

# TPMS

TIRE PRESSURE MONITORING SYSTEM

## What is a Tire Pressure Monitoring System (TPMS)?

A Tire Pressure Monitoring System is a new safety device that measures, identifies and warns the driver when one or more tires is significantly under-inflated. 100% of all 2008 model year vehicles are required to come equipped with a TPMS system.

Sensors are powered by non-serviceable batteries with a 3-10 year service life

The TPMS warning light illuminates when one or more tires becomes 25% under-inflated

Rotating tires without resetting the TPMS system will set trouble codes, trigger the warning light and may lead to premature sensor battery failure

Tire rotations and repairs may now cost more as specialized tools are required to perform manufacturer specified TPMS relearn procedures

TPMS service parts should be replaced every time a tire is removed from the wheel — these may include Valve Stem, Cap, Valve Core, Nut, Washer & Seal

## There's No Need to Go Back to the Dealer... BWD's Got You Covered!

Featuring a complete line of TPMS replacement parts including pressure sensors, mounting hardware and valve stem kits.

### What Causes a TPMS Sensor to Fail?

- Normal tire changing procedures can damage a TPMS sensor
- Sensor batteries can become discharged and fail
- Over tightening a new sensor valve can result in a broken sensor
- Road hazard damage — collisions, potholes, curbs
- Using a regular copper or brass valve core — TPMS valve stems require a special nickel-plated valve core

### Direct TPMS System

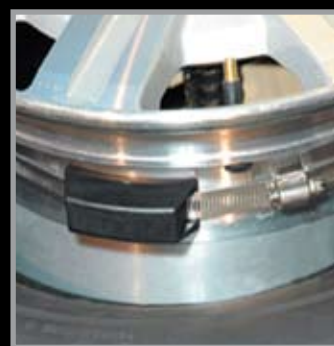
This system consists of a Receiver Antenna, Control Module, Warning Light and Wheel Mounted Sensors. Each sensor transmits temperature, air pressure, battery state and sensor location to the vehicle's computer; illuminating the TPMS warning light when one or more tires is significantly under-inflated.

### Types of TPMS Sensors

Valve Stem Mounted



Banded Mounted



### Indirect TPMS System

An indirect system utilizes the vehicle's existing ABS system to measure individual wheel speeds; as a tire deflates it rotates more rapidly. When the tire reaches 30% deflation the computer triggers the warning system.

### Does My Vehicle have TPMS?



Yes, if the tire pressure warning light temporarily illuminates or tire pressure is displayed on the dash during start-up. You cannot determine a TPMS by the valve stem; TPMS systems now use either metal or rubber valves.

## Safety. Economy. Performance.

- Increased fuel efficiency
- Improved vehicle handling
- Lowered risk of hydroplaning
- Superior braking performance
- Shorter stopping distances
- Extended tire life

# BWD

For more TPMS information visit [www.bwdautomotive.com](http://www.bwdautomotive.com)

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**TPMS can save lives, fuel, and money but only if the system is properly maintained. "When OE fails...trust BWD."**