



# User Manual



FOR ANCEL FX3x00 ELITE SERIES SCANNER

[www.anceltech.com](http://www.anceltech.com)



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## **Safety Instructions**

The safety messages herein cover situations ANCEL is aware of. ANCEL cannot know, evaluate or advise you as to all of the possible hazards. You must be certain that any condition or service procedure encountered does not jeopardize your personal safety.

## **Safety Warning**

- Always perform the automotive testing in a safe environment.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area, for exhaust gases are poisonous.
- Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual

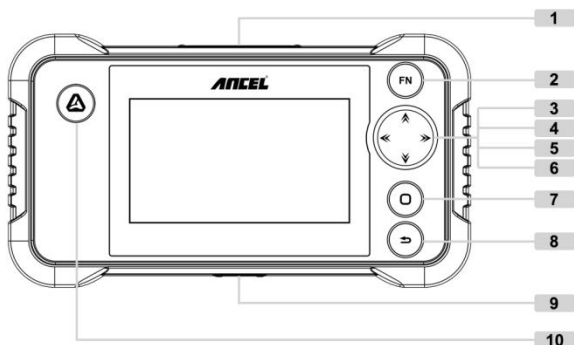
transmission) and make sure the parking brake is engaged.

- Put blocks in front of the drive wheels and never leave the vehicle unattended while testing.
- Be extra cautious when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Keep a fire extinguisher suitable for gasoline, chemical, and electrical fires nearby.
- Do not connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep the test equipment dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clean the outside of the equipment as necessary.
- Do not drive the vehicle and operate the test equipment at the same time. Any distraction may cause an accident.
- Refer to the service manual for the vehicle being serviced and adhere to all diagnostic procedures and precautions. Failure to do so may result in personal injury or damage to the test equipment.
- To avoid damaging the test equipment or generating false data, make sure the vehicle battery is fully charged and the connection to the vehicle DLC is clean and secure.
- Do not place the test equipment on the distributor of the vehicle. Strong electro-magnetic interference can damage the equipment.

## Chapter 1 General Introduction

The FX3x00 ELITE SERIES Scanner is the handheld device combining with the best possible coverage of OE-level to help you diagnose symptoms, codes, and customer complaints easily, quickly and efficiently. This manual describes the construction and operation of the device and how it works.

### 1.1 Layout for FX3x00 ELITE SERIES Scanner



| No. | Key Name         | Key Definition                                                      |
|-----|------------------|---------------------------------------------------------------------|
| 1   | Diagnostic Port  | Provides connection between vehicle and the scanner                 |
| 2   | FN Key           | Short press for selection, long press for screenshot or select all. |
| 3   | Up Key           | Direction Key used for up.                                          |
| 4   | Down Key         | Direction Key used for down.                                        |
| 5   | Left Key         | Direction Key used for left and page up.                            |
| 6   | Right Key        | Direction Key used for right and page down                          |
| 7   | OK Key           | Executes a selected option and generally goes to the next screen.   |
| 8   | Back Key         | Exits a screen and generally returns to previous screen.            |
| 9   | USB Port         | Setup the data transmission between device and PC.                  |
| 10  | Data Manager Key | Shortcut key for Data Manager.                                      |

## 1.2 Technical Specifications

|   |                          |                        |
|---|--------------------------|------------------------|
| 1 | Screen Display           | 4.3" TFT color display |
| 2 | Packing (LxWxH)          | 240*120*100mm          |
| 3 | Gross Weight (Full Kits) | 0.90kg                 |
| 4 | OS Platform              | Linux                  |
| 5 | Memory                   | 16G                    |
| 6 | Input Voltage            | DC 12V                 |

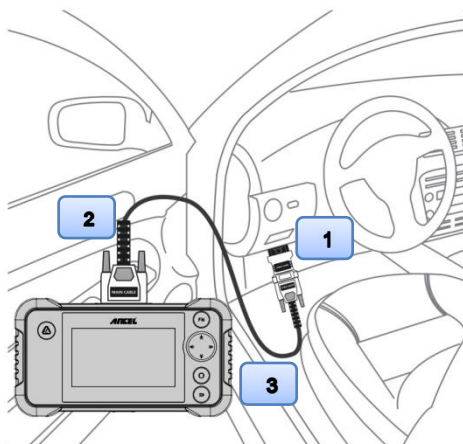
## 1.3 Standard Accessory Kits

|   |                |
|---|----------------|
| 1 | Tool Bag       |
| 2 | Main Unit      |
| 3 | OBD main cable |
| 4 | USB Cable      |
| 5 | User Manual    |
| 6 | Carton Box     |

## Chapter 2 Get Ready before Diagnosis

### 2.1 Cable Connection for On-Board Diagnosis

Make sure the FX3x00 ELITE SERIES Scanner is well connected for vehicle diagnosis.

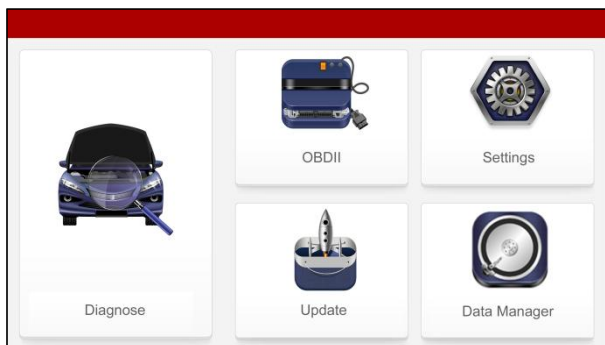


#### Connection:

To connect the main unit with the OBD main cable to get power supply.

| No. | Description                  | Features and Functions                                        |
|-----|------------------------------|---------------------------------------------------------------|
| 1   | Diagnostic Socket on car     | Socket location varies based on different car makes/models    |
| 2   | Main Cable                   | To connect the connector and the vehicle                      |
| 3   | Diagnostic Scanner Main Unit | To communicate with vehicle and display the diagnostic result |

The system boots up and shows the screen with the FX3x00 ELITE SERIES Scanner Job Menu as below:



Almost all operations on the display are controlled by menu driven, which allows you to quickly locate the test procedure, or data that you need, through a of choices and questions. Detailed descriptions of the menu structures are found in the chapters for the various applications.

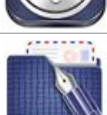
## 2.2 Application Icon Introduction

The Application buttons configure the FX3x00 ELITE SERIES Scanner for the type of operation or activity to be performed.

Providing 5 modules on the screen including Diagnose, OBDII, Settings, Update and Data Manager. Each module supports different functions.



| NAME     | PICTURES | DESCRIPTION                                                                                                                                                     |
|----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Diagnose |          | Executes the corresponding vehicle diagnostic program based on the selected region and vehicle make.                                                            |
|          |          | European<br>Displays the European vehicle menu. Including BMW, Alfa, Jaguar, Land Rover, Fiat, Ford, Citroen, Mercedes-Benz, VW, Audi, Volvo, Renault, etc.     |
|          |          | Asian<br>Displays the Asian vehicle menu. Including Toyota, Lexus, Honda, Acura, Nissan, Infiniti, Mitsubishi, Daewoo, Mazda, Hyundai, Kia, Isuzu, Suzuki, etc. |
|          |          | American<br>Displays the USA vehicle menu including GM, Ford, Chrysler, etc                                                                                     |

|              |                                                                                     |                                                                                                                                        |
|--------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|              |    | Chinese<br>Displays Chinese vehicle including Chana, MG, Chery, Geely, GWM, Roewe                                                      |
| OBDII        |    | All modes of OBDII test for cars after 1996 and newer                                                                                  |
|              |    | I/M<br>Including read/erase codes, view live data, freeze frame data, I/M readiness, O2 monitor test etc.                              |
|              |    | DTC Library<br>To provide you with the latest definition of PCBU fault codes                                                           |
| Update       |    | When the device is connected to the Internet, checks for the latest version for diagnostic programs, and performs updating procedures. |
|              |   | Via WiFi<br>Update via Wi-Fi                                                                                                           |
|              |  | Via USB<br>Update via PC client                                                                                                        |
|              |  | Feedback<br>Upload the vehicle diagnosis log to solve your problems during vehicle diagnosing.                                         |
| Data Manager |  | Data Manager<br>To manage vehicle testing records and display device information.                                                      |
|              |  | History<br>The history feature tracks and saves vehicle testing records, allowing users to easily find and retest previous vehicles.   |

|          |                                                                                     |                                                                                                                                                                                                   |
|----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |    | <p>About</p> <p>Displays the device information including serial number, register password, firmware version and system software version.</p>                                                     |
| Settings |    | <p>Adjusts and views system settings, including the measurement unit for the diagnostic system, the display language for the device, log and sound settings.</p>                                  |
|          |    | <p>Language</p> <p>English, ,Hungarian, Polish, Portuguese, Russian, Italian, Traditional Chinese, Dutch, Simplified Chinese, Spanish, French, German, Turkish</p>                                |
|          |    | <p>Unit</p> <p>To provide two options for the unit of live data: Metric Unit and Imperial Unit.</p>                                                                                               |
|          |   | <p>Beep</p> <p>Sets the sound on or off.</p>                                                                                                                                                      |
|          |  | <p>Log</p> <p>Two options for Logging On and OFF with the slide button. [Logging ON] must be set if the client wants to record the live data, otherwise the client cannot send logging files.</p> |
|          |  | <p>Button Test</p> <p>To provide the key test options.</p>                                                                                                                                        |
|          |  | <p>LCD Test</p> <p>To provide the display test option.</p>                                                                                                                                        |

## Chapter 3 To Start a New Test

To start a new test, you need to establish the proper vehicle communication to the FX3x00 ELITE SERIES Scanner; you need to follow the screen instructions step by step for the car testing. The operations require connecting the FX3x00 ELITE SERIES Scanner main unit to the test vehicle through the main cable. (For details please refer to Chapter 2.1 Cable Connection for On-Board Diagnosis)

### 3.1 Vehicle Selection

When the main unit is properly connected to the vehicle, click the Diagnostics icon button on the FX3x00 ELITE SERIES Scanner.

The FX3x00 ELITE SERIES Scanner supports 2 methods for Vehicle Identification with the Automatic Selection, Manual Selection.

#### 3.1.1 Automatic selection

The FX3x00 ELITE SERIES Scanner features the latest VIN-based Auto VIN Scan function to identify vehicles in just one touch, which allows the technician to quickly detect vehicles, scan all the diagnose ECUs on every vehicle and run diagnostics on the selected system.

##### 3.1.1.1 To perform Auto VIN Scan

Select **[GM]** from **[AMERICAN]**. The vehicle menu displays.



Select **[Automatic Selection]** and the system will proceed to acquire VIN information automatically.

| GM  |                     |
|-----|---------------------|
| 1/3 |                     |
| [1] | Automatic Selection |
| [2] | Manual Selection    |
| [3] | GM(Brazil)          |
|     |                     |

### 3.1.1.2 VIN code input via virtual keyboard

| Information                                    |
|------------------------------------------------|
| Can not identify VIN code.                     |
| [1].Input VIN code ,press [Next step].         |
| [2].Choose [Manual Selection] ,press [Cancel]. |
| <div>Next step</div> <div>Cancel</div>         |

In case the FX3x00 ELITE SERIES Scanner provides an option for vehicle VIN scan allowing users to input the VIN manually.

Input VIN code

17 characters VIN code

Press "FN" button to show/hide the keyboard.

Input VIN code

|     |   |       |    |           |   |   |   |       |   |   |
|-----|---|-------|----|-----------|---|---|---|-------|---|---|
| !   | @ | #     | \$ | %         | ^ | & | * | (     | ) | _ |
| 0   | 1 | 2     | 3  | 4         | 5 | 6 | 7 | 8     | 9 | - |
| Q   | W | E     | R  | T         | Y | U | I | O     | P | + |
| A   | S | D     | F  | G         | H | J | K | L     | : | ; |
| Z   | X | C     | V  | B         | N | M | , | .     | / | ? |
| abc |   | Space |    | Backspace |   |   |   | Enter |   |   |

Press "FN" button to show/hide the keyboard.

### 3.2 Manual Selection

The FX3x00 ELITE SERIES Scanner also provides manual selection for some vehicles.

#### 3.2.1 To perform Manual Selection

Tap the **[Manual Selection]** button on the screen as below.

Select the year to be tested accordingly. Take 2020 GM as an example:

The vehicle will be identified in a few seconds, and once the matching is successful, the system will guide you the diagnostics screen directly.

| GM  |                     |
|-----|---------------------|
| 2/3 |                     |
| [1] | Automatic Selection |
| [2] | Manual Selection    |
| [3] | GM(Brazil)          |
|     |                     |

| Manual Selection |      |
|------------------|------|
| 1/25             |      |
| [1]              | 2020 |
| [2]              | 2019 |
| [3]              | 2018 |
| [4]              | 2017 |
| [5]              | 2016 |
| [6]              | 2015 |
| [7]              | 2014 |

Select **[Buick]** from the list as below:

| 2020 |           |
|------|-----------|
| 1/5  |           |
| [1]  | Buick     |
| [2]  | Cadillac  |
| [3]  | Chevrolet |
| [4]  | GMC       |
| [5]  | Holden    |
|      |           |

Select **[Enclave]** as below:

| Buick |          |
|-------|----------|
| 1/5   |          |
| [1]   | Enclave  |
| [2]   | Encore   |
| [3]   | Envision |
| [4]   | LaCrosse |
| [5]   | Regal    |
|       |          |

Select **[Engine Control Module]** from the list as below:

| Enclave |                                                    |
|---------|----------------------------------------------------|
| 1/8     |                                                    |
| [1]     | Engine Control Module                              |
| [2]     | Transmission Control Module                        |
| [3]     | Electronic Brake Control Module                    |
| [4]     | Parking Assist Control Module                      |
| [5]     | Inflatable Restraint Sensing and Diagnostic Module |
| [6]     | Active Safety Control Module                       |

## Chapter 4    Software Update

Providing two modes for update: USB and WIFI.

How to set WIFI for iPhone 11 or higher version?

Step 1: Settings Person Hotspot

Personal Hotspot on your iPhone can provide Internet access to other devices signed into your iCloud account without requiring you to enter the password.

Step 2: Allow Others to Join

Allow other users or devices not signed into iCloud to look for your shared network when you are in Personal Hotspot settings.

### Note:

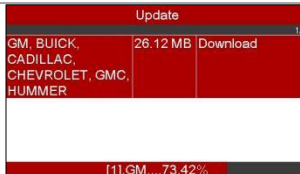
The device can only display Wi-Fi name consisting of English character.

### Step 3: Maximize Compatibility.

1- Choose the correct name from the Wi-Fi settings on your computer or other device.

2- Enter the password when promoted.

## 4.1 Update via WIFI

|                                                                                                                                           |                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Select [UPDATE], and press the [OK].</p>             |  <p>Select [Via WIFI], and press the [OK].</p>             |
|  <p>Searching WIFI .....</p>                            |  <p>WIFI hotspot nearby. Select the correct and join.</p> |
|  <p>Press [FN] to show keyboard and input password</p> |  <p>Connecting WIFI .....</p>                            |
|  <p>Select [GM], press [OK].</p>                       |  <p>Continue the operation step by step accordingly</p>  |

## 4.2 Update via USB

Providing the USB update procedures for software as below.



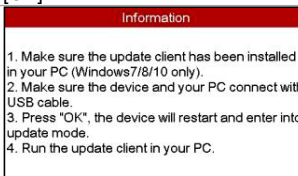
Connect the main unit to PC with the USB cable.



Select [UPDATE] and press [OK].



Select [Via USB], and press the [OK].



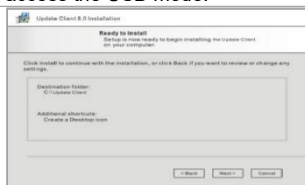
The system will provide some information.



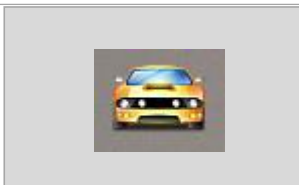
The device will reboot and access the USB mode.



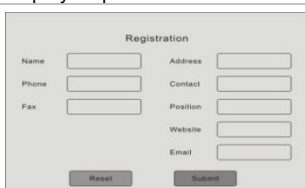
Login the website  
[www.anceltech.com](http://www.anceltech.com)



Install the Update Client on PC step by step.



Double click the icon of Update Client.



Input necessary details for the first registration.



Select the car makes to update the software.

## **Chapter 5 Troubleshooting**

### **Why can't the PC update client automatically identify the device serial number?**

Please connect the scanner to PC before running the PC update client, and put the scanner in the USB update mode, the screen displays "Files transfer via USB".

### **Why the vehicle linking error?**

Follow the steps if the scanner fails to communicate with the ECU.

- 1– Verify the ignition is ON.
- 2– Check cable or connector securely connected to the vehicle DLC.
- 3– Turn the ignition off and wait for about 10 seconds and turn the ignition back to ON and continue the testing.
- 4– Verify the control module is not defective.

### **Why the device doesn't power up?**

If the auto scanner won't power up or operate correctly in any other way, follow the steps to check the connections:

- 1– Check the connector properly inserted to the socket seat.
- 2– Check the DLC pins bent or broken.
- 3– Clean the DLC pins if necessary.

### **Why the devices have no permission to update?**

Please contact the local distributor to get authorization.

### **Why cannot find the WIFI name?**

The device can only display the Wi-Fi name consisting of English character or numbers.

### **When the display does not work properly:**

Make sure the machine has been registered online.

Make sure the system software and diagnostic application software are properly updated.

Check all cables, connections, and indicators to see if the signal is being received.

## **Services**

This section introduces information for technical support and repair.

If you have any questions/problems on the operation of the product, please contact ANCEL for help.

OBDSPACE TECHNOLOGY CO., LTD  
D03,Block A, No.973 Minzhi Ave. Longhua District,  
Shenzhen, Guangdong, China  
Email: support@anceltech.com  
Website: www.anceltech.com

If it becomes necessary to return your device for repair, please contact ANCEL local dealer for help.

The following information must be included:

- Contact name
- Return address
- Telephone number
- Product name
- Complete description of the problem
- Proof-of-purchase for warranty repairs

## **Warranty**

Thank you for choosing our products, we will provide you with the following services and promises.

After the warranty period expires, repairs will be charged for replacement parts.

After the failure, please contact the manufacturer, we will give you the most complete service in the shortest time.

### **12-Month Limited Warranty**

OBDSPACE TECHNOLOGY CO., LTD warrants to the original retail purchaser of this auto scanner, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within twelve (12) months period from the date of delivery, such defects will be repaired, or replaced (with new or rebuilt parts) with Proof of Purchase, at the Company's option, without charge for parts or labor directly related to the defects.

The Company shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the auto scanner. Some states do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you.

The following items are not covered by the warranty:

- 1) Product subject to abnormal use or conditions, accident, mishandling, neglect, unauthorized alternation, misuse, improper installation or repair or improper storage;
- 2) Products whose mechanical serial number or electronic serial number has been removed, altered or defected;
- 3) Damage from expose to excessive temperatures or extreme environmental conditions;
- 4) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by Company;
- 5) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;
- 6) Product damaged from external causes such as fire, dirt, sand, battery leakage, blown fuse, theft or improper usage of any electrical source.

All contents of the product may be deleted during the process of repair. You should create a back-up copy of any contents of your product before delivering the product for warranty service.

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Every effort has been made to make all descriptions in the book accurate, but inevitably there are still inaccuracies, if in doubt, please contact your local dealer of ANCEL after service center, we are not responsible for any consequences arising from misunderstanding.

## FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

\*RF warning for Mobile device:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.