

ANCEL BD200 Pro

ANCEL BD200 Pro Bluetooth OBD2 Scanner User Manual

Model: BD200 Pro

1. INTRODUCTION

The ANCEL BD200 Pro is an advanced Bluetooth OBD2 scanner designed to provide comprehensive vehicle diagnostics. This device connects wirelessly to your smartphone or tablet via the exclusive ANCEL app, offering a range of functions including full OBDII diagnostics, 4-system scanning (Engine, ABS, SRS, Transmission), battery voltage testing, performance analysis, and trip recording. It is intended for use by vehicle owners and mechanics to identify and clear diagnostic trouble codes (DTCs), monitor vehicle performance, and ensure proper vehicle operation.



Image 1.1: The ANCEL BD200 Pro Bluetooth OBD2 Scanner device.

2. WHAT'S IN THE BOX

Verify that all items are present upon opening the package:

- 1 * ANCEL BD200 Pro Bluetooth OBD2 Scanner
- 1 * User Manual (this document)
- 1 * Storage Bag

3. SPECIFICATIONS

Feature	Detail
Brand	ANCEL
Model Number	BD200 Pro
Connectivity	Bluetooth 5.0
Operating System Compatibility	Exclusive ANCEL APP, iOS 9.0+, Android 8.0+
Supported Protocols	KWP2000, ISO9141, J1850VPW, J1850, CAN (ISO 15765)
Vehicle Compatibility	Most OBDII compliant vehicles (USA after 2000, European after 2002, French after 2004, Southeast Asian after 2005, Chinese after 2008). Not for pure electric vehicles.
Dimensions	1.77"L x 0.78"W x 2.95"H (4.5 cm x 2 cm x 7.5 cm)
Item Weight	2.08 ounces (59 grams)
Languages	English, German, Spanish, French, Italian, Chinese

4. SETUP GUIDE

Follow these steps to set up your ANCEL BD200 Pro scanner and connect it to your vehicle:

- Download the ANCEL App:** Search for "ANCEL" in the Apple App Store (for iOS devices) or Google Play Store (for Android devices) and install the exclusive ANCEL application.
- Plug in the Device:** Locate your vehicle's OBDII port, typically under the dashboard on the driver's side. Plug the ANCEL BD200 Pro scanner firmly into the port. The device will power on automatically.
- Start the Car:** Turn your vehicle's ignition to the "ON" position or start the engine.
- Enable Bluetooth:** Ensure Bluetooth is enabled on your smartphone or tablet.
- Run the App:** Open the ANCEL app. The app will automatically detect and connect to the BD200 Pro scanner via Bluetooth. You may be prompted to allow Bluetooth pairing; confirm this request.
- Begin Diagnostics:** Once connected, you can proceed to use the various diagnostic functions within the app.

QUICK BLUETOOTH SETUP GUIDE

ANCEL BD200 Pro is compatible with iPhone, iPad, Android and Windows PC via Bluetooth. Low Power Consumption and High Reliability

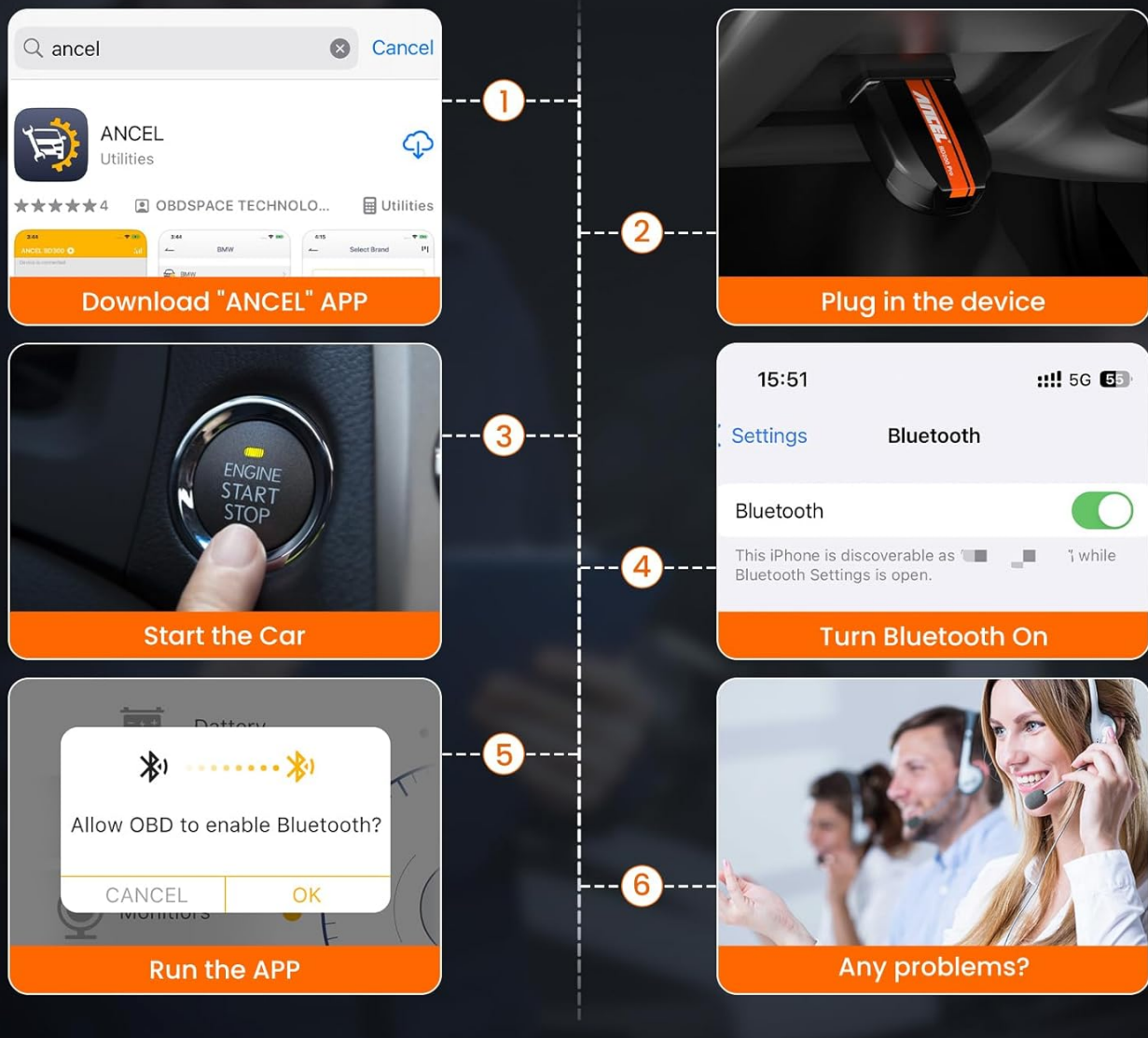


Image 4.1: Visual guide for quick Bluetooth setup of the ANCEL BD200 Pro.

5. OPERATING INSTRUCTIONS

The ANCEL BD200 Pro offers a range of diagnostic and monitoring functions through its dedicated app. Below are key features and how to use them:

5.1 Full OBDII Modes

This scanner provides standard OBD2 full-mode diagnosis for the engine system. Functions include:

- **Read & Clear Codes:** Retrieve and erase Diagnostic Trouble Codes (DTCs) and turn off the Check Engine Light (CEL).
- **Live Data Stream:** View real-time engine data in text and graph format (e.g., oil temperature, voltage, speed, fuel consumption, RPM).
- **Freeze Frame Data:** Access a snapshot of vehicle operating conditions recorded at the moment an emission-related fault occurred.

- **I/M Readiness:** Check the status of emission-related monitors to determine if the vehicle is ready for an inspection/smog test.
- **O2 Sensor Test:** Retrieve O2 sensor monitor test results.
- **On-Board Monitoring Test:** Access results of diagnostic monitoring tests for specific components/systems.
- **EVAP System Test:** Initiate a test of the evaporative emission system.
- **Vehicle Information:** Retrieve vehicle identification number (VIN), calibration ID, and calibration verification number.
- **DTC Lookup:** Access a dictionary of trouble codes for detailed explanations.

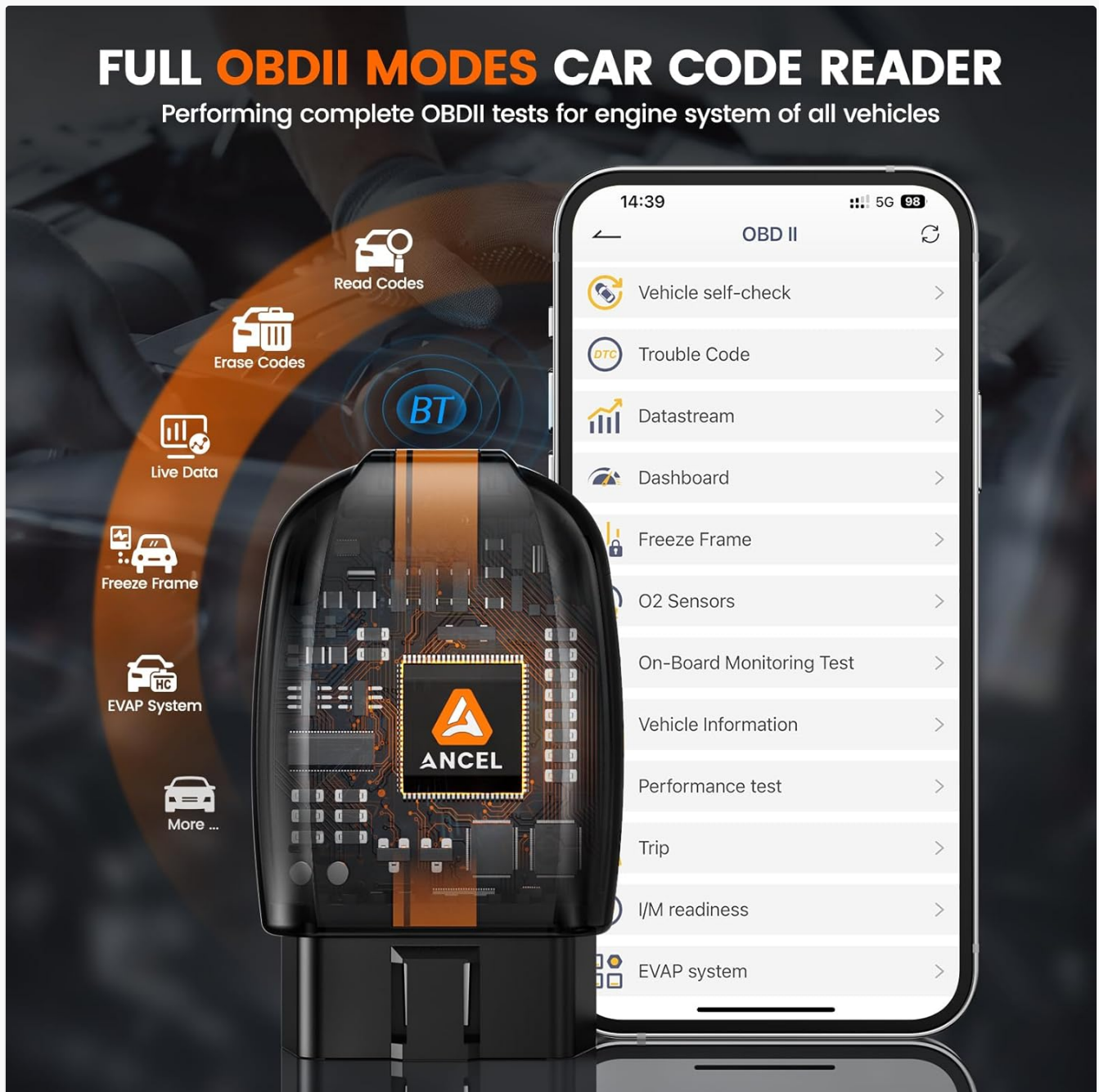


Image 5.1: The ANCEL app displaying various full OBDII diagnostic modes.

5.2 4-System Basic Diagnosis

The BD200 Pro supports reading and clearing DTCs for Engine, Anti-lock Braking System (ABS), Supplemental Restraint System (SRS/Airbag), and Transmission systems. This functionality is compatible with specific vehicle brands including Mercedes-Benz, BMW, Volkswagen (excluding Porsche), Opel, Vauxhall, Volvo, Land Rover, Peugeot, Renault, Ford, GMC, Chrysler, and Toyota.

4 SYSTEMS BASIC DIAGNOSIS

Supports Engine, ABS, Airbag, Transmission System in Reading & Clearing DTC Codes
Features Depends on Vehicle Make/Year/Model

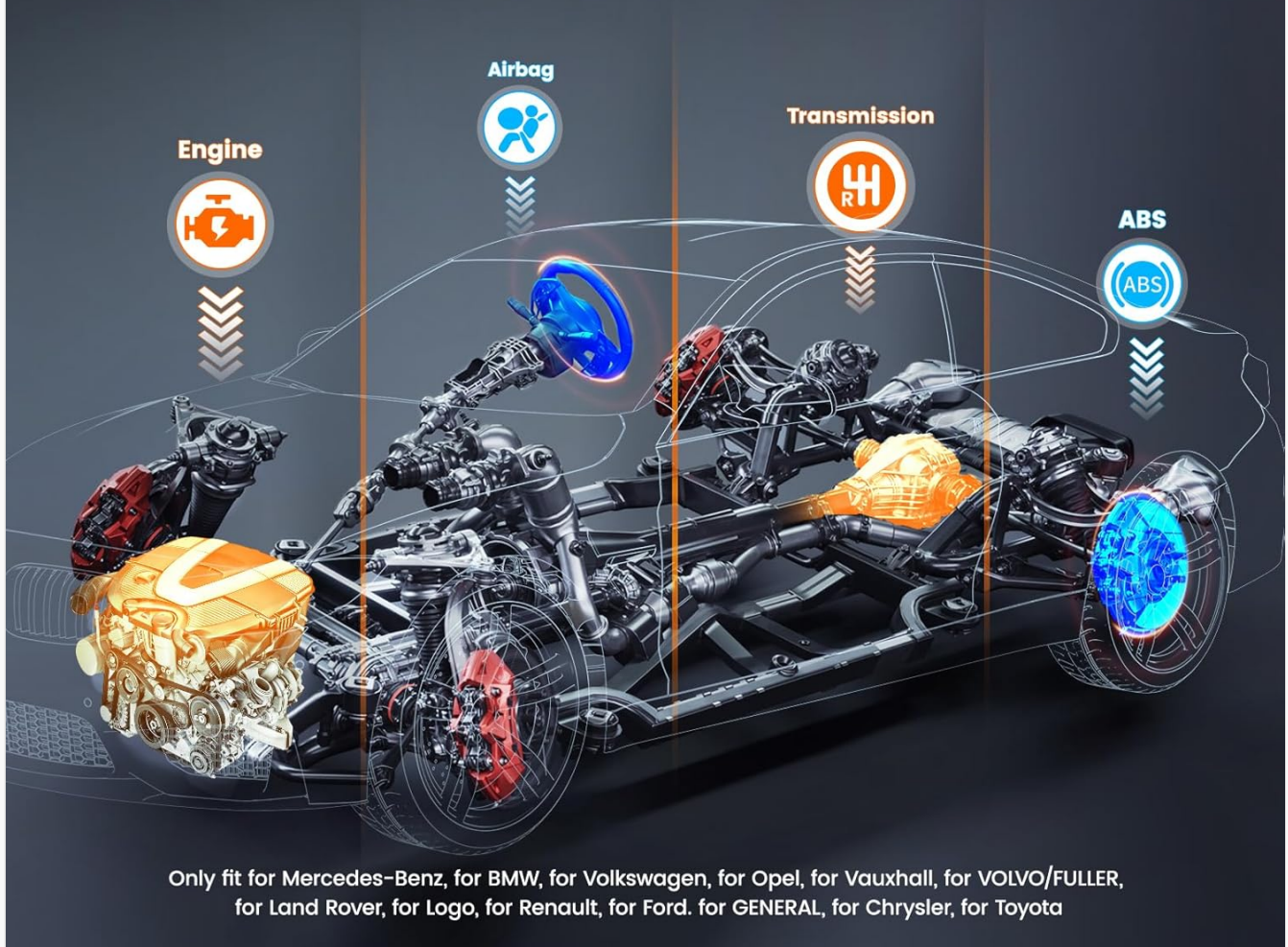


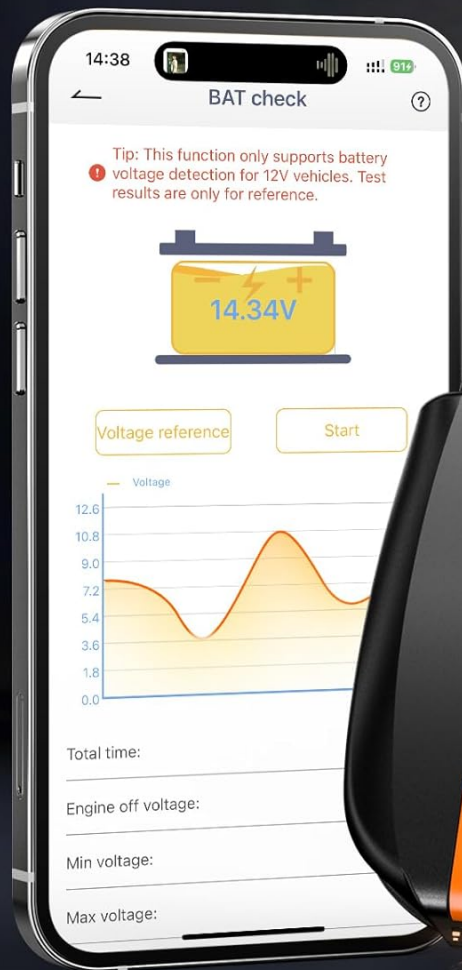
Image 5.2: Overview of the 4-system diagnostic capabilities for Engine, ABS, Airbag, and Transmission.

5.3 Battery Voltage Check

Monitor your vehicle's 12V battery health in real-time. The app displays voltage readings and charts to help assess the battery's state of charge and overall health. This function supports battery voltage detection for 12V vehicles only and does not perform charge tests, cranking tests, or battery resets.

12V CAR BATTERY VOLTAGE CHECK

ANCEL BD200 Pro is not only an OBD2 scanner, but also a battery tester to help you monitor the battery health performance for 12V car or diesel vehicle.



SLIGHTLY LOW:

- Before Starting
- Voltage<10.8V-11.8V

TOO LOW:

- Before Starting:
- Voltage<10.8V
- After Starting:
- Voltage<12.8V-13.2V

NORMAL:

- Before Starting
- Voltage 11.8V-12.8V
- Before Starting
- Voltage<7.5V-9.5V
- After Starting:
- Voltage<13.2V-14.8V

TOO HIGH:

- Before Starting
- Voltage>14.8V



Image 5.3: The ANCEL app displaying real-time battery voltage monitoring.

5.4 Performance Test

Track vehicle performance metrics such as acceleration, braking, and distance. This feature provides insights into your vehicle's dynamic capabilities.

NOT JUST AN OBD2 CODE READER

ANCEL BD200 Pro can monitor your vehicle health in real time, help you track and analyse your car performance like accelerate, brake, distance and etc.



Image 5.4: The ANCEL app displaying vehicle performance data.

5.5 Trip Analysis & Dashboard

Record trip status including coolant temperature, speed changes, RPM, and distance. The app can also transform your phone into a customizable vehicle dashboard, displaying real-time data like coolant temperature, average speed, engine RPM, and fuel consumption. You can set thresholds for certain parameters, and the app will provide voice alerts if these thresholds are exceeded.

6. MAINTENANCE

To ensure the longevity and proper functioning of your ANCEL BD200 Pro scanner, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners, solvents, or harsh chemicals.
- **Storage:** Store the scanner in its provided storage bag when not in use to protect it from dust and physical damage. Keep it in a cool, dry place, away from direct sunlight and extreme temperatures.

- **Software Updates:** Regularly check the ANCEL app for available updates. Keeping the app updated ensures access to the latest features, vehicle compatibility, and bug fixes. To update, delete the current app version and download the latest from your app store.
- **Connection Port:** Ensure the OBDII connector pins are clean and free from debris. Avoid forcing the connector into the vehicle's port.
- **Intelligent Sleep Mode:** The BD200 Pro features an intelligent sleep mode to prevent battery drain when left plugged into the vehicle. However, for extended periods of non-use, it is recommended to unplug the device.

7. TROUBLESHOOTING

If you encounter issues while using your ANCEL BD200 Pro, refer to the following common problems and solutions:

- **Device Not Connecting via Bluetooth:**
 - Ensure Bluetooth is enabled on your smartphone/tablet.
 - Verify the BD200 Pro is firmly plugged into the vehicle's OBDII port and the vehicle's ignition is ON.
 - Confirm you are using the exclusive "ANCEL" app and not a third-party application.
 - Restart the ANCEL app and try connecting again.
 - If the issue persists, try restarting your phone and the vehicle.
- **No Data or Error Reading:**
 - Ensure the vehicle is OBDII compliant (generally 1996 and newer for USA, 2002+ for European, etc.).
 - Check if the vehicle's ignition is in the "ON" position or the engine is running.
 - Verify the device is securely connected to the OBDII port.
 - Some advanced functions (e.g., 4-system diagnosis) are only compatible with specific car brands. Refer to the product specifications for compatibility.
 - If you encounter an "ECU communication error," ensure the correct vehicle make/model extension is loaded in the app if prompted.
- **App Freezes or Crashes:**
 - Ensure your ANCEL app is updated to the latest version.
 - Close and reopen the app.
 - Clear the app's cache or reinstall the app if necessary.
- **Inaccurate Battery Voltage Readings:**
 - This function is for 12V vehicles only.
 - The scanner does not perform charge or cranking tests; it only reads real-time voltage.
- **Feedback Function:** If you encounter persistent problems, use the "feedback" function within the ANCEL app to submit details to technical support.

8. WARRANTY AND SUPPORT

The ANCEL BD200 Pro comes with a 5-year warranty. For technical assistance, compatibility inquiries, or warranty claims, please contact ANCEL customer support. Support is available 24/7.

For compatibility concerns, especially regarding the 4-system diagnostic features, please provide your vehicle's

make, model, and year when contacting support to ensure accurate assistance.

Contact Information: Refer to the ANCEL app's "Help" or "About Us" section for the most current support contact details, or visit the official ANCEL website.