ANCEL AD530 PRO, BD200 Pro

ANCEL AD530 PRO OBD2 Scanner and BD200 Pro Bluetooth Scanner User Manual

Comprehensive Instructions for Operation and Maintenance

1. Introduction

This manual provides detailed instructions for the ANCEL AD530 PRO OBD2 Scanner Battery Tester and the ANCEL BD200 Pro OBD2 Bluetooth Scanner. These devices are designed to assist in vehicle diagnostics, engine code reading, and battery health assessment. Please read this manual thoroughly before operating the devices to ensure correct usage and optimal performance.

2. Safety Information

Always observe the following safety precautions to prevent personal injury or damage to the vehicle or devices:

- Ensure the vehicle is parked in a well-ventilated area.

- Wear eye protection and protective clothing when working around vehicle batteries.

- Avoid contact with hot engine components and moving parts.

- Do not connect or disconnect the diagnostic tool while the ignition is on or the engine is running, unless specifically instructed.

- Keep the devices dry and away from extreme temperatures.

- Refer to your vehicle's service manual for specific diagnostic procedures and safety warnings.

3. Product Overview

This package includes two distinct diagnostic tools:

3.1 ANCEL AD530 PRO OBD2 Scanner Battery Tester

The ANCEL AD530 PRO is a handheld device combining OBD2 diagnostic functions with comprehensive battery testing capabilities. It features a color screen and physical buttons for navigation.

Image: The ANCEL AD530 PRO handheld diagnostic tool, displaying its user interface with options for OBDII, I/M, and Battery functions.

3.2 ANCEL BD200 Pro OBD2 Bluetooth Scanner

The ANCEL BD200 Pro is a compact Bluetooth-enabled OBD2 scanner that connects to your smartphone or tablet via a dedicated application. It provides full OBDII diagnostic modes and battery voltage checks.

Image: Both the ANCEL AD530 PRO handheld scanner and the compact ANCEL BD200 Pro Bluetooth adapter, illustrating the two devices included in the package.

4. Setup Guide

4.1 ANCEL AD530 PRO Setup

1. **Locate the OBD2 Port:** The OBD2 port is typically located under the dashboard on the driver's side. Consult your vehicle's manual if you cannot find it.

2. **Connect the Scanner:** Plug the AD530 PRO's OBD2 connector into the vehicle's OBD2 port. The device will power

on automatically.

3. **For Battery Testing:** Connect the red clamp to the positive (+) terminal of the battery and the black clamp to the negative (-) terminal. Ensure a secure connection.
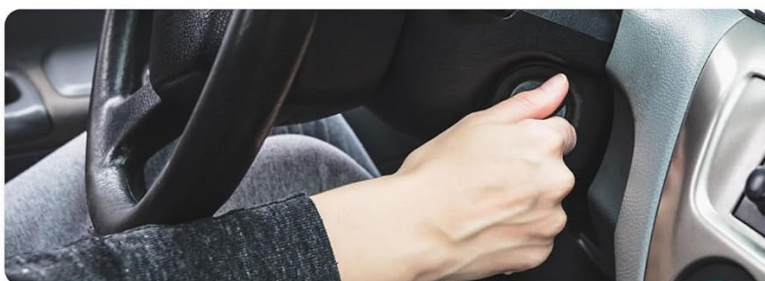
Image: Step-by-step visual guide demonstrating how to connect the ANCEL AD530 PRO to a vehicle's OBD2 port and attach the battery clamps for testing.

4.2 ANCEL BD200 Pro Setup

1. **Download the App:** Search for the official ANCEL app on the Apple App Store (for iOS) or Google Play Store (for Android) and install it on your smartphone or tablet.

2. **Locate the OBD2 Port:** Find the OBD2 port in your vehicle, usually under the driver's dashboard.

3. **Plug in the BD200 Pro:** Insert the BD200 Pro into the vehicle's OBD2 port. A blue indicator light will illuminate, indicating it is powered on.

4. **Pair via Bluetooth:** Open the ANCEL app on your device. The app will guide you through the Bluetooth pairing process. Ensure your device's Bluetooth is enabled.

5. **Connect to Vehicle:** Once paired, select your vehicle within the app to establish a connection and begin diagnostics.

Image: A smartphone screen displaying the ANCEL app interface, along with instructions for downloading the app and connecting the BD200 Pro via Bluetooth for iOS and Android devices.

5. Operating Instructions

5.1 ANCEL AD530 PRO Operations

5.1.1 OBD2 Diagnostic Functions

After connecting the AD530 PRO to your vehicle, navigate the main menu using the arrow keys and confirm selections with the 'OK' button. The OBDII menu provides access to standard diagnostic functions:

- **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 Malfunction Indicator Lamp (MIL).
- **Live Data:** Displays real-time data stream from the vehicle's sensors.
- **I/M Readiness:** Checks the status of emission-related monitors.
- **Freeze Frame:** Shows a snapshot of vehicle operating conditions when an emission-related fault occurred.
- **O2 Sensor Test:** Retrieves O2 sensor monitoring test results.

- **On-Board Monitor Test:** Retrieves results for emission-related powertrain components and systems.
- **Vehicle Information:** Displays the vehicle identification number (VIN), calibration ID (CALID), and calibration verification number (CVN).

5.1.2 Battery Test Functions

With the battery clamps connected, select the 'BAT' option from the main menu to access battery testing features:

- **Battery Check:** Tests the current health of your battery, including internal resistance and remaining life.
- **Cranking Test:** Checks if your battery functions normally during the vehicle's startup process by measuring cranking voltage.
- **Charge Test:** Assesses whether the alternator module is working properly under load and no-load conditions while the engine is running.
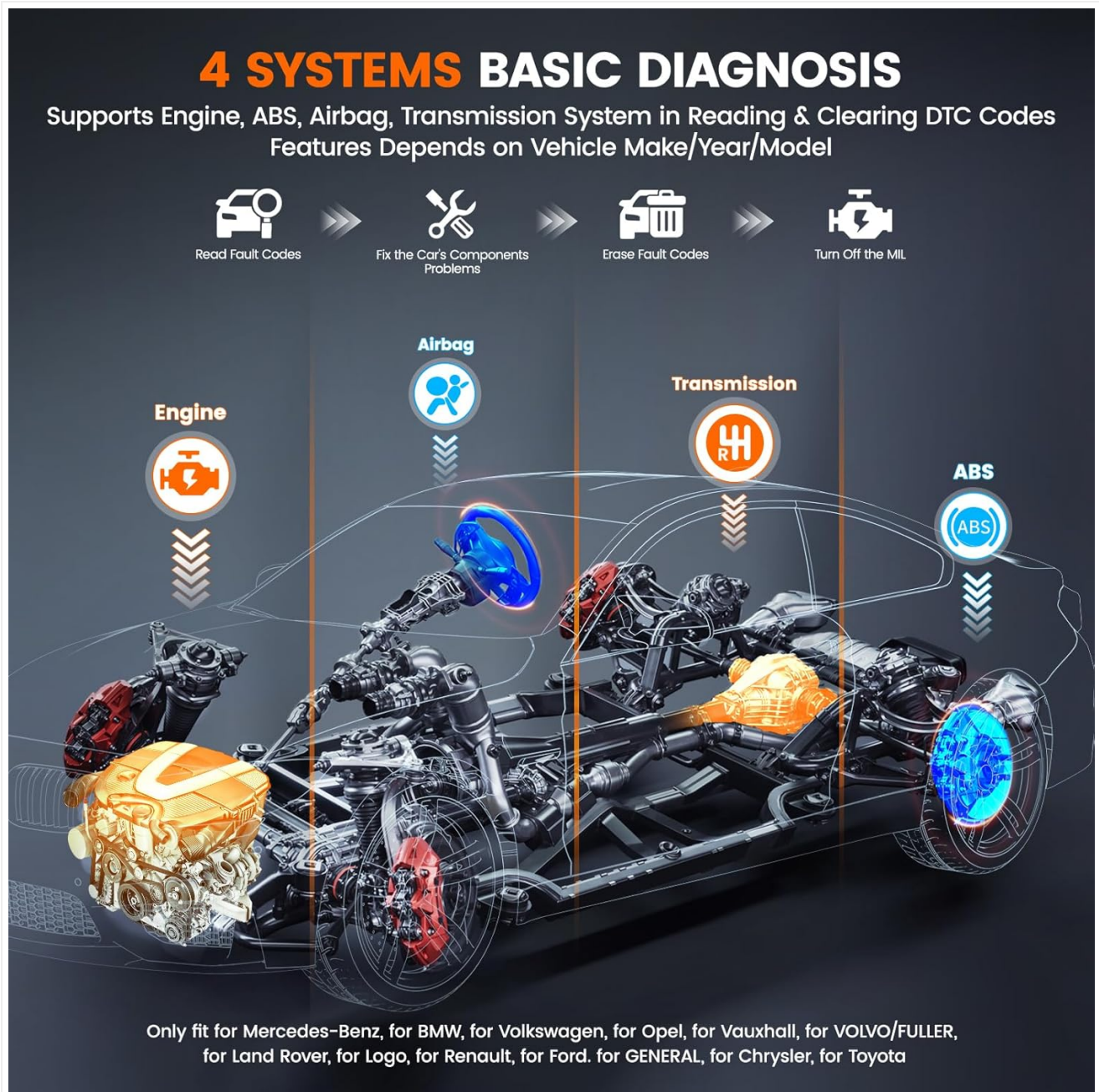

Image: An infographic detailing the capabilities of the ANCEL AD530 PRO's Battery Check, Cranking Test, and Charge Test functions, explaining what each test assesses.

5.2 ANCEL BD200 Pro Operations

Once the BD200 Pro is connected to your vehicle and paired with the ANCEL app, you can access various diagnostic and monitoring functions directly from your smartphone or tablet.

5.2.1 OBD2 Diagnostic Functions (via App)

The ANCEL app provides a user-friendly interface for all standard OBD2 functions:

- **Read Codes:** View current, pending, and permanent DTCs.

- **Erase Codes:** Clear DTCs and reset the MIL.

- **Live Data:** Monitor various sensor data in real-time, often with graphical displays.

- **I/M Readiness:** Check emission system status.

- **Freeze Frame:** Access vehicle data recorded at the moment a fault occurred.

- **O2 Sensors:** View oxygen sensor test results.

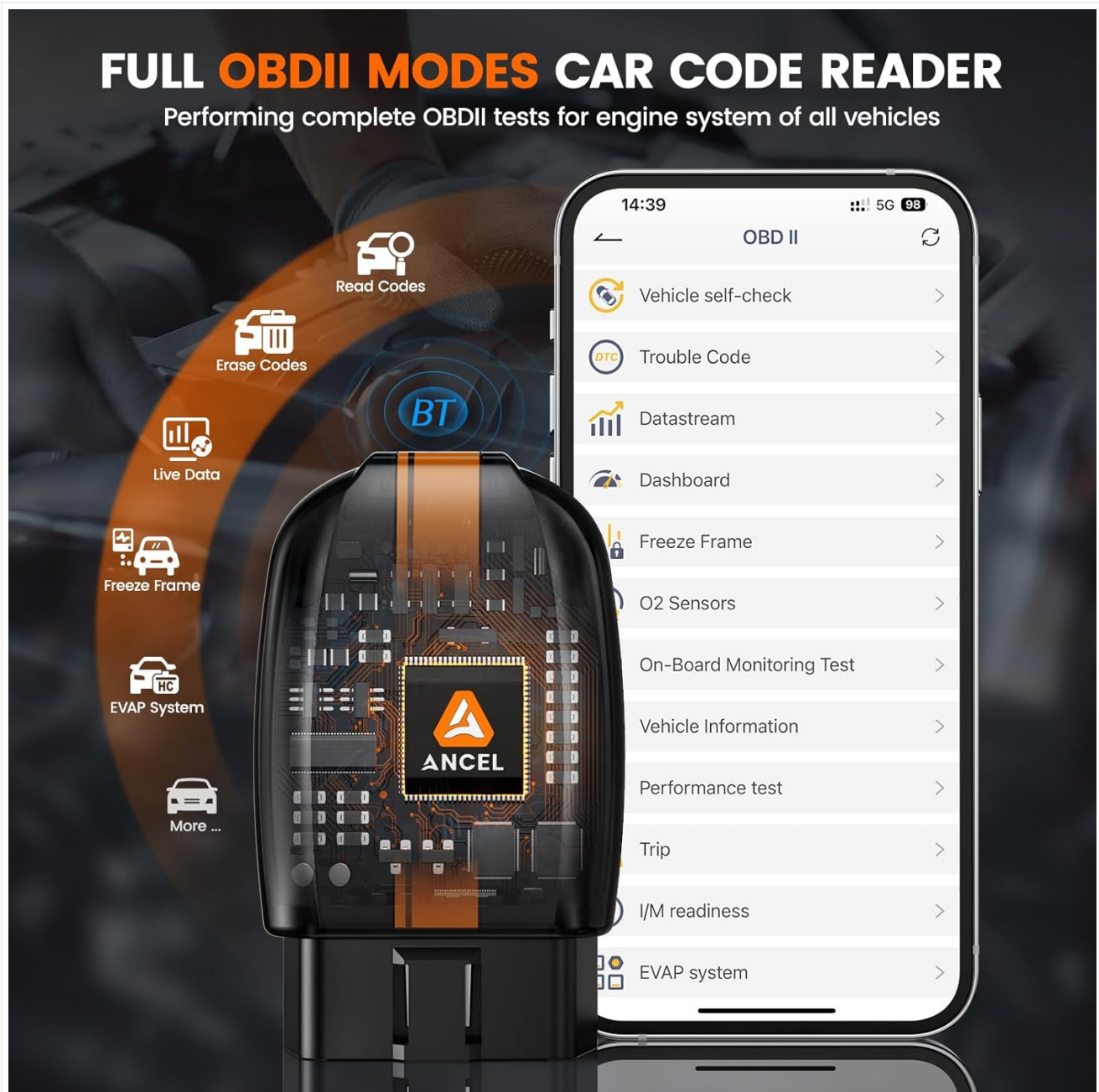- **Vehicle Information:** Retrieve VIN and other vehicle details.

Image: A smartphone screen displaying the ANCEL app's OBDII modes menu, showing options like 'Trouble Code', 'Datastream', 'Dashboard', 'Freeze Frame', and 'O2 Sensors'.

5.2.2 Battery Voltage Check (via App)

The BD200 Pro, through the ANCEL app, can monitor your vehicle's battery voltage in real-time, providing insights into its health and charging system performance.

- **Real-time Voltage Display:** View the current battery voltage.

- **Voltage Graph:** Observe voltage fluctuations over time.

- **Voltage Reference:** Compare your battery's voltage to recommended ranges (e.g., before starting, after starting).

Image: A smartphone screen showing the ANCEL app's battery check interface, displaying current voltage, a voltage graph over time, and reference ranges for normal, low, and high battery voltage.

6. Maintenance

- **Cleaning:** Use a soft, damp cloth to clean the exterior of the devices. Do not use abrasive cleaners or solvents.

- **Storage:** Store the devices in a dry, cool environment away from direct sunlight and extreme temperatures.

- **Software Updates:** Periodically check the ANCEL website or the ANCEL app for software/firmware updates to ensure optimal performance and compatibility with newer vehicles. For the AD530 PRO, updates are typically performed via a PC connection. For the BD200 Pro, app updates are managed through your device's app store.

7. Troubleshooting

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
AD530 PRO does not power on.	Loose connection to OBD2 port; vehicle's OBD2 port fuse blown.	Ensure the connector is securely plugged in. Check the vehicle's fuse box for a blown fuse related to the OBD2 port.
BD200 Pro does not pair via Bluetooth.	Bluetooth not enabled on smartphone; app not open; device not powered.	Ensure Bluetooth is enabled on your phone. Open the ANCEL app. Verify the BD200 Pro is plugged into the OBD2 port and its indicator light is on.
Cannot connect to vehicle's ECU.	Ignition not on; vehicle not OBD2 compliant; faulty connection.	Turn the ignition to the 'ON' position (engine off). Confirm your vehicle is OBD2 compliant (most vehicles 1996 and newer). Re-check all connections.
Inaccurate battery test results.	Loose battery clamp connection; dirty battery terminals.	Ensure battery clamps are securely attached to clean battery terminals.

8. Specifications

8.1 ANCEL AD530 PRO

- **Display:** 2.8-inch Color Screen
- **OBD2 Functions:** Read/Clear Codes, Live Data, I/M Readiness, Freeze Frame, O2 Sensor Test, On-Board Monitor Test, Vehicle Info.
- **Battery Test Functions:** Battery Check, Cranking Test, Charge Test.
- **Supported Languages:** Multiple (typically 16 languages).
- **Operating Voltage:** 9-18V DC.
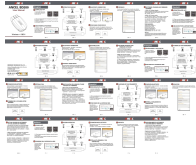- **Connectivity:** Wired OBD2 cable, Battery clamps.

8.2 ANCEL BD200 Pro

- **Connectivity:** Bluetooth 5.0.
- **App Support:** iOS (9.0 or above), Android (8.0 or above).
- **OBD2 Functions:** Full OBDII modes via app.
- **Battery Function:** 12V Car Battery Voltage Check via app.
- **Operating Voltage:** 9-18V DC.
- **Updates:** Free lifetime app updates.

9. Warranty and Customer Support

ANCEL products typically come with a standard manufacturer's warranty. For specific warranty details, product registration, or technical assistance, please visit the official ANCEL website or contact their customer support directly. Keep your purchase receipt as proof of purchase.
Official ANCEL Website: www.anceltech.com

Related Documents - AD530 PRO, BD200 Pro

[ANCEL BD200 User Manual: Bluetooth OBD2 Scanner Guide](#)

Comprehensive user manual for the ANCEL BD200 Bluetooth OBD2 scanner. Covers setup, operation, troubleshooting, and firmware updates for iOS and Android devices.

[ANCEL AD530 Pro User Manual: OBDII Scanner & Battery Tester Guide](#)

Detailed user manual for the ANCEL AD530 Pro, a 2-in-1 automotive diagnostic tool. Covers OBDII functions like reading/erasing codes and comprehensive car battery testing including cranking, charging, and ripple tests.

[ANCEL BD200 OBD2 Bluetooth Scanner User Manual](#)

Comprehensive user manual for the ANCEL BD200 OBD2 Bluetooth scanner, detailing setup, operation, app connection, and diagnostic features for iPhone and Android devices.

ANCEL AD410 Usage/Upgrade/Feedback Issues

[ANCEL AD410 Usage, Upgrade, and Feedback Issues Troubleshooting Guide](#)

A comprehensive guide detailing common issues encountered with the ANCEL AD410 automotive diagnostic scanner, covering usage, software upgrades, and feedback data handling, with solutions and troubleshooting steps.

[ANCEL AD310 Firmware Update Guide: Step-by-Step Instructions](#)

This guide provides clear, step-by-step instructions for updating the firmware of your ANCEL AD310 OBD II scanner. Learn how to download, decompress, install drivers, and perform the update process for your vehicle diagnostic tool.

[ANCEL AD530 User Manual](#)

User manual for the ANCEL AD530 vehicle diagnostic tool, covering safety precautions, general information about OBD II, using the tool's features like I/M readiness, BAT check, DTC lookup, diagnostics, updates, and feedback.