

# THINKCAR

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You can visit the website: <http://www.thinkcar.com> for information about THINKCAR products; you can also write to: Shenzhen Thinkcar Tech Co., Ltd., No. 2606, F26, Building 4, Phase II of Tian'an Yungu Industrial Park, Longgang District, Shenzhen City, Guangdong Province, China, to contact THINKCAR to obtain written consent to the use of the manual.

## Important Security and Operation Information

To avoid personal injury, property loss or accidental damage to the product, please read all information in this chapter before using the product.

### Handle the Equipment with Care

Do not drop, bend, puncture, insert foreign objects, or place heavy objects on the equipment, or else, vulnerable components inside may be damaged.

### Do not Disassemble or Modify the Equipment

It is a sealed device without part that can be repaired by user inside. All internal repairs must be carried out by authorized maintenance agencies or technicians. Attempts to disassemble or modify the equipment will void the warranty.

### Do not Attempt to Replace Internal Battery

The internal rechargeable battery must be replaced by authorized maintenance organization or technician.



## Adapter information


Do not wet the equipment and adapter. Do not soak the equipment into water or place it in position where it may absorb water or other liquids. The charging device may be hot in normal use. Ensure good ventilation around the charging device.

Unplug the charging device if any of the following occurs:

- The charging device is exposed to rain, liquid, or excessive humidity.
- The charging device shows signs of physical damage.
- You attempt to clean the charging device.

## Protect Data and Software

Do not delete unknown files or change names of files or directories created by others, otherwise, the equipment software may fail to run.

 Note: access to network resources may make devices vulnerable to computer viruses, hackers, spyware, and other malicious acts, which may damage devices, software, or data. You should ensure that your computer is adequately protected with firewalls, anti-virus software, and anti-spyware software, and that these software is always up to date.

## Precautions for Use

The ignition switch should be in the OFF position when the diagnosis line is removed or inserted.

## Precautions for Vehicle ECU Operation

- When the ignition switch is on, please do not disconnect the internal electrical device of the car at will, so as to avoid damage to the ECU or equipment.
- Do not place magnetic objects near the computer to avoid circuit and component failure in the ECU.
- Disconnect the ECU system power supply when welding is carried out on the vehicle.
- When performing repairs near the computer or sensor, pay particular attention to avoid damage to the ECU and sensor.
- The connector of the ECU wire harness should be connected reliably to avoid damage to the integrated circuit and other electronic components inside the ECU.

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## 1. Overview

### 1.1 Instruction

The THINKTOOL X5 video remote diagnosis equipment (hereinafter referred to as THINKTOOL X5) has the strongest dual diagnosis mode, which can not only realize the local diagnosis function, but also complete the remote vehicle diagnosis through real-time communication of equipment, so that the diagnosis is not bound by space.

THINKTOOL X5 supports voice and video communication, and provides massive technical maintenance expert support anytime. THINKTOOL X5 remote service dealers and certified technicians can initiate remote diagnosis services online according to maintenance needs, and remotely solve auto repair problems for you.

### 1.2 Recognize diagnosis host



① Diagnosis interface

② Microphone

③ Screen

④ Power/Button

Long press the button to start or shut down.

Simply press the key to sleep or wake up.

⑤ Type C charge jack

For connecting attached charger for charging.

⑥ Ethernet interface

⑦ Rear camera

⑧ Heat dissipation port

⑨ Loudspeaker

⑩ LED lamp

### 1.3 Performance parameter

Operating system	Android 10.0
Memory	4 GB
Memory capacity	64 GB
Battery	3150 mAh/ 3.7 V
Display screen	5 inches

Camera	Rear 13 megapixel camera
Network connection	Wi-Fi/Ethernet interface
Bluetooth	Bluetooth 5.1
Work temperature	0°C ~ 50°C
Storage temperature	-20°C ~ 60°C

### 1.4 Equipment operation



Click on the title in the upper left corner of the page to return, and gesture return is available



### 1.5 Shortcut setting

Drop-down menu shortcut keys, including Wi-Fi, screen recording, screen capture, screen flip, LED switch, and Ethernet switch (icon in red indicates enabled). The screen brightness and volume can be also adjusted.



After the screen capture function  is enabled, the screen displays the screen capture button  capture the screen by clicking the button. Check screenshot from "Personal" -> "Photo Album".

Long press the Wi-Fi to enter the Wi-Fi setting interface rapidly.

## 2. Rapid use introduction

### 2.1 First use

The following setting should be made in first use.

#### 2.1.1 Start

Long press the power key to start the machine, and the screen displays as follows:



#### 2.1.2 Language Setting

Select the tool language from the languages interface as following.



### 2.1.3 Connect Wi-Fi

The system will automatically search all available Wi-Fi networks and you can choose the Wi-Fi needed. If the chosen network is open, you can connect it directly; If the chosen network is encrypted, you must enter the correct password.

⚠ Tips: Wi-Fi must be set. If no Wi-Fi network is available nearby, you can enable "Portable Mobile Hotspot".



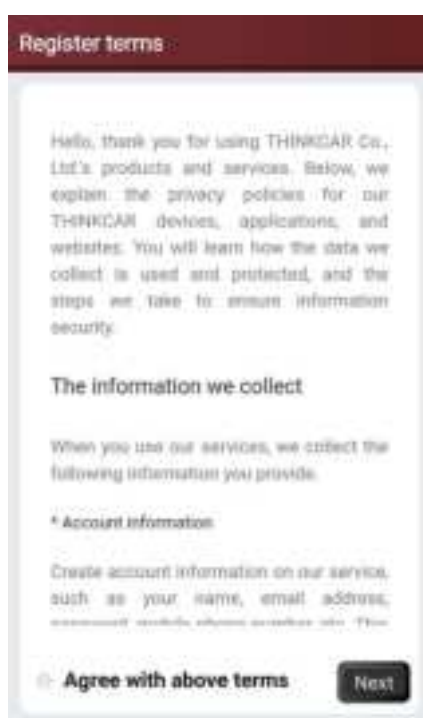
### 2.1.4 Choose Time Zone

Choose the time zone of the current location, then the system will automatically configure the time according to the time zone you chose.



### 2.1.5 User agreement

Read all the terms and conditions of the user agreement carefully and select "Agree to the Terms".





### 2.1.6 Account creation

You need to enter your email address to register an account. If you already have other THINKCAR products and have registered, you can directly use the existing account to log in.

The image shows a mobile application screen titled "Register". At the top, there is a progress bar with three steps: "Registered" (indicated by a red dot), "Activate VCI" (indicated by a grey dot), and "Completed" (indicated by a grey dot). Below the progress bar, there are several input fields: "User name", "Password", "Confirm Password", and "Email". There is also a CAPTCHA section with a "CAPTCHA" label and a "CAPTCHA" button. At the bottom, there is a "Register" button. A small text at the bottom of the form says "Sign-up means acceptance of [Privacy Policy](#)".

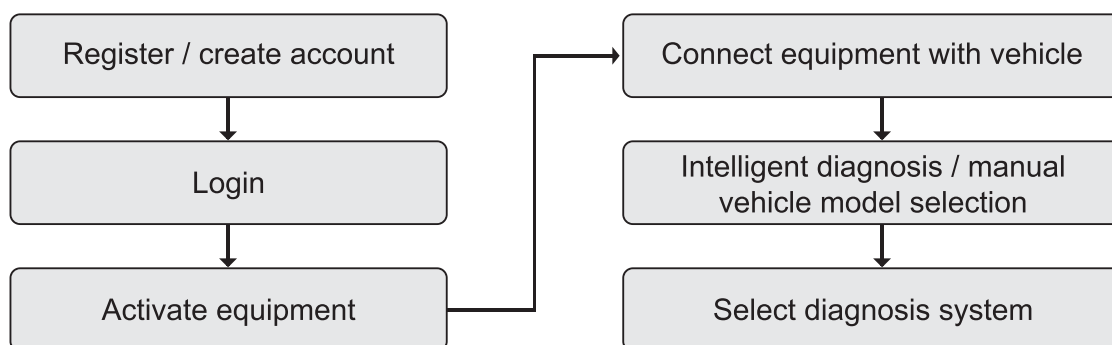
### 2.1.7 Diagnosis equipment activation

Enter the serial number and activation code of the equipment to activate it. If no activation operation is performed, you can also tap [Personal] on the home screen to enter to select [Activation VCI] to carry out operation.

⚠ Note: the activation code consists of 8 digits, pasted on the "Password Letter".

The image shows a mobile application screen titled "Register". At the top, there is a progress bar with three steps: "Registered" (indicated by a grey dot), "Activate VCI" (indicated by a red dot), and "Completed" (indicated by a grey dot). Below the progress bar, there are two input fields: "Serial Number" and "Activation Code". At the bottom, there is an "ACTIVATE" button.

## 2.2 Diagnosis procedure



## 2.3 Function menu

After diagnosis host is started, the system automatically enters the home page:




THINKTOOL X5 mainly comprises the following function options:

- [Diagnosis]: including intelligent diagnosis and traditional diagnosis. It can detect the electronic control system faults of covering most brands and models of Asian, European, and American vehicles. The diagnostic functions include fault code reading, fault code clearing, data stream reading, action testing, special functions, etc.
- [Remote Service]: the user and the remote expert technician communicate with each other about the diagnostic requirements through this module, and the expert technician can use the third-party diagnostic equipment to provide professional remote diagnosis support after confirming the operation.
- [Message]: to display list of contacted merchants and relevant information.
- [Personal]: in this function, includes machine settings, account management, information query, etc.

## 2.4 Recharge the host

The host is recharged by the following steps:

1. Connect one end of the power cable to the USB socket of the power adapter.
2. Connect the other end of the power cable to the charge jack at the top of the host.
3. Plug the charger into the power socket and start charging.
4. When the battery symbol shows , it means charging is finished, and disconnect the power socket of the host.

## 2.5 Battery use

- If the battery has not been used for a long time or the battery is exhausted, it may not be able to start up the machine properly when charging. This is normal. Please charge the battery for a period of time before starting the machine.
- Please use the attached charger for charging. The Company will not be responsible for any damage or loss caused by using other chargers other than those specified by the Company.
- The battery can be recharged. But since the battery is a consumable, after a long time of use, the standby time of the equipment will be shortened. To extend the service life of the battery, avoid frequent recharging.
- The battery charging time varies with temperature conditions and battery usage.
- When the battery of the equipment is low, the system will pop up the prompt of connecting the charger. When the battery is too low, the equipment may be automatically shut down.

## 2.6 Diagnosis equipment connection


The connection steps are as follows:

1. Find the diagnosis socket on the vehicle. Most of the diagnosis socket are standard OBDII diagnosis socket (non-standard OBDII vehicle diagnosis socket require corresponding adapters) are generally located on the driver's side, 12 inches from the center of the instrument panel. If you cannot find the location of the vehicle diagnosis socket, please consult the vehicle maintenance manual.




A	Opel, Volkswagen, Audi
B	Honda
C	Volkswagen
D	Opel, Volkswagen, Citroen
E	Changan
F	Hyundai, Daewoo, Kia, Honda, Toyota, Nissan, Mitsubishi, Renault, Opel, BMW, Mercedes-Benz, Mazda, Volkswagen, Audi, GM, Chrysler, Peugeot, Regal, Beijing Jeep, Citroen and most prevailing models

2. Connect the diagnosis equipment with the diagnosis socket on the vehicle.

 Note: for the non-standard OBDII diagnosis socket, if the diagnostic block is insufficient in power, power supply can be obtained in a battery double-embedded wire mode.

### 3. Diagnosis

When using the diagnosis function, the user can use VIN identification to quickly enter the system for diagnosis, or manually select the model and system for diagnosis.

This icon  is a shortcut key for remote diagnosis, which can be slid and docked on both sides of the screen. After tapping, the following pop-up box will appear.



#### 3.1 VIN automatic identification

Automatic VIN identification gives you faster access to the test vehicle system, and models and submodels do not need to be manually selected.

Click [Diagnosis] on the home page of the equipment, and then click [Intelligent diagnosis] button to enter the function.



A. Intelligent diagnosis: the user can connect the vehicle through the diagnosis cable to read the VIN from the ECU of the vehicle, and then compare the read VIN with the server, so as to obtain the vehicle information for quick diagnosis, and the previous problems that the menu shall be selected step by step to test the vehicle, the speed is slow, and selection errors can be made, can be solved. (You can also enter the function directly through "Intelligent diagnosis" in the diagnosis main screen.)

### 3.2 Manual diagnosis

In addition to supporting quick diagnosis, it also supports step-by-step manual selection of the menu for diagnosis.

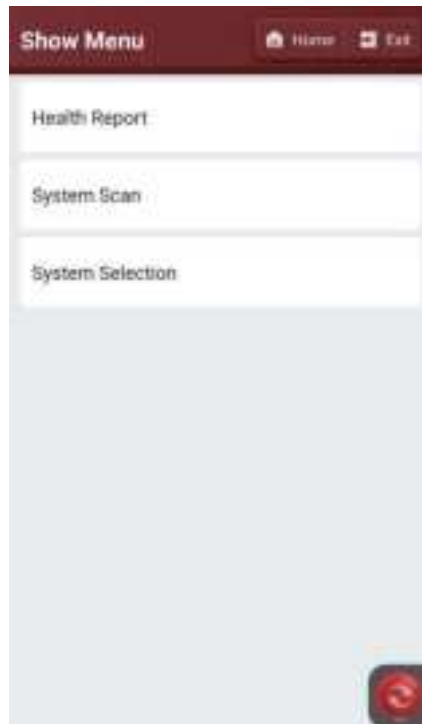
How to start the diagnosis is explained as follows by taking [Demo] program as example: using the demo as an example.

1) Select model: directly click the [Demo] symbol on the diagnosis interface, and click [OK] in the lower right corner after entering. (For actual diagnosis, please select the vehicle model on the main diagnosis interface.)



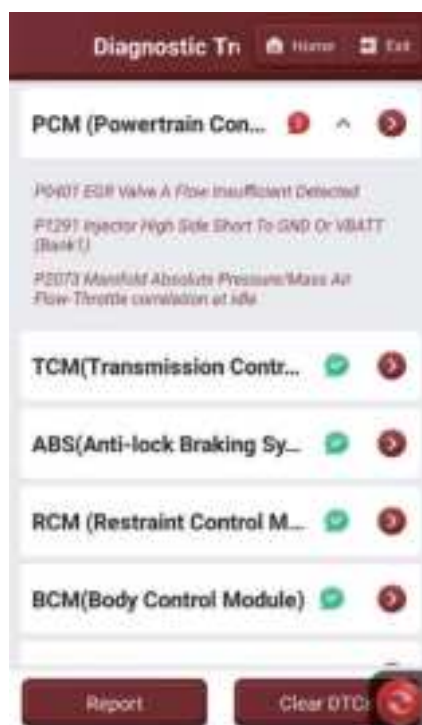
⚠ Note: diagnosis software for different models may have different diagnosis menus.

2) Select diagnosis mode: after the connection is successful, the screen will enter the diagnosis item selection interface.



A. Health report: this function is used to quickly detect vehicles and view vehicle health reports (this item will only be displayed if the model diagnosis software supports this function).

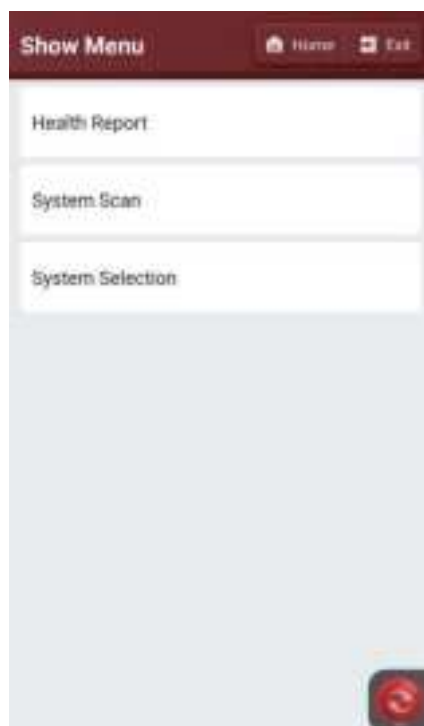
Click [Smart Scan], the system starts to scan for fault codes in each system and displays specific scan results.



Click [Report] to generate vehicle health report.



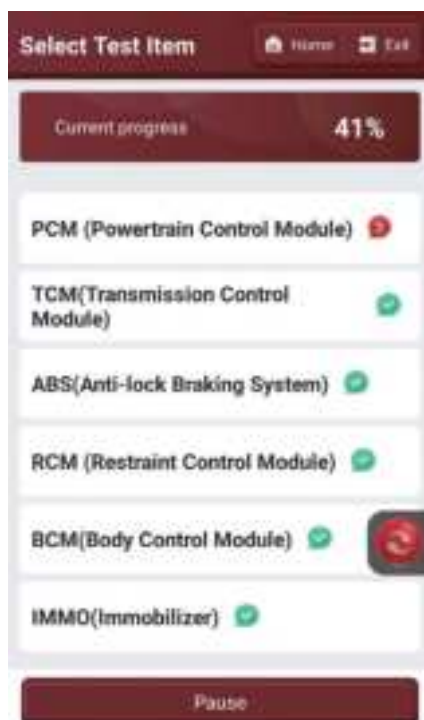
B. System Scan: what systems the vehicle are equipped with are automatically scanned.



C. System Selection: scan the manually selected vehicle electric control system.

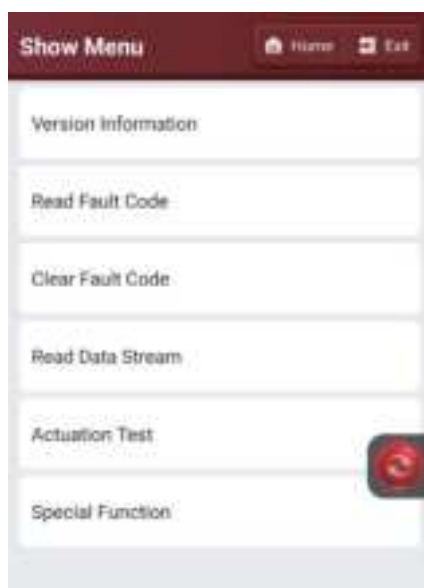
### 3.3 Select diagnosis system

1) Select diagnosis system, click [Enter], the screen enters the function selection interface. EMC (engine control model) is taken as example.



2) Click to diagnose the function.

⚠ Note: the diagnosis menu may vary from vehicle to vehicle.



a) Version information

Click [Version Information] to read the version information of the ECU of the vehicle to be tested.

b) Read fault code

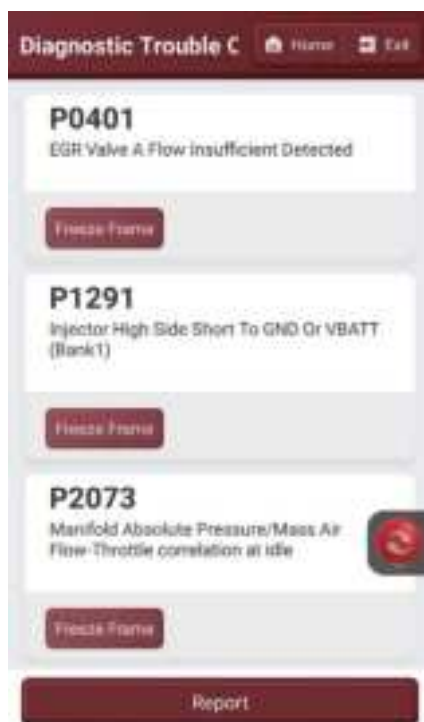
This function is used to read the fault codes existing in the ECU of the current vehicle.

Click [Read Fault Code] on the function selection page, and the diagnosis result will be displayed on the screen.

⚠ Note: reading the fault code is only a small step in the process of vehicle troubleshooting. The vehicle fault code is only for reference, and the parts cannot be replaced directly on the basis of the given fault code



definition. Each fault code has a set of test procedures, maintenance technicians must strictly follow the operation instructions and procedures described in the vehicle maintenance manual to confirm the crucial of the fault.



#### c) Clear fault code

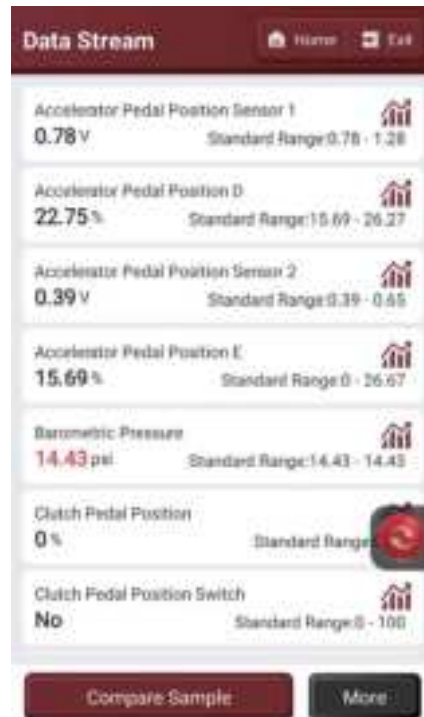
On the function selection page, click [Clear Fault Code], the system automatically deletes the existing fault code and pops up the dialog box "Clear Fault Code successfully".

⚠ Note: for general vehicles, please operate strictly following the routine sequence: first read the fault code, then clear the fault code, carry out trial run, retrieve DTC for verification, repair the vehicle, clear the fault code, and carry out trial run again to confirm that the fault code does not appear any more.

#### d) Read data stream

This function is mainly used to read and display the real-time operation data and parameters of vehicle ECU. By observing this real-time data stream, maintenance technicians can gain insight on overall performance of the vehicle and provide guidance on vehicle maintenance.

⚠ Note: to perform vehicle troubleshooting, you must drive the vehicle, please find someone else to help you. It is dangerous to drive and operate the diagnosis equipment at the same time, and serious traffic accidents can be caused.



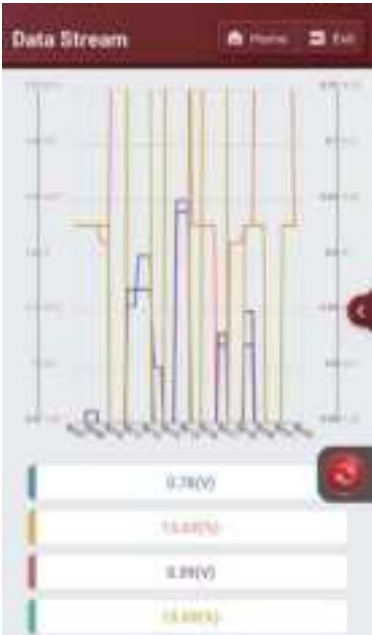
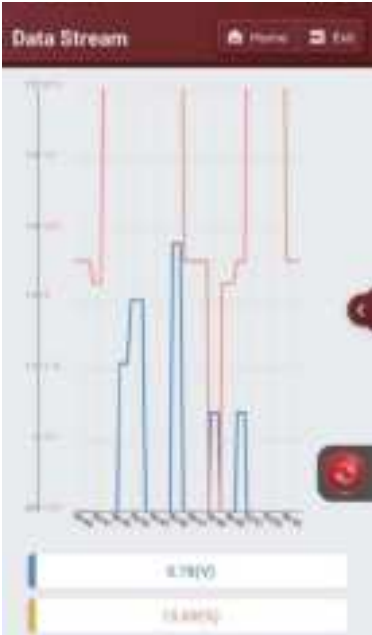
When the data stream options are not displayed in the screen, scroll up and down to view all the options. There are three display modes, you can choose the most suitable way to browse:

[Value]: The default display mode displays the parameters as values and lists (\*Note: if the data stream value is not within the standard value range, the data stream is displayed in red).


[Graph]: Parameters are displayed in the waveform mode.

[Combine]: The graphs are presented in a combination mode for user to compare (\*Note: different data stream options are marked in different colors).

Screen button:


	<p>【Graph】 : Parameters are displayed in the waveform mode.</p> 
【Graph】	<p>【Combine】 : Graphs are presented in a combination mode for users to compare.</p> <p>⚠ Note: at most 4 data stream waveforms are displayed at the same time.</p> 

【】

In the value mode, click  to display the current (single) data stream as a waveform. On the waveform display page, users can perform the following operations:

【Upper Limit/Lower Limit】 : Click to set Max/Min. If the run value exceeds the set value, the system issues a warning.



【User Defined】 : Click "  " on the screen to define data stream options to be checked.

⚠ Note: at most 4 data stream options are selected.

