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› XTOOL TP300 TPMS Programming Tool User Manual

XTOOL TP300

XTOOL TP300 TPMS Programming Tool User Manual

Model: TP300

1. INTRODUCTION

The XTOOL TP300 is a professional diagnostic tool designed for comprehensive Tire Pressure Monitoring System (TPMS) service and main vehicle system diagnostics. This device integrates TPMS sensor activation, programming, and relearn functions with advanced diagnostics for Engine, Anti-lock Braking System (ABS), Supplemental Restraint System (SRS), and Transmission. It also supports full OBD2 functions and various service resets, making it an essential tool for automotive technicians and DIY enthusiasts.

XTOOL 2026

NEW RELEASED TPMS TOOL

TP300 UPGRADED OF TP150






TP300(2026)

Screen Size :	📏 5.54 INCH
TPMS Diagnostics :	📶 ✓
Other Systems Diagnostics :	📶 Engine /Transmission /Airbag/ABS
Hot Services :	📶 8+
Full OBD2 Functions :	📶 ✓
Full TPMS Functions :	📶 ✓
22+ Multilingual :	📶 ✓
Lifetime Free Updates :	📶 ✓
Connection :	📶 Wireless (WIFI)
WiFi Update :	📶 ✓
Supported Protocols :	📶 CAN FD & DOIP

VS

TP150

Screen Size :	📏 3.95 INCH
TPMS Diagnostics :	📶 ✓
Other Systems Diagnostics :	📶 ✗
Hot Services :	📶 ✗
Full OBD2 Functions :	📶 ✗
Full TPMS Functions :	📶 ✓
22+ Multilingual :	📶 ✓
Lifetime Free Updates :	📶 ✓
Connection :	📶 Wired
WiFi Update :	📶 ✓
Supported Protocols :	📶 ✗

Figure 1: XTOOL TP300 TPMS Programming Tool

This image displays the XTOOL TP300 handheld device, its wireless Vehicle Communication Interface (VCI), and a general overview of its user interface.

2. What's in the Box

Please check the contents of your package against the list below. If any items are missing or damaged, contact your vendor.

- XTOOL TP300 Main Unit
- Wireless VCI Box
- Power Supply (5V/3A)
- Charging Adapter (EU, UK, AU variants may be included)
- Data Cable (Type-A to Type-C)
- Lanyard



Figure 2: XTOOL TP300 Package Contents

This image illustrates all the components included in the XTOOL TP300 product package, such as the main unit, VCI, cables, and adapters.

3. SETUP

3.1 Charging the Device

Before first use, fully charge the TP300 main unit. Connect the provided Type-C USB cable to the device and the power adapter, then plug the adapter into a power outlet. The charging indicator will show the charging status.

3.2 Initial Power-On and Configuration

1. Press and hold the Power button to turn on the device.
2. Follow the on-screen prompts to select your preferred language, time zone, and other initial settings.
3. Connect to a Wi-Fi network for software updates and online features. Go to **Settings > Wi-Fi** and select your network.

3.3 Software Updates

It is crucial to keep your TP300 software updated to ensure the latest vehicle coverage and functionalities. Connect the device to Wi-Fi and navigate to the **Updates** icon on the main menu. Follow the instructions to download and install available updates.



Figure 3: Software Update Interface

This image shows the XTOOL TP300 display during a software update process, highlighting the importance of regular updates for optimal

performance.

4. OPERATING INSTRUCTIONS

4.1 TPMS Service Functions

The TP300 offers comprehensive TPMS capabilities for 315MHz and 433MHz sensors.

4.1.1 TPMS Sensor Activation

This function allows you to wirelessly activate almost all OEM and universal TPMS sensors to read their data.

1. From the main menu, select **TPMS**.
2. Choose **Activate Sensor**.
3. Select the vehicle make, model, and year.
4. Follow the on-screen instructions to position the tool near each tire's sensor to activate it. The tool will display sensor ID, pressure, temperature, battery status, and frequency.



ACTIVATE 99% OF TPMS SENSORS

Wirelessly Activate All OEM/Universal TPMS Sensors.

Easily Access All Sensor Data

The advertisement features a car's dashboard with a glowing yellow TPMS warning light. To the right, the XTOOL TP300 device and its smartphone app are shown. The app interface includes buttons for TPMS, OE Query, Sensor Test, TPMS Toolbox, Test Records, and Updates. A circular inset at the bottom left shows the XTOOL device connected to a TPMS sensor via a metal probe. To the right of this inset, a list of accessible sensor data is provided with corresponding icons.

Icon	Parameter
ID	Sensor ID
Pressure	Sensor Pressure
Temperature	Sensor Temperature
Battery	Sensor Battery
Position	Sensor Position
Hz	Sensor Frequency

Figure 4: TPMS Sensor Activation

This image demonstrates the XTOOL TP300 activating a TPMS sensor, showing the device displaying sensor data such as ID, pressure, and temperature.

4.1.2 TPMS Sensor Programming

The TP300 can program XTOOL TS100 sensors using four methods:

1. **Auto ID Generation:** Creates a new, unique sensor ID.
2. **Manual ID Entry:** Allows you to input an existing sensor ID.
3. **Copy ID via Activation:** Reads the ID from an existing sensor and programs it to a new sensor.
4. **Copy ID via OBD:** Retrieves sensor IDs from the vehicle's ECU via the OBD port and programs them to new sensors.

4 Ways To TPMS Programming

DIY Your TPMS – No Dealer or Tire Shop Needed!

- ✓ Wireless Programming
- ✓ Program Again & Again
- ✓ Fast, Easy, Accurate
- ✓ Program XTOOL TS100 ONLY (not included)

1 Auto ID Generation

2 Manual Input ID

3 Copy ID by Activation

4 Copy ID by OBD

Note: TP300 can only program XTOOL TS100/TS100-PRO sensors. It cannot program OEM sensors.

Figure 5: TPMS Sensor Programming Methods

This image illustrates the four different methods available on the XTOOL TP300 for programming TPMS sensors: Auto ID Generation, Manual ID Entry, Copy ID via Activation, and Copy ID via OBD.

4.1.3 TPMS Relearn

After replacing sensors or rotating tires, the vehicle's ECU needs to relearn the new sensor IDs and positions. The TP300 supports four relearn methods:

- **Automatic Relearn:** The vehicle learns new sensor IDs during a drive cycle.
- **OBD Relearn:** Sensor IDs are written directly to the vehicle's ECU via the OBD port.
- **Stationary Relearn:** Requires the vehicle to be in a specific mode (e.g., parking brake engaged) and often involves activating sensors in a specific order.
- **Copy Sensors Relearn:** Copies existing sensor IDs to new sensors, eliminating the need for a relearn procedure if the IDs match the ECU's stored data.

MASTER YOUR TPMS RELEARN
4-Way Relearn Made Simple – DIY Your TPMS

99% Coverage

The image displays four smartphone screens showing the XTOOL TP300 app interface for TPMS relearn methods:

- OBD Relearns:** Shows a car diagram with sensor locations and a table of sensor IDs (HEX) and DTCs. A green checkmark indicates "NO DTC".
- Manual Relearns:** Shows a dialog box to "Enter the sensor ID" with options for HEX or DEC.
- Auto Relearns:** Shows a car diagram with sensor locations and a table of sensor IDs (HEX) and SN codes.
- Copy Sensors:** Shows a dialog box to "Whether to program ID (HEX): 23819BE6 to the sensor".

Figure 6: TPMS Sensor Relearn Methods

This image displays the four relearn methods supported by the XTOOL TP300: OBD Relearn, Manual Relearn, Auto Relearn, and Copy Sensors, ensuring broad compatibility for TPMS system resets.

4.1.4 TPMS Diagnostics

This function allows you to read and clear TPMS Diagnostic Trouble Codes (DTCs), check the health of the TPMS system, and turn off the TPMS warning light.

4.2 System Diagnostics

The TP300 can diagnose four main vehicle systems: Engine, ABS, SRS, and Transmission.

1. Connect the VCI to the vehicle's OBD2 port.
2. From the main menu, select **Diagnosis**.
3. The tool will automatically identify the vehicle via Auto VIN or prompt for manual selection.
4. Select the system you wish to diagnose (e.g., Engine, ABS).
5. You can then choose to **Read Fault Codes**, **Clear Fault Codes**, or view **Live Data Stream**.

4.3 Service Functions (Resets)

The TP300 supports over 8 common service functions:

- **Oil Reset:** Resets the oil life reminder.
- **ABS Bleeding:** Bleeds air from the brake system.
- **EPB Reset:** Resets the electronic parking brake after pad replacement.
- **Throttle Body Relearn:** Relearns the throttle valve position.
- **SAS Calibration:** Calibrates the steering angle sensor.
- **Tire Size Reset:** Adjusts vehicle parameters after changing tire size.
- **DPF Regeneration:** Initiates diesel particulate filter regeneration.
- **GPF Regeneration:** Initiates gasoline particulate filter regeneration.

8+ HOT SERVICE FUNCTIONS

Quickly Reset Core Vehicle Systems – Fast & Easy

Oil Reset

ABS Bleeding

EPB
(P)

Throttle Relearn

SAS

D-P-F Regeneration

Tire Size Setting

G-P-F Regeneration

TPMS

Engine

ABS

SRS

Transmission

Note: Please check the compatibility before ordering: xtoolofficial@hotmail.com

Figure 7: Hot Service Functions

This image highlights the various quick reset functions available on the XTOOL TP300, including Oil Reset, ABS Bleeding, EPB Reset, and Throttle Relearn.

4.4 OBD2 Functions

The TP300 provides full OBD2 functionality for all OBD2 compliant vehicles (1996 and newer).

- **Read DTCs:** Retrieves current, pending, and permanent diagnostic trouble codes.
- **Clear DTCs:** Erases diagnostic trouble codes and turns off the Malfunction Indicator Lamp (MIL).
- **Live Data:** Displays real-time data stream from vehicle sensors.
- **I/M Readiness:** Checks the status of emission-related monitors.
- **Freeze Frame Data:** Shows engine conditions at the time a fault code was set.
- **O2 Monitor Test:** Retrieves O2 sensor monitoring test results.
- **On-Board Monitor Test:** Retrieves results for emission-related powertrain components and systems.
- **Component Test:** Allows initiation of a leak test for the vehicle's EVAP system.
- **Vehicle Information:** Retrieves VIN, CIN, and CVN.



Figure 8: Full OBD2 Functions

This image details the comprehensive OBD2 functions available on the XTOOL TP300, including reading DTCs, viewing live data, and performing various system checks.

4.5 Official Product Videos

Video: XTOOL TP300 TPMS TOOL + Engine ABS SRS Transmission Scanner

Your browser does not support the video tag.

This video provides an overview of the XTOOL TP300's capabilities, showcasing its integrated TPMS functions and diagnostic features for Engine, ABS, SRS, and Transmission systems.

Video: XTOOL TPMS Programming & OBD2 Scanner Diagnostic Tool

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This video demonstrates the XTOOL TP300's TPMS programming features and its functionality as an OBD2 scanner for comprehensive vehicle diagnostics.

Video: XTOOL TP300: TPMS service, 4-system diagnostics, 8+ resets

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This video highlights the key features of the XTOOL TP300, including its TPMS service capabilities, 4-system diagnostic functions, and over 8 reset services.

5. MAINTENANCE

5.1 Software Updates

Regularly check for and install software updates via Wi-Fi to ensure optimal performance, the latest vehicle coverage, and new features. This is a lifetime free service.

5.2 Cleaning the Device

Use a soft, damp cloth to clean the device's screen and body. Avoid using abrasive cleaners or solvents that could damage the plastic or screen.

5.3 Battery Care

To prolong battery life, avoid fully discharging the device frequently. Store the device in a cool, dry place when not in use for extended periods.

6. TROUBLESHOOTING

- **Device does not power on:** Ensure the device is fully charged. If the issue persists, contact technical support.
- **VCI not connecting to vehicle:** Check if the VCI is securely plugged into the OBD2 port. Ensure the vehicle's ignition is on. Verify the VCI's indicator lights are active.
- **TPMS light not resetting:** Ensure all sensors are correctly activated and relearned. Check for faulty or damaged sensors, as these will prevent the light from resetting. Perform a full TPMS diagnostic to identify specific issues.
- **Software update failure:** Ensure a stable Wi-Fi connection. Try restarting the device and attempting the update again. If the problem continues, contact support.

7. SPECIFICATIONS

Display	5.45-inch HD Touchscreen
Processor	Quad-Core 1.8GHz
Operating System	Linux
Memory	64GB (expandable)
Battery	4500mAh
Connectivity	Dual-band Wi-Fi (2.4GHz & 5GHz), Wireless VCI
Dimensions (L x W x H)	10 x 6 x 3.5 inches
Supported Protocols	FCA, CAN FD, DoIP, and standard OBD2 protocols
Languages	22 languages supported

8. WARRANTY AND SUPPORT

8.1 Product Warranty

The XTOOL TP300 comes with a **2-Year US Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

8.2 Technical Support

XTOOL provides **Lifetime Technical Support** for the TP300. If you encounter any issues or have questions regarding the operation of your device, please contact XTOOL's customer service. Support is available 24/7.
For technical assistance, please refer to the contact information provided with your product or visit the official XTOOL website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

<https://manuals.plus/asin/B0GLH6RFFJ>

More documents and user manuals: <https://manuals.plus/>