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ANCEL VD700

ANCEL VD700 OBD2 Diagnostic Code Reader Scan Tool User Manual

Model: VD700 | Brand: ANCEL

1. Product Overview

The ANCEL VD700 is an advanced diagnostic scan tool designed primarily for Volkswagen Group vehicles (VW, Audi, Skoda, Seat). It offers comprehensive full-system diagnostics and professional maintenance functions, serving as an upgraded version of the ANCEL VD500. Beyond VAG vehicles, it also supports standard OBD2 functions for most vehicles manufactured after 1996.

Key features include:

- Full-System Diagnostics for VAG Vehicles (ABS, SAS, SRS, ESP, TPMS, Transmission, Engine, Immobilizer, Battery systems).
- Professional Maintenance Functions: Throttle position adaptation, brake pad reset, TPMS reset, steering angle learning, oil service reset, injector learning, and battery registration.
- OBD 6 Modes for Most Vehicles: Read/clear codes, display fault code definitions, turn off Check Engine Light (CEL), read data stream, test EVAP system, read I/M readiness, and retrieve VIN information.
- Real-time Battery Voltage Monitoring.
- Lifetime Free Software Updates.
- No Hidden Costs for features.

Figure 1.1: ANCEL VD700 OBD2 Diagnostic Scan Tool. This image displays the main unit with its screen showing various diagnostic and reset functions, alongside a box highlighting its compatibility with VW, Audi, Skoda, and Seat vehicles and key features like EPB, ABS, SRS, TPMS, Battery Registration, Airbag Reset, Oil Reset, and Injector Coding.

2. What's in the Box

- 1 x ANCEL VD700 OBD2 Scanner
- 1 x Dust-proof Bag
- 1 x USB Cable (for software updates)
- 1 x User Manual

3. Setup and Initial Use

3.1 Connecting to Vehicle

To begin diagnostics, simply plug the VD700 scanner into your vehicle's OBD2 port. The device is powered directly by the vehicle's OBD2 port, requiring no external batteries or charging. Ensure the vehicle's ignition is turned to the "ON" position (engine off) for proper communication.

3.2 Software Update

The ANCEL VD700 offers lifetime free software updates to ensure compatibility with the latest vehicle models and to fix any bugs. Updates are performed via a Windows PC (Windows 7/8/10/11 supported; Mac is not supported).

1. Download the update software from the official ANCEL website.
2. Unzip the downloaded file.
3. Connect the VD700 to your computer using the supplied USB cable.
4. Follow the on-screen instructions provided by the update software to complete the process.

Figure 3.1: The ANCEL VD700 connected to a laptop, illustrating the lifetime free update process. The screen of the device shows

"Update Ready!" and the laptop displays the update software interface with language options.

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Video 3.1: Official ANCEL video demonstrating how to perform a lifetime free update for the VD700 scanner. This video guides users through the software download and installation process on a computer.

4. Operating the Device

4.1 General OBD2 Functions (for most vehicles)

The VD700 supports standard OBD2 functions for 16-pin Non-VAG vehicles sold in the US after 1996. These functions include:

- **Read Codes:** Retrieves Diagnostic Trouble Codes (DTCs) from the vehicle's computer.
- **Erase Codes:** Clears DTCs from the vehicle's computer and turns off the Check Engine Light (CEL).
- **I/M Readiness:** Checks the readiness of the emission monitoring systems.
- **Data Stream:** Displays real-time data parameters from the vehicle's sensors.
- **EVAP System Test:** Initiates a test of the Evaporative Emission Control System.
- **Vehicle Information:** Retrieves Vehicle Identification Number (VIN) and other calibration information.

Figure 4.1: The ANCEL VD700 displaying its 10 test modes, including Live Data Stream, O2 Sensor Test, DTC Lookup, On-Board Monitoring, EVAP Test, and VIN Information. This image highlights the device's capability to read and clear codes, view freeze frame data, and check I/M readiness.

4.2 VAG-Specific Functions (for VW, Audi, Skoda, Seat)

The VD700 excels in diagnosing and performing special functions on Volkswagen Group vehicles. It supports full-system diagnostics and various maintenance resets.

- **Full-System Diagnostics:** Accesses all available control modules such as ABS, Transmission, SAS, SRS, ESP, TPMS, Engine, Immobilizer, and Battery systems to read and clear fault codes.
- **Throttle Position Adaptation:** Resets the throttle body position after cleaning or replacement.
- **Brake Pad Reset (EPB):** Retracts the electronic parking brake caliper for pad replacement and resets the EPB light.
- **TPMS Reset:** Resets the Tire Pressure Monitoring System after tire rotation or replacement.
- **Steering Angle Learning:** Calibrates the steering angle sensor.
- **Oil Service Reset:** Resets the oil service light after an oil change.
- **Injector Learning:** Codes new injector values into the ECU.

- **Battery Registration:** Registers a new battery with the vehicle's Battery Management System (BMS).

Figure 4.2: Overview of advanced functions available on the ANCEL VD700, including TPMS Reset, EPB Reset, DPF Function, Oil Reset, Airbag Reset, Battery Registration, Injector Learning, Throttle Position Adaptation, and Steering Angle Learning. This image shows the device's interface with icons representing each function.

Figure 4.3: The ANCEL VD700 performing an all-systems diagnostic scan for VAG vehicles. The screen displays various system icons such as Transmission, SRS, TPMS, ABS, DPF, SAS, Engine, EPB, Fuel Pump, Headlamp, Suspension, Car Radio, Air Conditioning, and ESP, indicating comprehensive coverage.

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Video 4.1: An official ANCEL video showcasing the VD700 as an all-in-one professional Volkswagen car scanner, highlighting its extensive diagnostic capabilities for VAG vehicles.

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Video 4.2: Official ANCEL video demonstrating the full systems diagnostic capabilities of the VD700 for VW, Audi, Skoda, and Seat vehicles.

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Video 4.3: An official ANCEL video providing an overview of the VD700 Full System OBD2 Scanner's features and functions.

4.3 Battery Check

The VD700 can perform a real-time battery voltage check. This function helps you monitor the health of your vehicle's battery.

Figure 4.4: The ANCEL VD700 performing a battery check, displaying the current voltage and instructing the user to turn off the engine. This image shows the device's screen with battery check details and a car illustration in the background.

5. Maintenance and Care

To ensure the longevity and optimal performance of your ANCEL VD700, follow these maintenance guidelines:

- Keep the device clean and free from dust and moisture. Use a soft, dry cloth for cleaning.
- Store the device in its supplied dust-proof bag when not in use to protect it from physical damage and environmental elements.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods.
- Handle the USB cable with care to prevent damage to the connectors.
- Regularly check for and install software updates as described in Section 3.2 to maintain compatibility and functionality.

6. Troubleshooting

If you encounter issues with your ANCEL VD700, refer to the following common troubleshooting tips:

6.1 Why can't I clear the fault codes?

Clearing fault codes requires specific conditions to be met:

- **Requirement:** The vehicle must be in ignition-on mode (engine off).
- **Hard Faults:** Ensure all underlying hard faults are repaired first. The scanner can only clear codes if the fault is no longer present.
- **Permanent DTCs:** Some Diagnostic Trouble Codes (DTCs) are permanent and cannot be cleared until the vehicle completes several drive cycles without the fault recurring.

For more detailed troubleshooting steps and specific error codes, please consult the comprehensive User Manual (PDF) provided with your product or available for download on the ANCEL website.

7. Product Specifications

Specification	Detail
Brand	ANCEL
Model Number	VD700
Item Weight	1.06 pounds
Product Dimensions	10.43 x 7.68 x 1.77 inches
Country of Origin	China
Voltage	12 Volts
Display	2.8 inch screen, 2 colors UI theme
Display Languages	11 languages
Software Updates	Lifetime Free
Supported OS for Updates	Windows 7/8/10/11 (Mac not supported)

8. Warranty and Support

The ANCEL VD700 comes with a commitment to customer satisfaction, including lifetime free software updates. This ensures your device remains up-to-date with the latest vehicle data and diagnostic capabilities.

For technical support, troubleshooting assistance, or to access the latest software updates and user manuals, please visit the official ANCEL website: www.anceltech.com. You can also utilize the special feedback function on the device to report issues or suggest new parameters.

Please note the legal disclaimer: The automobile logos and vehicle brand names mentioned are for compatibility description only and do not indicate that ANCEL sells products manufactured or sold by VW Group, Audi, Skoda, Seat, or any other vehicle brand.