



Manual TPMS wheel sensor Calibration - Version 4 chassis - Mack - Volvo



Internal Content

Brought to us by Robery Ruley

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Valid For

Mack Chassis - AN (4), PR

Volvo Chassis - VN (4)

Model Year - 2024 to Current

The purpose of this CBR is to explain how to manually pair a new or existing pressure sensor using PTT (Premium Tech Tool)

Programming TPMS wheel sensors

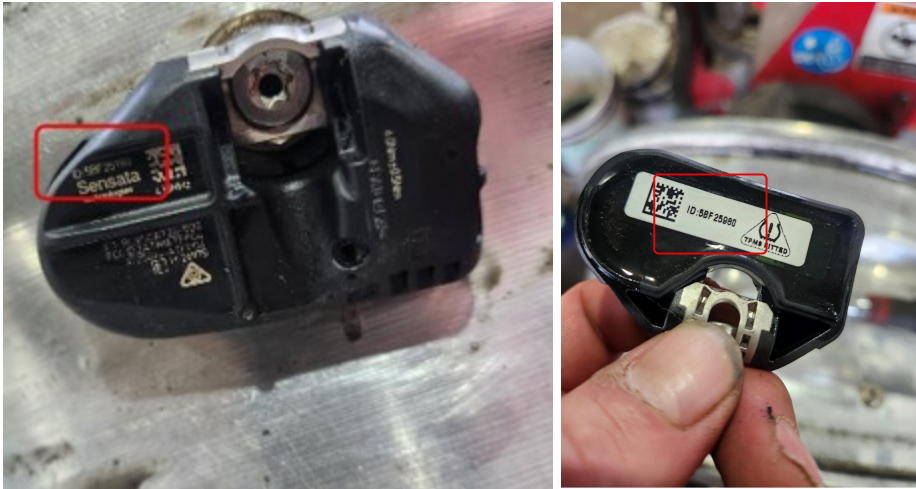
- Understand that the Tire Pressure Monitoring System (TPMS) is controlled by the Wireless Sensor Gateway (WSGW) module. All TPMS-related parameters for the wheel sensors are managed within the WSGW
- If a wheel sensor requires replacement due to damage from a tire blowout or a defective sensor, the sensor must be properly paired and programmed to the WSGW
- After the sensor has been installed, it must be paired and programmed to the WSGW using one of the approved methods

1. Refer to the driver guide for the sensor pairing procedure
2. Use Premium Tech Tool or Workshop Toolbox to manually enter the decimal IDs into the correct

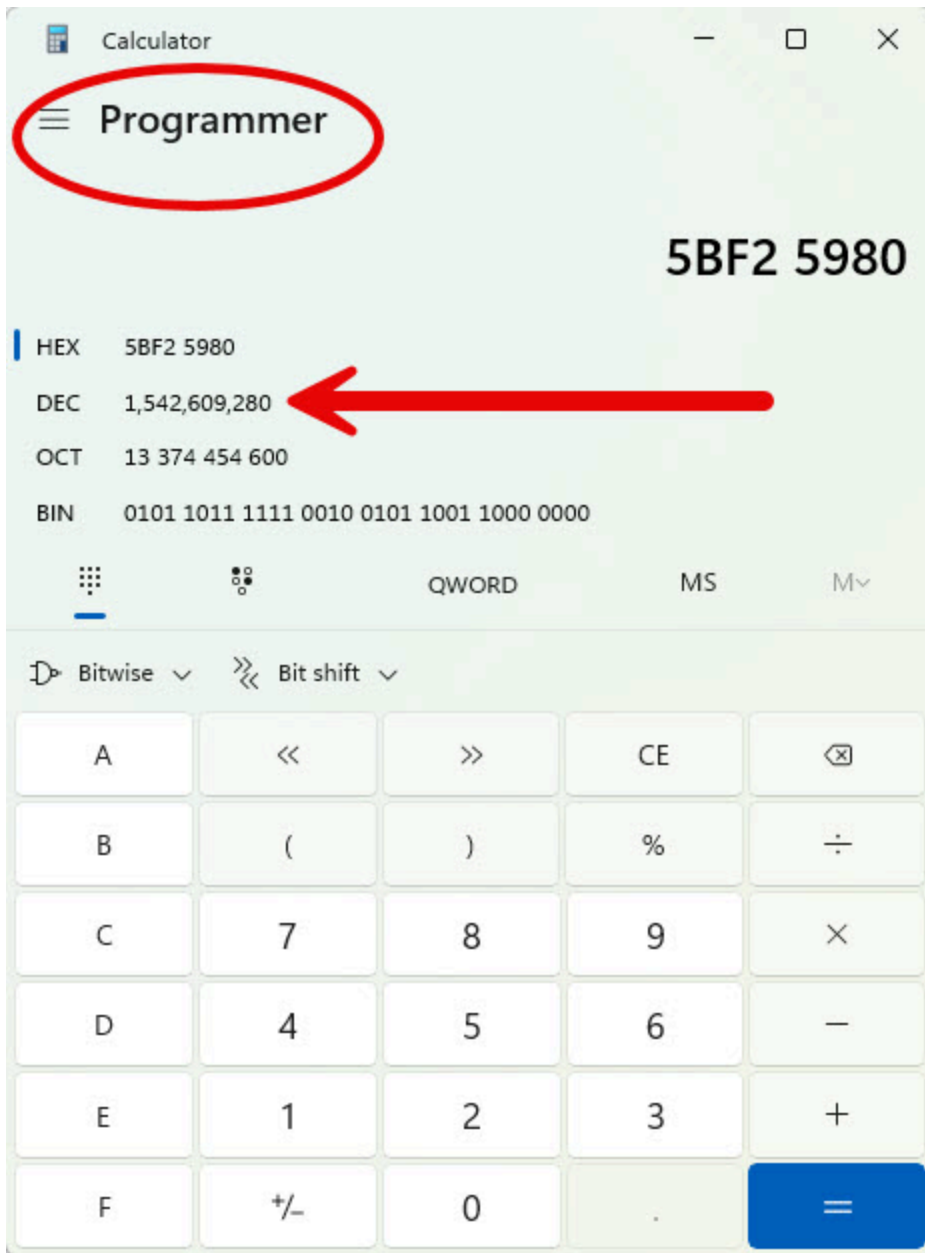
Live UI /wheel locations under parameter P1LWM

The TPMS wheel sensor can manually be pair to the WSGW buy using parameter programming during a wheel sensor replacement. Follow the steps below

- Before installing the new sensor in the wheel, take a clear picture or document the hexadecimal ID printed on the sensor. This hexadecimal ID will need to be converted to a decimal value for parameter programming in the WSGW

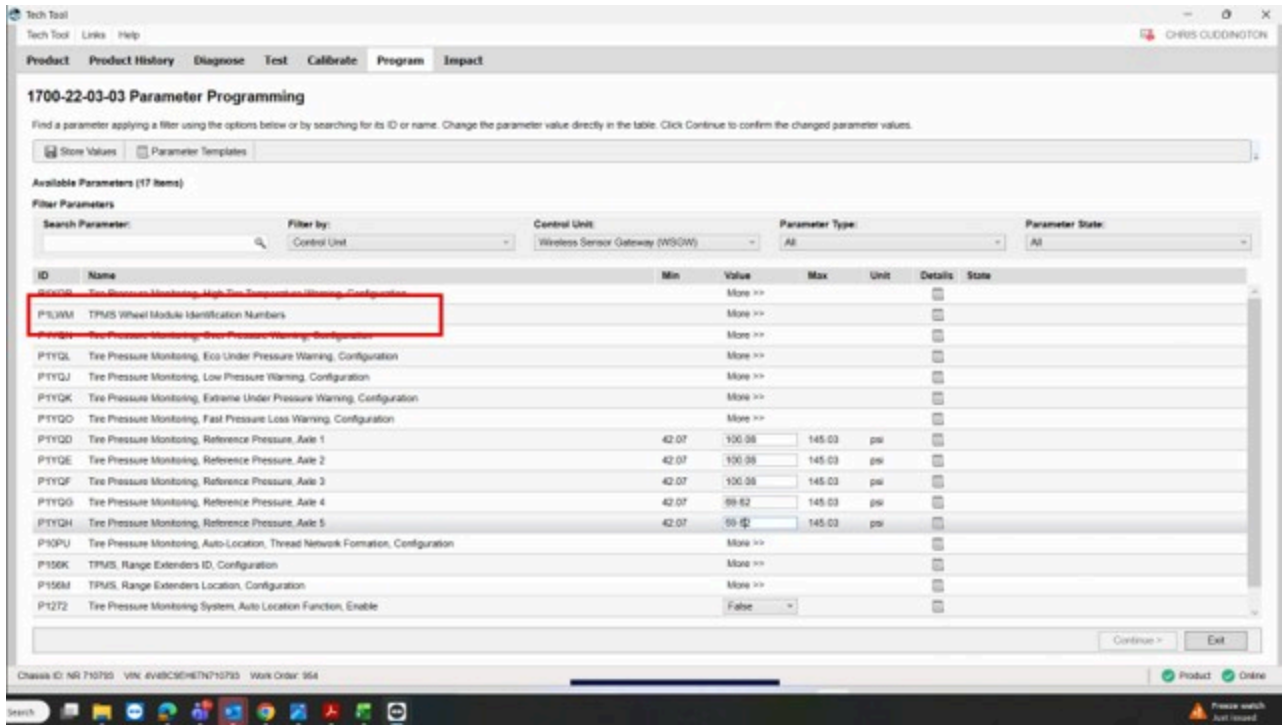


- To convert from hexadecimal to decimal use your PC's supplied desktop calculator app (or any available method). An example can be seen below:
- using the desktop calculator app, click the hamburger menu top left (three vertical bars), change to programmer mode, enter sensor ID 5BF25980, and we see the decimal value is 1542609280. Retain this value for use in PTT



Adding Converted decimal ID to WSGW

- Take the converted decimal ID and program it into the correct wheel position within the WSGW using parameter programming, parameter P1LWM
- Ensure the sensor ID is entered in the proper location corresponding to the correct tire position before saving the changes



Adding new TPMS sensor ID's to WSGW P1LWM parameter

Complex Parameter

Parameter Programming

ID	Name	Details
P1LWM	TPMS Wheel Module Identification Numbers	
▲ Axle1ID		
	Left Outer Wheel Axle1	Min 0 <input type="text" value="0"/> Max 4294967295
	Left Inner Wheel Axle1	Min 0 <input type="text" value="1542536319"/> Max 4294967295
	Right Inner Wheel Axle1	Min 0 <input type="text" value="1542537104"/> Max 4294967295
	Right Outer Wheel Axle1	Min 0 <input type="text" value="0"/> Max 4294967295
▲ Axle2ID		
	Left Outer Wheel Axle2	Min 0 <input type="text" value="1542534892"/> Max 4294967295
	Left Inner Wheel Axle2	Min 0 <input type="text" value="1542536207"/> Max 4294967295
	Right Inner Wheel Axle2	Min 0 <input type="text" value="1542537260"/> Max 4294967295
	Right Outer Wheel Axle2	Min 0 <input type="text" value="1542534758"/> Max 4294967295
▲ Axle3ID		
	Left Outer Wheel Axle3	Min 0 <input type="text" value="1542535357"/> Max 4294967295
	Left Inner Wheel Axle3	Min 0 <input type="text" value="1542534787"/> Max 4294967295
	Right Inner Wheel Axle3	Min 0 <input type="text" value="1542607145"/> Max 4294967295
	Right Outer Wheel Axle3	Min 0 <input type="text" value="1542586847"/> Max 4294967295
▲ Axle4ID		
	Left Outer Wheel Axle4	Min 0 <input type="text" value="0"/> Max 4294967295
	Left Inner Wheel Axle4	Min 0 <input type="text" value="0"/> Max 4294967295
	Right Inner Wheel Axle4	Min 0 <input type="text" value="0"/> Max 4294967295
	Right Outer Wheel Axle4	Min 0 <input type="text" value="0"/> Max 4294967295
▲ Axle5ID		

Add new Decimal ID to correct location

Example of steer axle left wheel sensor

Live UI

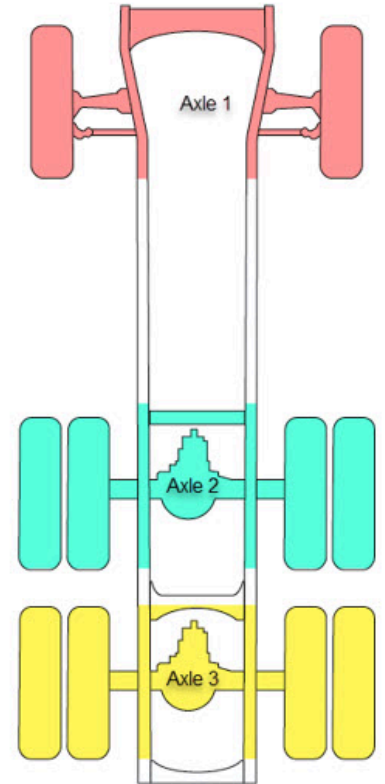
TPMS Wheel Module Identification Reference by Wheel Location

- Parameter (P1LWM) TPMS Wheel Module Identification Numbers
- Parameter (P1LWM) can be found in Parameter Programming under the WSGW module

Axle location reference

Parameter Programming

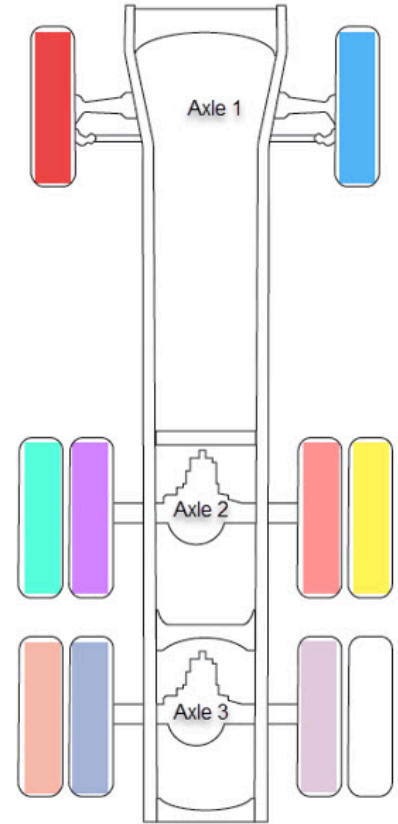
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▲ Axle1ID		
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▲ Axle4ID		
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Left Inner Wheel Axle4	Min 0 <input type="text" value="0"/> Max 4294967295	
Right Inner Wheel Axle4	Min 0 <input type="text" value="0"/> Max 4294967295	
Right Outer Wheel Axle4	Min 0 <input type="text" value="0"/> Max 4294967295	
▲ Axle5ID		



TPMS wheel sensor location reference

Parameter Programming

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▲ Axle5ID		



Recommended aftermarket tool

There are many TPMS tools available on the market; however, the selected tool must have the capability to read tire sensor IDs wirelessly from outside the tire. When using a proper TPMS tool, the sensor ID can be obtained without dismantling the tire. The retrieved ID can then be used to program the corresponding parameter (P1LWM) in the WSGW, as outlined in the previous steps

Example of TPMS tool that displays ID's

<https://www.ateq-tpms.com/en-us/products/vt-truck-2-0/>

Sensor Installation Guide







chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.sensata.com/sites/default/files/a/sensata-valve-mounted-wheel-unit-sensors-datasheet.pdf



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