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ANCEL V5BT-US

ANCEL V5BT-US OBD2 Scanner User Manual

Model: V5BT-US | Brand: ANCEL

1. Introduction

The ANCEL V5BT-US is an advanced wireless bidirectional scan tool designed for comprehensive vehicle diagnostics. It offers full-system scanning, active testing, and a wide range of maintenance services, making it suitable for both professional technicians and automotive enthusiasts.

1.1. What's in the Box

- 1 * ANCEL V5BT Bidirectional Scan Tool
- 1 * Bluetooth VCI (Vehicle Communication Interface)
- 1 * Carrying Case
- 1 * Type-C USB Cable
- 1 * Power Adapter
- 1 * User Manual

Figure 1.1: Package Contents of the ANCEL V5BT-US Diagnostic Tool.

2. Key Features

- **Advanced Scan Tool Capabilities:** Offers comprehensive full-system diagnostics, including Maintenance Services and Bi-directional Control across all vehicle modules. Features a responsive 7-inch touchscreen, enhanced processing speed, and extended battery life.
- **Comprehensive Bidirectional Control:** Enables execution of over 3,000 active tests across all vehicle systems. This allows direct commands to the ECU for real-time component verification (e.g., fuel injectors, coolant pumps, lighting, windows, wipers, mirrors) to isolate faults efficiently.
- **Expanded Maintenance Reset Services:** Provides 15+ essential reset functions, including ABS Bleeding, Battery Registration, DPF Regeneration, EPB Resets, Injector Coding, Oil Reset, TPMS Reset, Throttle Adaptation, SAS Calibration, and AT Setting. Additional 30+ resets are accessible via specific vehicle brand software.
- **OE-Level Full System Coverage:** Performs OE-grade diagnostics such as Auto-VIN Identification, Full System Auto-Scan, Read/Clear Codes, Quick Test, 4-in-1 Live Data Stream, Active Tests, Hot Functions, and Module Information Retrieval. Covers critical systems like Engine, Transmission, ABS, Airbag, SAS, ESP, TPMS, Steering, HVAC, and Infotainment.
- **Intelligent Wireless Connectivity:** Utilizes Bluetooth for stable and fast data transmission, eliminating cable clutter and providing diagnostic mobility within a 33 ft (10 m) operating radius.

- **Extensive Vehicle Coverage & CAN-FD Protocol:** Supports over 10,000 car models worldwide from 1996 onwards, including passenger cars, SUVs, minivans, and 12V light-duty trucks from Asian, European, American, and Indian manufacturers. The new CAN-FD protocol ensures compatibility with the latest GM vehicles manufactured after 2020.
- **Software Updates:** Includes 2 years of complimentary software updates for new vehicle coverage, feature enhancements, and bug fixes.

Figure 2.1: OE-Level Full System Diagnostic Coverage.

Figure 2.2: Overview of 15+ Dealership Level Service Functions.

Figure 2.3: Powerful Compatibility Across Vehicle Brands and Languages.

3. Setup Guide

3.1. Initial Charging

Before first use, ensure the ANCEL V5BT-US scan tool is fully charged using the provided Type-C USB cable and power adapter. Connect the Type-C cable to the scanner's charging port and the power adapter to a standard electrical outlet. The charging indicator on the device will show its status.

3.2. Connecting the VCI (Vehicle Communication Interface)

The VCI module facilitates wireless communication between the scanner and your vehicle. Locate your vehicle's OBD2 port, typically found under the dashboard on the driver's side. Plug the Bluetooth VCI securely into the OBD2 port. Once connected, the VCI will power on and establish a wireless connection with the ANCEL V5BT-US scanner.

Figure 3.1: Wireless Bluetooth Diagnostics Setup.

4. Operating Instructions

4.1. User Interface Navigation

The ANCEL V5BT-US features a 7-inch touchscreen for intuitive navigation. Tap on icons to select functions, swipe to scroll through menus, and use the back button to return to previous screens. The main menu provides access to core functions such as Diagnosis, Hot Function, Quick Support, Update, Data Manager, Feedback, and Settings.

4.2. Diagnostic Functions

To perform a diagnostic scan, select the 'Diagnosis' option from the main menu. The tool supports:

- **Auto-VIN Identification:** Automatically detects vehicle information for quick setup.
- **Full System Auto-Scan:** Scans all available electronic control units (ECUs) in the vehicle.
- **Read/Clear Codes:** Retrieves and clears Diagnostic Trouble Codes (DTCs) from various systems.
- **Live Data Stream:** Displays real-time data parameters from the vehicle's sensors and modules, often presented in a 4-in-1 graph format for easy comparison.
- **DTC Look Up:** Provides definitions for retrieved diagnostic trouble codes.

Figure 4.1: Fast & Smart Diagnosis Features.

4.3. Bi-directional Control (Active Tests)

The bidirectional control feature allows the user to send commands from the scan tool to the vehicle's ECUs to test specific components or systems. This is crucial for pinpointing faulty components without manual disassembly. Examples include activating fuel pumps, cycling ABS solenoids, or testing window motors.

Figure 4.2: Bi-directional Control Capabilities.

4.4. Maintenance Services (Hot Functions)

The 'Hot Function' menu provides quick access to frequently used maintenance and reset services. These include, but are not limited to, Oil Reset, ABS Bleeding, Battery Registration, DPF Regeneration, EPB Resets, Injector Coding, TPMS Reset, Throttle Adaptation, SAS Calibration, and AT Setting. For a comprehensive list of available services for your specific vehicle, navigate through the 'Diagnosis' function, select the detailed vehicle model, and then explore the component modules.

Your browser does not support the video tag.

Video 4.1: How to find 150+ maintenance services on the ANCEL V5BT scanner. This video demonstrates the navigation steps to access various maintenance functions within the diagnostic tool.

4.5. Software Updates

Regular software updates ensure your ANCEL V5BT-US scanner has the latest vehicle coverage, functions, and bug fixes. Connect the device to a Wi-Fi network and navigate to the 'Update' section on the main menu to check for and install available updates. The product includes 2 years of complimentary updates.

Figure 4.3: Benefits of Regular Software Updates.

5. Maintenance and Care

- **Cleaning:** Use a soft, damp cloth to clean the scanner's screen and body. Avoid abrasive cleaners or solvents that could damage the device.
- **Storage:** Store the scanner and its accessories in the provided carrying case when not in use to protect it from dust, moisture, and physical damage. Keep it in a cool, dry place away from direct sunlight.
- **Battery Care:** For optimal battery life, avoid fully discharging the battery frequently. If storing for an extended period, charge the battery to approximately 50% and recharge every few months.

6. Troubleshooting

- **Device Not Powering On:** Ensure the battery is charged. If connected to the vehicle, verify the VCI is securely plugged into the OBD2 port and the vehicle's ignition is on.
- **No Communication with Vehicle:** Check that the VCI is firmly connected to the OBD2 port. Verify the vehicle's ignition is in the ON position (engine off or running). Ensure the scanner's Bluetooth connection to the VCI is active. Try selecting the vehicle make/model manually if auto-VIN fails.
- **Software Freezes/Slow Performance:** Restart the device. Ensure the software is up to date. If

issues persist, contact technical support.

- **Inaccurate Readings:** Ensure the correct vehicle information is entered. Verify the VCI connection is stable. Some functions may vary in compatibility depending on the specific vehicle year, make, and model.

7. Technical Specifications

Attribute	Specification
Model Number	V5BT-US (AL-V5BT)
Operating System	Android
Display Resolution	1024x600
Item Weight	3.01 pounds
Package Dimensions	10.87 x 7.09 x 3.62 inches
Batteries	1 Lithium Ion battery (included)
Connectivity	Wireless Bluetooth (VCI), Wi-Fi
Supported Protocols	CAN-FD, OBD2 standard protocols

Figure 7.1: Rear View of the ANCEL V5BT-US Device.

8. Warranty and Technical Support

The ANCEL V5BT-US includes 2 years of complimentary software updates from the date of purchase,

ensuring your device remains current with the latest vehicle data and functionalities.

8.1. Technical Assistance

For technical assistance or inquiries, please contact the ANCEL support team. Support is available Monday-Friday, 9:00 AM - 6:00 PM Eastern Time. Prompt responses and expert solutions are guaranteed.

Refer to the official ANCEL website or the contact information provided in your product packaging for specific contact methods (phone, email, online chat).