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TopDiag T200

Topdiag T200 OBD2 Scanner Instruction Manual

Model: T200

1. INTRODUCTION

The Topdiag T200 is a versatile OBD2 diagnostic scanner designed to assist in vehicle maintenance and troubleshooting. It provides access to various diagnostic functions, including reading and clearing trouble codes, viewing live data, checking I/M readiness, and performing specialized tests for emissions and components. This manual provides detailed instructions for the proper use and maintenance of your T200 device.

1.1 What's in the Box

- 1 x Topdiag T200 OBD2 Scanner



Figure 1.1: Topdiag T200 OBD2 Scanner

The image displays the Topdiag T200 OBD2 Scanner, a handheld device with a color screen and navigation buttons, connected to an OBD-II diagnostic cable.

2. SETUP AND CONNECTION

To begin using your Topdiag T200 scanner, follow these steps to connect it to your vehicle.

1. **Locate the OBD-II Port:** The 16-pin Data Link Connector (DLC) is typically located under the dashboard on the driver's side of the vehicle. Refer to your vehicle's owner's manual if you cannot find it.

2. **Connect the Scanner:** Plug the OBD-II connector of the T200 scanner firmly into the vehicle's DLC.
3. **Power On:** The scanner will automatically power on once connected to the vehicle's OBD-II port. Ensure the vehicle's ignition is in the 'ON' position (engine can be off or running, depending on the test). For diagnostic operations, ensure the car is started.



Figure 2.1: T200 Main Interface and Functions

This image shows the Topdiag T200 scanner's display with icons for various functions like Read DTC, Clear DTC, Live Data, I/M Status, O2 Sensor, View Freeze Frame, Mode 6, Mode 8, DTC Lookup, OBD Voltage Detection, Battery Voltage Detection, and Data Stream Logging.

3. OPERATING INSTRUCTIONS

The Topdiag T200 offers a range of diagnostic functions accessible through its user-friendly interface. Navigate using the directional buttons and the 'OK' button.

3.1 Read and Clear Diagnostic Trouble Codes (DTCs)

This function allows you to retrieve and erase Diagnostic Trouble Codes (DTCs) from the vehicle's Engine Control

Unit (ECU).

- **Read Codes:** Select 'Read DTC' from the main menu to view current, pending, and permanent codes.
- **Clear Codes:** Select 'Clear DTC' to erase all stored DTCs and turn off the Malfunction Indicator Lamp (MIL).
Note: Clearing codes does not fix the underlying problem. Address the issue before clearing codes to prevent recurrence.



Figure 3.1: Clearing DTCs

The image illustrates the process of clearing DTCs, showing a prompt asking for confirmation to erase codes and a comparison of the dashboard engine light before and after clearance.

3.2 I/M Readiness Status

The I/M Readiness function checks the operation of the emission-related systems on the vehicle. It indicates whether the various emission monitors have run and completed their diagnostic testing.

- Select 'I/M Status' from the menu.
- The screen will display the status of various monitors (e.g., MIS, FUE, CCM, CAT, O2S, EVAP, EGR) with 'OK' (completed) or 'X' (not completed).

Easy Operation

The I/M and V keys are shortcut keys for quick one-touch access to specified functions.



Figure 3.2: I/M Readiness Status

This image shows the T200's I/M Status screen, indicating the readiness of various vehicle emission monitors with checkmarks or 'X' symbols.

3.3 ECU Information

This function allows you to display the vehicle's ECU information, which typically includes the Vehicle Identification Number (VIN), Calibration ID (CALID), and Calibration Verification Number (CVN).

- Select 'ECU Info' from the main menu to view these details.

3.4 Live Data Stream

View real-time operational parameters from the vehicle's sensors and components. This data can help identify intermittent problems or monitor system performance.

- Select 'Live Data' to access a list of available data parameters.
- You can view parameters such as engine RPM, vehicle speed, coolant temperature, fuel system status, and O2 sensor readings.

Real-Time Data Viewing

View real-time car data, car condition data at a glance,
Protect your travel safety.



Figure 3.3: Live Data Viewing

The image shows the T200 displaying a live data stream, including parameters like DTC count, fuel system status, engine coolant temperature, and short/long term fuel trim.

3.5 Mode 6 (On-Board Monitoring Test Results)

Mode 6 allows access to the results of on-board diagnostic monitoring tests for specific components/systems that are not continuously monitored. This can include misfire data, O2 sensor monitoring, and other component tests.

- Select 'Mode 6' from the menu to view these test results.

3.6 Mode 8 (Component/System Test)

Mode 8 enables the initiation of specific component or system tests. A common application is the Evaporative Emission Control System (EVAP) leak test, which checks for leaks in the fuel vapor recovery system.

- Select 'Mode 8' from the menu to perform specific component tests, such as the EVAP system leak test.

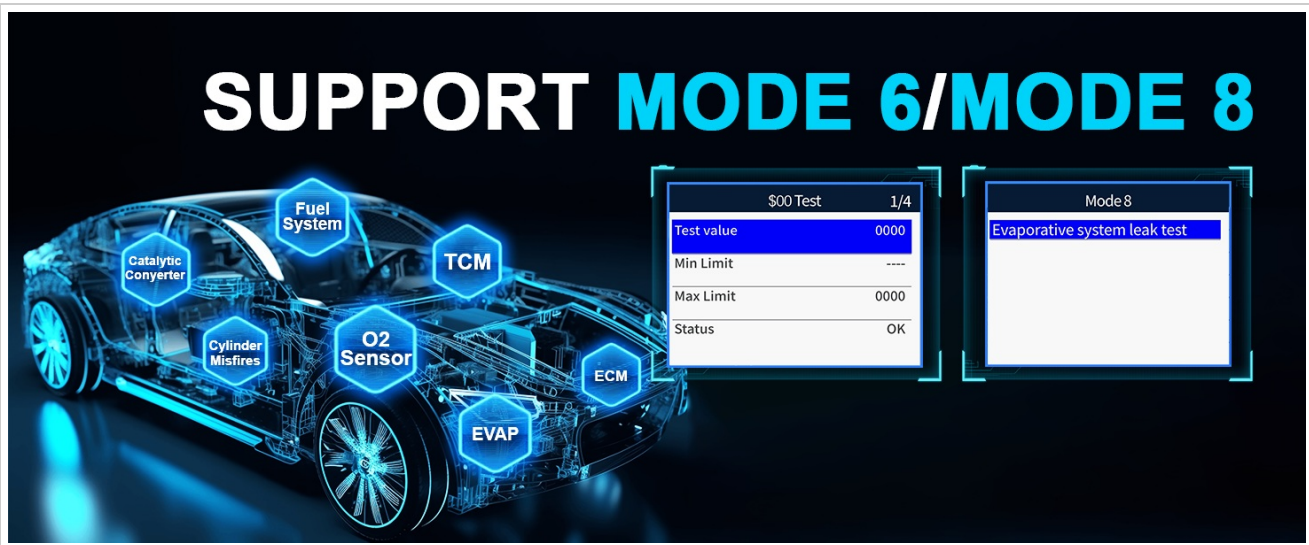


Figure 3.4: Mode 6 and Mode 8 Functions

This image shows the T200 displaying screens for Mode 6 (test values) and Mode 8 (Evaporative system leak test), illustrating the scanner's capability to perform specific component and system tests.

3.7 O2 Sensor Test

This function allows retrieval of O2 sensor monitoring test results from the vehicle's on-board computer. The O2 sensor test is not an on-demand test; rather, it displays the results of the last completed tests.

- Select 'O2 Sensor' from the menu to view the results.

3.8 DTC Lookup

The built-in DTC Lookup feature allows you to search for definitions of Diagnostic Trouble Codes directly on the device, eliminating the need for external resources.

- Select 'DTC Lookup' and enter the code to view its description.

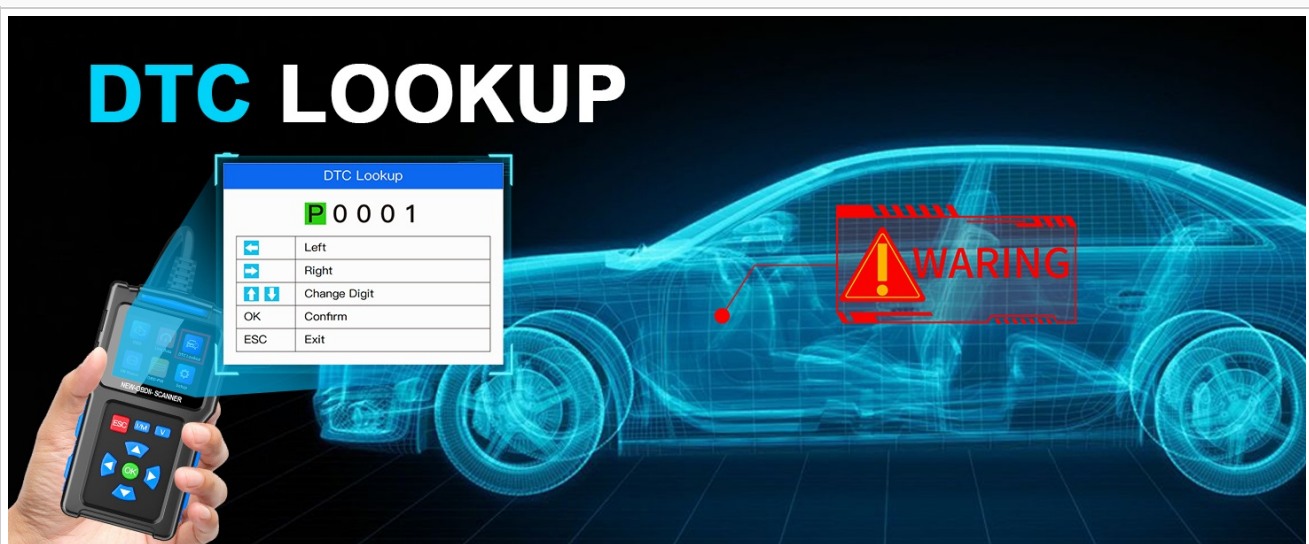


Figure 3.5: DTC Lookup Function

This image shows the T200's DTC Lookup screen, demonstrating how to input a code (e.g., P0001) and view its definition directly on the device.

3.9 Battery Testing and OBD Voltage Detection

The T200 can monitor the vehicle's battery voltage and check the voltage of individual pins on the OBD-II connector.

- **Battery Testing:** Enter the 'Battery Testing' mode to view the real-time voltage of the vehicle's battery, often displayed as a waveform for easy analysis.
- **OBD Voltage Detection:** Use this function to check the voltage of each OBD pin (e.g., BUS+, CAN-H, K-line, L-line, VIN) to help diagnose connection issues.

OBD Pin	Voltage	Normal range
BUS+(2Pin)	4.8 v	4.5v~12v
CAN-H(6Pin)	1.0 v	2.5v~3.5v
K-line(7Pin)	10.2 v	9v~14.8v
BUS-(10Pin)	4.0 v	
CAN-L(14Pin)	1.0 v	4.5v~12v
line(15Pin)	1.8 v	1.5v~2.5v
VIN(16Pin)	0.0 v	9v~14.8v

OBD Voltage Detection

When the vehicle traveling can not be diagnosed, you can use the OBD voltage function to check the voltage of each OBD pin to help us find the vehicle fault faster.

Support Bus positive line, CAN-H line, K-line, L-line, Bus neative line, CAN-L line, VIN and other voltage detection.

Figure 3.6: Battery Testing and OBD Voltage Detection

The image displays the T200's screen showing a table of OBD pin voltages with their normal ranges, and a waveform graph illustrating real-time battery voltage during a test.

3.10 Multi-protocol Communication

The Topdiag T200 supports a wide range of OBD-II communication protocols, ensuring compatibility with most vehicles manufactured after 1996.

- SAE J1850 PWM (41.6KBaud)
- SAE J1850 VPW (10.4KBaud)
- ISO9141-2 (5 baud init, 10.4KBaud)
- ISO15765-4 CAN (11bit ID, 500KBaud)

- ISO15765-4 CAN (29bit ID, 500KBaud)
- ISO15765-4 CAN (11bit ID, 250KBaud)
- ISO15765-4 CAN (29bit ID, 250KBaud)
- ISO14230-4 KWP (fast init, 10.4KBaud)
- ISO14230-4 KWP (5 baud init, 10.4KBaud)

Supports **Multi-protocol** Communication

Up To **9** Different Protocols Multi-Brand Support

- 1.SAE J1850 PWM (41.6Kbaud)
- 2.SAE J1850 VPW (10.4Kbaud)
- 3.ISO9141-2(5 baud init, 10.4 Kbaud)
- 4.ISO15765-4 CAN (11bit ID, 500 Kbaud)
- 5.ISO15765-4 CAN (29bit ID, 500 Kbaud)
- 6.ISO15765-4 CAN (11bit ID, 250 Kbaud)
- 7.ISO15765-4 CAN (29bitID, 250 Kbaud)
- 8.ISO14230-4 KWP (fast init, 10.4 Kbaud)
- 9.ISO14230-4 KWP (5 baud init, 10.4 Kbaud)

Figure 3.7: Supported Protocols

This image displays the T200 scanner's screen, listing up to 9 different OBD-II communication protocols it supports, ensuring broad vehicle compatibility.

3.11 Multi-Language Support

The T200 scanner supports multiple languages for user convenience.

- Available languages include: English, Chinese Simplified, Spanish, French, Italian, and Russian.
- To change the language, navigate to the 'Setup' menu and select 'Language'.

Multi-Language Support

English, Chinese Simplified, Spanish, French, Italian, Russian,
Support for customized languages



English



Chinese Simplified



Spanish



French



Italian



Russian



Figure 3.8: Multi-Language Support

The image shows the T200's language selection menu, highlighting English as the currently selected language among options like Spanish, French, Chinese, Italian, and Russian.

4. MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your Topdiag T200 scanner.

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid abrasive cleaners or solvents.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Do not bend or crimp the OBD-II cable excessively. Store it neatly to prevent damage.

5. SOFTWARE UPDATE

The Topdiag T200 provides lifetime software update service to ensure compatibility with new vehicle models and to introduce new features or improvements.

- **Download Software:** The upgrade program can be downloaded from the official Topdiag website onto a personal computer.
- **Connect Device:** Connect the T200 scanner to your PC using a USB cable.
- **Perform Update:** Follow the instructions provided with the update software to complete the upgrade process.



Figure 5.1: Software Update Process

This image shows the Topdiag T200 scanner connected via a USB cable to a laptop, illustrating the process for performing a software update.

6. TROUBLESHOOTING

If you encounter issues with your Topdiag T200 scanner, consider the following common troubleshooting steps:

- **No Power:** Ensure the scanner is correctly plugged into the vehicle's OBD-II port and the vehicle's ignition is on. Check the vehicle's fuse for the OBD-II port if necessary.
- **Communication Error:** Verify that the vehicle supports the OBD-II protocol. Ensure the connection is secure. Try the scanner on a different OBD-II compliant vehicle if possible.
- **Device Freezes:** Disconnect the scanner from the vehicle, wait a few seconds, and reconnect it. If the issue

persists, perform a software update.

- **Incorrect Readings:** Ensure the vehicle's engine is running for certain tests (e.g., live data, O2 sensor tests). Verify the vehicle's specifications and compare them with the scanner's capabilities.

7. SPECIFICATIONS

Feature	Specification
Brand	TopDiag
Model	T200
Item Weight	10.2 ounces
Package Dimensions	6.81 x 5.28 x 1.42 inches
Display	2.4 inch TFT color screen
Supported Protocols	SAE J1850 PWM, SAE J1850 VPW, ISO9141-2, ISO15765-4 CAN, ISO14230-4 KWP
Supported Languages	English, Chinese Simplified, Spanish, French, Italian, Russian
Software Update	Lifetime free updates
UPC	794969059161

8. WARRANTY AND SUPPORT

Topdiag is committed to providing high-quality products and customer satisfaction.

- **Warranty:** The product includes a 30-day full refund or new replacement policy for any dissatisfaction.
- **Software Updates:** Lifetime software update service is provided for the T200 scanner.
- **Customer Support:** For any questions or issues, please contact Topdiag customer service. Refer to the product packaging or official website for contact details.