ANCEL FX 6000

ANCEL FX6000 OBD2 Scanner User Manual

Model: FX 6000 | Brand: ANCEL

1. Introduction

The ANCEL FX6000 is a professional automotive diagnostic scan tool designed to provide comprehensive vehicle health analysis. This device supports all 10 OBDII test modes and offers full system diagnosis for a wide range of vehicles, including engine, transmission, ABS, SRS (Airbag), EPB, and more. It also includes various maintenance and reset functions to assist with common vehicle services.

This manual provides detailed instructions on setting up, operating, maintaining, and troubleshooting your ANCEL FX6000 scanner. Please read it thoroughly to ensure proper and safe use of the device.

2. Product Overview

The ANCEL FX6000 is an upgraded diagnostic tool featuring a 4.3-inch TFT screen for clear display of data and menus. It is designed for ease of use with intuitive navigation and dedicated function keys.



Figure 2.1: ANCEL FX6000 OBD2 Scanner and its protective carrying case.

Key Features:

- **Comprehensive Diagnostic Functions:** Performs overall vehicle checks, diagnosing both diesel and gasoline vehicles across various systems including Engine, Transmission, ABS, SRS (Airbag), EPB, Oil Service Reset, SAS Steering Angle, TPMS, IMMO, and other diagnostic systems.
- **Full OBDII Test Modes:** Supports all 10 OBDII test modes, enabling live data viewing (text/graphic), freeze frame data, reading and clearing history/current codes, and I/M Readiness checks for quick system status assessment.
- **Extensive Vehicle Coverage:** Compatible with most 1996 US-Based, 1996 EU-Based, and 1996 Asian-Based cars or newer OBD II/Eobd & CAN domestic or import vehicles.
- **Multi-Language Support:** Supports English, Russian, Spanish, Polish, Dutch, Portuguese, German, French, and Korean languages.
- **User-Friendly Interface:** Equipped with a 4.3-inch 480x272 TFT screen and a unique FN hot key for custom favorites.
- **Lifetime Free Update Service:** Provides free software updates to address bugs and add new parameters.



Figure 2.2: The ANCEL FX6000 package includes the diagnostic scanner, a user manual, diagnostic cable, OBDII connector, USB cable, and a carry case.

Product Video:

Your browser does not support the video tag.

Video 2.1: An official product video demonstrating the ANCEL FX6000 All System Automotive Code Reader in operation, highlighting its features and capabilities.

3. Setup

Before using the ANCEL FX6000, ensure the device is properly set up and updated.

3.1 Initial Connection

1. Locate the OBDII port in your vehicle. This is typically found under the dashboard on the driver's side.

2. Ensure the vehicle's ignition is ON. For keyless operation, press the start button once without pressing the brake pedal to power up the dashboard.
3. Connect the OBDII connector of the diagnostic cable to the vehicle's OBDII port.
4. Connect the other end of the diagnostic cable to the ANCEL FX6000 scanner. The device will power on automatically.

3.2 Software Updates

The ANCEL FX6000 offers lifetime free software updates. It is recommended to update the device regularly to ensure access to the latest vehicle models, functions, and bug fixes.

1. Download the update software from the official ANCEL website onto a Windows-based computer.
2. Connect the ANCEL FX6000 to your computer using the provided USB cable.
3. Follow the on-screen instructions of the update software to install the latest firmware and vehicle data.



Figure 3.1: The ANCEL FX6000 scanner connected to a laptop, illustrating the process for online software updates.

4. Operating Instructions

The ANCEL FX6000 provides various diagnostic and service functions accessible through its main menu.

4.1 Navigation

Use the directional arrow keys to navigate through menus and select options. The 'OK' button confirms selections, and 'Esc' returns to the previous screen. The 'Fn' key can be customized for quick access to frequently used functions.

4.2 OBDII Diagnostic Functions

Access these functions via the 'Diagnose' menu option.



Figure 4.1: The ANCEL FX6000 supports various OBDII functions including Read Codes, Clear Codes, Data Stream, EVAP Test, DTC Lookup, O2 Sensor Test, I/M Readiness Test, Vehicle Information, On-Board Monitor Test, and View Freeze Frame Data.

- **Read Codes:** Retrieves Diagnostic Trouble Codes (DTCs) from the vehicle's ECU to identify problem areas.

- **Clear Codes:** Erases DTCs from the vehicle's memory after repairs are completed. Ensure the ignition is ON and the engine is OFF before clearing codes.
- **Live Data Stream:** Displays real-time data parameters from various sensors in text or graphic format, allowing for dynamic analysis of vehicle performance.
- **I/M Readiness:** Checks the readiness of the emission-related monitoring systems to determine if they are operating correctly and if the vehicle is ready for an emissions test.
- **Freeze Frame Data:** Records a snapshot of vehicle conditions at the moment a fault code is set, providing valuable information for diagnosis.
- **Vehicle Information (VIN):** Retrieves the vehicle identification number and other relevant vehicle information.

4.3 All System Diagnosis

The FX6000 can diagnose all available control modules in the vehicle, providing a comprehensive overview of the vehicle's electronic systems.



Figure 4.2: The ANCEL FX6000 can diagnose all major vehicle systems including Engine, SAS (Steering Angle Sensor), Transmission, TPMS (Tire Pressure Monitoring System), Airbag System, ABS (Anti-lock Braking System), EPB (Electronic Parking Brake), ESP (Electronic Stability Program), and Battery System.

4.4 Special Functions

The device includes 21 frequently needed maintenance and reset functions. Access these via the 'Special Function' menu.



Figure 4.3: Special functions available on the ANCEL FX6000, such as ABS Bleeding, Battery Management System (BMS) reset, Tire Pressure Monitoring System (TPMS) reset, Throttle Position Sensor (TPS) reset, Immobilizer (IMMO) service, Suspension reset, Gearbox matching, Electronic Parking Brake (EPB) reset, and Adaptive Front-lighting System (AFS) reset.



Figure 4.4: Further special functions provided by the ANCEL FX6000, including Diesel Particulate Filter (DPF) Regeneration, Oil Light Reset, Steering Angle Sensor (SAS) Calibration, Injector Coding, and Sunroof Initialization.

- **Oil Light Reset:** Resets the oil service light after an oil change.
- **TPMS Reset:** Resets tire pressure values after tire rotation or sensor replacement.
- **ABS Bleeding:** Helps to bleed air from the ABS system.
- **EPB Reset:** Resets the electronic parking brake after brake pad replacement.
- **Battery Reset:** Registers a new battery after replacement.
- **Throttle Adaption:** Initializes the throttle actuators to their default state.
- **Steering Angle Reset:** Resets the steering angle sensor to zero.
- **Injector Coding:** Writes new injector codes into the car system for correct fuel injection quantity.
- **DPF Regeneration:** Manages the Diesel Particulate Filter regeneration process.

5. Maintenance

To ensure the longevity and optimal performance of your ANCEL FX6000 scanner, follow these maintenance guidelines:

- Keep the device clean and free from dust and moisture. Use a soft, dry cloth for cleaning.
- Store the scanner in its protective carrying case when not in use.
- Avoid exposing the device to extreme temperatures or direct sunlight.
- Regularly perform software updates as described in Section 3.2 to ensure the device has the latest features and vehicle compatibility.

6. Troubleshooting

This section addresses common issues you might encounter while using the ANCEL FX6000.

6.1 Vehicle Linking Error

A communication error occurs if the scan tool fails to communicate with the vehicle's ECU (Electronic Control Unit).

- **Verify Ignition:** Ensure that the vehicle's ignition is ON.
- **Check Connection:** Confirm that the scan tool's connector is securely connected to the vehicle's DLC (Data Link Connector).
- **Power Cycle:** Turn the ignition off, wait for about 10 seconds, and then turn the ignition back to ON before attempting to test again.
- **Module Check:** Verify that the control module is not defective.

6.2 Software Update Issues

If you experience difficulties with software updates:

- Ensure your computer meets the minimum system requirements (Windows operating system).
- Verify a stable internet connection during the update process.
- Temporarily disable any antivirus software that might interfere with the update utility.
- Ensure the USB cable is properly connected and not damaged.

7. Specifications

Attribute	Value
Manufacturer	HITSAN
Brand	ANCEL
Item Weight	3.3 pounds
Product Dimensions	9.45 x 6.69 x 1.97 inches
Item Model Number	ATM-26536

Attribute	Value
Manufacturer Part Number	FX 6000
Voltage	12 Volts
Operating System	Windows (for updates)
Display Resolution	480x272
Date First Available	March 21, 2018

8. Vehicle Compatibility

The ANCEL FX6000 is designed to work with a broad range of vehicles. Compatibility may vary for specific functions across different car models.

Supported Regions and Years:

- **Asian Car:** 1992 to 2020 models (e.g., AU Ford, Acura, Honda, Holden, Hyundai, Isuzu, Infiniti, Kia, Lexus, Mazda, Mitsubishi, Nissan, Perodua, Proton, Subaru, Toyota).
- **European Car:** 1992 to 2020 models (e.g., Audi, Abarth, Alfa-Romeo, Aston Martin, BMW, Bugatti, Bentley, Citroen, Dacia, EU Ford, Ferrari, Fiat, Jaguar, Lamborghini, Lancia, Land Rover, Maserati, Mini, Maybach, Mercedes Benz, Opel, Peugeot, Porsche, Renault, Rolls, Saab, Seat, Skoda, Smart, Sprinter, Vauxhall, Volvo, VW).
- **American Car:** 1992 to 2021 models (e.g., Chrysler group, Ford group, GM group).

The device supports 12V gasoline and diesel vehicles, SUVs, MPVs, and pickup trucks. For specific car model support and function verification, it is recommended to contact ANCEL support with your vehicle's VIN.

Support Car Models List

Areas	No	Car Brands	Areas	No	Car Brands	Areas	No	Car Brands
Asian Car	1	For AU Ford	European Car	19	For Alfa-Romeo	European Car	37	For Opel
	2	For Acura		20	For Aston Martin		38	For Peugeot
	3	For Honda		21	For BMW		39	For Porsche
	4	For Holden		22	For Bugatti		40	For Renault
	5	For Hyundai		23	For Bentley		41	For Rolls
	6	For Isuzu		24	For Citroen		42	For Saab
	7	For Infiniti		25	For Dacia		43	For Seat
	8	For Kia		26	For EU Ford		44	For Skoda
	9	For Lexus		27	For Ferrari		45	For Smart
	10	For Mazda		28	For Fiat		46	For Sprinter
	11	For Mitsubishi		29	For Jaguar		47	For Vauxhall
	12	For Nissan		30	For Lamborghini		48	For Volvo
	13	For Perodua		31	For Lancia		49	For VW
	14	For Proton		32	For Land Rover	American Car	50	For Chrysler
	15	For Subaru		33	For Maserati		51	For Ford
	16	For Toyota		34	For Mini		52	For GM
European Car	17	For Audi		35	For Maybach		53	For Chevrolet
	18	For Abarth		36	For Mercedes Benz		54	For Jeep

Note:

1. Please inquire us if you focus on someone function, different car work with different function
2. Support 12V gasoline diesel sedan, SUV, MPV,Vans,Pickup truck
3. Please Leave us message in below format, for example : VW Golf7 2015, 2.0cc, Diesel, ABS function, we will reply you within 8 hours.

Figure 8.1: A detailed list of car brands supported by the ANCEL FX6000, categorized by Asian, European, and American markets.

9. Warranty and Support

The ANCEL FX6000 comes with a lifetime free update service, ensuring your device remains current with the latest vehicle data and diagnostic capabilities.

For technical assistance, specific vehicle compatibility inquiries, or any issues not covered in this manual, please contact ANCEL customer support. You can also refer to the official user manual PDF for additional details: Download User Manual (PDF).

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question