ANCEL BD500

ANCEL BD500 Bluetooth OBD2 Scanner User Manual

Model: BD500 | Brand: ANCEL

1. INTRODUCTION

The ANCEL BD500 is a versatile Bluetooth 5.0 OBD2 scanner designed to provide comprehensive diagnostic capabilities for Volkswagen, Audi, Seat, and Skoda (VAG) vehicles, as well as standard OBD2 functions for most other car brands. This manual provides detailed instructions for setting up, operating, and maintaining your BD500 device to effectively diagnose and resolve vehicle issues.

2. PACKAGE CONTENTS

Upon unboxing your ANCEL BD500, please verify that all items listed below are present:

- 1x ANCEL BD500 Bluetooth Code Reader
- 1x Storage Bag

The ANCEL BD500 Bluetooth Code Reader and its included storage bag.

3. Setup

3.1. App Installation

The ANCEL BD500 operates via a dedicated smartphone application. Please download and install the official ANCEL app from your device's app store:

- For iPhone/iPad: Search for "ANCEL" in the Apple App Store.
- For Android devices: Search for "ANCEL" in the Google Play Store.

3.2. Device Connection

1. Locate your vehicle's OBD2 port. This is typically found under the dashboard on the driver's side.
2. Ensure your vehicle's ignition is turned to the ON position, but the engine is OFF.
3. Plug the ANCEL BD500 device firmly into the OBD2 port. The device will power on automatically.
4. Enable Bluetooth on your smartphone or tablet.
5. Open the ANCEL app. The app will automatically scan for and connect to the BD500 device via

Bluetooth 5.0. Follow any on-screen prompts to establish the connection.

The ANCEL app interface on a smartphone, showing connection via Bluetooth.

4. OPERATING - VAG VEHICLE DIAGNOSTICS

For Volkswagen, Audi, Seat, and Skoda (VAG) vehicles, the ANCEL BD500 offers manufacturer-level diagnostic capabilities. This allows for in-depth analysis beyond standard OBD2 functions.

4.1. Full System Scan

The BD500 can read and clear Diagnostic Trouble Codes (DTCs) from all control modules within your VAG vehicle, including but not limited to:

- Engine Control Module (ECM)
- Transmission Control Module (TCM)
- Supplemental Restraint System (SRS) - Airbag
- Tire Pressure Monitoring System (TPMS)
- Anti-lock Braking System (ABS)
- Steering Angle Sensor (SAS)

- Electronic Stability Program (ESP)
- Body, Chassis, and Powertrain modules

To perform a full system scan, navigate to the "Diagnostic" section in the app and select the VAG-specific option. The app will guide you through the scanning process, displaying any detected fault codes and their descriptions.

Illustration of various vehicle systems diagnosable by the ANCEL BD500.

5. OPERATING - GENERAL OBD2 DIAGNOSTICS (NON-VAG VEHICLES)

For non-VAG vehicle models, the ANCEL BD500 functions as a standard OBD2 scanner, providing essential engine diagnostics.

5.1. Engine Diagnostics

The device can read and erase generic Diagnostic Trouble Codes (DTCs) that cause emission-related issues. Key functions include:

- **Read & Clear DTCs:** View and remove engine fault codes.
- **Turn Off MIL:** Extinguish the Check Engine Light (Malfunction Indicator Lamp).
- **I/M Readiness:** Check the status of emission-related monitoring systems.
- **Live Data Stream:** Display real-time sensor data from the engine.
- **Vehicle Information:** Retrieve Vehicle Identification Number (VIN), Calibration ID (CIN), and Calibration Verification Number (CVN).

The ANCEL app showing full OBD2 test modes for engine system diagnostics.

6. OPERATING - SPECIAL FUNCTIONS

The ANCEL BD500 includes several special functions to assist with vehicle maintenance and service resets.

6.1. EPB Reset (Electronic Parking Brake)

This function is crucial when replacing brake pads on vehicles equipped with an electronic parking brake. It allows you to safely retract and then reset the electronic parking brake system.

6.2. Service Reset

The device supports various service resets, including:

- **Oil Service Reset:** Reset the oil change reminder light after an oil change.
- **Inspection Service Reset:** Reset the service interval indicator.

6.3. Throttle Learning (ETC Reset)

This function is used to reset the throttle body's learned values, often performed after cleaning or replacing the throttle body to ensure proper idle speed and engine response.

6.4. Battery Check

The BD500 can perform a battery check, specifically supporting 12V vehicle battery voltage detection. This provides a reference for the battery's health.

6.5. Performance Test

The device offers unique features to test brake performance and graphically display voltage changes (start voltage) over time, providing detailed numerical analysis for each trip.

7. MAINTENANCE

7.1. Software Updates

To ensure optimal performance and compatibility with the latest vehicle models and diagnostic protocols, it is recommended to regularly update the BD500's software. Updates are typically performed by connecting the device to a computer via USB and downloading the latest firmware from the ANCEL official website. Refer to the ANCEL website for specific instructions and software download tools.

8. TROUBLESHOOTING

If you encounter issues while using your ANCEL BD500, please consider the following common troubleshooting steps:

- **Connection Issues:** Ensure the BD500 is firmly plugged into the OBD2 port and the vehicle's ignition is ON. Verify Bluetooth is enabled on your smartphone and the ANCEL app is open.
- **App Not Responding:** Close and restart the ANCEL app. Ensure your smartphone's operating system is up to date.
- **Inaccurate Readings:** Ensure the device's software is updated to the latest version. For non-VAG vehicles, remember that only engine-related diagnostics are supported.
- **Vehicle Compatibility:** Confirm your vehicle's make, model, and year are supported by the BD500 for the desired diagnostic functions (especially for VAG-specific features).

For further assistance, utilize the "Feedback" or "Help" sections within the ANCEL app, or visit the official ANCEL support website.
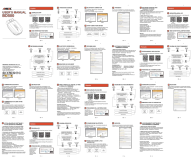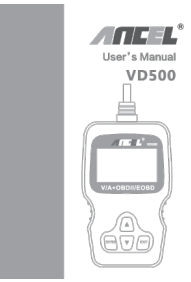
9. SPECIFICATIONS

Feature	Specification
Brand	ANCEL

Model	BD500
Connectivity	Bluetooth 5.0
Supported Protocols	KWP, TP20, New UDS, All OBD2 Protocols
VAG Vehicle Compatibility	VW, Audi, Seat, Skoda, Jetta, Golf, Beetle, Touareg, GTI, Passat, etc. (Full System Diagnostics)
Non-VAG Vehicle Compatibility	Most OBD2 compliant cars (Engine Diagnostics Only)
Supported Languages	Chinese, English, German, Spanish, French, Italian

10. WARRANTY AND SUPPORT

The ANCEL BD500 comes with a standard manufacturer's warranty. For specific warranty terms, technical support, or service inquiries, please refer to the official ANCEL website or contact ANCEL customer support directly. Contact information can typically be found in the "Help" or "Feedback" sections of the ANCEL app.

Related Documents - BD500

ANCEL BD500 User Manual - Bluetooth OBD2 Diagnostic Tool
Comprehensive user manual for the ANCEL BD500 Bluetooth OBD2 diagnostic tool. Learn how to download the app, connect via Bluetooth, perform vehicle diagnostics, and update software.

ANCEL VD500 User Manual: OBD2 Diagnostic Tool Guide
Comprehensive user manual for the ANCEL VD500 OBD2 diagnostic scanner. Learn about safety precautions, features, operation, specifications, and warranty information for your automotive diagnostic tool.

ANCEL VD500 User's Manual: OBDII Diagnostic Scanner for VW, Audi, Skoda, Seat
The ANCEL VD500 User's Manual provides comprehensive instructions for operating the VD500 OBDII diagnostic scanner. This guide covers essential functions like reading and erasing fault codes, service resets, throttle adaptation, and EPB brake pad replacement for VW, Audi, Skoda, and Seat 12V models. Learn how to connect the device, navigate menus, and interpret diagnostic information to maintain your vehicle effectively.

USER'S MANUAL VD700	[ANCEL VD700 User's Manual: Multi-System OBD2 Scanner for VW Group Vehicles](#) Comprehensive user's manual for the ANCEL VD700 multi-system scanner. Learn how to use this diagnostic tool for VW, Audi, Skoda, Seat, and Bentley vehicles, covering features like system scanning, fault code reading, special functions, and maintenance resets.
	[ANCEL BD300 OBD2 Scanner User Manual](#) Comprehensive user manual for the ANCEL BD300 OBD2 scanner. Learn how to download the ANCEL APP, connect via Bluetooth, perform vehicle diagnostics, update software, and utilize special functions like EPB, CBS, ABS, and Airbag resets. Supports full system diagnostics for BMW and other vehicles.
Manuel de l'utilisateur VD700	[Manuel de l'utilisateur ANCEL VD700 - Outil de Diagnostic Automobile](#) Manuel d'utilisation complet pour l'outil de diagnostic automobile ANCEL VD700. Ce guide couvre les spécifications, les instructions d'utilisation, les fonctions spéciales, le diagnostic OBDII, la configuration de l'outil, les mises à jour logicielles et les informations de garantie.