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ANCEL V5BT, FX2000

ANCEL V5BT Bidirectional Scan Tool & FX2000 OBD2 Scanner User Manual

Comprehensive Guide for Automotive Diagnostics

1. INTRODUCTION

This manual provides detailed instructions for the ANCEL V5BT Bidirectional Scan Tool and the ANCEL FX2000 OBD2 Scanner Diagnostic Tool. These devices are designed to assist in diagnosing and maintaining various automotive systems. Please read this manual thoroughly before operation to ensure proper use and to maximize the benefits of your diagnostic tools.

2. PRODUCT FEATURES

The ANCEL V5BT and FX2000 offer a range of advanced diagnostic capabilities:

- **Full System Bidirectional Scan Tool (V5BT):** Capable of performing active tests and full system diagnostics across various vehicle modules.
- **FX2000 OBD2 Scanner:** Provides comprehensive OBD-level diagnostics, including reading and clearing codes, live data streaming, and I/M readiness.
- **Advanced Reset Services:** Includes 15+ common maintenance functions such as ABS Bleeding, BMS Reset, DPF Regeneration, EPB Reset, Injector Coding, Oil Reset, TPMS Reset, Throttle Reset, SAS Calibration, AT Setting, Gear Learn, Sunroof Initialization, AFS Headlamp Reset, Windows Calibration, and Seat Calibration.
- **Wide Vehicle Compatibility:** Supports over 80 vehicle brands manufactured after 1996, including those with CAN-FD protocol.
- **Wireless Bluetooth VCI (V5BT):** Enables flexible and convenient diagnostic operations up to 33 feet (10m) away from the vehicle.
- **User-Friendly Interface:** Android OS with a 7-inch HD touchscreen for intuitive navigation and operation.
- **Multi-language Support:** Supports 13 languages including English, French, Russian, German, Italian, Portuguese, Spanish, Japanese, Korean, Dutch, Polish, Czech, and Swedish.

3. SETUP AND INITIAL CONNECTION

Follow these steps to set up your ANCEL diagnostic tool and connect it to a vehicle:

1. **Charge the Device:** Ensure the ANCEL V5BT unit is fully charged using the provided power adapter before first use. The FX2000 is typically powered via the OBD-II port.
2. **Locate the OBD-II Port:** The OBD-II port is usually located under the dashboard on the driver's side of the vehicle. Refer to your vehicle's owner's manual if you cannot locate it.
3. **Connect the Diagnostic Tool:**
For ANCEL V5BT: Plug the Enhanced Bluetooth VCI (Vehicle Communication Interface) into the vehicle's OBD-II port. Ensure a secure connection. The V5BT tablet will connect wirelessly to this VCI.
For ANCEL FX2000: Plug the OBD2 cable directly from the FX2000 unit into the vehicle's OBD-II port. The device will power on automatically.
4. **Turn On Vehicle Ignition:** Turn the vehicle's ignition to the "ON" position (engine off). For some functions, the engine may need to be running.
5. **Establish Communication:** The device will automatically attempt to establish communication with the vehicle's ECU. Follow on-screen prompts to select vehicle make, model, and year if not automatically detected.



Image: The ANCEL V5BT (bottom) and FX2000 (top) diagnostic tools, showing their respective designs and interfaces. The V5BT features a larger touchscreen and a separate Bluetooth VCI, while the FX2000 is a more compact, cable-connected unit.

4 SYSTEMS DIAGNOSTIC TOOL

Supports Automatic Scanning, One-Key Diagnosis



Image: A visual guide demonstrating the three steps for connecting the ANCEL FX2000: 1. Plug the diagnostic tool into the OBD-II port. 2. Turn on the car's ignition. 3. Access the diagnostic scanner to begin diagnosis. This highlights the ease of use for both devices.

4. OPERATING INSTRUCTIONS

4.1. Basic OBD-II Functions (FX2000 & V5BT)

Both devices support standard OBD-II diagnostic modes:

- **Read Codes:** Retrieves Diagnostic Trouble Codes (DTCs) from the vehicle's control modules.
- **Clear Codes:** Erases DTCs from the vehicle's memory and turns off the Malfunction Indicator Lamp (MIL).
- **Live Data Stream:** Displays real-time data parameters from the vehicle's sensors and modules in text or graph format.
- **Freeze Frame:** Captures a snapshot of vehicle operating conditions at the time a fault code was set.
- **I/M Readiness:** Checks the status of emission-related monitors to determine if the vehicle is ready for an emissions test.

- **O2 Sensor Test:** Retrieves O2 sensor monitor test results.
- **On-Board Monitor Test:** Retrieves results for emission-related powertrain components and systems that are not continuously monitored.
- **EVAP System Test:** Initiates a test of the evaporative emission control system.
- **Vehicle Information:** Retrieves the Vehicle Identification Number (VIN), Calibration ID (CALID), and Calibration Verification Number (CVN).
- **DTC Lookup:** Provides definitions for generic and manufacturer-specific diagnostic trouble codes.

FULL OBD-LEVEL DIAGNOSTICS

Diagnose Your Car With The Professional Obd2 Test Mode.



Figure Out Why The Engine Light Turned On.



Detect Why Your Car Suddenly Dies.



Figuring out if an oxygen sensor is good or bad.



Read Code



Clear Code



Live Data Stream



Freeze Frame



I/M Readiness



On-Board Monitor Test



O2 Sensor Test



Evap System Test



Vehicle Information



DTC Lookup



Image: An illustration of the various full OBD-level diagnostic functions available, including Read Code, Clear Code, Live Data Stream, Freeze Frame, I/M Readiness, On-Board Monitor Test, O2 Sensor Test, EVAP System Test, Vehicle Information, and DTC Lookup. This image emphasizes the comprehensive nature of the diagnostic capabilities.

4.2. Full Systems Diagnostics (V5BT)

The ANCEL V5BT can access and diagnose all available electronic control modules in a vehicle, including but not limited to:

- Engine System
- Anti-lock Braking System (ABS)

- Supplemental Restraint System (SRS/Airbag)
- Transmission System
- Body Control Module (BCM)
- Steering Angle Sensor (SAS)
- Tire Pressure Monitoring System (TPMS)
- And many more, depending on the vehicle model.

FX2000 REPAIR 4 SYSTEMS, TURN OFF THE FAULT LIGHT

Engine, gearbox, SRS, ABS



Engine

Engine

The engine starts idle
Abnormal engine noise
Carbon accumulation in engines
Engine oil leak
High engine water temperature



Transmission

Transmission

Low fluid temperature
Low fluid level
Maintenance reminder
High temperature
Slipping out of gear



SRS

SRS

The airbag is deactivated
The seatbelt buckle is not working
The clock spring is defective
The passenger seat sensor is defective



ABS

ABS

The computer line is out of order
The ABS wheel speed sensor is faulty
The ABS main pump is faulty
The ABS system voltage is too high or too low



Code reading - FIX scheme - FIX car - Clear code

Image: Depicts the ANCEL FX2000's capability to diagnose four core systems: Engine, Airbag, Transmission, and ABS. The image shows the scanner in use, performing an automatic system scan, highlighting its multi-system diagnostic functionality.

WIRELESS BLUETOOTH DIAGNOSTICS

ANCEL V5 BT



OTHERS



- ✓ Faster data transmission
- ✓ No annoying wire
- ✓ Support 33ft(10m) max
- ✓ Outside the car, more free & comfortable



- ✗ Smaller size of screen
- ✗ Limited by wire
- ✗ Distance 3.3ft(1m)

Image: Illustrates how the FX2000 helps repair and clear fault lights for Engine, Gearbox (Transmission), SRS, and ABS systems. It provides examples of common issues for each system and emphasizes the "Code reading - FIX scheme - FIX car - Clear code" process.

4.3. Bidirectional Control / Active Test (V5BT)

The V5BT allows you to send commands to vehicle systems and components to test their functionality, such as:

- Activating ABS pump motors
- Cycling the A/C clutch
- Performing injector tests
- Testing window regulators
- Operating wipers and headlights
- Performing EGR tests

BI-DIRECTIONAL CONTROL

Performs Individual Tests for Specific Subsystem/Component to know If the Actuator Functions Well.



And More



Image: Demonstrates the bidirectional control capabilities, showing individual tests for specific subsystems like windows, headlights, wipers, injector tests, and EGR tests. The image visually represents the scanner interacting with the vehicle's systems to perform these active tests.

4.4. Special Functions / Reset Services (V5BT)

The V5BT provides access to various service functions for maintenance and repair:

- **ABS Bleeding:** Bleeds air from the brake system after component replacement.
- **BMS Reset:** Resets the battery management system after battery replacement.
- **DPF Regeneration:** Initiates the regeneration process for the Diesel Particulate Filter.
- **EPB Reset:** Resets the electronic parking brake after brake pad replacement.
- **Injector Coding:** Codes new injector numbers to the ECU.
- **Oil Reset:** Resets the oil life reminder after an oil change.
- **TPMS Reset:** Resets the Tire Pressure Monitoring System.
- **Throttle Reset:** Relearns the throttle body position.
- **SAS Calibration:** Calibrates the Steering Angle Sensor.

- **AT Setting:** Performs transmission adaptation reset.
- **Gear Learn:** Performs crankshaft position sensor adaptive learning.
- **Sunroof Initialization:** Initializes the sunroof system.
- **AFS Headlamp Reset:** Resets the Adaptive Front-lighting System.
- **Windows Calibration:** Calibrates power windows.
- **Seat Calibration:** Calibrates power seats.

15+ DEALERSHIP LEVEL SERVICE FUNCTIONS

Get 150+ Hidden Repair Functions Via Brand & Models

The collage features 15 service function icons and images arranged in a grid. The functions are: ABS Bleeding, BMS Reset, DPF Regeneration, EPB Reset, Injector Coding, Oil Reset, TPMS Reset, Throttle Reset, SAS Calibration, and AT Setting. A hand is shown holding the ANCEL diagnostic tool, which displays a grid of these service function icons on its screen.

Image: Displays a collage of icons and images representing over 15 dealership-level service functions, including ABS Bleeding, BMS Reset, DPF Regeneration, EPB Reset, Injector Coding, Oil Reset, TPMS Reset, Throttle Reset, SAS Calibration, and AT Setting. This highlights the extensive maintenance capabilities of the V5BT.

5. MAINTENANCE

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

- **Software Updates:** Regularly check for and install software updates. The V5BT offers 2 years of free updates.

Updates often include new vehicle models, bug fixes, and improved functionality. Connect the device to Wi-Fi and navigate to the "Update" section in the main menu.

- **Cleaning:** Use a soft, dry cloth to clean the device's screen and body. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care (V5BT):** For the V5BT, avoid fully discharging the battery frequently. Charge it regularly, even if not in use for extended periods, to maintain battery health.
- **Cable Inspection:** Periodically inspect the OBD-II cable and connectors for any signs of damage or wear.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on (FX2000)	Poor connection to OBD-II port; Vehicle's OBD-II port fuse blown.	Ensure cable is securely connected. Check vehicle's fuse box for a blown fuse related to the OBD-II port.
Device does not power on (V5BT)	Low battery; Power adapter issue.	Charge the device using the provided power adapter. Ensure the adapter is working correctly.
Communication error with vehicle	Incorrect vehicle protocol; Loose connection; Vehicle ignition off.	Verify the OBD-II cable/VCI is securely connected. Ensure vehicle ignition is ON. Try a different vehicle if possible to rule out device issue. Update software.
Screen frozen or unresponsive	Software glitch; System overload.	Restart the device. If issue persists, perform a factory reset (data will be lost, back up if possible).
Cannot perform a specific function	Vehicle not supported for that function; Software outdated.	Check vehicle compatibility list for the specific function. Ensure software is up to date.

7. SPECIFICATIONS

Feature	ANCEL V5BT	ANCEL FX2000
Operating System	Android OS	Proprietary
Display	7-inch HD Touch Screen	Color LCD
Connectivity	Bluetooth (VCI), Wi-Fi (2.4GHz & 5GHz)	Wired OBD-II
Internal Storage	32GB	N/A
RAM	2GB	N/A
Battery (V5BT only)	5000mAh Rechargeable	N/A (Powered by OBD-II)
Supported Protocols	OBD-II, EOBD, CAN, CAN-FD, and others	
Vehicle Coverage	80+ vehicle brands (post-1996)	

Feature	ANCEL V5BT	ANCEL FX2000
Update Policy	2 Years Free Update	

8. WARRANTY AND SUPPORT

ANCEL products typically come with a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official ANCEL website for specific warranty terms and conditions.

For technical support, software updates, or any inquiries, please contact ANCEL customer service through their official channels. You can often find support information on the device itself under a "Help" or "About" section, or by visiting the ANCEL brand store on Amazon: [ANCEL Official Store](#).



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This manual is for informational purposes only. ANCEL reserves the right to make changes to product specifications and features without prior notice.

Related Documents - V5BT, FX2000

	<p>ANCEL V5 & V5 BT User's Manual: Comprehensive Automotive Diagnostic Tool Guide</p> <p>This user manual provides detailed instructions for the ANCEL V5 and V5 BT automotive diagnostic tools. It covers product overview, specifications, interface descriptions, software functions including diagnosis, hot functions, DTC query, data management, feedback, settings, product activation, cleaning, maintenance, and warranty information.</p>
	<p>ANCEL DS600 Plus User Manual and Diagnostic Guide</p> <p>Comprehensive user manual and guide for the ANCEL DS600 Plus automotive diagnostic tool, covering setup, functions, maintenance, troubleshooting, and warranty information.</p>
	<p>ANCEL FX2000 User's Manual - Professional Automotive OBD II Diagnostic Tool</p> <p>Comprehensive user manual for the ANCEL FX2000, a professional automotive OBD II diagnostic tool. This guide covers product features, connection, settings, diagnostic functions, system diagnosing, help resources, registration, software updates, FAQs, warranty, and customer service.</p>

 <p>ANCEL FX2000 Upgrade Guide</p> <p>How to download, install, register, and apply software updates for your ANCEL FX2000 automotive OBD2 diagnostic scan tool via USB. Learn to download, install, register, and apply software updates for your device, covering engine, ABS, SRS, and transmission systems.</p>	<p>ANCEL FX2000 Upgrade Guide: Step-by-Step Software Update Instructions</p> <p>Detailed instructions for updating your ANCEL FX2000 automotive OBD2 diagnostic scan tool via USB. Learn to download, install, register, and apply software updates for your device, covering engine, ABS, SRS, and transmission systems.</p>
<p>ANCEL AD410 Usage/Upgrade/Feedback Issues</p>	<p>ANCEL AD410 Usage, Upgrade, and Feedback Issues Troubleshooting Guide</p> <p>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.</p>
 <p>Manuale Utente ANCEL FX2000: Guida Completa alla Diagnostica OBD II</p>	<p>Manuale Utente ANCEL FX2000: Guida Completa alla Diagnostica OBD II</p> <p>Manuale completo per lo strumento diagnostico ANCEL FX2000. Copre introduzione, informazioni generali OBD II, descrizioni del prodotto, connessione, diagnostica, aiuto, registrazione, aggiornamenti, FAQ e garanzia.</p>