SMARTIRE® BY BENDIX CVS
TIRE PRESSURE MONITORING SYSTEM (TPMS)
BT37 LOW-FREQUENCY (LF)
MAINTENANCE HAND TOOL
OPERATOR'S MANUAL

SmarTire® *by Bendix CVS* *Tire Pressure Monitoring System*

Introduction

This Operator's Manual provides an overview of the SmarTire® by Bendix CVS Tire Pressure Monitoring System (TPMS) BT37 Low-Frequency (LF) Maintenance Hand Tool. This manual explains the safe practices, functions, features, and alerts of the system. Read this manual thoroughly before operating the maintenance hand tool. Be familiar with the controls and what to expect when the system is in operation.

The SmarTire by Bendix CVS System consists of a tire pressure sensor inside each tire that transmits Radio Frequency (RF) signals containing a unique Identification Number (ID #), actual tire pressure, temperature, and sensor battery condition to an Electronic Control Unit (ECU) attached to the vehicle's J1939 communication bus. This ECU receives and interprets the RF signal(s) from the sensor and warns the driver of a potential tire condition.

It is important that the ECU is programmed correctly with each sensor location on the vehicle so it can indicate to the driver which tire has the incorrect pressure and/or excessive temperature. Each time the tires are serviced or rotated, the ECU must relearn the current position of each tire pressure sensor and tire and wheel assembly.

The BT37 LF maintenance hand tool is used to facilitate this learning process, for example, when using Bendix® ACom® PRO™ Diagnostic Software. It can also be used as an electronic pressure gauge to measure the current pressure and temperature of any tire on a vehicle equipped with Bendix TPMS sensors.

Button and Icon Functions

CHECK SENSOR

TRIGGER CHOICE

SETTINGS

LF TRIGGER

PREVIOUS MENU

OK (SELECTION)

NAVIGATION

POWER ON/OFF

Figure 1 – SmarTire® by Bendix CVS TPMS BT37 LF Maintenance Hand Tool

Operation

Powering the Tool On and Off

See Figure 2. Press the *Power On/Off button* to power on the BT37 Low-Frequency (LF) maintenance hand tool. A Bendix splash screen will appear, followed by the current software version operating on the maintenance hand tool. To power off the unit, hold the *Power On/Off button* for approximately two (2) seconds.

BENDIX SPLASH SCREEN   SOFTWARE VERSION

BENDIX
T1AL1-01-06

Figure 2 – Power On/Off

Trigger Choice

The BT37 maintenance hand tool supports two (2) triggers. The *Initiation Trigger* activates the Tire Pressure Monitoring System (TPMS) sensor to send current pressure and temperature values. The *Learn Trigger* activates the TPMS sensors when performing Learn operations for the TPMS Electronic Control Unit (ECU). Follow these steps to choose the appropriate trigger for your need.

Figure 3 – Trigger Choice

1. *See Figure 1.* To select a trigger, use the *Navigation buttons* to select the *Trigger Choice icon*. Then press the *OK button*.

2. *See Figure 3.* Use the *Navigation buttons* to select the desired trigger. Then, press the *OK button* to return to the main menu.
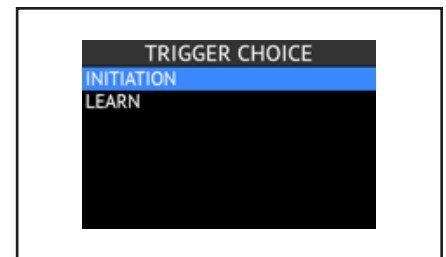
Triggering the Sensor

Use the *Navigation buttons* to select the *Check Sensor icon*. Then, press the *OK button*. Hold the BT37 unit next to the tire sidewall at the valve stem.

See Figure 1. Press the *LF Trigger button*. *See Figure 4.* Wait for the *Trigger Processing bar* to reach the end before moving the tool.

To change the *LF Trigger type*, press the *Previous Menu button* to return to the main menu and then select the trigger desired.
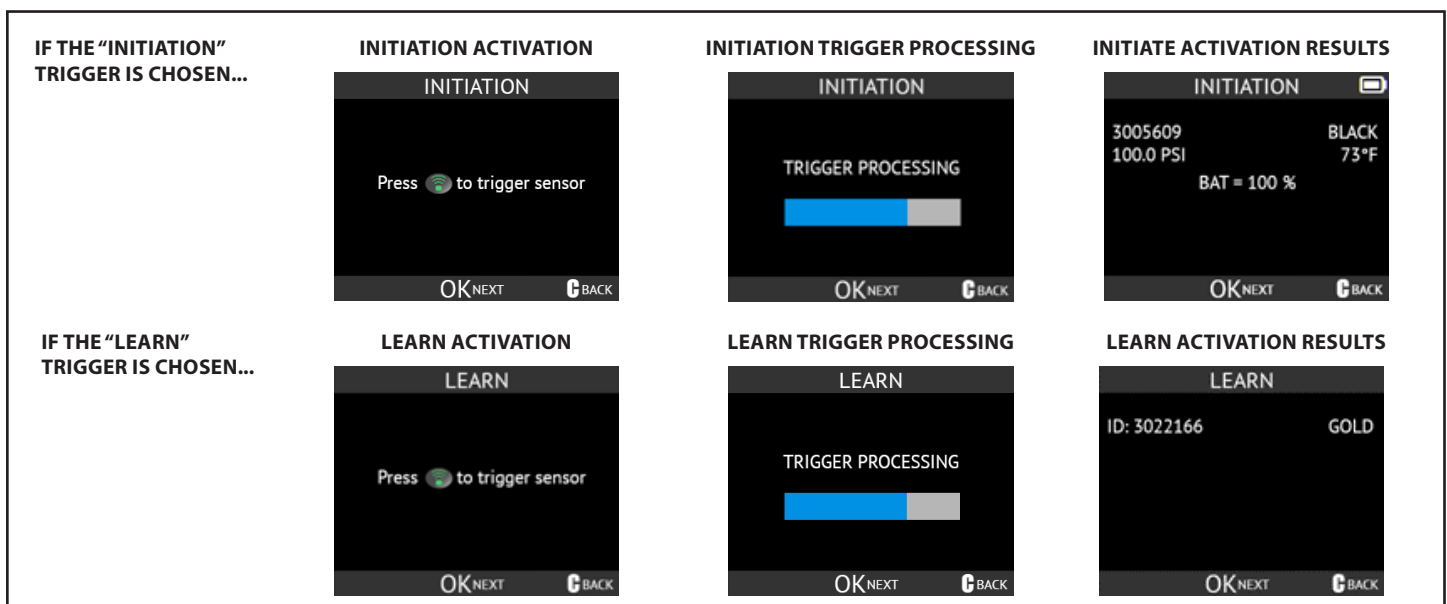

Figure 4 – Sensor Activation

Changing the Settings

See Figure 5. Press the *Previous Menu button* to return to the main menu. Use the *Navigation buttons* to select the *Settings icon*. Then, press the *OK button*.

Use the *Navigation buttons* to select a menu item.

- <u>Units</u>: Designates the units for pressure (psi, kPa, or Bar) and temperature (C, F)

- <u>Format</u>: Displays the Sensor ID in Decimal or Hex (Bendix recommends leaving this in *Decimal*)

- <u>LF Power:</u> Sets the activation power level (Bendix recommends leaving this at *Default*. If the power level is two high, the BT37 maintenance hand tool may activate two [2] sensors in close proximity)

- <u>Buzzer</u>: Turns the audible buzzer on or off

- <u>Auto Off</u>: Sets the length of time before the BT37 unit will power off due to inactivity

- <u>About</u>: Displays BT37 information such as serial number and software version

Figure 5 – Settings

<h1 style="text-align:center">ONE-YEAR (1) LIMITED WARRANTY</h1>

The manufacturer warrants this product to the original user against defective material or workmanship for a period of 1 year from the date of purchase. The manufacturer reserves the right to determine whether the part or parts failed because of defective material, workmanship or other causes. Failures caused by accident, alteration, or misuse are not covered by this warranty. The manufacturer, at its discretion, will repair or replace product covered under this warranty free of charge.

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A Return Material Authorization (RMA) number will be issued by technical support based on the warranty claim requirements. Please check with Standard representative or the retailer where you purchased your product for details.

Warranty claims that cannot be processed through the point of purchase and any other product related questions should be addressed directly to ATEQ TPMS Tools LC. The address and customer service contact information for ATEQ can be found on the web at https://www.ateq-tpms.com/en-us/home/contact-support/. Note: Tools requiring service or warranty repair must be accompanied by an RMA number on the shipping container for proper handling.

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