



## STAR ONLINE PUBLICATION



**Case Number:** S2508000026

**Release Date:** April 2025

**Symptom/Vehicle Issue:** Tire Pressure Lamp Flashing, No Tire Pressures Displayed, "Tire Pressure Module (TPM) System Unavailable" Message Displayed on Cluster

**Customer Complaint/Technician Observation:** Owner complains or complains of one or more of the above. Technician observed the vehicle has a TPM lamp on and a Diagnostic Trouble Code (DTC) C151D-00 Tire Pressure Sensor Location Undetermined.

**Discussion:** When the localization sequence does not complete a total of 10 times consecutively the localization DTC C151D-00 is set. This DTC can be removed without replacing the Radio Frequency Hub (RFH) by following below instructions.

To remove this DTC, TPMS relearning or reprogramming need to be done instead of replacing the RFH.

The below steps need to be followed for relearning or reprogramming TPMS:

Step 1: Use the latest version of TPM-RKE Analyzer tool to do this activity

Step 2: With the scan Tool, record all 4 Sensor IDs from the RFH memory

Step 3: With the TPM-RKE Analyzer Tool at the most recent version, select the specific vehicle line and model year. **NOTE: If the incorrect vehicle line or model year are selected the TPM sensor may not respond to the TPM-RKE Analyzer Tool.**

Step 4: With the TPM-RKE Analyzer Tool, read all the TPM Sensors on the vehicle, record their IDs, wheel positions, and operation state (the TPM Sensors should be in the PARK mode). If a sensor doesn't read the first time, try several more times. **NOTE: There is a remote possibility the TPM-RKE Analyzer Tool can read a TPM Sensor from a different vehicle, instead of the vehicle being tested. If a sensor ID read by the TPM-RKE Analyzer Tool does not match any of the IDs in the RF Hub recorded earlier, relocate vehicles to a proximity that is greater than 10 feet and repeat reading.**

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

**Contact STAR Center, or your Technical Assistance Center Via TechConnect, eCONTACT or Service Library entry if no solution is found.**



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Now perform Localization test as shown below:

- With the scan tool, write false IDs into each of the sensor locations in the RF Hub as follows: Sensor 1 = 11111111, Sensor 2 = 22222222, Sensor 3 = 33333333, Sensor 4 = 44444444). This will cause the TPM display pressure values to go to dashes on the TPM display of the Cluster.
  - Using the sensor IDs recorded earlier with the TPM RKE Analyzer tool, write the sensor IDs into the RFH one position clockwise more than the actual position (i.e. the Sensor ID at FL is written into the RFH FR (sensor 1) position: Sensor ID at FR written into RR....). Programming the IDs will set the C151D-00 DTC to stored.
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### Note:

Use TPM analyzer tool 2046301080 to perform the vin scan and OBD2 relearn when needed, review MT2109 September 2021 Master Tech and/or Warranty Newsletter Volume 6 Issue 11 – **V6I11: All Vehicles - Tire Pressure Sensors – Reprogramming.**



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