sensor at 5 o'clock, starting from the head of the tire replacement equipment.



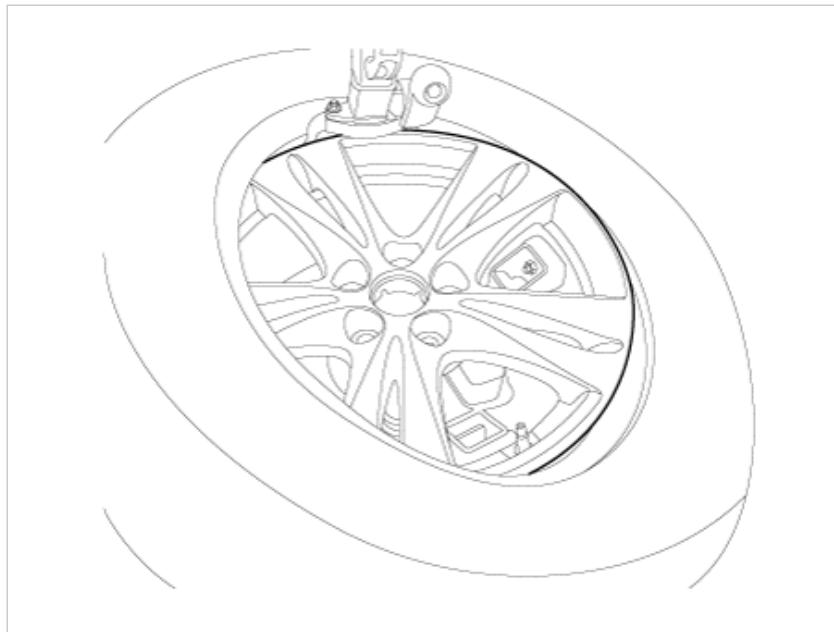
8. Rotate the rim clockwise and press tire towards 3 o'clock to mount the lower beads.

▲ CAUTION

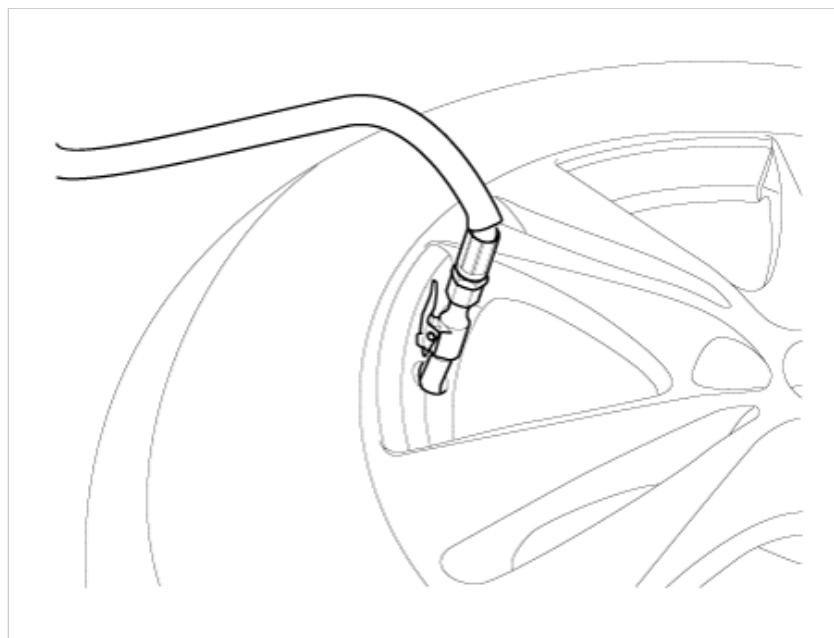
- Mount the tire on the wheel. Make sure that the beads touch the edge of the rim behind the sensor (towards 6 o'clock).



9. In order to mount the upper beads, press the tire towards 3 o'clock and turn the rim clockwise.



10. Inject air into the tire until the beads are in the correct position.



11. Adjust the tire pressure according to the recommended tire pressure for the vehicle.

12. If the TPMS sensor malfunctions, you must perform TPMS sensor learning. Replace any faulty sensors and perform TPMS sensor learning.

Diagnostic Procedure Using a Diagnostic Instrument

The following section describes how to diagnose faults using a diagnostic instrument.

1. Connect the diagnostic instrument to the self-diagnostic connector (16-pin) beneath the crash pad on the side of driver's seat, and then turn on the ignition to activate the diagnostic instrument.
2. In the KDS Vehicle Type Selection menu, select "Vehicle Type" and "TPMS" System, and then opt for "OK."

[Register Sensor Method]

S/W Management

Systems **Components** **Unfold All**

- **Motor Driven Power Steering** 
- **Tire Pressure Monitoring System(High Type)** 
- System Identification 
- Sensor Status 
- Register Sensor 
- Write VIN 
- Vehicle Name Writing 
- TPMS TEST 
- Wheel Sensor ID Writing 
- **Tire Pressure Monitoring System(Low Type)** 
- **Parking Guide System** 
- **Immobilizer** 
- **Smart Key Unit** 
- **Body Control Module** 
- **Cluster Module** 
- **Seat Belt Reminder/Lighting Module** 
- **Transmitter Code Saving** 

! Do not touch any system buttons while performing this function.

S/W Management



• Register Sensor

Purpose	To write Sensor ID into Tire Pressure Monitoring System(TPMS) ECU.
Enable Condition	1. Engine Off 2. Ignition Switch On 3. TPMS Exciter required
Concerned Component	Tire Pressure Monitoring System(TPMS) ECU, Initiator, Tire Pressure Monitoring System(TPMS) sensor
Concerned DTC	-
Fail Safe	-
Etc	This function is to write sensor ID that read with TPMS exciter to ECU

OK



Do not touch any system buttons while performing this function.

S/W Management

■ Register Sensor

● [Register sensor]

1. This function is to input sensor ID to TPMS control module(TPMS ECU), Which is used to operate the TPMS properly.
2. The data is composed of 8 alphanumeric characters.
3. [Read ID] is the sensor ID which is read through TPMS diagnosis module currently, [Write ID] is the new sensor ID which is stored in the TPMS ECU.

● [Condition]

1. IG. On (Engine Off)

Press the **[OK]** button.

OK

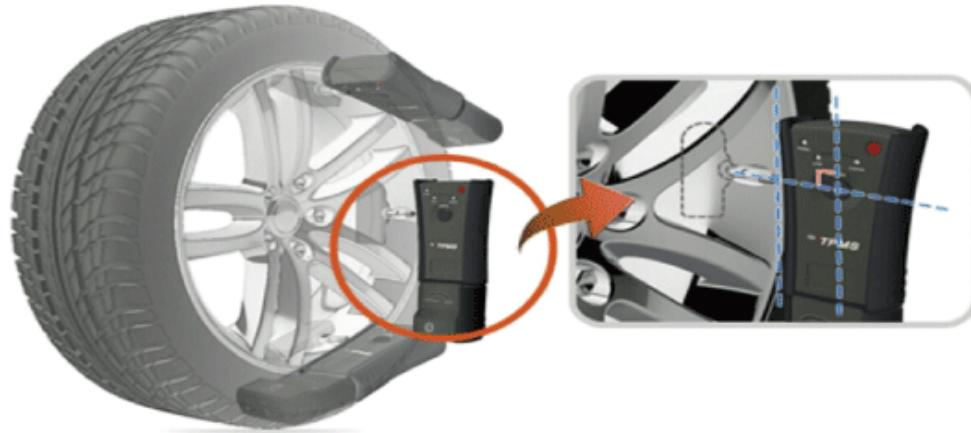
Cancel



Do not touch any system buttons while performing this function.

S/W Management

■ Register Sensor



⚠ [Caution]

For most accurate reading and retrieval of correct sensor data, follow the guide below.

1. Place the [Enter] button of the TPMS Diagnosis Module in line with the TPMS sensor(Valve stem) of the wheel as shown in the image.
2. Position the TPMS Diagnosis Module as near as possible to the tire.
3. Reading may take 30~60 seconds depending on the sensor's characteristics.

OK



Do not touch any system buttons while performing this function.

S/W Management

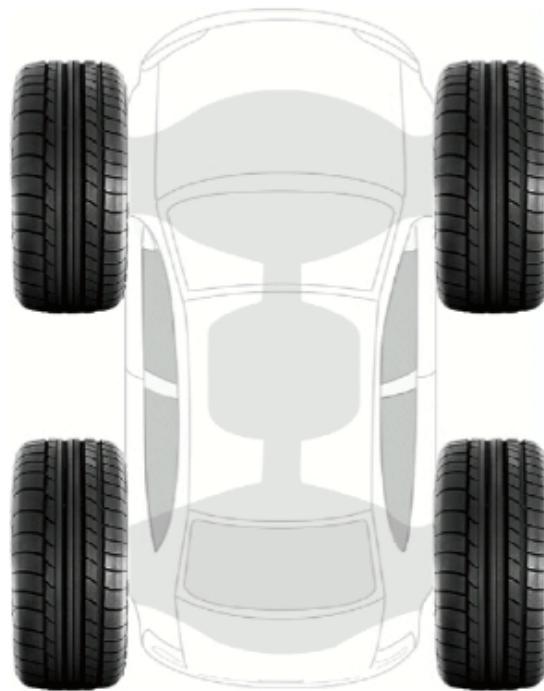
■ Register Sensor

Front Left

• Read ID

82D2C731

• Write ID



Front Right

• Read ID

83DB56AC

• Write ID

Rear Left

• Read ID

83DB56A7

• Write ID

Rear Right

• Read ID

82D2DBC0

• Write ID

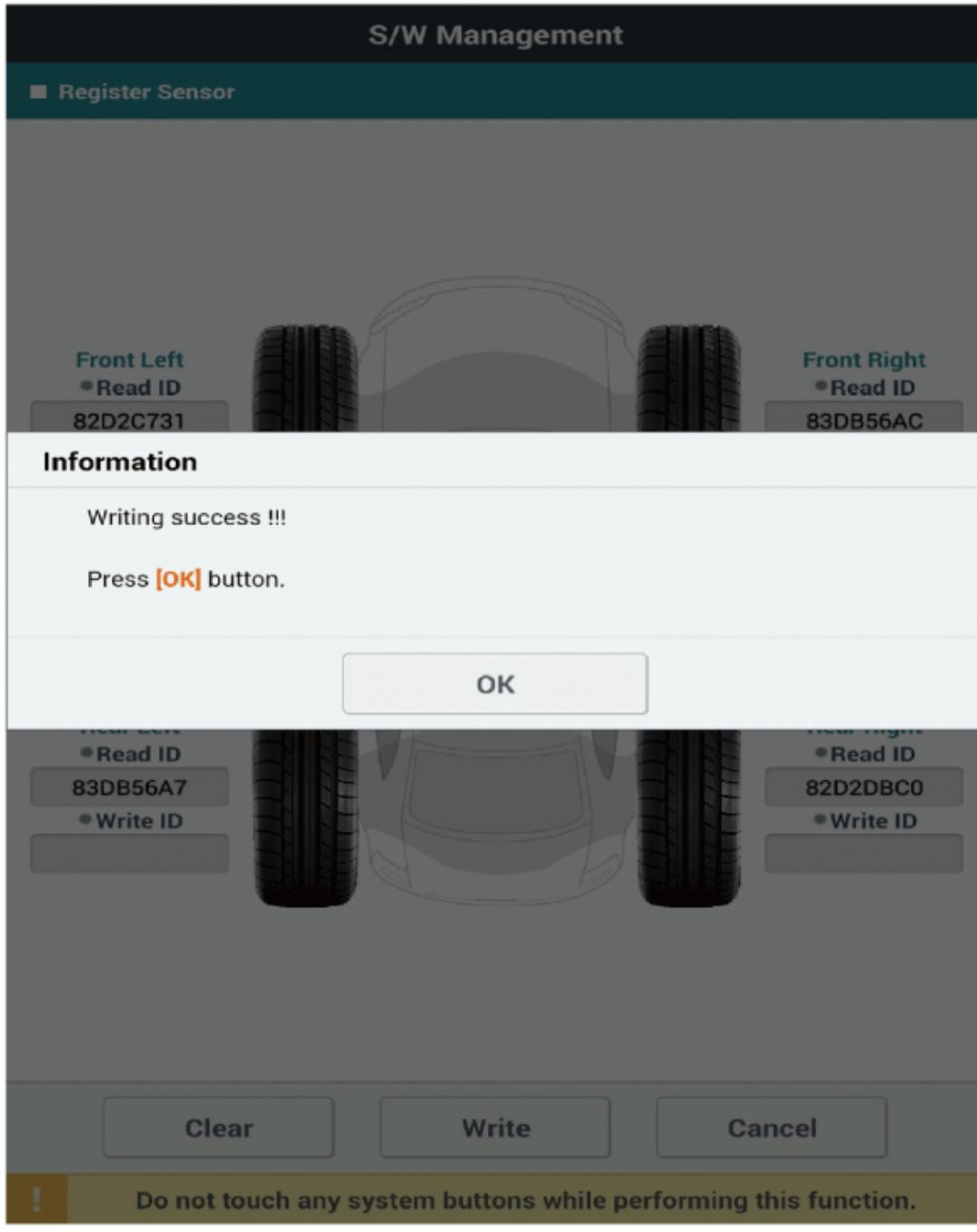
Clear

Write

Cancel



Do not touch any system buttons while performing this function.

**NOTICE**

- Check that Write ID and Read ID are the match.
- After successfully registering the sensor, perform "Sensor Wireless Information" to confirm that the sensor operates properly.

S/W Management

■ Register Sensor

Modify sensor ID and press the **[OK]** button.

Front Left

• Read ID

82D2C731

• Write ID

82D2C731

Front Right

• Read ID

83DB56AC

• Write ID

83DB56AC

Rear Left

• Read ID

83DB56A7

• Write ID

83DB56A7

Rear Right

• Read ID

82D2DBC0

• Write ID

82D2DBC0

OK



Do not touch any system buttons while performing this function.

[Sensor Status Method]

S/W Management

Systems **Components** **Unfold All**

- **Motor Driven Power Steering** 
- **Tire Pressure Monitoring System(High Type)** 
 - System Identification 
 - **Sensor Status** 
This item is highlighted with a red dotted box.
 - Register Sensor 
 - Write VIN 
 - Vehicle Name Writing 
 - TPMS TEST 
 - Wheel Sensor ID Writing 
- **Tire Pressure Monitoring System(Low Type)** 
- **Parking Guide System** 
- **Immobilizer** 
- **Smart Key Unit** 
- **Body Control Module** 
- **Cluster Module** 
- **Seat Belt Reminder/Lighting Module** 
- **Transmitter Code Saving** 

! Do not touch any system buttons while performing this function.

S/W Management



• Sensor Status

Purpose	To check status of TPMS(Tire Pressure Monitoring System) sensor installed in each wheels.
Enable Condition	1. Engine Off 2. Ignition Switch On 3. TPMS Exciter required
Concerned Component	Tire Pressure Monitoring System(TPMS) ECU, Initiator, Tire Pressure Monitoring System(TPMS) Sensor
Concerned DTC	-
Fail Safe	-
Etc	1. Must check vehicle type(Low or High) before change sensor type. 2. In case vehicle type is low, then sensor status must be changed to low type.

OK



Do not touch any system buttons while performing this function.

S/W Management

■ Sensor Status

● [Sensor status]

This function is to read information about sensor status from TPMS sensor in the Tire.

Press the **[OK]** button.

OK

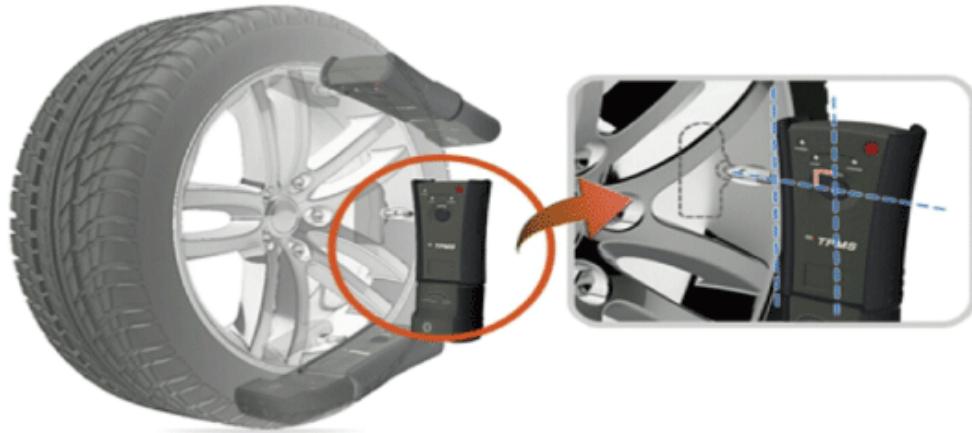
Cancel



Do not touch any system buttons while performing this function.

S/W Management

■ Sensor Status



⚠ [Caution]

For most accurate reading and retrieval of correct sensor data, follow the guide below.

1. Place the [Enter] button of the TPMS Diagnosis Module in line with the TPMS sensor(Valve stem) of the wheel as shown in the image.
2. Position the TPMS Diagnosis Module as near as possible to the tire.
3. Reading may take 30~60 seconds depending on the sensor's characteristics.

OK



Do not touch any system buttons while performing this function.

S/W Management

■ Sensor Status

ITEM	VALUE	UNIT
ID :	82D2C731	
Tire Type :	50 psi	
Pressure :	0.0	psi
Temperature :	32	'F
Acceleration :	1.0	g
Market :	Except USA	
Sensor Status :	PARK MODE	
Battery Level :	OK	

Retry

ITEM	VALUE	UNIT
ID :		
Tire Type :		
Pressure :		
Temperature :		
Acceleration :		
Market :		
Sensor Status :		
Battery Level :		

Retry

ITEM	VALUE	UNIT
ID :		
Tire Type :		
Pressure :		
Temperature :		
Acceleration :		
Market :		
Sensor Status :		
Battery Level :		

Retry

ITEM	VALUE	UNIT
ID :		
Tire Type :		
Pressure :		
Temperature :		
Acceleration :		
Market :		
Sensor Status :		
Battery Level :		

Retry

Cancel

! **Do not touch any system buttons while performing this function.**

NOTICE

- Each entry must be checked for normal operation of each sensor.
- After replacing the tires or sensors, check for proper operation of sensor after sensor registration process.

S/W Management

■ Register Sensor

Modify sensor ID and press the **[OK]** button.

Front Left

• Read ID

82D2C731

• Write ID

82D2C731

Front Right

• Read ID

83DB56AC

• Write ID

83DB56AC

Rear Left

• Read ID

83DB56A7

• Write ID

83DB56A7

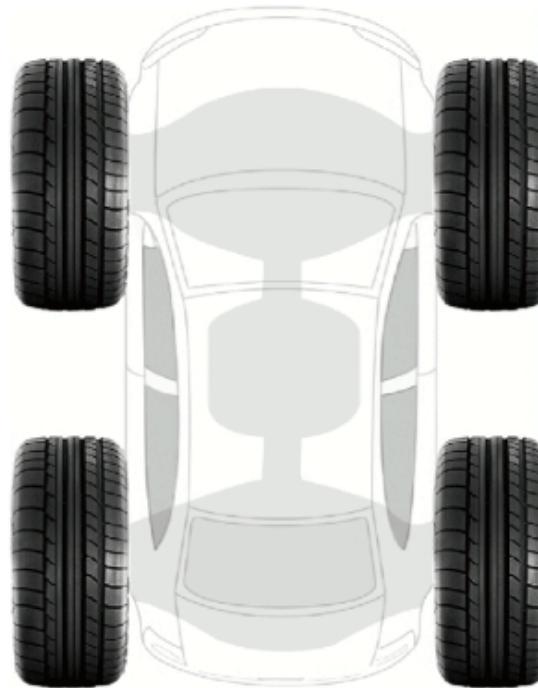
Rear Right

• Read ID

82D2DBC0

• Write ID

82D2DBC0



OK



Do not touch any system buttons while performing this function.