

Diagnosis and Testing

A number of reasons can cause the TPMS warning light to illuminate or flash. Before proceeding with the actual diagnostic method using the FordETIS IDS Diagnostics, perform these basic checks:

- Verify all tires are inflated to its recommended pressure, as mentioned in the Owner's Manual.
- Inspect all the tires and wheels for any visual damage.
- Check that all the wheels have a TPMS sensor appropriately installed.

If these above conditions are verified as fine, then proceed for further diagnosis.

The TPMS warning indicator alerts the customer of faulty conditions in 2 different ways.

TPMS indicator illuminates continuously

The TPMS warning indicator remains on continuously and the message center displays LOW TIRE PRESSURE when any of the tire pressures fall below the low pressure limit. When this condition exists, check that all tires are correctly inflated to the recommended cold tire pressure indicated on the placard pressure label. Perform system reset.

TPMS indicator flashes

When the TPMS warning indicator flashes for 75 seconds and remains continuously on when the ignition is set to ON, it means the TPMS is malfunctioning. The Parameter Identification (PID) TP_STAT can be used to determine why the TPMS warning indicator is flashing.

- The message center displays TIRE PRESSURE SENSOR FAULT when a TPMS sensor is malfunctioning.
- The TPMS warning indicator illuminates when the IPC has not received any signals from the BCM for more than 5 seconds. The message center displays TIRE PRESSURE MONITOR FAULT.
- The message center displays TIRE PRESSURE MONITOR FAULT when the TPMS is malfunctioning.

TPMS replacement is called for when the TPMS fails due to mechanical or electrical failure, broken accelerometer, low TPMS battery power or blocked pressure port. One of the most common causes of failure is inappropriate handling during wheel or tire removal or servicing. The TPMS is an electronic component fitted as part of a heavyweight mechanical process.

Resetting TPMS

TPMS must be reset after every manual change to the tires or the tire pressure (wheel change or pressure adjustment).

Automatic learning process TPMS

After every reset, TPMS must go through an automatic learning process. During this time, the system knows all parameters that are required to work precisely and the warm tire pressure (depending on isolation, surface temperature, ambient air temperature, tire pressure, driving situation and friction) is learned. The process lasts 10 minutes but the system already works with default parameters before it is completed.

For all TPMS malfunctioning issues, proceed to the FordETIS IDS Diagnostics for a detailed diagnosis. FordETIS provides only supporting information to the FordETIS IDS Diagnostics.

DTC Chart: BCM (body control module)

A certain skill level and knowledge of Ford-specific diagnostic practices is assumed to perform this diagnostics.

DTC	Description
B1182:00	Tire Pressure Monitoring System: No Sub Type Information
B1182:55	Tire Pressure Monitoring System: Not Configured
B124D:02	Tire Pressure Sensor: General Signal Failure
B1251:00	Tire Pressure Sensor Low Battery: No Sub Type Information
B1254:51	Right Rear (Outside on Dual Wheel) Tire Pressure Sensor and Transmitter Assembly: Not Programmed
B1255:51	Left Rear (Outside On Dual Wheel) Tire Pressure Sensor and Transmitter Assembly: Not Programmed
C1A56:51	Left Front Tire Pressure Sensor and Transmitter Assembly: Not Programmed
C1A58:51	Right Front Tire Pressure Sensor and Transmitter Assembly: Not Programmed

For all DTC code diagnosis, proceed to the FordEtis IDS Diagnostics.

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