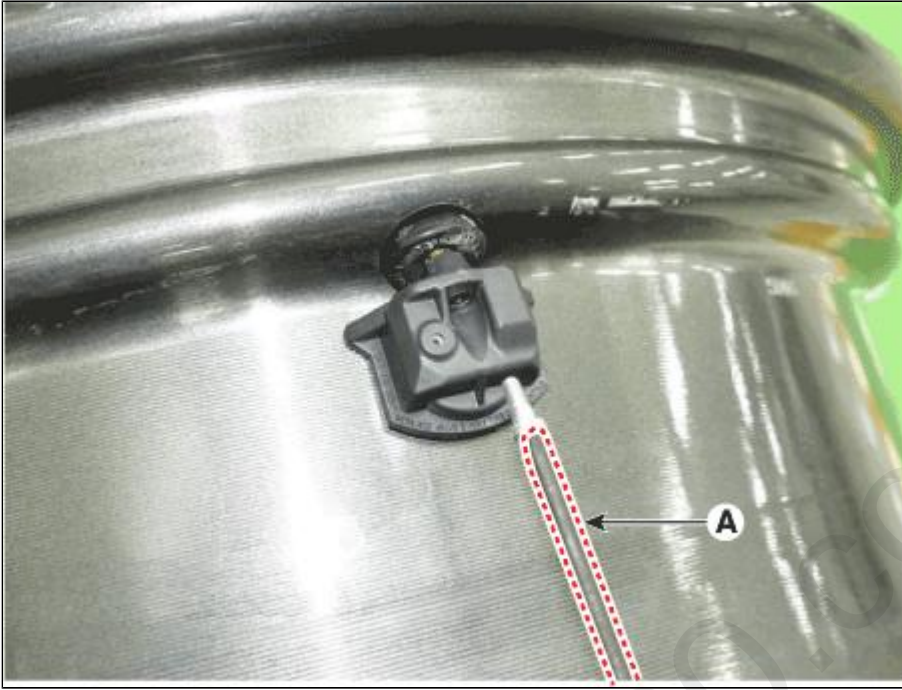


Removal

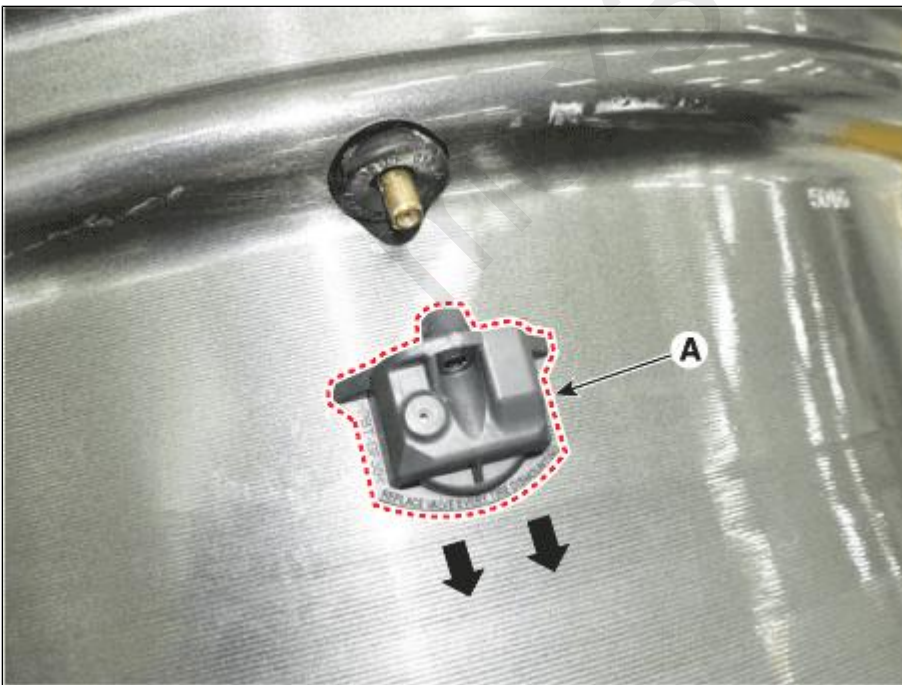
1. Remove the wheel and tire.
(Refer to Suspension System - "Wheel")
2. Remove the screw with torx driver (A).

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) 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.

CAUTION

Do not reuse the snap-in type TPMS sensor.



NOTICE

Cut the rubber(A) at the bottom of valve with a knife.



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

Specified lubricants : soap water or YH100 (Lubricant for tire insert)

NOTICE

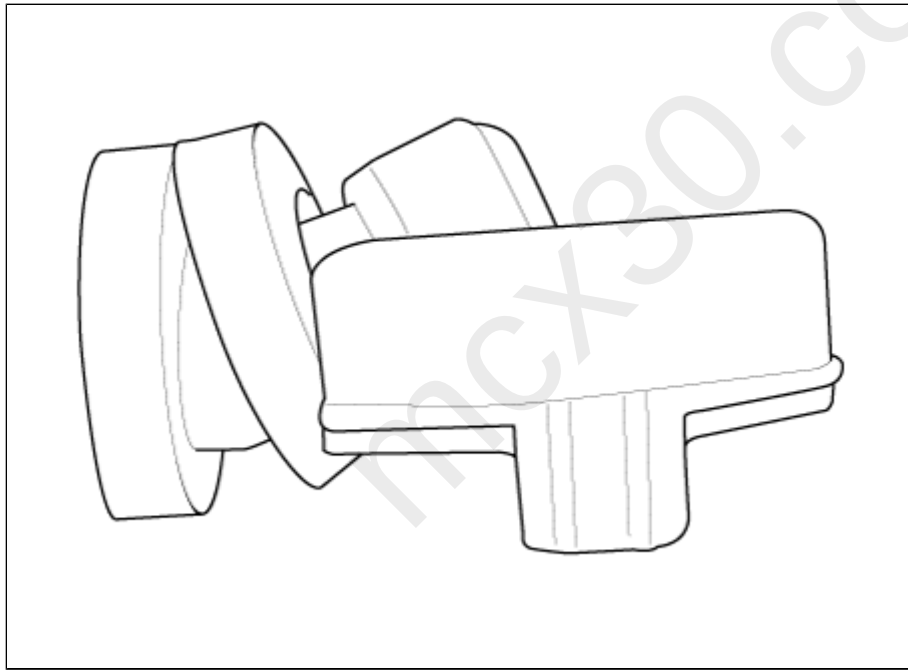
After applying the lubricant, it should not be longer than 5 minutes until the valve is mounted.
"(If the lubricant is applied for more than 5 minutesApply lubricant again)"



⚠ 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:

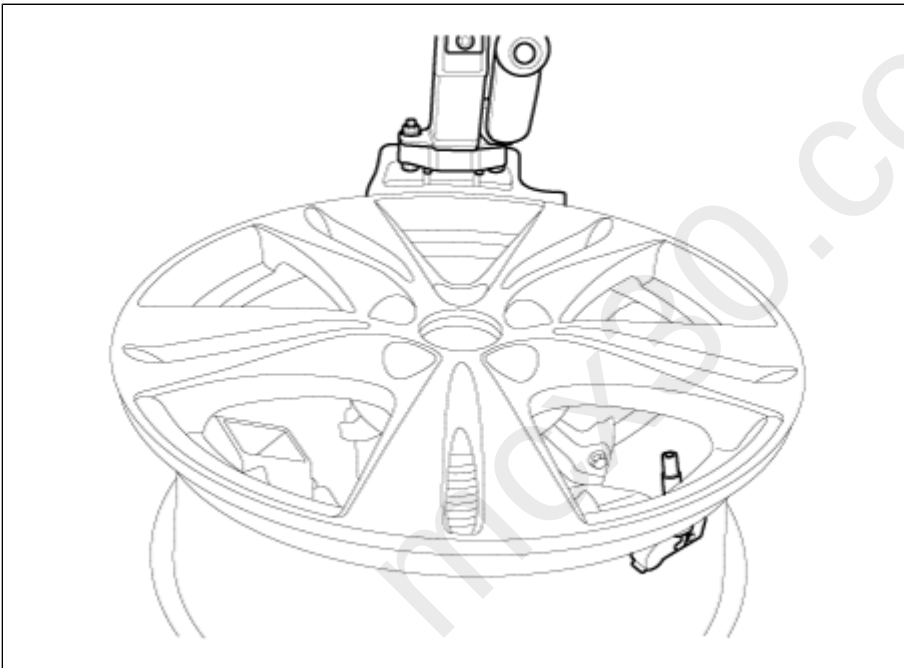
Make sure that the valve body is pulled entirely through the hole.



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



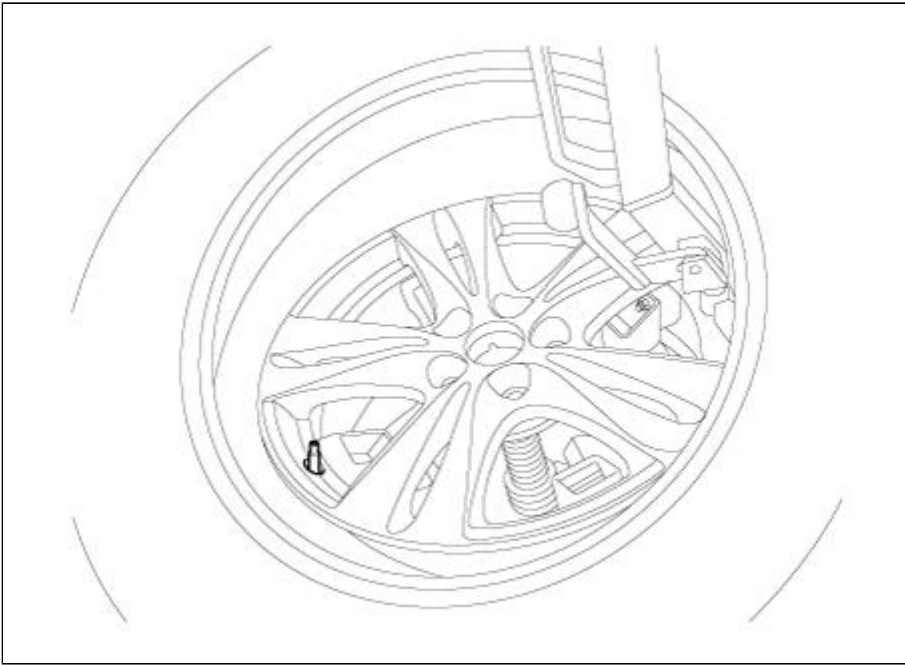
7. To fit the bottom bead, position the sensor at the 5 o'clock position relative to the head on the tire changing machine



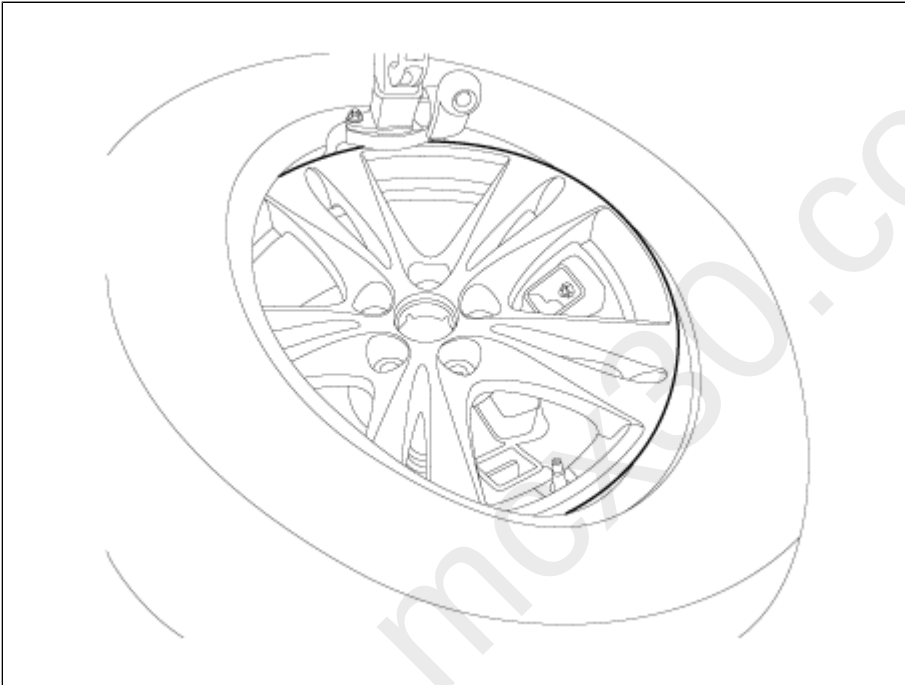
8. Rotate the rim clockwise, and push down on the tire at the 3 o'clock position to fit bottom bead.

⚠ CAUTION

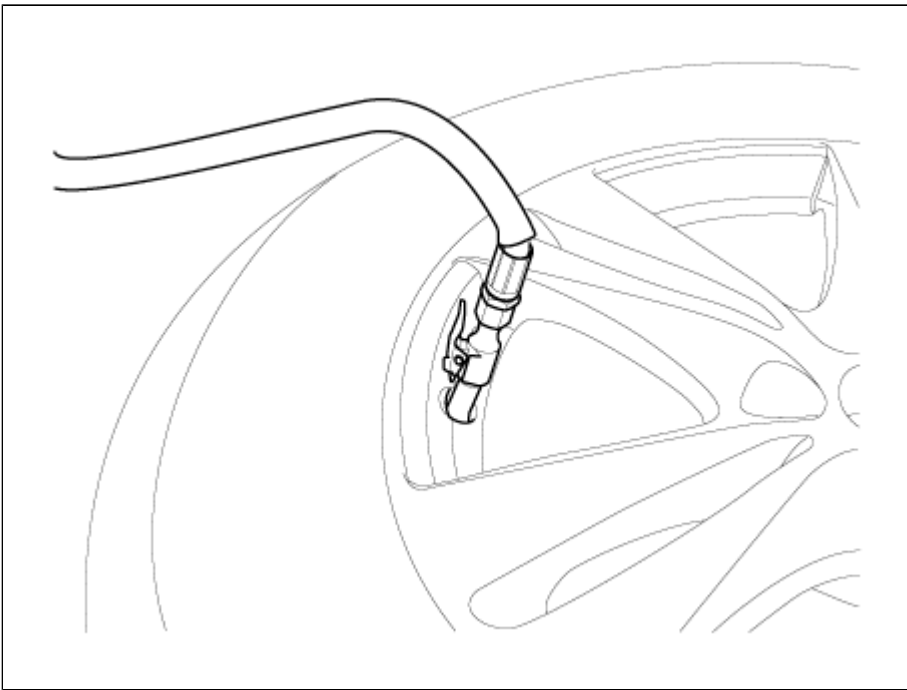
Place the tire on the rim so the bottom bead touches the edge of the rim after the sensor (6 o'clock).



9. Push down on the tire at the 3 o clock position and rotate the rim clockwise to fit the top bead.



10. Inflate the tire until beads seat.



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

Specified tire pressure : Refer to "Specification"

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 GDS Vehicle Type Selection menu, select "Vehicle Type" and "TPMS" System, and then opt for "OK."

[Register Sensor Method]



■ 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.



• 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

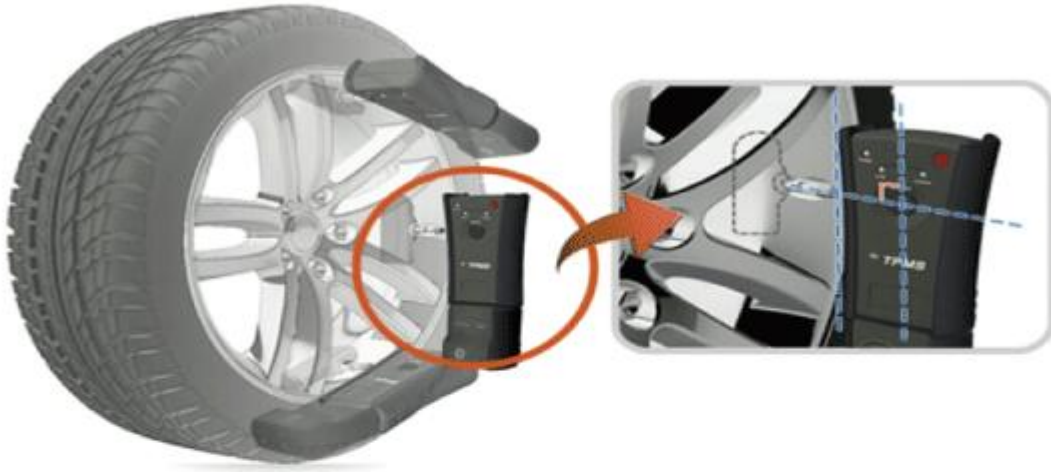
Cancel



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



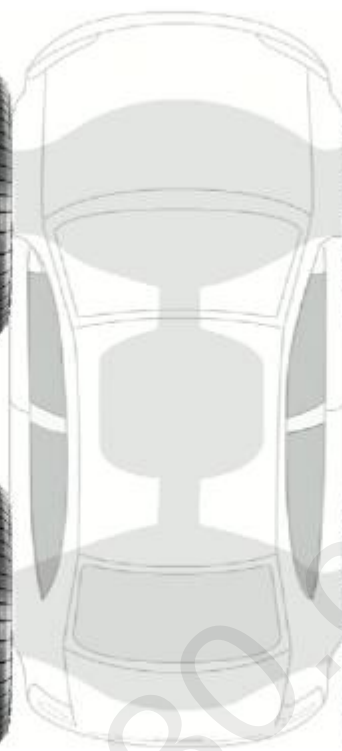
Rear Right

• Read ID

82D2DBC0

• Write ID





Clear

Write

Cancel



Do not touch any system buttons while performing this function.



NOTICE

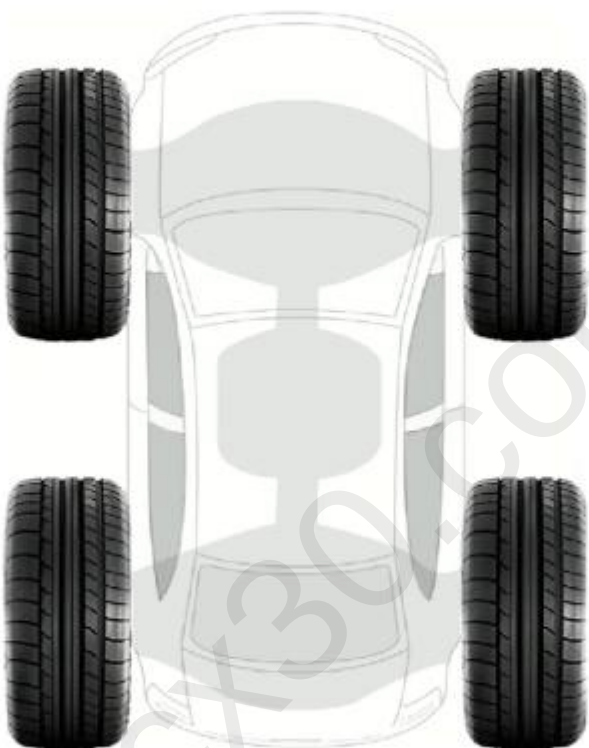
Check that Write ID and Read ID are the match.

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.



The diagram shows a top-down view of a car with four wheels. Each wheel is associated with a sensor ID management interface. The interfaces are as follows:

- 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]



■ 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.



• 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

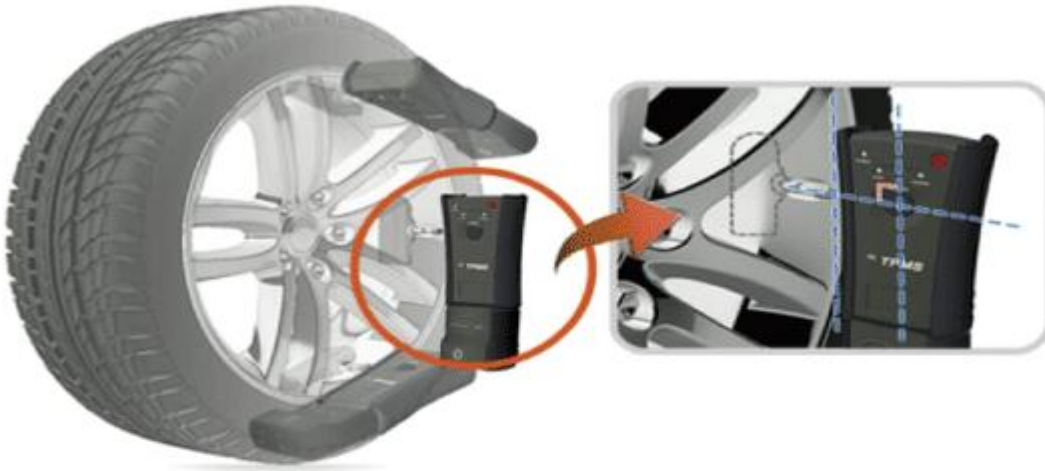
Cancel



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

1

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

2

ITEM	VALUE	UNIT
ID :		
Tire Type :		
Pressure :		psi
Temperature :		'F
Acceleration :		g
Market :		
Sensor Status :		
Battery Level :		

Retry

3

ITEM	VALUE	UNIT
ID :		
Tire Type :		
Pressure :		psi
Temperature :		'F
Acceleration :		g
Market :		
Sensor Status :		
Battery Level :		

Retry

4

ITEM	VALUE	UNIT
ID :		
Tire Type :		
Pressure :		psi
Temperature :		'F
Acceleration :		g
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.



Do not touch any system buttons while performing this function.

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Little Value

1

2

3

4

5

Excellent Value