TPMS
Technical Service Bulletin

General Information

GI-11037-014

Applies To: **Alternate Tool Positioning & Aftermarket Sensors** **May 9, 2014**

Overview:

TPM sensors are activated with a Low Frequency Signal (LF) emitted from your TPMS tool. Depending on the sensor specification, the “power” needed to activate (wake up) the sensor will very. Your Bartec tool adjusts this output based on the Make-Model-Year you set the tool up for. TPMS sensor “LF Sensitivity” varies. Even OE sensors have different “activation power requirements”

Potential combinations you will encounter:

- OE Wheels and OE Sensors
- OE Wheels and Aftermarket Sensors
- Aftermarket Wheels and OE Sensors
- Aftermarket Wheels and Aftermarket Sensors
- Non-Traditional/OE Fitment (Band added with cradle, etc.)

Aftermarket sensors present a different challenge. Some are more sensitive to LF and other require more LF. In any case, Bartec USA tools are engineered to OE style systems.

Remember, when activating a sensor, the tool is transmitting a LF wave – aiming is important.

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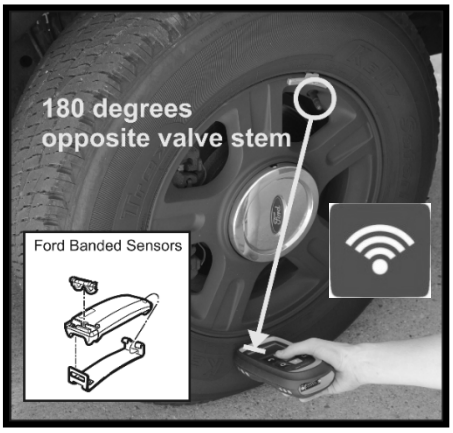
To activate your TPM sensors, please follow these steps:

Proper "Best Practice" Tool Positioning

Based on OE applications, your tool should be placed flush on the TIRE where the SENSOR is located. NOTE: Placing your tool on the WHEEL may result in adverse results.

When the OE application is Banded (Ford) the tool will need to be positioned 180 degrees opposite the valve stem, when the OE banded sensor is fitted. (Banded sensors can be replaced with valve mounted Aftermarket Sensors)



From time to time you may have to try alternatives to activate sensors.

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Alternate Tool Positioning

If you are struggling to activate sensors, you may want to try these alternate positions.

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Alternate Sensor Installations and Fitments

There are alternate fitments that can be used (IE: see above conversation of clamp in to banded sensor) that will require you to use an alternate tool positioning.

Using Aftermarket Sensors

When using aftermarket sensors, alternate tool positioning may be needed. Aftermarket sensors are generally set up to act like the OE sensors for LF activations, but in some cases may require more LF or alternate tool positioning.

Bartec tunes the LF output for OE sensor activations, but in some cases more LF output may be needed.

In these scenarios, the following “work-around” can be used:

- Activate the sensors outside the Wheel/Tire Assembly
  - Stationary Relearns: complete before installing sensors
  - OBD: Capture IDS before mounting sensors, write to vehicle
- Delta P (Reduce Pressure) to force transmission
- Use alternate tool positions from previous section