

ITCARDIAG TP T90

Think-TPMS TP T90 Activation Tire Pressure Detector TPMS Programmer + Think-TPMS-S3 TPMS Sensor Tool User Manual

Brand: ITCARDIAG | Model: TP T90

1. PRODUCT OVERVIEW

The Think-TPMS TP T90 is a comprehensive tire pressure monitoring system (TPMS) service tool designed for activating, reading, programming, and relearning TPMS sensors. It is compatible with a wide range of American, European, and Asian manufactured vehicles and works with 98% of OEM sensors. The device features a 2.5-inch screen and connects via an OBD-2 port for advanced diagnostic functions.

Key Features:

- **Standalone Operation:** Unlike some previous models, the T90 operates independently without requiring a separate PAD device for programming and learning.
- **Comprehensive TPMS Functions:** Activates, reads, programs, and relearns all known TPMS sensors.
- **User-Friendly Design:** Portable and easy-to-use, suitable for both professional mechanics and everyday car owners.
- **Wide Sensor Compatibility:** Supports programming sensor data to Think-car & MU-CAR TPMS sensors (S1/S2/S3) and can replace faulty sensors.
- **Efficient Programming:** Up to 8 sensors can be programmed simultaneously.
- **Extensive Vehicle Coverage:** Compatible with 98% of OEM sensors and nearly every TPMS-equipped vehicle.
- **Wireless Programming:** The TPMS S3 sensors can be programmed wirelessly even after being mounted to the wheel due to extraordinary signal strength.



Figure 1: The Think-TPMS TP T90 Activation Tool shown with four TPMS S3 sensors, illustrating the complete product package.

2. SETUP GUIDE

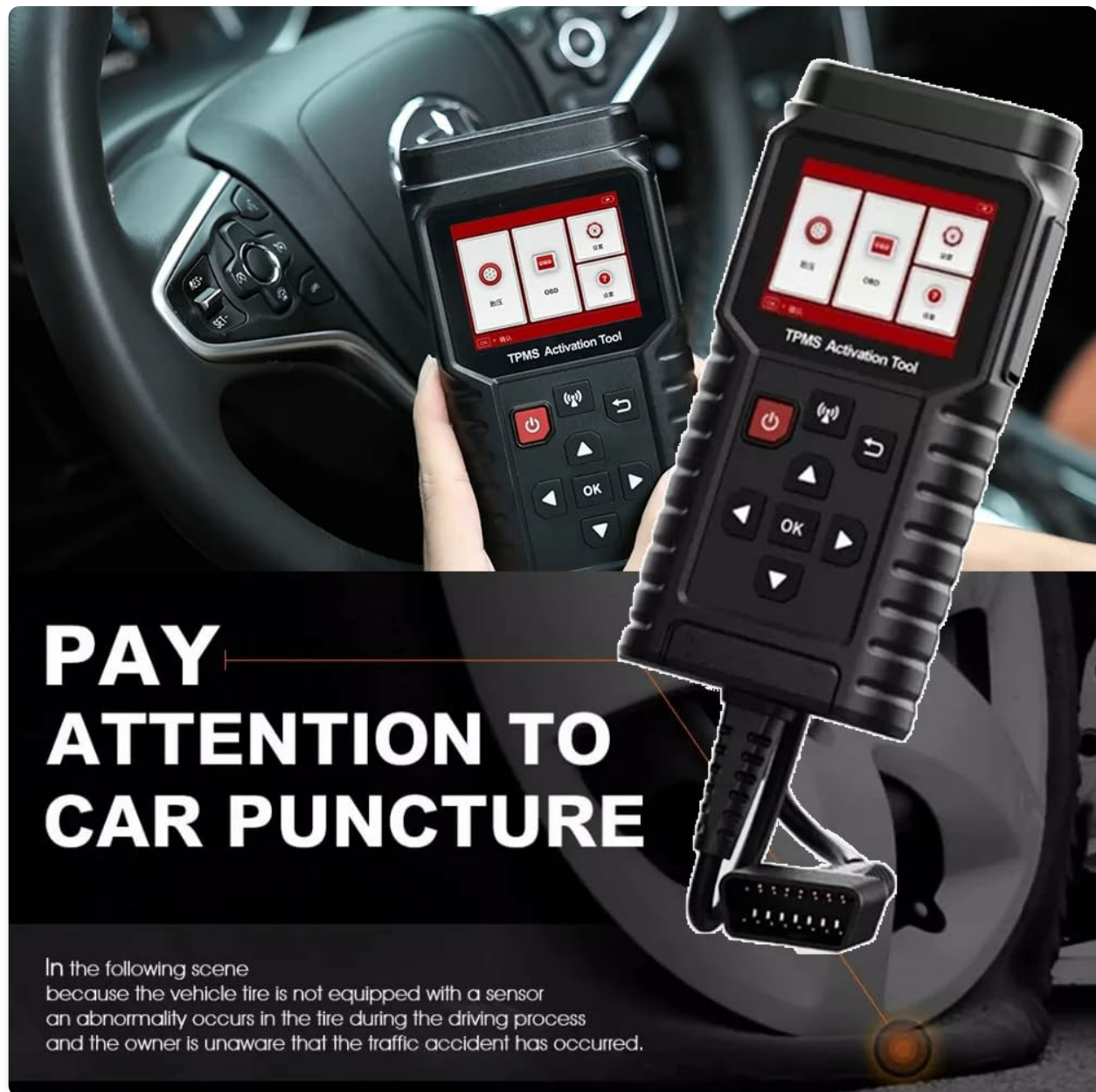
The Think-TPMS TP T90 is designed for plug-and-play operation, making initial setup straightforward.

2.1 Initial Device Connection

1. Locate the OBD-2 port in your vehicle. This is typically found under the dashboard on the driver's side.
2. Connect the provided OBD-2 cable from the TP T90 device to the vehicle's OBD-2 port.
3. The device will power on automatically once connected to the vehicle's OBD-2 port.

2.2 Powering On/Off

- **Power On:** The device powers on automatically when connected to the vehicle's OBD-2 port.
- **Power Off:** Disconnect the device from the OBD-2 port to power it off.



PAY ATTENTION TO CAR PUNCTURE

In the following scene because the vehicle tire is not equipped with a sensor an abnormality occurs in the tire during the driving process and the owner is unaware that the traffic accident has occurred.

Figure 2: The Think-TPMS TP T90 device in use within a vehicle, demonstrating its portable and handheld design.

3. OPERATING INSTRUCTIONS

The TP T90 offers various functions for managing your vehicle's TPMS. Navigate through the menu using the directional buttons and the 'OK' button.

3.1 Sensor Activation

This function is used to activate dormant TPMS sensors to read their data.

1. From the main menu, select 'Sensor Activation'.
2. Follow the on-screen prompts to position the device near each tire's sensor.
3. The device will activate the sensor and display its ID, pressure, and temperature.

3.2 Sensor Programming

The TP T90 allows you to program new or replacement sensors (such as Think-car & MU-CAR TPMS

S1/S2/S3 sensors) with the correct vehicle data. Up to 8 sensors can be programmed simultaneously.

1. Select 'Sensor Programming' from the main menu.
2. Choose the programming method (e.g., Auto Create, Manual Input, Copy by Activation).
3. Place the sensor(s) in the designated area or follow on-screen instructions for wireless programming.
4. Confirm the programming process.

3.3 Sensor Relearn

After programming new sensors or rotating tires, the vehicle's Electronic Control Unit (ECU) needs to be updated to recognize the new sensor IDs. This process is called relearning.

1. Select 'Sensor Relearn' from the main menu.
2. Choose the appropriate relearn procedure for your vehicle model (e.g., OBD Relearn, Auto Relearn, Stationary Relearn).
3. Follow the detailed on-screen instructions to complete the relearn process. This may involve driving the vehicle or performing specific actions.

3.4 Diagnostic Functions

The TP T90 supports comprehensive tire pressure fault diagnostics via the OBD-2 port.

- **Read & Clear DTCs:** Access and clear diagnostic trouble codes related to the TPMS system.
- **Live Data Stream:** View real-time data from TPMS sensors, including pressure, temperature, and battery status.
- **Read Sensor Data via Bluetooth:** The device can read sensor data wirelessly.

3.5 Reading Battery Level Condition

The device can display the battery level of the TPMS sensors, helping you identify sensors that may need replacement soon.

Tire Pressure Diagnostic Tool




-  Sensor Control
-  Sensor Diagnostics
-  Sensor Programming



Figure 3: The Think-TPMS TP T90 display interface, highlighting options for Sensor Control, Sensor Diagnostics, and Sensor Programming.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Think-TPMS TP T90 device.

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners or solvents that could damage the screen or casing.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. Keep it in its original packaging or a protective case when not in use.
- **Cable Care:** Inspect the OBD-2 cable regularly for any signs of wear or damage. Do not bend or crimp the cable excessively.
- **Software Updates:** Check the manufacturer's website periodically for software updates to ensure your device has the latest vehicle coverage and features.

5. TROUBLESHOOTING

If you encounter issues with your Think-TPMS TP T90, refer to the following common troubleshooting tips.

- **Device Not Powering On:** Ensure the OBD-2 cable is securely connected to both the device and the vehicle's OBD-2 port. Check the vehicle's battery for sufficient power.
- **Cannot Activate/Read Sensor:** Ensure the device is positioned correctly near the sensor. Verify the sensor is not damaged or out of battery. Some sensors may require the tire to be deflated slightly for activation.
- **Programming/Relearn Failure:** Double-check that the correct vehicle make, model, and year are selected. Ensure all steps of the programming/relearn procedure are followed precisely. Verify the new sensors are compatible with the vehicle.
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