

Daimler Truck Tire Pressure Monitoring System



Key Topics:

-  **What is it?**
-  **Why is it Important?**
-  **Key Features**

Daimler Truck Tire Pressure Monitoring System



What is it?

The fifth generation Cascadia offers a proprietary tire pressure monitoring system (TPMS). Equipped with a rim mounted sensor, TPMS will effectively monitor temperature and air pressure of the tires and provide real time data to the customer on the dash. The driver will not be notified if tire pressure and temperature is within range. The TPMS utilizes network receivers and controllers to push fault data to the truck's instrument cluster ensuring the driver has insight into levels while on the road. This fault data will display high or low alerts (see specifications table on the right) on the instrument cluster of unsafe and inefficient pressure and temperature conditions. This fault data will also be available via the Detroit Connect Portal. The Daimler Truck Tire pressure monitoring system is the only industry system that allows tires to be swapped without having to do difficult programming, remapping, or changing settings. As the truck drives the sensors auto calibrate to both wheel location and chassis number.



Why is it important?

As you drive, pressure and temperature naturally increases. Setting warnings on temperature and pressure gives you time to get off the road before damage occurs due to climbing heat or inadequate pressure. By consistently monitoring tire pressure and temperature levels drivers can mitigate unplanned stops and down time due to the loss of tire function. Return on investment of TPMS and safety operations can improve due to decreased tire wear, reduced road service costs and improved fuel economy. With a propriety TPMS offering, this data will now be integrated into the Detroit Connect Portal. This streamlines all the trucks telematics data in a centralized location for fleet managers to monitor information collected about a vehicle's location, operation, and function for analysis for making optimized decision-making. Maintaining the correct tire pressure directly correlates to maximizing GHG benefits.



Key Features:

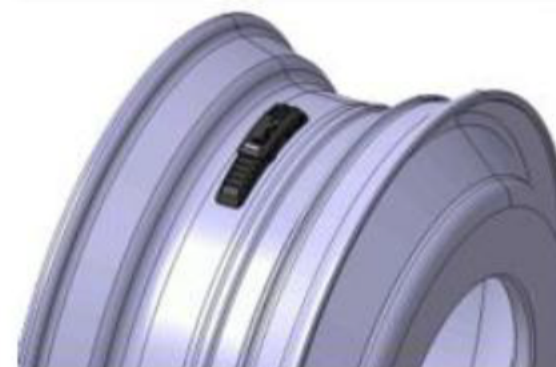
- Rim mounted with a "ski boot" like strap for protection and ability to monitor tire temperature.
- Only OEM with AutoLearn sensors which automatically detect wheel location after 1-2 minutes of driving.
- Sensors can be easily relocated by hand without tools when replacing or moving to another tire.
- Temperature and tire pressure warnings integrated into instrument cluster.
- Estimated battery lifetime of 7 years*
- Sensors continuously transmits and saves data in the Detroit Connect Portal on tire wear and fuel efficiency.
- Fits 22 ½ inch & 24 ½ inch rims.

Rim Type Mounting



Specifications:

- Optimal Front Pressure: 110psi
- Optimal Rear Pressure: 105psi
- High Pressure Warning: 115%
- Low Pressure Warning: 85%
- Extremely Low Pressure Warning: 80%
- Over Temperature: 185°F
- Over Pressure: 115psi



* Not rebuildable

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Serviceability: The rim mounted sensor has an approximate battery life of 7 years. Once the battery expires, the entire sensor will need to be replaced. The sensors are covered in the TC4 extended warranty package.

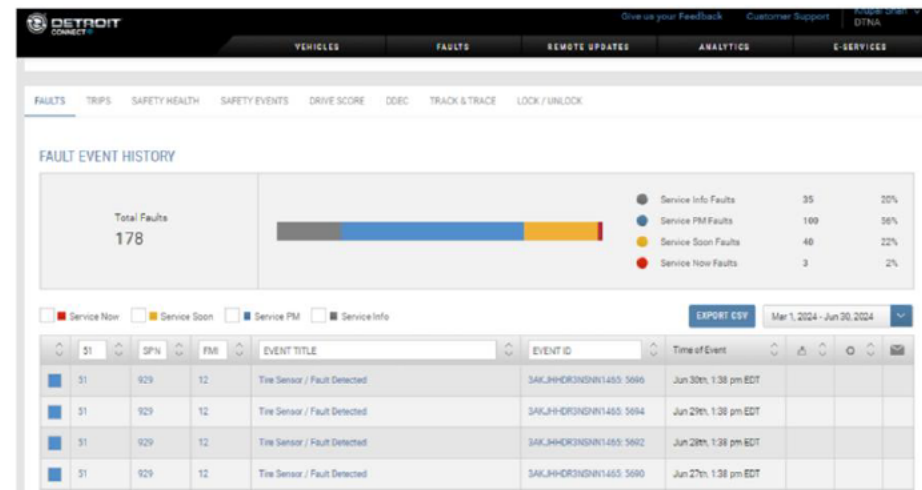
Resources: The Fifth Generation Cascadia Pitch Deck TPMS

Affected models: All Daimler Truck North America models, C/O 1/1/2025

Data Codes:

489-037	DAIMLER TRUCK TIRE PRESSURE MONITORING SYSTEM WITH WHEEL RIM MOUNTED SENSORS AND INTEGRATED IN DASH	Optional
50W-003	DAIMLER TRUCK TIRE PRESSURE MONITOR SYSTEM WHEEL/RIM MOUNTED SENSORS	Optional

Detroit Connect Fault Data



Instrument Cluster Warning Messages

