



HYUNDAI

NEW THINKING.
NEW POSSIBILITIES.

Technical Service Bulletin

GROUP RECALL	NUMBER 17-01-017
DATE MARCH 2017	MODEL(S) Santa Fe Sport (AN)

SUBJECT: SANTA FE SPORT (AN) TPMS SENSOR INSPECTION
AND REPAIR (RECALL CAMPAIGN 159)

★ IMPORTANT

*** Dealer Stock and Retail Vehicles ***

Dealers must perform this Recall Campaign on all affected vehicles prior to customer retail delivery and whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the service department, access Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

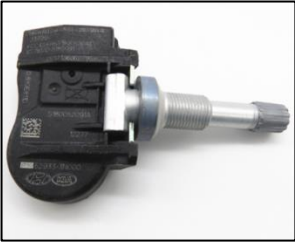

Description: Certain 2017MY Santa Fe Sport (AN) vehicles may have been shipped with the Tire Pressure Monitoring System (TPMS) sensor(s) in the incorrect mode, and may not comply with Federal Motor Vehicle Safety Standards. If a sensor is in the incorrect mode, the TPMS indicator lamp in the instrument cluster will illuminate. An improperly inflated tire may increase the risk of a crash. If the TPMS sensors are found to be in the incorrect mode, replacement of the sensors is required. This bulletin describes the service procedure to inspect and, if necessary, replace the TPMS wheel sensor(s).



Applicable Vehicles:

Certain 2017MY Santa Fe Sport (AN) vehicles produced from 2/1/2016 through 11/15/2016.

Parts Information:

PART NAME	PART NUMBER	FIGURE	REMARK
TPMS Wheel Sensor	52933-3N000		Use a new nut when replacing the wheel sensor.
TPMS Wheel Sensor Nut	52934-A5000		Use a new nut when replacing the wheel sensor.

Warranty Information:

Model	Op Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
Santa Fe Sport (AN)	71CG02R0	TPMS Sensor Inspection	0.3 M/H	52933-3N000	I3B	ZZ1
	71CG02R1	TPMS Sensor Inspection and Replacement (1 sensor)	0.7 M/H			
	71CG02R2	TPMS Sensor Inspection and Replacement (2 sensors)	0.9 M/H			
	71CG02R3	TPMS Sensor Inspection and Replacement (3 sensors)	1.1 M/H			
	71CG02R4	TPMS Sensor Inspection and Replacement (4 sensors)	1.3 M/H			

NOTE 1: Submit Claim on Campaign Claim Entry Screen.

Service Procedure: TPMS Sensor Inspection Using GDS

NOTICE

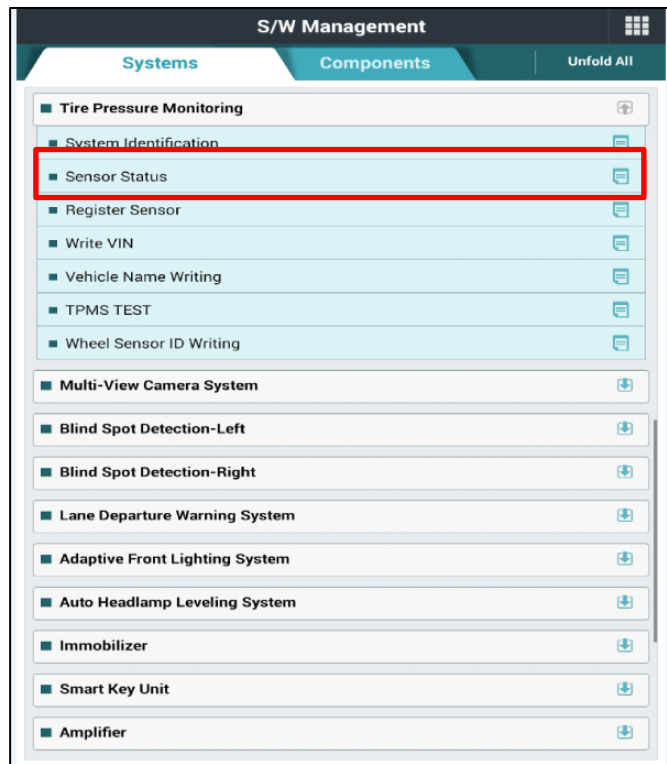
This Service Procedure is performed using PC-based GDS, or GDS-mobile. For update information and general precautions, please refer to TSBs #15-GI-001 and #15-GI-002.

Please ensure the TPMS tool firmware is up to date.

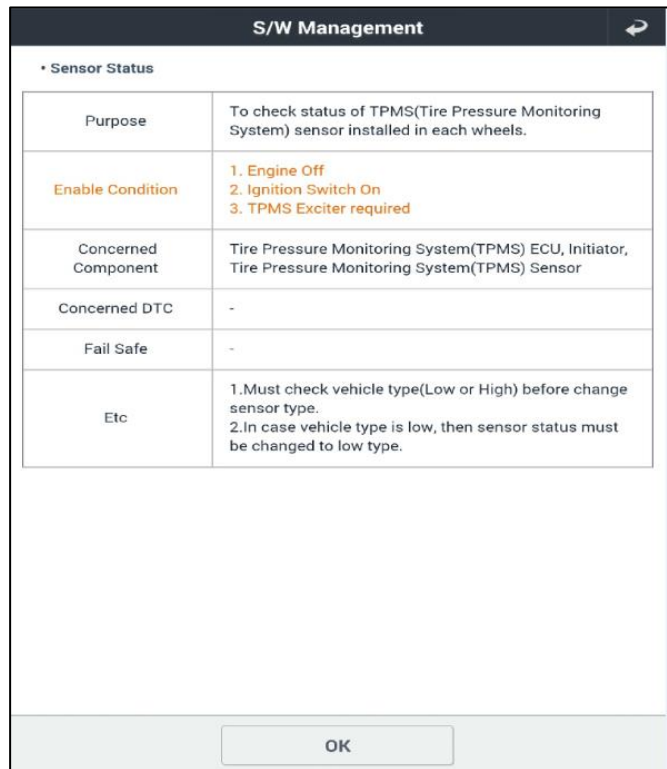
GDS procedures shown in this TSB are on GDS Mobile. For questions on PC-based GDS procedures, please call the GIT Helpline at 888-437-0308.

GDS Mobile Procedure

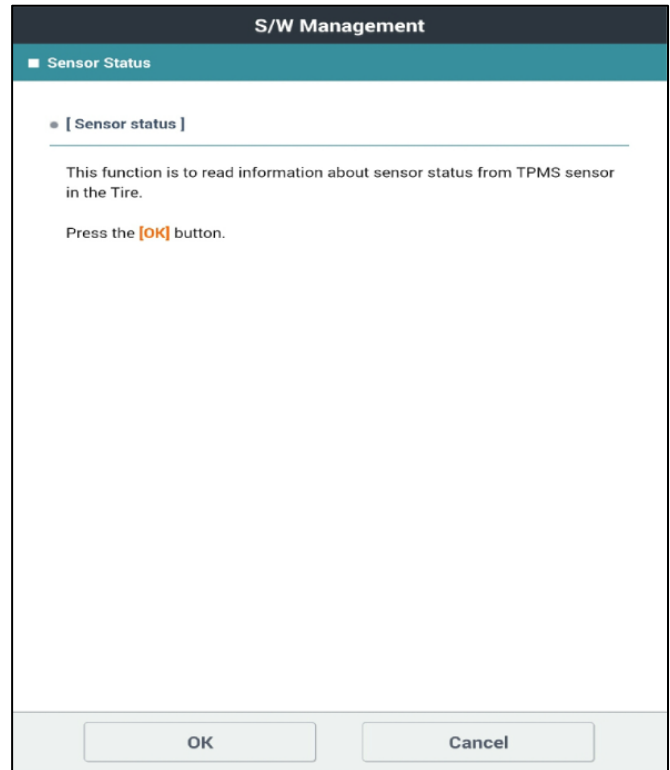
1. From the S/W Management screen under Tire Pressure Monitoring, select “**Sensor Status**.”



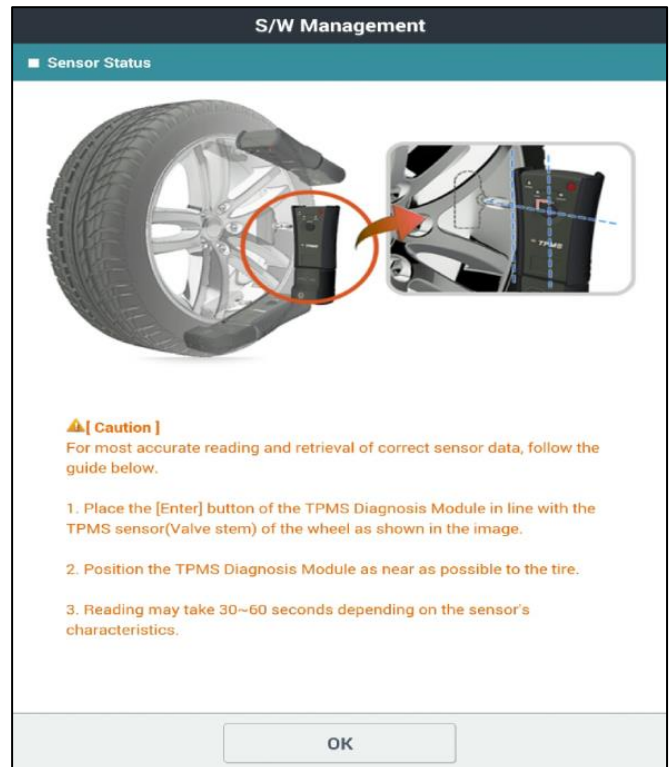
2. Read the function summary then click **OK**.



3. Read the function description, then click **OK**.

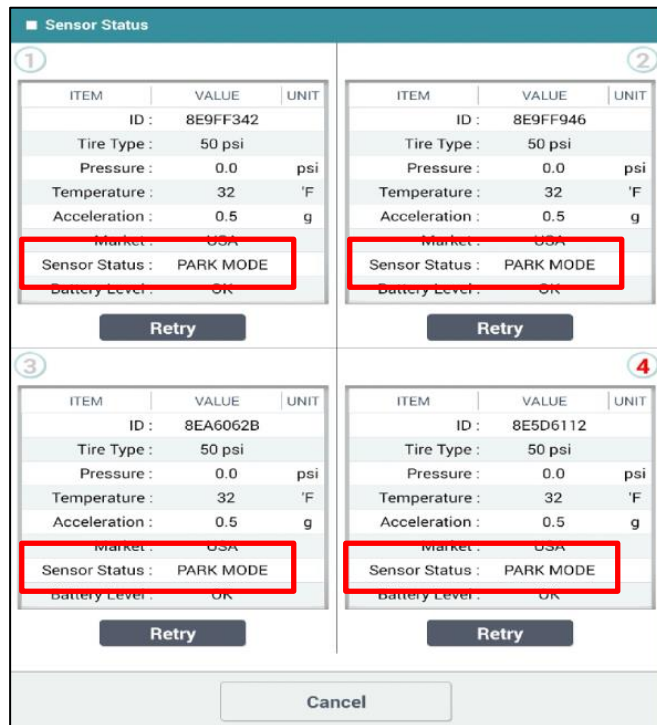


4. Read the service procedure instructions. When ready, place the TPMS tool close to the vehicle's front left TPMS sensor (no need to press the button on TPMS tool), then select **OK** on GDS.



5. After the first sensor is read, move to the next sensor (**front right**). Place the TPMS tool close to the wheel sensor and **press the button on the TPMS tool**.
6. Continue onto the **right rear**, then **left rear** sensors, repeating the sensor reading as described in step 5.

7. After completing all sensors, the GDS will display information from all 4 sensors. Check the **Sensor Status** value:
- If all 4 sensors show “PARK MODE” or “DRIVE MODE,” no further service is required. Use labor op 71CG02R0.
 - If any of the sensors show “SHIP MODE,” that sensor (or sensors) must be replaced. Continue to the **Service Procedure: TPMS Wheel Sensor Replacement**.



Service Procedure: TPMS Wheel Sensor Replacement

NOTICE

Exact procedures for accessing TPMS wheel sensor may vary, depending on the type of tire changer used.

Service procedures in this TSB are based on a Hunter Auto34 tire changer.

1. Lift the vehicle on a hoist and remove the wheel(s) with TPMS sensors in “SHIP MODE.”

Tightening torque:
65.1~79.6 lb-ft (88.3~107.9 N.m, 9.0~11.0 kgf.m)



2. Use tire chalk to mark the tire and rim's relative position. Use this mark later to ensure the tire and rim did not change positions.



2. Mount the wheel onto the tire changing machine.

Remove the valve core to release the air inside the tire.

Position the tire dismounting head ~10 degrees counterclockwise from the valve stem, as shown.



3. Depress the head to release the tire's upper bead slightly.

Rotate the wheel/tire assembly counter-clockwise one full rotation to fully release the upper bead. End the rotation with the tool positioned in about the same place as the start.



4. Position the tire depressor on the opposite side of the dismantling head, then press down slightly on the tire to create more space to access the TPMS wheel sensor.



5. TPMS sensor should now be easily accessible.



6. Remove the TPMS sensor with a deep socket and ratchet.



7. Install a new TPMS sensor.

Adjust the angle of the valve stem so that the TPMS body makes good contact with the inside rim surface.

Tightening torque:
62~80 lb-inch (7.0~9.0 N.m, 0.7~0.9 kgf.m)

NOTICE

Always use a new TPMS nut.



8. Remove the valve core from the new TPMS sensor.

Reseat the upper bead by applying compressed air into the valve stem.

Reinstall the valve core.

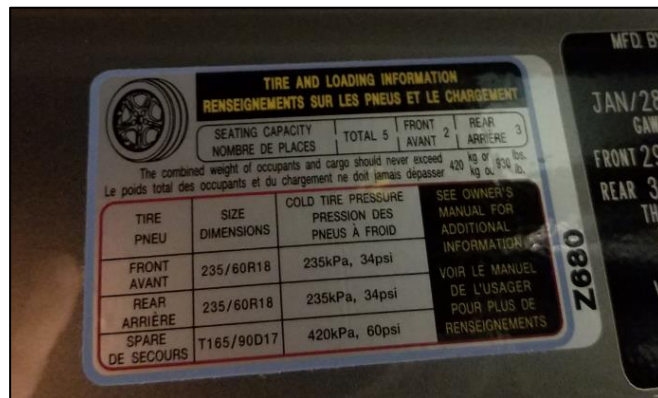


9. Verify that the chalk marks made earlier are aligned.

If they are not, it is required to reposition the tire on the wheel so they do align.



10. Set the pressure according to the vehicle's tire placard label.



11. Mount the wheel/tire assembly back onto the vehicle and torque to spec.

Tightening torque:
65.1~79.6 lb-ft (88.3~107.9 N.m, 9.0~11.0 kgf.m)



12. Repeat steps 1-11 for any other required TPMS wheel sensors.
13. After replacing wheel sensor(s), perform the **Service Procedure: TPMS Sensor Registration** on page 10.

NOTICE

It is recommended to register all 4 TPMS sensors, regardless of how many sensors were replaced.

Service Procedure: TPMS Sensor Registration

NOTICE

This Service Procedure is performed using PC-based GDS, or GDS-mobile. For update information and general precautions, please refer to TSBs #15-GI-001 and #15-GI-002.

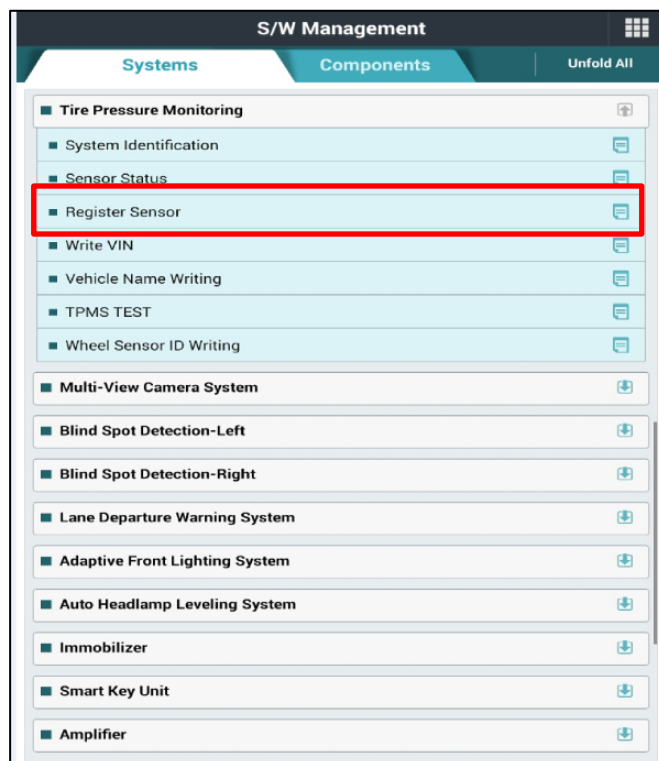
Ensure the TPMS tool firmware is up to date.

GDS procedures shown in this TSB are on GDS Mobile. For questions on PC-based GDS procedures, please call the GIT Helpline at 888-437-0308.

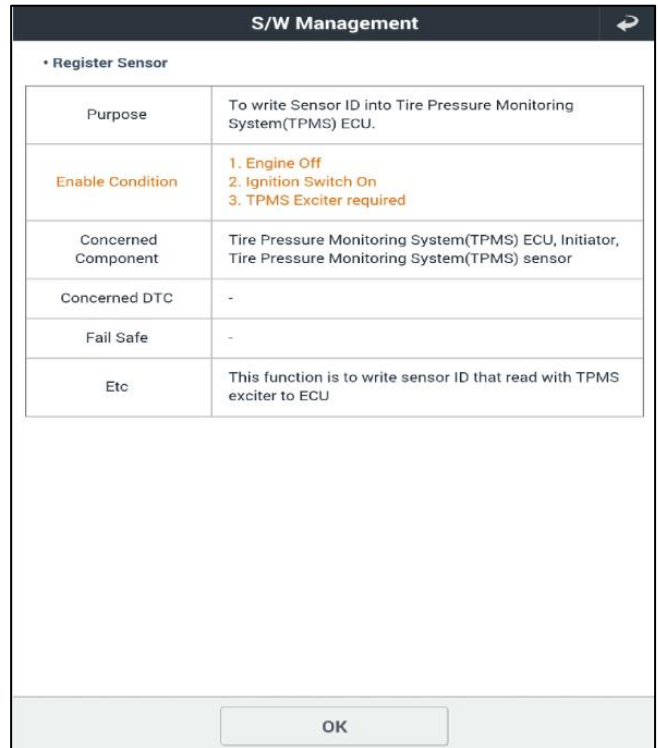
It is recommended to register all 4 TPMS sensors, regardless of how many sensors were replaced.

GDS Mobile Procedure

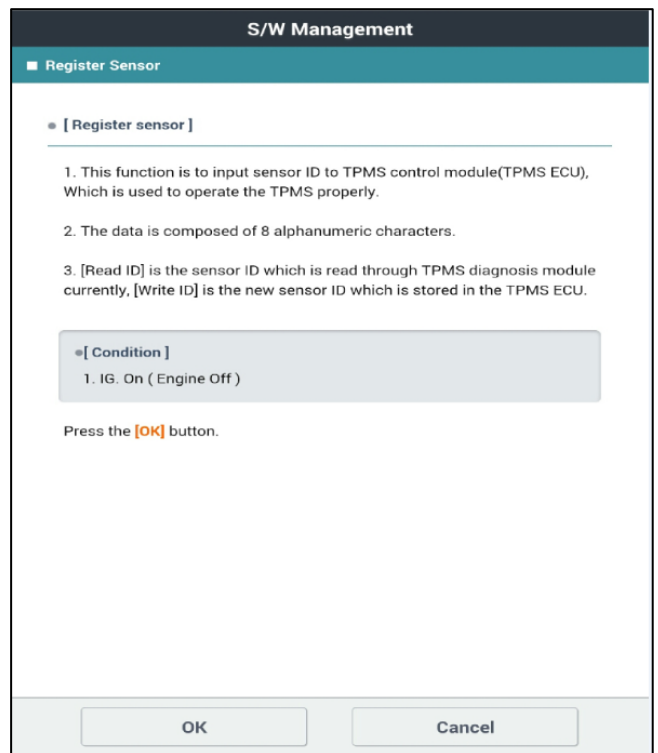
1. From the S/W Management screen under Tire Pressure Monitoring, select “**Register Sensor.**”



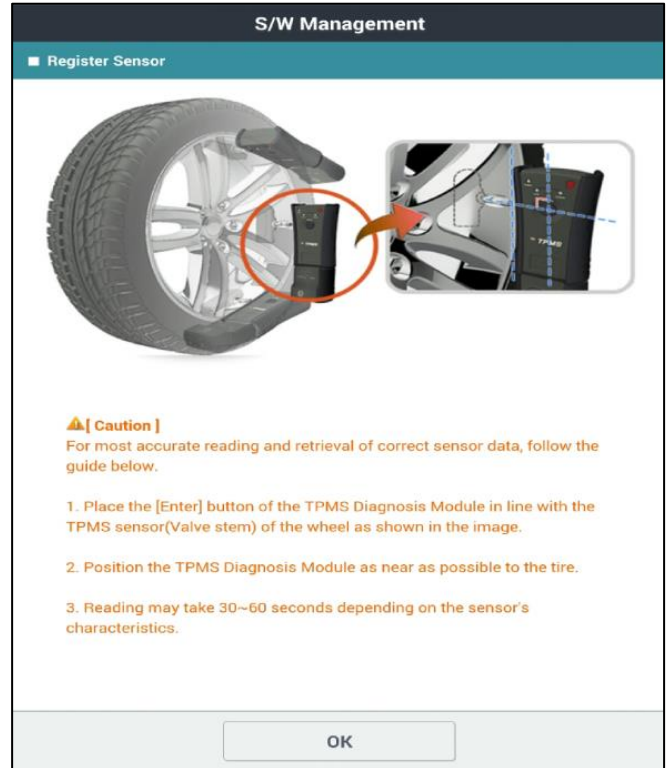
2. Read the function summary then click **OK**.



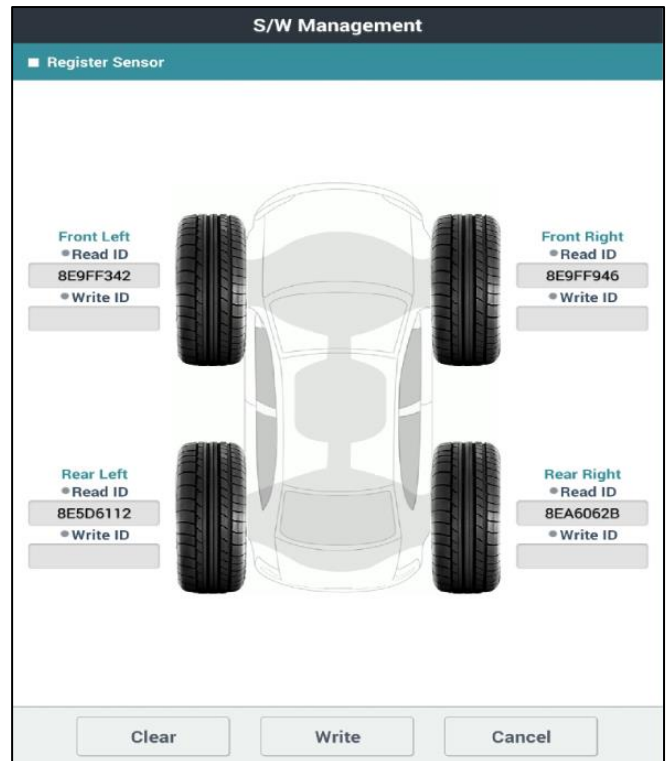
3. Read the function description, then click **OK**.



4. Read the service procedure instructions. When ready, place the TPMS tool close to the vehicle's **front left** TPMS sensor (no need to press the button on TPMS tool), then select **OK** on GDS.



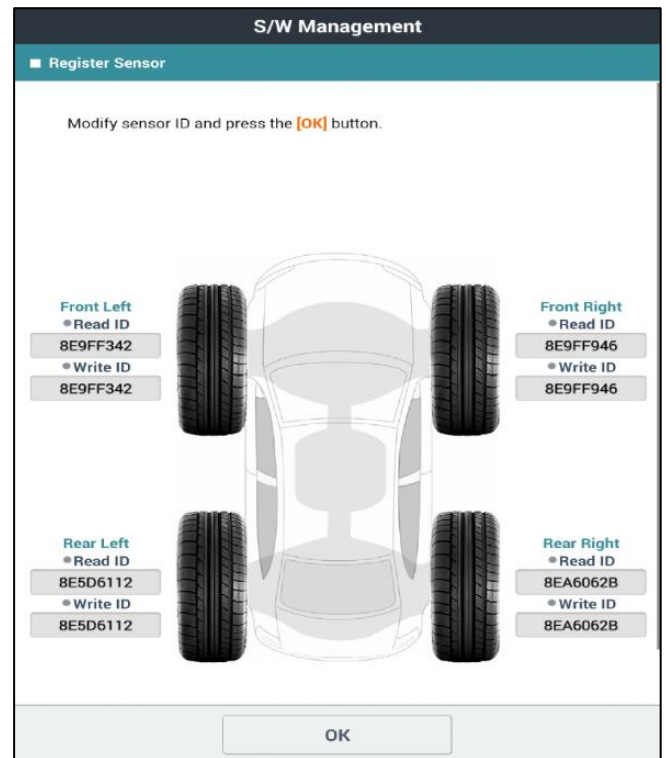
5. After the first sensor is read, move to the next sensor (**front right**). Place the TPMS tool close to the wheel sensor and **press the button on the TPMS tool**.
6. Continue onto the **right rear**, then **left rear** sensors, repeating the sensor reading as described in step 5.
7. After completing all sensors, the GDS will display ID information from all 4 sensors. Click **Write** to register these sensors to the TPMS module.



8. Click **OK** to continue.



9. The written IDs will be displayed as shown. Click **OK** to continue.



10. Set all tires to the placard pressure (cold tires).

11. Start engine and confirm no TPMS-related messages are found on the instrument cluster to complete the procedure.