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› TopDiag T300PRO OBD2 Scanner & 12V/24V Battery Tester Instruction Manual

TopDiag Topdiag T300PRO

TopDiag T300PRO OBD2 Scanner & 12V/24V Battery Tester Instruction Manual

Automotive Scan Tool for Check Engine Light, Live Data, Car Code Reader and Car Battery Health Analyzer

1. PRODUCT OVERVIEW

The TopDiag T300PRO is a versatile 2-in-1 professional tool combining a full-featured OBD2 scanner diagnostic tool with a professional 12V/24V battery tester. This device allows for quick reading and clearing of check engine codes, alongside comprehensive analysis of your vehicle's battery health, starter, and charging system. It is designed to help users diagnose common car problems, saving time and money by avoiding separate tools and unnecessary repair shop visits.

T300PRO

2-in-1

Supports cloud printing

Battery Diagnostics+OBD II scanner

For OBD II compliant vehicles (Matches up to 97% of models)



Image: The TopDiag T300PRO device displaying its dual functionality as an OBD2 scanner and battery tester, highlighting key features like DTC reading, live data, and battery life detection.

2. GETTING STARTED (SETUP)

The T300PRO is a plug-and-play device requiring no batteries, apps, or complex setup. Simply connect it to your vehicle's OBDII port, and it will power on instantly.

1. **Locate the OBDII Port:** The OBDII port is typically located under the dashboard on the driver's side.
2. **Connect the Scanner:** Plug the scanner's OBDII connector into the vehicle's OBDII port.
3. **Power On:** The device will automatically power on once connected.
4. **Ignition:** Turn the vehicle's ignition to the 'ON' position (engine can be off or running depending on the test).

WHAT IS IN THE BOX



Image: A visual guide demonstrating the five simple steps to use the TopDiag T300PRO, from plugging it into the OBDII port to scanning and clearing fault codes.

3. OBD2 DIAGNOSTIC FUNCTIONS

The T300PRO offers 10 full OBD2 functions to help you understand and resolve engine-related issues.

- **Read DTC (Diagnostic Trouble Codes):** Identifies problems when the warning light turns on, providing clear definitions.
- **Clear DTC:** Erases diagnostic trouble codes and turns off the Check Engine Light after repairs.
- **Live Data:** Displays real-time data streams from various sensors, allowing for dynamic monitoring of vehicle performance.
- **Freeze Frame:** Captures a snapshot of critical sensor values when a fault code is triggered, aiding in diagnosis.
- **I/M Readiness Monitor:** Checks your vehicle's smog test status to ensure all monitors are ready before inspection.
- **O2 Sensor Test:** Monitors the oxygen sensors to ensure proper exhaust gas analysis.
- **EVAP System Test:** Verifies the integrity of the evaporative emission control system for potential leaks.
- **ECU Information:** Retrieves vehicle information such as VIN, calibration ID, and calibration verification number.
- **Mode 6:** Advanced test results for non-continuously monitored systems.
- **Mode 8:** Component Test, allowing for on-demand testing of specific components.

FAST & ACCURATE OBD2 DIAGNOSTICS 10 FULL **OBD2** FUNCTION (Save Time & Avoid Costly Repairs)



Image: A car dashboard illustrating the various OBD2 functions of the T300PRO, including reading and clearing codes, live data stream, freeze frame, I/M readiness, EVAP system test, oxygen sensor test, battery test, and print function.

DTC LOOKUP

Built-in 50000+ Fault Codes

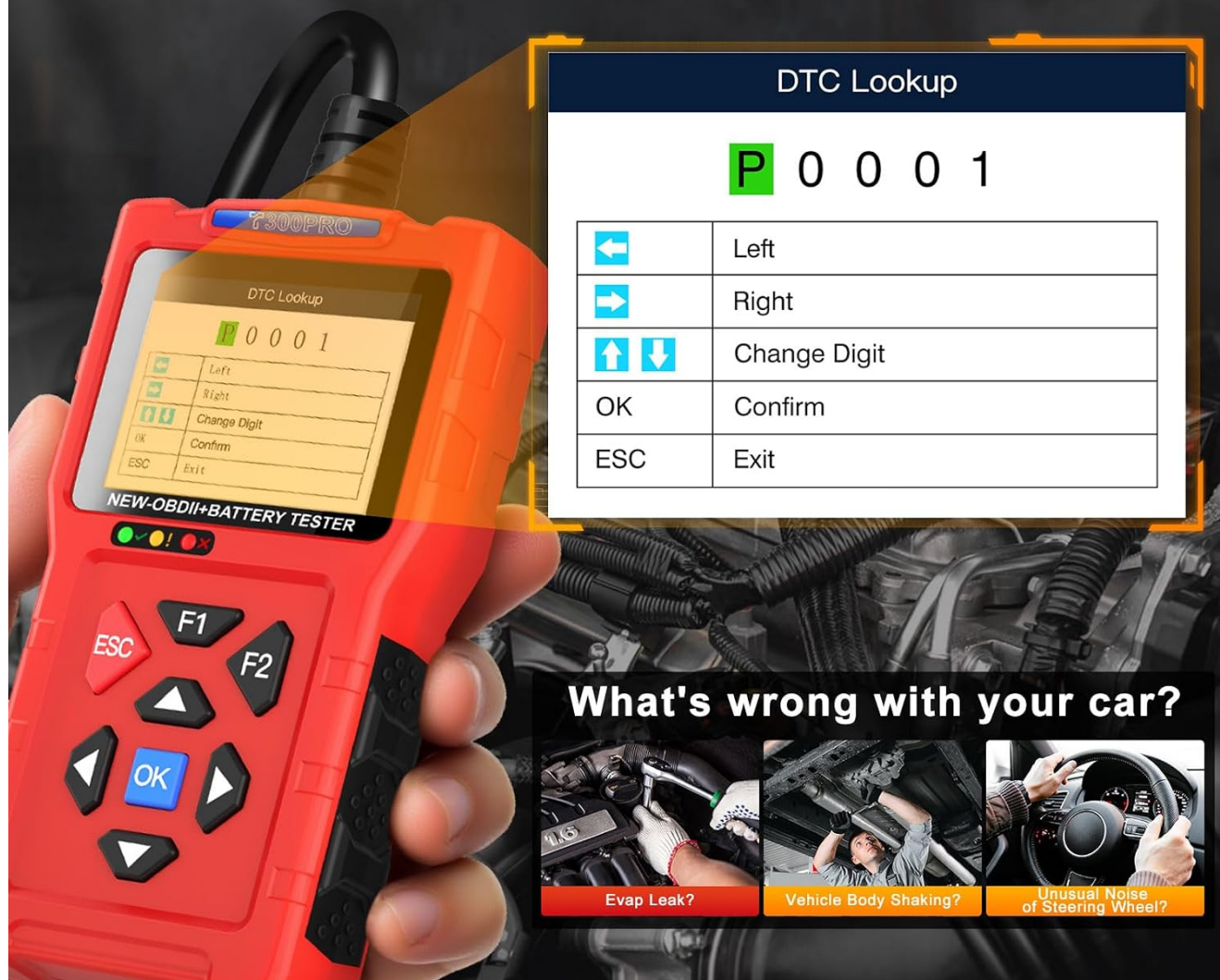


Image: The T300PRO device showing its DTC Lookup feature, with a built-in database of over 50,000 fault codes to help identify vehicle problems.

Professional EVAP Leak Test

Verify if O_2 sensors are working properly



Image: The T300PRO device displaying the 'Evaporative system leak test' screen, verifying the proper function of O_2 sensors and the EVAP system.

4. BATTERY TESTING FUNCTIONS

The advanced battery system test accurately measures battery health, cranking system performance, and alternator charging output for 12V/24V batteries.

- **Standard Test:** Provides overall battery health assessment (State of Health, Voltage, CCA, Impedance, Battery Power).
- **Startup Test:** Evaluates the cranking system, measuring minimum and maximum voltage during engine start.
- **Charging Test:** Assesses the alternator's charging output, including load voltage, no-load voltage, and voltage fluctuation.
- **Voltage Waveform Monitoring:** Displays real-time voltage waveforms to detect anomalies before and after engine starting.
- **Load Test:** Checks battery performance under load conditions.
- **Motorcycle Test:** Specific testing mode for motorcycle batteries.

The device supports various battery types and standards including CCA, JIS, GB, SAE, MCA, CA, DIN, IEC, and EN.

MORE COMPREHENSIVE BATTERY ANALYZER

Charging test

Charging is normal

Load Voltage:	14.80V
No-load voltage:	14.78V
Voltage fluctuation:	70.90mV

Battery performance is good

(SOH) 100 %

Voltage:	12.33V
Rated value:	680CCA
CCA:	696CCA
Impedance:	4.52mR
Battery power:	70%

Voltage waveform monitoring

voltage: min:14.7V
14.8V max:14.9V

Load test

Battery voltage 14.01V
Minimum voltage 13.95V

Startup test

CUR: MIN:5.3V MAX:12.3V
12.2V Startup anomaly

Image: A man using the TopDiag T300PRO to perform a comprehensive battery analysis on a car, showing results for charging test, battery performance, voltage waveform monitoring, load test, and startup test.

99.8% Accuracy

For 12V/24V Battery



Image: The T300PRO device showing battery test results with 99.8% accuracy for 12V/24V batteries, including startup test, charging test, load test, and battery performance details.

5. MAINTENANCE

The TopDiag T300PRO is designed for long-term reliability and ease of use.

- **Lifetime Free Updates:** Ensure your device always has the latest vehicle data and software enhancements.
- **Robust Construction:** Built to withstand the demands of a garage environment.
- **Cloud Printing:** Generate PDF reports of diagnostic data by scanning a QR code with your cell phone, allowing for easy printing and record-keeping.

PATENTS & CERTIFICATIONS ARE COMPLETE



Image: A visual guide showing how to generate a PDF diagnostic report by selecting 'Cloud Print', operating according to prompts, scanning a QR code with a cell phone, and converting data to PDF for printing. A relevant link for DTC lookup is [DTC Lookup](#).

6. TROUBLESHOOTING

The T300PRO is designed to help pinpoint vehicle issues efficiently.

- **Check Engine Light:** Use the 'Read DTC' function to identify the specific code triggering the light. Consult the DTC Lookup feature for detailed explanations.
- **Battery Problems:** Utilize the various battery tests (Standard, Startup, Charging, Load) to diagnose issues like weak batteries, failing starters, or bad alternators.
- **Emissions Issues:** The I/M Readiness Monitor and O2 Sensor Test can help identify problems related to your vehicle's emission system and prepare for smog checks.
- **Intermittent Issues:** Use 'Live Data' and 'Freeze Frame' to capture real-time data and conditions when intermittent problems occur, aiding in their diagnosis.

7. SPECIFICATIONS

- **Brand:** TopDiag
- **Model Number:** Topdiag T300PRO
- **Power Source:** Corded Electric (8V-30V DC)
- **Product Dimensions:** 7.48"L x 6.29"W x 2.04"H
- **Operating System:** Linux
- **Screen Size:** 1.7 Inches (Color Screen)
- **Language:** English (supports 13+ languages)
- **Automotive Fit Type:** Universal Fit (most OBD2-compliant cars, trucks, SUVs, motorcycles post-1996 US, 2000 EU, 2005 Asia)
- **Battery Test Range:** 20-2000 CCA, 10AH-300AH

8. WHAT'S IN THE BOX

- 1*Topdiag T300PRO Scanner



Image: The TopDiag T300PRO package contents, showing the scanner unit, OBDII cable, battery clamps, and user manual.

9. WARRANTY AND SUPPORT

TopDiag is committed to providing excellent customer service and product reliability.

- **Manufacturer Warranty:** 1 year warranty.
- **Technical Support:** 24/7 Tech Support is available.
- **Returns:** 30-Day Free Returns.
- **Maintenance & Support:** 24-Month Maintenance & Support.

Video: An official seller video demonstrating the features and usage of the TopDiag T300PRO OBD2 Scanner and 12V/24V Battery Tester.

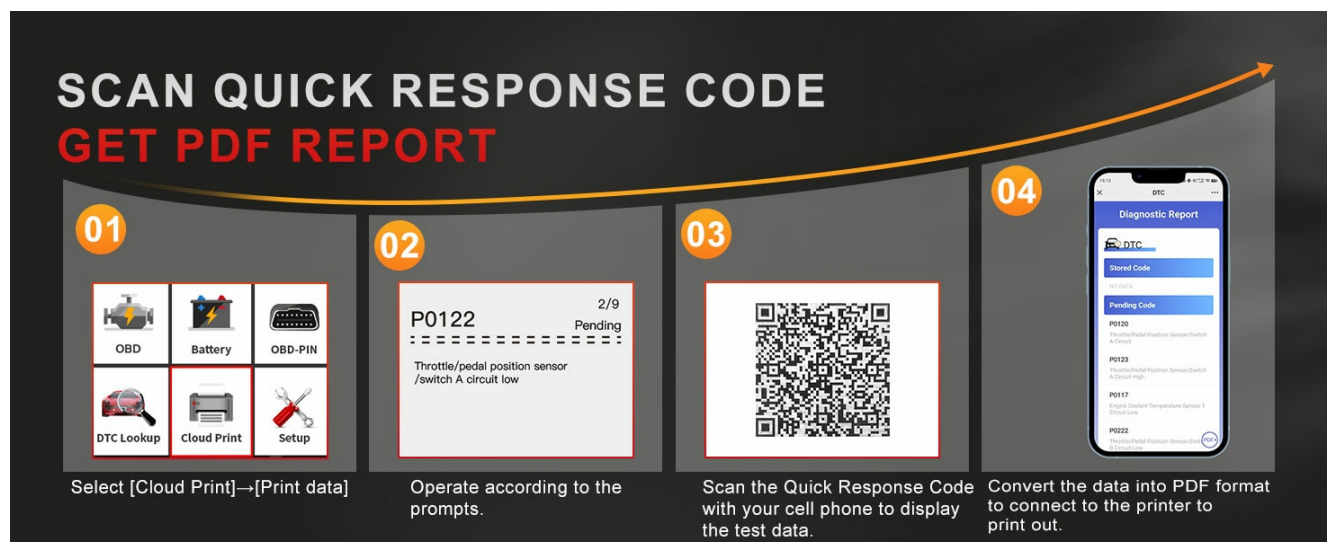


Image: Information detailing TopDiag T300PRO's professional technical support, including 24/7 tech support, 30-day free returns, and 24-month maintenance & support.

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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

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