

## Host Machine Maintenance and Use Cautions

- Do not allow unauthorized disassembly.
- Avoid strong impacts to the equipment.
- Avoid proximity to any magnetic field.
- Do not keep this machine in a high temperature environment for any length of time.
- Do not forcefully click on the screen or click the screen with sharp tools.
- Do not use water and chemical solvents to clean the machine, please use a soft clean cloth and neutral detergent instead.

## Automobile Inspection Notes

- Follow the standard safety rules of the auto repair industry to operate. Be especially careful to avoid impact or damage caused by environmental factors such as the surrounding pH, poison gas or high pressure environment.
- Vehicle battery fluid contains sulfuric acid, which is corrosive to the skin. During the operation, avoid direct contact with the battery fluid, in particular being careful not to splash into the eyes. Keep away from fire.
- The engine exhaust gas contains a variety of toxic compounds, which one should avoid breathing in. During the operation, park the vehicle in a well-ventilated place.
- When the engine is running, the temperature is very high; please avoid contact with the water tank, exhaust pipe and other high temperature components.
- Before starting the engine, apply the handbrake and place the shift lever in Gear Neutral (Manual Transmission) or P (Automatic Transmission) to avoid sudden movements of the vehicle when starting the engine.
- Before repairing the vehicle, apply the parking brake, engage the Neutral or P range, and lower the driver seat's glass doors.
- If the engine can be started, warm-up the vehicle to normal temperature (water temperature is about 80 °C), and turn off the auxiliary electrical appliances (such as air conditioning, lighting, sound, etc.).
- Find the diagnostic socket of this car; check and confirm the diagnostic socket cables are in good condition, connecting the main unit for diagnosis. Otherwise, do not test, to avoid damage to the main unit. If necessary, use a multimeter to measure the voltage of the diagnostic socket.

# CONTENTS

<b>1</b>	<b>PRODUCT INTRODUCTION</b>	<b>4</b>
1.1	INTRODUCTION .....	4
1.2	HOST STRUCTURE .....	4
1.3	VCI BOX STRUCTURE .....	5
<b>2</b>	<b>HOST ON/OFF AND FUNCTION MENU</b>	<b>6</b>
2.1	HOST CHARGING .....	6
2.2	POWER ON .....	6
2.3	POWER OFF .....	7
2.4	INTRODUCTION TO EACH MENU OPTION .....	7
<b>3</b>	<b>PREPARATION BEFORE DIAGNOSTIC</b>	<b>9</b>
3.1	PRE-DIAGNOSTIC TECHNICAL REQUIREMENTS .....	9
3.1.1	VEHICLE REQUIREMENTS .....	9
3.1.2	MAINTENANCE TECHNICIAN REQUIREMENTS .....	10
3.2	VEHICLE CONNECTION .....	10
3.2.1	CONNECT VCI BOX TO VEHICLE .....	10
3.2.2	HOST AND VCI BOX CONNECTION .....	12
<b>4</b>	<b>DIAGNOSIS</b>	<b>13</b>
4.1	MODEL SELECTION .....	15
4.1.1	MANUAL SELECTION .....	15
4.1.2	GENERAL OBD ACCESS MODE .....	15
4.2	DIAGNOSIS AND OTHER HIGH-LEVEL FUNCTION .....	15
4.2.1	ECU INFORMATION .....	17
4.2.2	READ FAULT CODE .....	18
4.2.3	ERASE FAULT CODE .....	18
4.2.4	READ LIVE DATA .....	20
4.2.5	ACTUATION TEST .....	23
4.2.6	SPECAIL FUNTION .....	24
4.2.7	CALIBRATION .....	25
<b>5</b>	<b>REMOTE DIAGNOSIS</b>	<b>25</b>
<b>6</b>	<b>REFERENCE</b>	<b>25</b>
<b>7</b>	<b>DATA MANAGEMENT</b>	<b>26</b>
<b>8</b>	<b>UPDATE</b>	<b>26</b>
<b>9</b>	<b>SETTINGS</b>	<b>27</b>
9.1	LANGUAGE .....	27

<b>9.2</b>	<b>UNIT</b>	<b>28</b>
<b>9.3</b>	<b>USER INFO</b>	<b>28</b>
<b>9.4</b>	<b>SELF TEST</b>	<b>28</b>
<b>9.5</b>	<b>ACTIVATION</b>	<b>29</b>
<b>9.6</b>	<b>PUSH</b>	<b>29</b>
<b>9.7</b>	<b>DATA CLEANING</b>	<b>30</b>
<b>9.8</b>	<b>ABOUT US</b>	<b>30</b>
<b>9.9</b>	<b>SYSTEM SETTINGS</b>	<b>31</b>

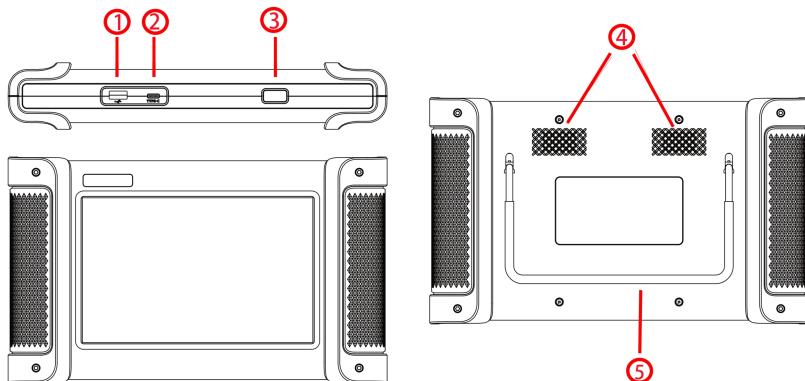
# 1 PRODUCT INTRODUCTION

## 1.1 INTRODUCTION

The product is an integrated automotive computer fault diagnostic instrument aimed at the testing and diagnosis of Heavy-duty diesel and passenger vehicles.

The product software is comprehensively configured, and vehicle data and information in it are authoritative and fully meet the strict requirements of customers' detection breadth and depth.

## 1.2 HOST STRUCTURE



Serial number	Name	Description
①	USB Port	Connect host to the VCI or connect to the USB flash drive.
②	USB Type C	Charge or transmit data
③	Power switch	Used to switch on or off host, or lock screen
④	External speaker port	For external sound playback
⑤	Holder	Hold the host

## Host parameter

Name	Specifications
CPU	Allwinner A133P
System	Android 11
Memory	2GB RAM &128GB ROM
Screen	1280*800, Capacitive Touch Screen
Wi-Fi	2.4Ghz & 5Ghz & WIFI6
Bluetooth	BT4.2
Battery	3.7V, 6000mAh
Size	310*170*50mm
Work temperature	-10~50°C
Storage temperature	-20~60°C

## 1.3 VCI BOX STRUCTURE

The diagnostic instrument is connected to the vehicle through VCI box. The VCI box model is FV300.



Serial No.	Name	Description
①	USB Type-C	Connect with tablet host or upgrade FV300
②	Power indicator	Light on when the power supplied
③	Diagnostic indicator	Light flashes when communicating with the vehicle

④	DC Power Port	Charge by DC power supply
⑤	OBD Diagnostic Port	Connect the vehicle

## Main Parameter

Processor	Arm Cortex-M33
Frequency	180MHz
Bluetooth	BT4.2
Wi-Fi	2.4Ghz

## 2 HOST ON/OFF AND FUNCTION MENU

### 2.1 HOST CHARGING

Host can be charged in following ways:

- USB Type C
- built-in battery pack

Plug one end of the AC/DC power adapter to the USB Type C port of the host and then connect the other end to the wall socket. The power adapter can be used to charge the built-in battery pack.

**Note:** Voltage of the power supply should be within the scope of the product host. Exceeding the range may cause damage to the product.

### 2.2 POWER ON



Press and hold the host power switch (about 3 seconds) to power on host, and

then the system starts to run.

**Tip:** It is recommended to lock the screen whenever you are not using the device to protect your system information and save battery power. Slightly click the power/lock screen button once, the screen will be automatically locked. Excessive force or long press may cause the button to malfunction or enter the shutdown interface.

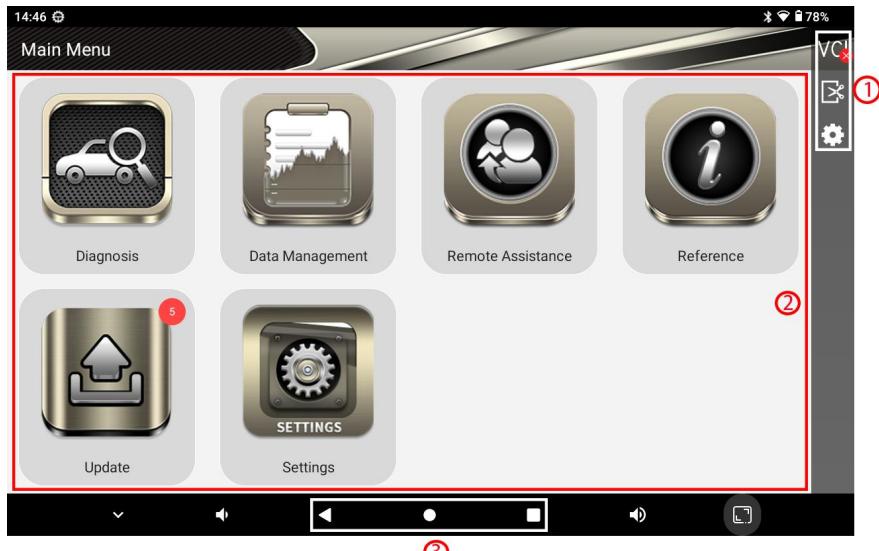
## 2.3 POWER OFF

All vehicle communication must be terminated before shutting down the diagnostic equipment. Vehicle's electronic control module would go wrong if forced shutdown during communication, please exit all diagnostic applications before shutting down. The shutdown steps are as follows:

- 1) Short press host power switch (about 2 seconds)
- 2) Click [Power off] in the pop-up prompt to close host.

## 2.4 INTRODUCTION TO EACH MENU OPTION

After the system is powered on, enter the following function main menu.



- 1) Toolbar (see Table 1 below)
- 2) Main menu (see Table 2 below)

## 3) Guide bar (see Table 3 below)

**Table 1: Toolbar**

Icon	Function name	Function description
	VCI Connection	VCI box connection and status display (always available throughout diagnostic operation)
	Screenshot	One click to capture the current visual screen (always available throughout the diagnostic operation)
	Settings	Set up and view system information

**Table 2: Main Menu**

Icon	Function name	Function description
	Diagnosis	The vehicle diagnosis
	Data Management	Browse and manage data files stored
	Remote Assistance	Run this program to establish remote assistance with Ancel after-sales technical team
	Update	Online upgrade of system software, model software, etc
	Reference	Built in machine instructions, online materials, online videos and other maintenance materials for users to consult and learn.
	Settings	Set up and view system information

**Table 3: Guide bar**

Icon	Function name	Function description
	Back	Return to last interface
	Homepage	Return to the main interface of the Android system

	Recently Used Program	Display the list of recently-used program thumbnails list, click on the program thumbnail to open the program, and swipe up the program thumbnail to close the program
---	-----------------------	--

### 3 PREPARATION BEFORE DIAGNOSTIC

Through having established data connection with the vehicle's electronic control system that has been connected to the VCI device, the diagnostic program can read vehicle diagnostic information, check the data stream, and perform actuation test and other functions.

- To establish good communication between the diagnostic program and the vehicle, you need to do as below:
  - 1) Connect the VCI box to the vehicle diagnostics socket and supply the power;
  - 2) Establish communication between VCI and host via Bluetooth pairing or USB data cable;
  - 3) Check VCI connection status in the upper right corner of the host screen (see 3.2.2). The vehicle diagnosis can be performed after the connection.
- How to execute Vehicle diagnosis
  - 1) Establish a good communication between the diagnostic program and the vehicle under test;
  - 2) Select vehicle type;
  - 3) Perform vehicle diagnosis by “Auto Scan” all systems of the vehicle or manually selecting and detecting a designated control unit.

Here we make the detailed instructions.

#### 3.1 PRE-DIAGNOSTIC TECHNICAL REQUIREMENTS

##### 3.1.1 VEHICLE REQUIREMENTS

- Turn ignition switch to gear ON;
- Vehicle battery voltage should be between 11~14V or 24~27V (subject to the vehicle's power supply)
- Accelerator pedal is in OFF state, that is, the idle coupling point;
- Ignition timing and idle speed value should be within the standard range, and the water temperature and transmission oil temperature are in the normal working temperature (water temperature 90~110°C, transmission oil

temperature 50~80°C);

- Then, the diagnostic cable is connected properly.

### 3.1.2 MAINTENANCE TECHNICIAN REQUIREMENTS

- Must have a basic knowledge of automotive electronics;
- Understand the basic operation methods of this product and familiarize with this manual;
- Basically distinguish whether it is a mechanical fault or an electronic control fault from the vehicle fault phenomenon tested;
- Learn about the vehicle's origin, year of production, model, engine model and more.



## 3.2 VEHICLE CONNECTION

### 3.2.1 CONNECT VCI BOX TO VEHICLE

Before VCI box connected to vehicle, it is necessary to judge whether the diagnostic socket of the test vehicle is a standard OBD-II port or a non-standard OBD-II port.

- For Vehicles compatible with the OBD-II management system, The VCI can be connected to vehicle diagnostics socket and supplied with power only with the integrated standard OBD-II connector;
- For Vehicles that are not compatible with the OBD-II management system, you need to select the corresponding connector; some other vehicles need to supply power to the VCI box through other power sources of the vehicle.

Here we make the operating instruction regards to these two connection modes.

- **Standard OBD-II port connection**

For vehicles with standard OBD-II port, you just need to connect with all-in-one main test cable OBD connector rather than other connectors, as shown in Figure 3.2-1:

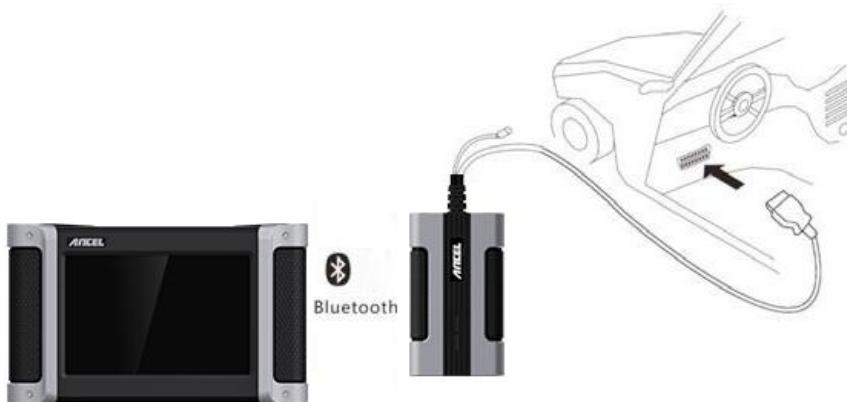


Figure 3.2-1 Connection of standard-OBD-II port

#### Instructions:

- 1) Determine the location and the port of the diagnostic socket;
- 2) Connect the integrated OBD-II port of the VCI to the vehicle diagnostic socket;
- 3) At this time, the VCI box is powered by the vehicle diagnostic socket, and the power indicator light is on.

**Note:** After test is completed, please rotate the fixing bolts and then gently unplug the main test cable to avoid damage to the diagnostic port.

#### ➤ NON-OBD-II PORT CONNECTION

For vehicles connected to non-OBD-II port, you need to connect the main test cable to their corresponding dedicated connectors, as shown in Figure 3.2-2:

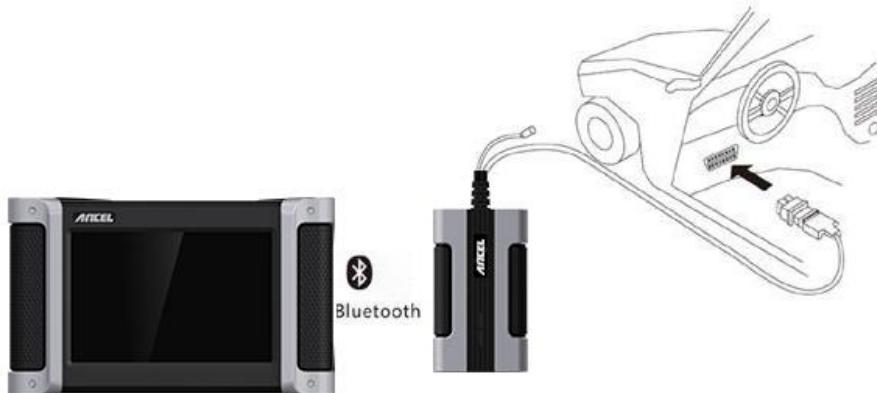


Figure 3.2-2 Connection of non-OBD-II port

#### Instructions:

- 1) Determine the diagnostic socket location and port, and whether need the external power source;
- 2) Connect the main test cable of the VCI to a dedicated adaptor corresponding to the vehicle;
- 3) Connect the dedicated connector that is connected to the main test cable to the vehicle diagnostic socket;
- 4) At this time, VCI box is powered by the vehicle diagnostic socket, and then power indicator light is on (if it is not lit, it may be because the vehicle diagnostic socket is not energized, you can energize the VCI box by the cigarette lighter or the battery clip).

### 3.2.2 HOST AND VCI BOX CONNECTION

After VCI box is connected to the vehicle, the connection between the host and the VCI box needs to be matched, and then vehicle diagnosis can be started after matching is completed; the VCI box supports two ways of communicating with the host: Bluetooth pairing and USB cable.

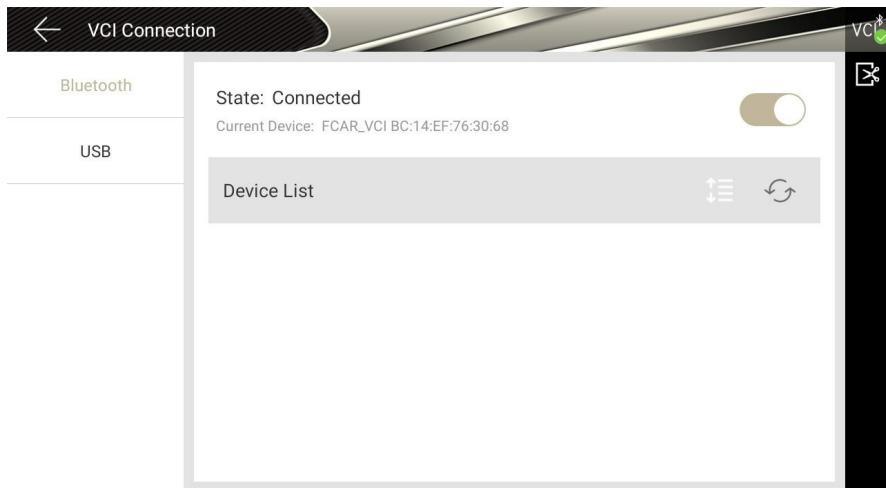
- **Paired through Bluetooth**

- 1) Turn on the host power supply and enter the diagnostic system;
- 2) Click the VCI icon “” in the upper right corner of the screen and then select [Bluetooth] in the connection mode;
- 3) Click the Scan icon “” on the right side of the device to automatically scan

Bluetooth devices nearby.

4) Select target Bluetooth to match;

5) When matching is completed, state of VCI icon in the upper right corner of the screen changes from "  " to "  ", indicating that the Bluetooth pairing is successful and the vehicle diagnosis can be started.



**Note:** If the signal strength of the transmitter is too weak, Bluetooth device can't be searched. In this case, please move it as close as possible to the VCI Bluetooth device.

- Paired through USB cable connection

USB connection is the fastest communication method between the host and the VCI device. Please use dedicated USB cable configured by our factory to connect. After the connection is completed, state of VCI icon in the upper right corner of the screen changes from "  " to "  ", indicating that the USB connection is successful, and then the vehicle diagnosis can be started.

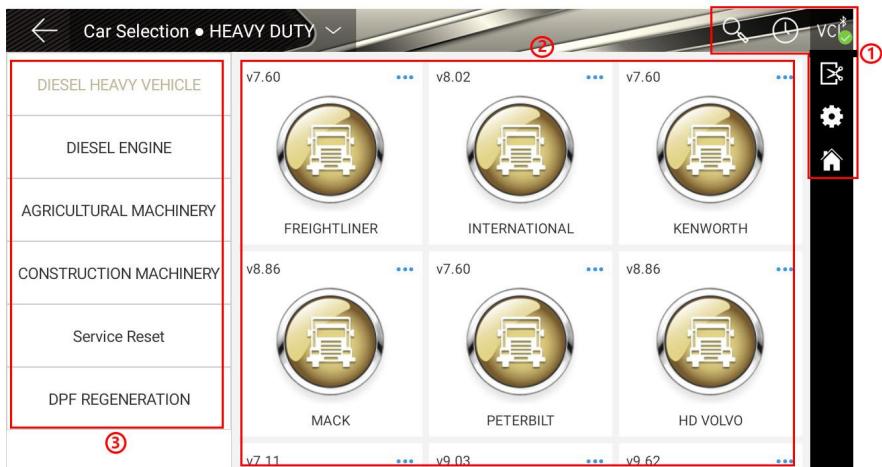
**Note:** These two connection methods can't be used at the same time!

## 4 DIAGNOSIS

Vehicle diagnosis is classified according to the purpose and electrical control system. The model selection is menu guided mode. The maintenance technician can make a series of choices according to the actual configuration of the vehicle to

be tested and the screen prompts until the vehicle to be tested is accurately identified. The specific choices will vary according to the different models to be tested.

Click **[Diagnosis]** on Main Menu to enter the heavy duty vehicle diagnosis by default.

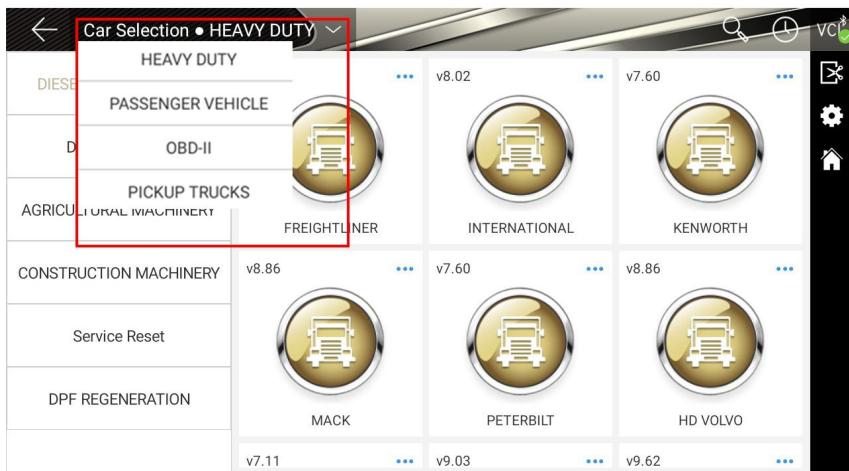


- ① Toolbar (see Table 1 below)
- ② Regards to model manufacturer and related detection functions, click on “...” in upper right corner of the model to view function list and other related information of the vehicle type.
- ③ Model and related function selection menu

**Table 1 :**

Icon	Name	Function description
	Search	One-click search for major brand vehicle types
	History record	View maintenance history, quick access to diagnostics, view diagnostic List, model version information, and more
	VIN code	Identify the vehicle types by manually or automatically scanning the VIN code
	Homepage	Return to Main Menu

**Note:** You can click the **[Car Selection]** to select other model.



## 4.1 MODEL SELECTION

The diagnostic program needs to select the vehicle model before entering the system module diagnostic function. The vehicle can be identified in the following ways:

- 1) Manual selection
- 2) Access via OBDII

### 4.1.1 MANUAL SELECTION

This way is the menu guidance mode. You only need to make a series of choices according to the screen prompts. The specific options will vary according to the measured vehicle types. You can also quickly find the model brand through the search function of the toolbar, and then select it according to the screen prompt.

### 4.1.2 GENERAL OBD ACCESS MODE

In some cases, because the database does not support or the vehicle has other functional characteristics, the diagnostic instrument cannot identify the vehicle and establish communication through normal channels. At this time, the general OBD II test can be carried out through OBD direct access function.

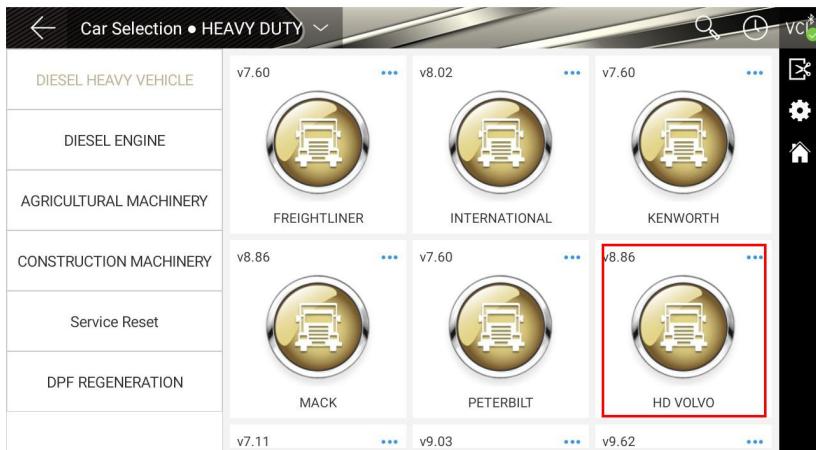
## 4.2 DIAGNOSIS AND OTHER HIGH-LEVEL FUNCTION

Vehicle diagnosis can be carried out after vehicle type selection.

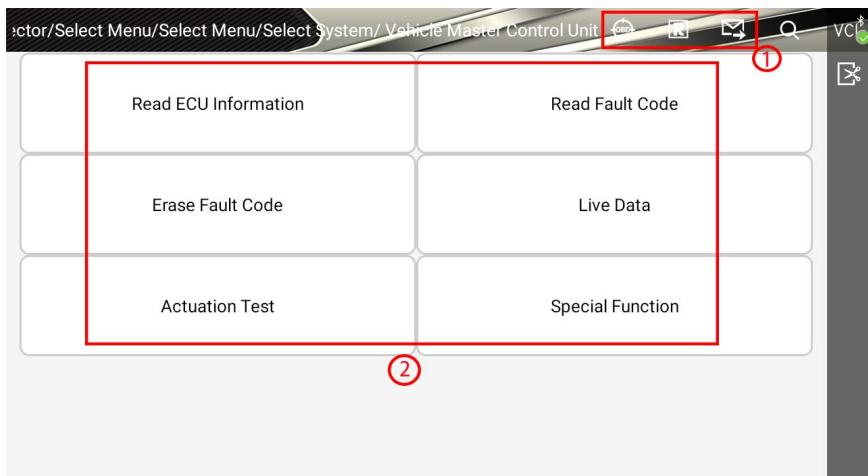
Here we take Volvo as a sample to give the detailed steps. Different vehicles

models have some differences, please operate according to the screen prompts.

**1) Select the [ DIESEL HEAVY VEHICLE / HD VOLVO];**



**2) Select a connector, click [Start Test], and select a control unit, then enter the diagnosis interface.**



**① Toolbar and status bar (see Table 1 for details)**  
**② Main interface of diagnosis function**

**Table 1:**

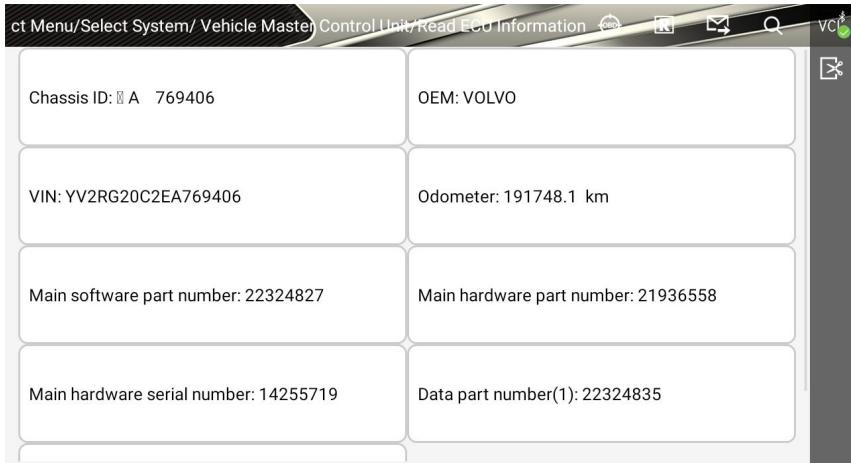
Icon	Function description
	OBD position reference
	Create a test report. You can view, print and send test reports in "Data management"
	One click feedback to feed back the problems in the process of vehicle diagnosis to the after-sales technical team

Diagnosis main interface usually includes the following options:

- **ECU information:** read and display the control system module information detected from ECU.
- **Read fault code:** read and display the fault code information retrieved from the vehicle system module.
- **Clear fault code:** clear the fault code and freeze frame data retrieved from the vehicle system module.
- **Read data stream:** read and display the real-time operation parameters of the current system module.
- **Action test:** test the actuator of each system of the vehicle, and the test options will vary depending on the manufacturer and model.
- **Special functions:** perform component adaptation or variable coding functions, conduct user-defined configuration operations, and adapt some components after maintenance or replacement. The selected models have different special functions, and the displayed function names are slightly different.
- **Calibration function:** in order to facilitate maintenance and change of engine power, ECU opens the calibration function and fine adjustment function.

#### 4.2.1 ECU INFORMATION

Read and display the ECU version information (hardware and software) retrieved from the tested vehicle.

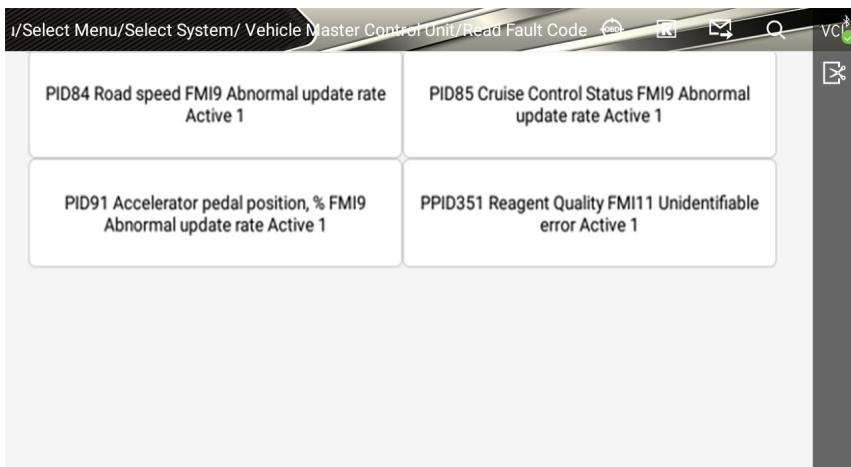


ct Menu/Select System/ Vehicle Master Control Unit/Read ECU Information

Chassis ID: 0 A 769406	OEM: VOLVO
VIN: YV2RG20C2EA769406	Odometer: 191748.1 km
Main software part number: 22324827	Main hardware part number: 21936558
Main hardware serial number: 14255719	Data part number(1): 22324835

#### 4.2.2 READ FAULT CODE

Read and display the fault code retrieved from the system module of the tested vehicle and explain the fault content.



i/Select Menu/Select System/ Vehicle Master Control Unit/Read Fault Code

PID84 Road speed FMI9 Abnormal update rate Active 1	PID85 Cruise Control Status FMI9 Abnormal update rate Active 1
PID91 Accelerator pedal position, % FMI9 Abnormal update rate Active 1	PPID351 Reagent Quality FMI11 Unidentifiable error Active 1

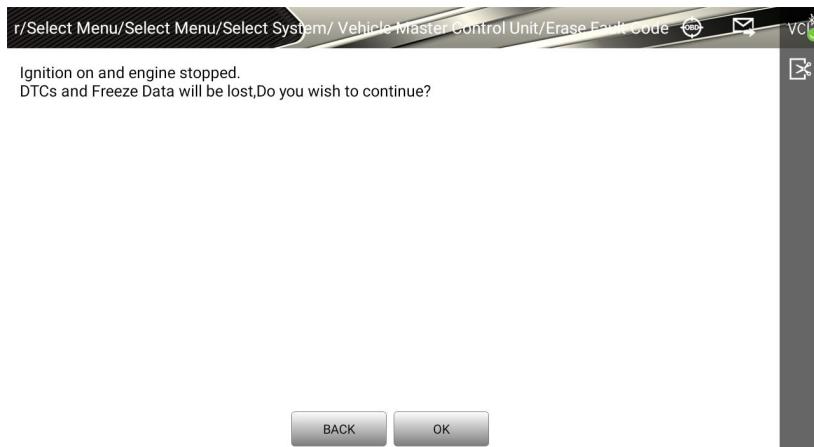
#### 4.2.3 ERASE FAULT CODE

Before clearing the fault code, please record and save the read fault code for later viewing and comparison.

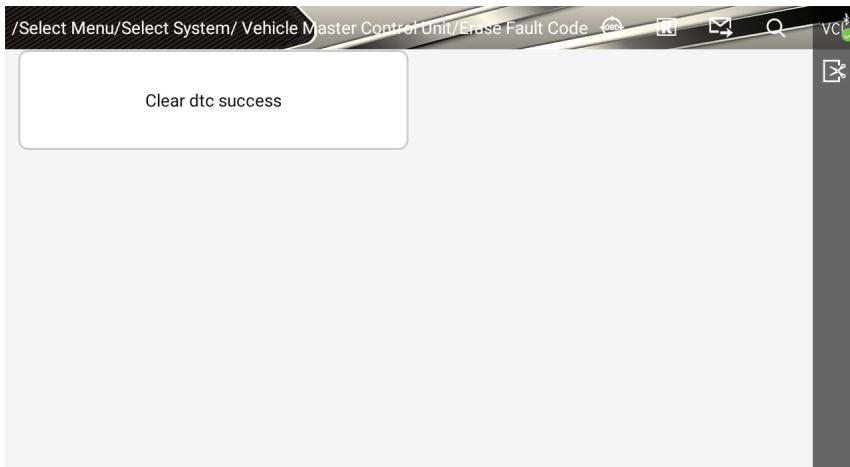
- **How to erase fault code**

- 1) Select [Erase Fault Code] on the diagnosis interface;
- 2) The prompt information shown in the figure below will pop up. Click [OK] to erase fault codes.

**Note:** This step requires you to strictly operate the vehicle in accordance with the menu prompts.



- 3) When another prompt message pops up, select [Return] key and re-execute the read fault code function to verify whether the fault code has been cleared.



#### ➤ **Fault code analysis steps**

- 1) Read and record all fault codes;
- 2) Erase all fault codes;

- 3) Simulate the conditions generated by the fault and start a road test;
- 4) Then read and record the fault code at this time;
- 5) Distinguish between incidental fault codes (independent fault codes or historical fault codes) and persistent fault codes (current fault codes or associated fault codes);
- 6) Distinguish between the major fault code and the minor fault code associated with the fault symptom;
- 7) Distinguish the major fault codes in many fault codes or related fault codes (it may be the cause of other fault codes);
- 8) According to the above analysis, you can further detect the sensor represented by fault code, related circuit state of the actuator or control computer, as well as accurate position of the fault occurred.

#### 4.2.4 READ LIVE DATA

Select this function, the real-time operating parameters of the selected system module will be displayed on the screen, and the data parameters displayed by different models or different control modules will be different.

ID	Name	Current values
1	Chassis ID	A 768270VOLVO
2	Electrical Steering Column Lock Function	0
3	Hazard Lights at Burglar Alarm, Function	0
4	Hazard Lights at Collision	0
5	Dipped Beam Stay-on, Function	0
6	Direction indicator warning algorithm speed limit.	0 km/h
7	Direction indicator warning algorithm, timeout configuration.	0.0 min
8	Hazard lights flash frequency during burglar alarm	0.00 Hz
9	Hazard lights flash frequency during lock indication.	0.00 Hz
10	Hazard lights flash frequency during unlock indication	0.00 Hz

- 1) Toolbar, see Table 1
- 2) Live data display area
- 3) Data flow waveform diagram
- 4) Data flow comparison
- 5) Save the current data stream (for subsequent data stream comparison)

**Table 1:**

Icon	Function description
	Save and export the vehicle data stream information as a PDF document
	Create test report, you can view, print, send test report and other operations in [Data Management]
	The recorded data stream can be viewed in [Data Review] in [Data Management]
	The current data stream can be saved as an excel document and can be viewed in the [Data Set] in [Data Management]
	Select menu
	One-click feedback of problems encountered in the vehicle diagnosis process to the after-sales technical team

### ➤ **Data flow waveform**

In the data stream display interface, select [Graphic] to view the real-time operating parameters of the unit in the data stream waveform graph mode, select [List] to return to the numerical display state.



### **Data stream recording and comparison function**

The system supports the recording and saving of data streams, and can be viewed

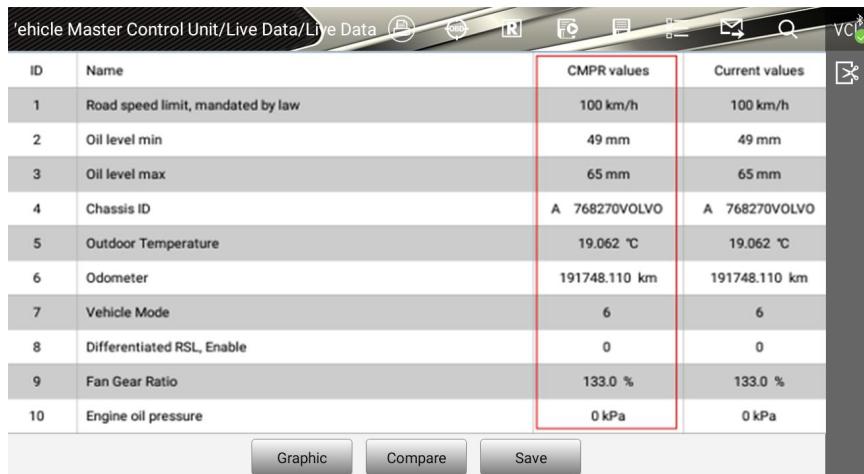
unlimited times in **[Data Management]** / **[Data Review]**; it also supports the comparison function of data streams. When the vehicle is in good condition, collect and save the data stream, so that the next time you test or encounter a vehicle of the same model, you can provide data reference through the data stream comparison function.

#### ➤ **How to record data stream**

- 1) Click the function icon  in the upper right corner, check the parameter items that need to be recorded in the pop-up window, and select **[OK]** to return;
- 2) Select the function icon , enter the saved file name in the pop-up window (the file name is preferably named with the vehicle information for easy reference), and select **[OK]** to return;
- 3) The system starts recording, and click the  button in the lower left corner to stop recording and automatically save the data stream
- 4) After the data stream is recorded, the system automatically saves it (**Note**: the data stream can be recorded for up to 2 minutes), and you can select **[Data Review]** in the **[Data Management]** to view the saved data stream.

#### ➤ **How to compare data streams**

- 1) Click the function icon  in the upper right corner, check the parameter items that need to be compared in the pop-up window, and select **[OK]** to return;
- 2) Click **[Compare]**, select a saved data file of the same vehicle type in the pop-up dialog box, and then press **[OK]** to return;
- 3) At this time, there is an additional column "Comparison Value" in the data stream interface. The maintenance technician can quickly find and eliminate vehicle faults through the comparison of system parameters.



ID	Name	CMPR values	Current values
1	Road speed limit, mandated by law	100 km/h	100 km/h
2	Oil level min	49 mm	49 mm
3	Oil level max	65 mm	65 mm
4	Chassis ID	A 768270VOLVO	A 768270VOLVO
5	Outdoor Temperature	19.062 °C	19.062 °C
6	Odometer	191748.110 km	191748.110 km
7	Vehicle Mode	6	6
8	Differentiated RSL, Enable	0	0
9	Fan Gear Ratio	133.0 %	133.0 %
10	Engine oil pressure	0 kPa	0 kPa

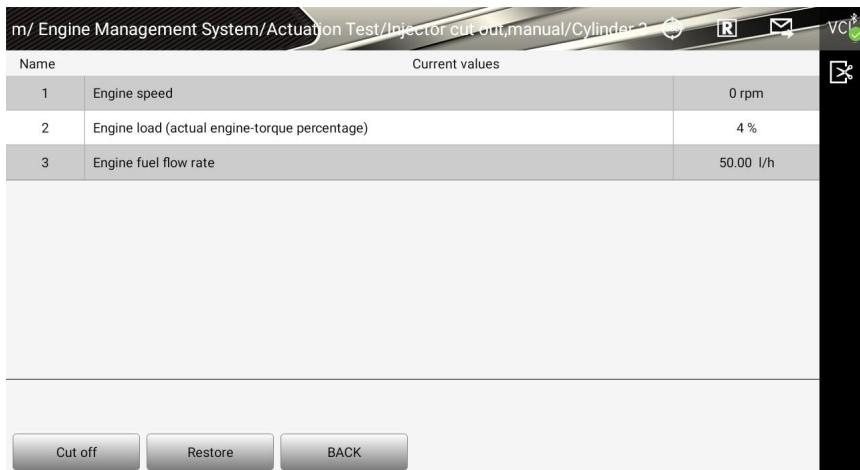
Buttons at the bottom: Graphic, Compare, Save.

#### 4.2.5 ACTUATION TEST

By executing this function, you can access the specific subsystems of the vehicle and perform component tests. When the action test is performed, the diagnostic instrument inputs instructions to the ECU to drive the actuators, and judges whether the actuators of the vehicle's electronic control system and their circuits are normal. Different control systems of different models have different executable test options, please refer to the screen display.

- How to perform an action test

- 1) Select [Actuation Test] in the diagnosis interface;
- 2) Select a test item;
- 3) Operate strictly in according to the prompt on the screen;
- 4) Click Back button to exit the test.



**Note:** Depending on the selected test item, the control buttons will be different, such as "Start", "On" and so on.

#### 4.2.6 SPECAIL FUNTION

The special function can perform adaptive operation of each component, which is mainly used to re-calibrate or configure the components after repairing or replacing the components, so that the components of the electronic control system can adapt to each other, otherwise the system will not operate normally.

The main interface of the adaptive operation is in the menu guided mode. Please read the on-screen prompts carefully and operate according to the prompts. The specific selection procedure will vary depending on the model being tested.

The following are the general steps of the adaptive operation:

- 1) Select the model and related configuration;
- 2) Wait for the program to establish normal communication with the vehicle ECU, select the functional operations that need to be performed, and some functional operations need to meet specific conditions before they can be performed;
- 3) Carefully read the information on the screen and check the corresponding vehicle status, strictly follow the menu prompts;
- 4) After the adaptive operation is completed, the screen will display prompt messages such as "Operation success" and "Matching completed".

#### 4.2.7 CALIBRATION

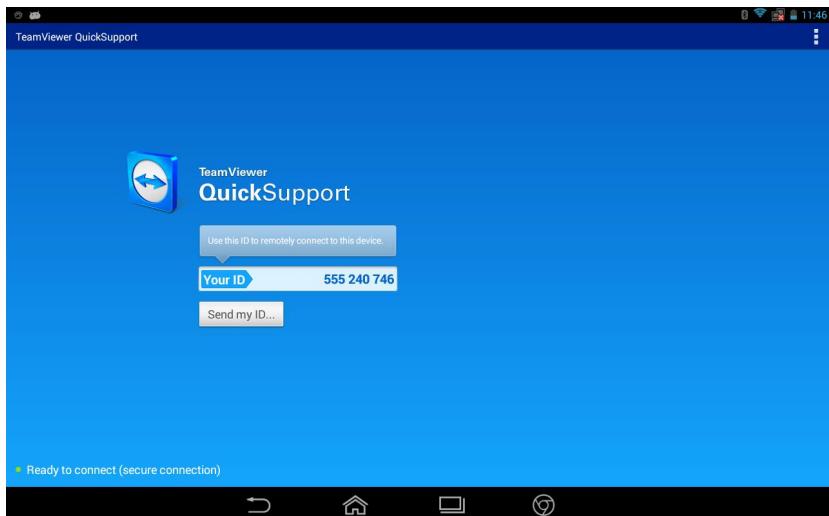
The diagnosis system supports the calibration function for some model vehicles. The operation method is similar to that of the Special Function.

### 5 REMOTE DIAGNOSIS

This function allows you to receive remote service and support from Ancel's after-sales technicians to assist you with vehicle diagnosis.

- How to receive technical support from Ancel
- 1) Select **[Remote]** from Main Menu to enter Team Viewer interface, and then the system automatically generates and displays the device ID.
- 2) Send your device ID number to Ancel after-sales team and wait for them to send the remote control request to you;
- 3) After receiving the request, you can select **[YES]** to accept, or **[NO]** to reject in the pop-up window.

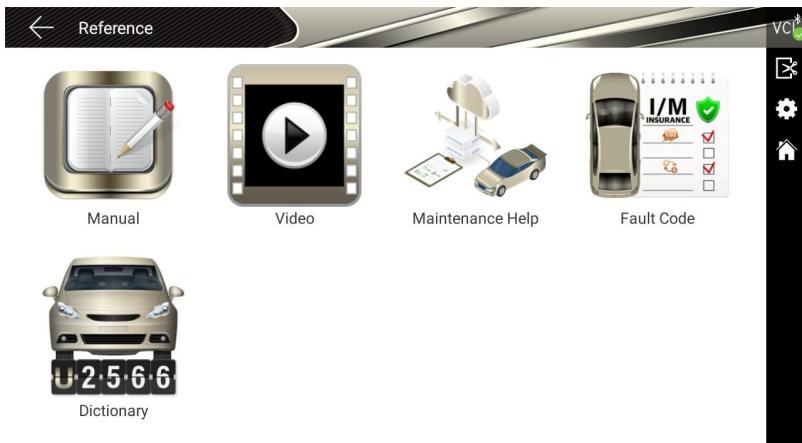
**Note:** Make sure the device is connected to the Internet before receiving remote assistance.



### 6 REFERENCE

Built in machine instructions, online materials, online videos and other

maintenance materials for users to consult and learn.



## 7 DATA MANAGEMENT

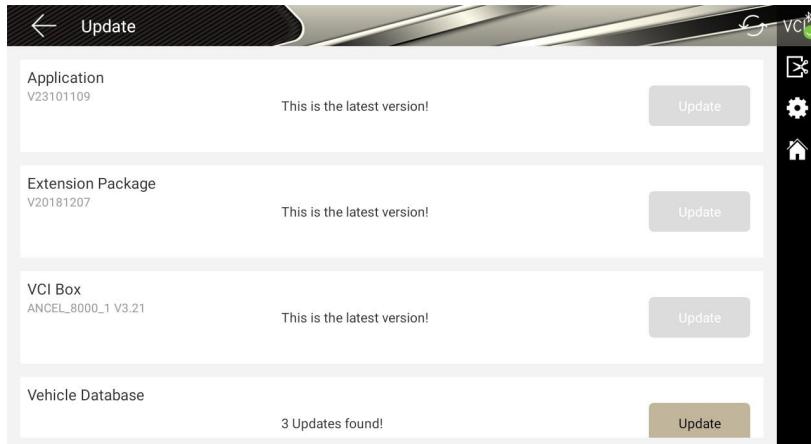
""Data Management" application is used to save, view, or print saved files. Most of the files are generated by the toolbar operation of the vehicle diagnostics interface.



## 8 UPDATE

Connect the device to the Internet to upgrade the diagnostic software and vehicle types to improve product functionality in a timely manner. Enter [Update] in main

menu page, then the system will automatically search for the latest update program, as shown below, click **[Update]** to update vehicle types and other applications to the latest version.

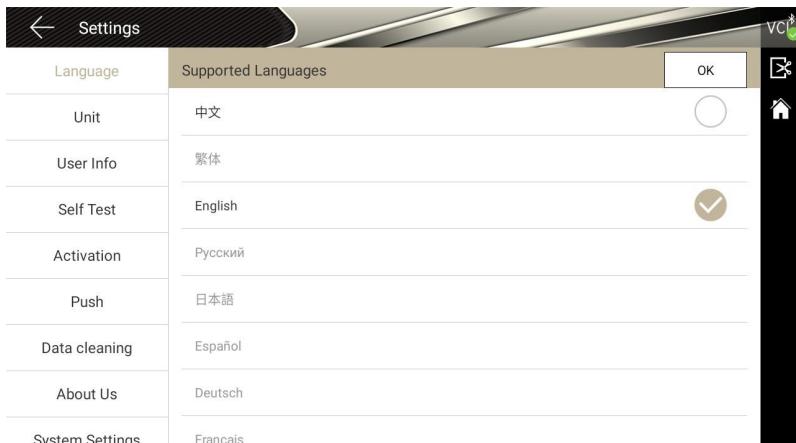


## 9 SETTINGS

Select **[Setting]** on the main menu, you can adjust following system settings:

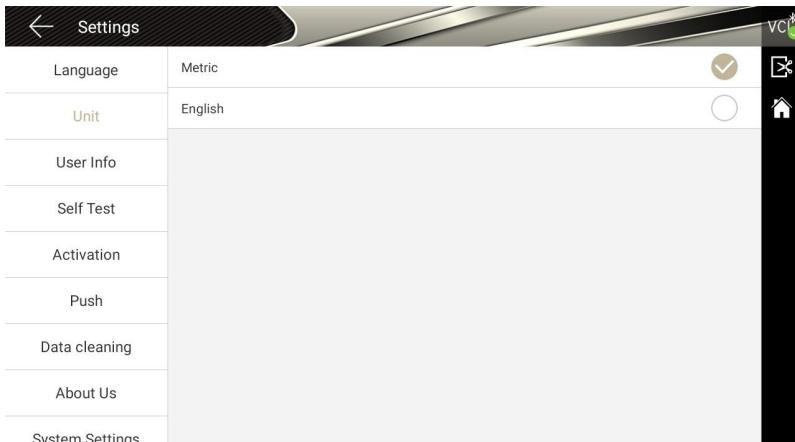
### 9.1 LANGUAGE

The diagnostic system supports multiple languages setting, please set according to the language supported by the model you purchased.



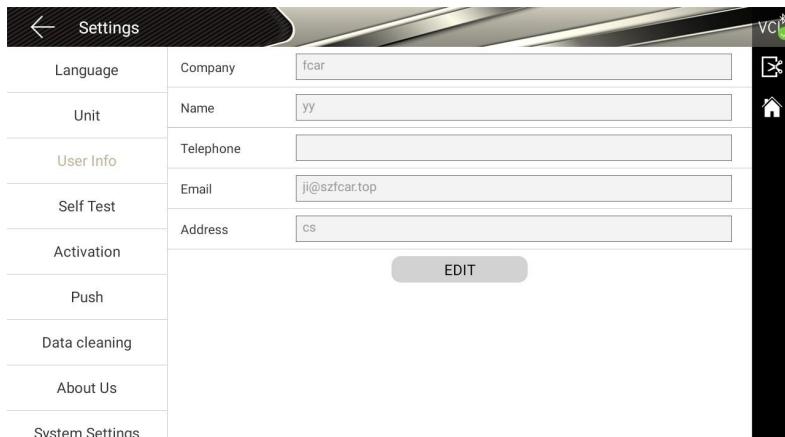
## 9.2 UNIT

This option allows you to set the live data unit in the diagnostic software, please select Metric or British as needed.



## 9.3 USER INFO

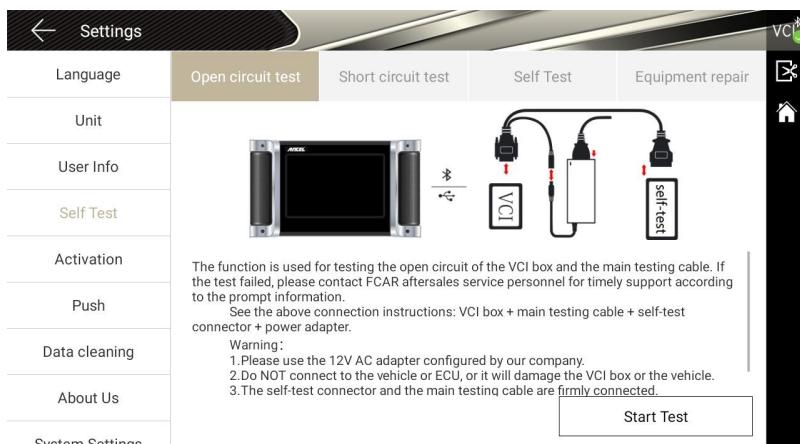
Set your personal information: Name, Telephone, Email, etc.



## 9.4 SELF TEST

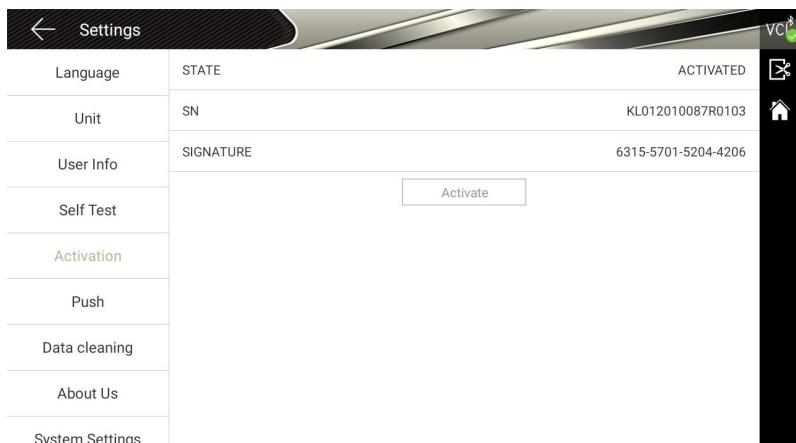
Connect the device according to the screen icon, and click [Start Test] to check

the open circuit and short circuit of the main test cable and OBD-II connector to judge whether it is good or bad.



## 9.5 ACTIVATION

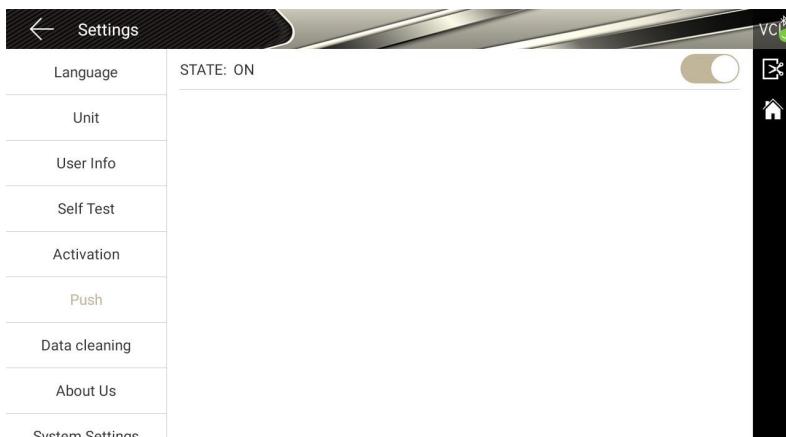
The product is shipped with a time-limited usage restriction. When you power on the machine, it will prompt: "You are using the trial version, there are \*\* chances left to use", connect Internet and click **[Activation]** to activate the machine.



## 9.6 PUSH

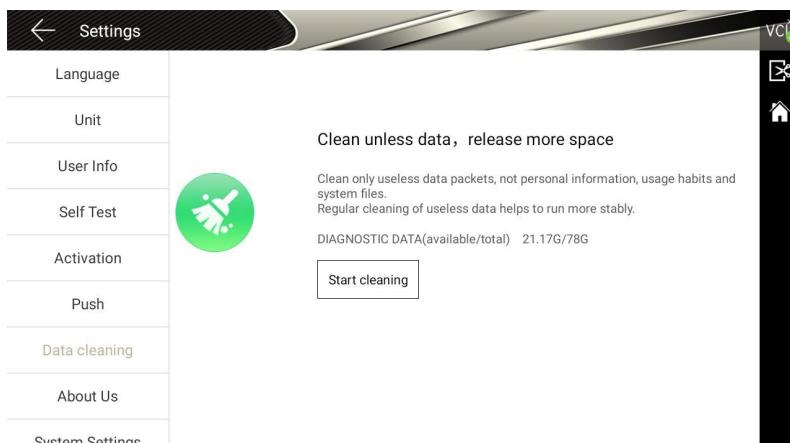
Through the "Push" function, the host can receive regular online messages from the server, such as system update notifications or other service message

notifications. It is recommended that you always turn on this function so that you can receive the latest update service in time.



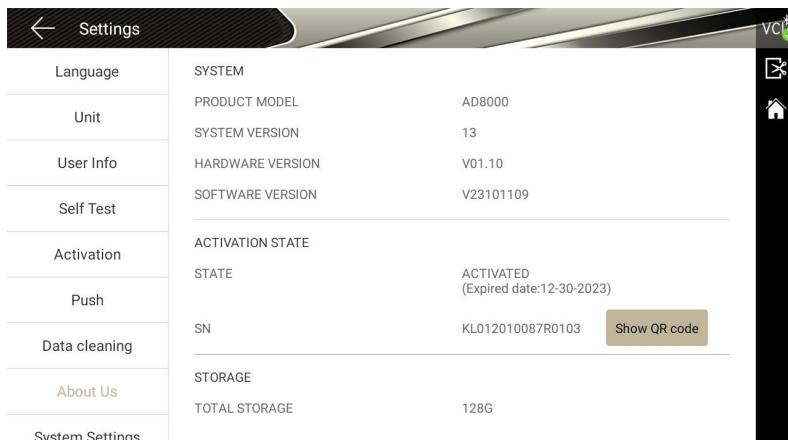
## 9.7 DATA CLEANING

This function is used to clean the useless data packets, and release more storage space.



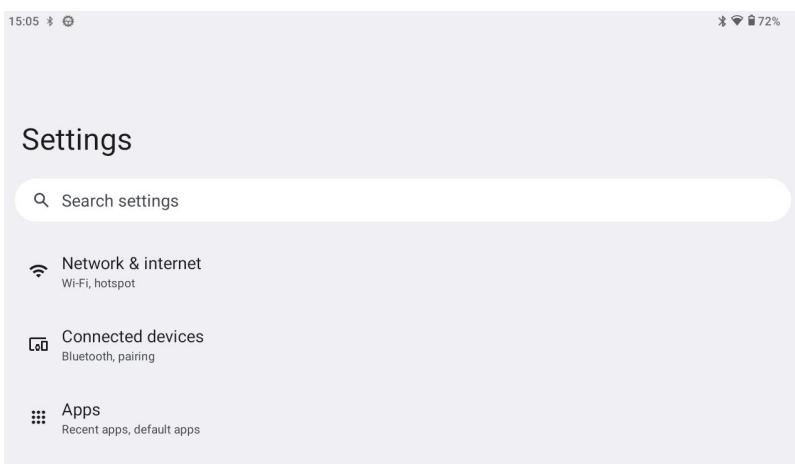
## 9.8 ABOUT US

This interface shows system information, activation state, storage, etc.



## 9.9 SYSTEM SETTINGS

You can set the Android system basic information.



## Certification

**This product has been strictly inspected as qualified products and met the company standards.**

Product name	Automotive Diagnostic System
Product serial number	
Date of production	
Inspector	



## Warranty card

Product name	Automotive Diagnostic System
Product serial number	
Purchase date	

Company name: \_\_\_\_\_

User address: \_\_\_\_\_

Contact person: \_\_\_\_\_

Contact number: \_\_\_\_\_



#### 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.

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.

#### Radiation Exposure Statement

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 and your body.