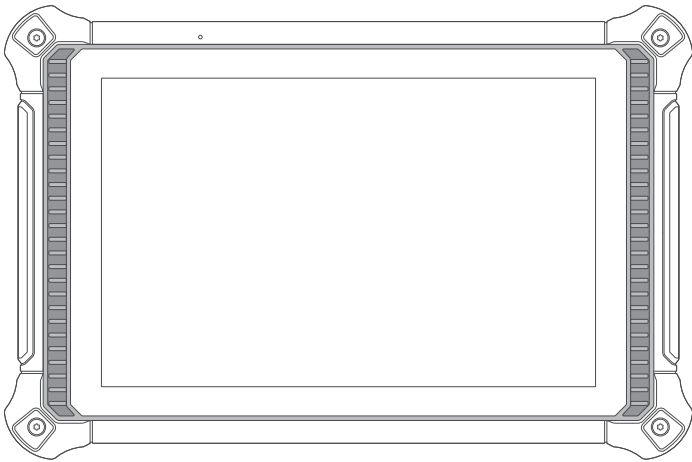# THINKCAR
LEADING TECH IN DIAGNOSTICS

THINKTOOL Master X2
Quick Start Guide

1   Quick Start Manual

1.1 Initial Use

The following settings should be made when you initially use the device.

1.1.1 Turn on the Machine

After pressing the power button, images will be shown on the screen as follows.

1.1.2 Language Setting

Select the target language from the languages displayed on the interface.

1.1.3 Connect Wi-Fi

The system will automatically search all available Wi-Fi networks. Please connect to the trusted Wi-Fi.

⚠ *Tips: Wi-Fi must be set. If there is no Wi-Fi network is available nearby, you can try "Portable Mobile Hotspot".*
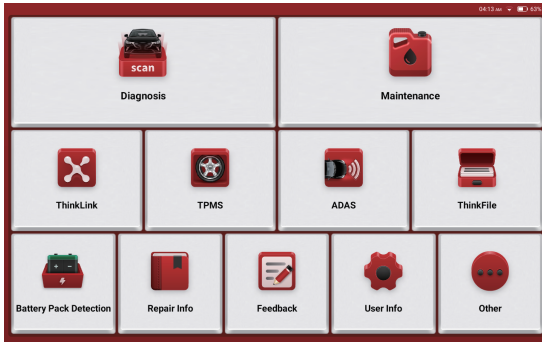
1.1.4 Choose Time Zone

Choose the time zone of the current location, then the system will automatically configure the time.

1.1.5 User Agreement

Please read all the terms and conditions of the user agreement carefully. Choose "Agree to the above terms", and tap"Next".
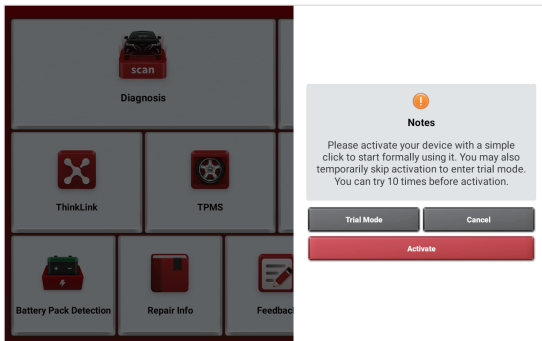
1.2 Function Menu

After startup, the system will automatically enter the homepage:

1.3 Activate device

Before starting the diagnosis, please click [Activate] to activate the device. If you don't want to activate immediately, you can also click [Trial Mode] for ten trial opportunities.

1.4 Charging

Follow the steps below to charge the device:
• Use the charger to connect the device and the power socket to charge.
• When the battery status displays ▭ the device is charging.
When it displays ▬, the charging process has been completed and you shall disconnect the device.

1.5 VCI Connections

Connect the THINKLINK VCI to OBDII port of vehicle through the OBD Diagnostic Cable. The vehicle OBDII port is usually located under the dashboard, on the driver's side above

the pedals. Below are five locations for the most common OBDII ports.
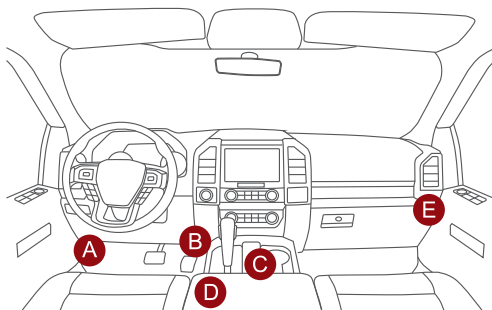
2 Introduction

2.1 Product Profile

THINKTOOL Master X2 has 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 Master X2 supports voice and video communication, and provides massive technical maintenance expert support anytime. THINKTOOL Master X2 remote service merchants and certified technicians can initiate remote diagnosis services online according to maintenance needs, and remotely solve auto repair problems for you.

2.2 Components & Controls

2.2.1 THINKTOOL Master X2
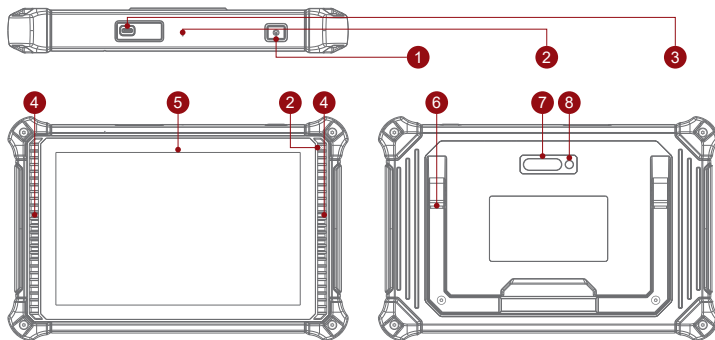
① Power Key

Long press to power on or off

Click to sleep or wake the device

② Microphone

③ Type C interface: for charging and data transmission

④ Speaker

⑤ Display

⑥ Adjustable bracket: supports three states of hanging, supporting and normal.

⑦ LED Lamp

⑧ 13 Megapixel Rear Camera

Parameters

Operating System	Android 10.0	Camera	Rear Camera 13.0MP
Memory	4G	Network	Wi-Fi,WLAN 802.11b/g/n
Storage	128G	Bluetooth	Bluetooth 5.1
Battery	12600mAh/3.7V	Working Environment	14°F~122°F(-10°C~50°C)
Screen	10.1 inches	Storage Environment	-4°F~140°F(-20°C~60°C)

2.2.2 THINKLINK VCI
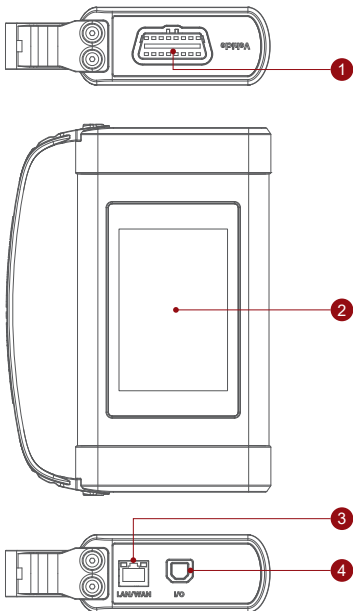
① Diagnostic port: 16-pin OBDII port, connect to the OBD II extension cable

② Display: 3.95 inches, display working status

③ LAN/WAN port: Connect to the Internet

④ I/O data Port: Type B USB port is designed for building stable communication when performing ECU Programming or IMMO Key Programming.

Parameters

Memory	256M
Storage	8G
Display	3.95 inches
Working Voltage	9-36V
Working Environment	14°F~122°F(-10°C~50°C)
Storage Environment	-4°F~140°F(-20°C~60°C)

3 Diagnosis

Diagnostic function, covers the mainstream car brands on the market, supporting intelligent diagnosis and traditional diagnosis, including OBDll full-function diagnosis. Full-system diagnosis includes: read fault code, clear fault code, read real-time data stream, special function, actuation test. A diagnosis report can be generated after the diagnosis.
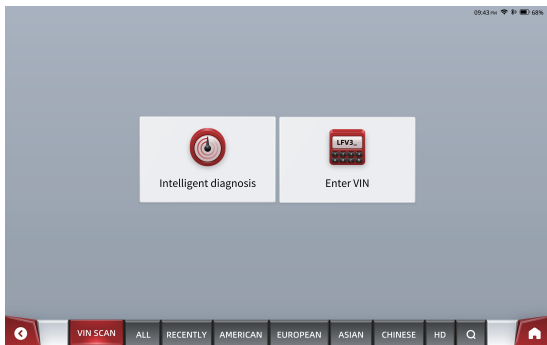

3.1 VINSCAN

VINSCAN supports quick access to the test vehicle system, no need to manually select the vehicle system.

Click "Diagnostics" on the home page of the device, and then click the "VINSCAN" button to enter the function page.

A. Intelligent diagnosis: The user can connect the vehicle through the diagnosis line to read the VIN from the vehicle ECU. Then compare the read VIN with the server to obtain vehicle information for quick diagnosis. It solves the disadvantages that the diagnosis can only be made by selecting the menu level by level in the past, which is slow and easy to choose wrongly.

B. Enter VIN: Manually enter the VIN code of the vehicle, and then click "OK" to enter the diagnosis function.

3.2 Manual Diagnosis

A. Select vehicle type: Click the vehicle model software icon on the diagnosis interface, enter "OK" and enter the diagnosis menu. Diagnosis menus may be different for different car models.

B. Select diagnosis method: After successfully communicating with the vehicle, it will enter the diagnosis function selection interface. THINKTOOL Master X2 supports the system topology map function.
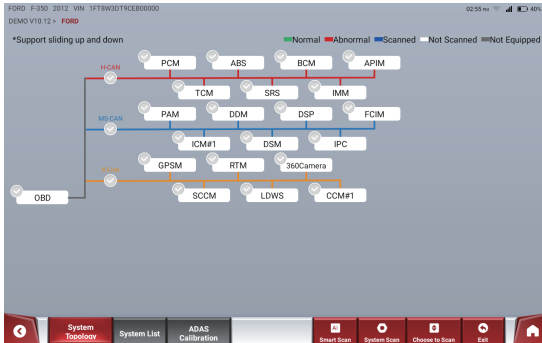
1) Smart Scan: It enables you to quickly access all the Electronic Control Units of the vehicle and generate a detailed report about vehicle health.
2) System Scan: To check how many systems the car is equipped with.
3) Choose to Scan: Choose the target automotive electronic control system to scan.

3.3 System and Function

A. Click the Electronic Control Units module, and the screen will enter the function selection interface.
B. Click to select the function to perform.

1) Version Information: Read the current version information of the automotive ECU.
2) Read Fault Code: Read the DTC in the ECU memory to help maintenance personnel locate the cause of the failure.
3) Clear Fault Code: The system will automatically delete the existing fault codes.
4) Read Data Stream: View and capture (log) real-time live data from ECUs.
5) Actuation Test: Used to test whether the execution components in the electronic control system can work normally.
6) Special Function: Used for data writing operation of electronic control unit. They all belong to this category, such as ECU data calibration, ECU Programming etc. Some mantanence functions are also included in this part.

4 THINKLINK

THINKCAR remote diagnostic service can provide functions such as remote diagnosis, remote programming, remote anti-theft configuration, remote ADAS calibration, remote troubleshooting and answering. The platform is based on a safe, stable and efficient cloud data channel to quickly solve customers' car maintenance problems that cannot be

completed locally. Currently, it supports CAN, CAN FD, DOIP, J2534 and other protocols, covering many mainstream car series such as Mercedes-Benz, BMW, Volkswagen Audi, and General Motors.

4.1 Remote diagnostic process

a. Connect your device to your vehicle
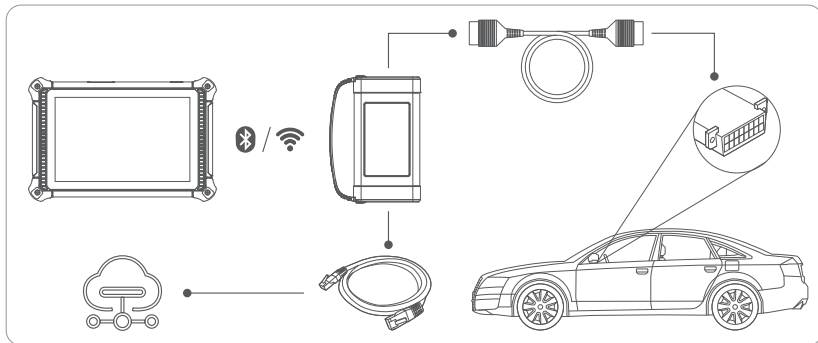
b. Publish order requirements

    1) Get vehicle information

       You can use [Intelligent Diagnosis] or [Manual selection] to obtain vehicle information.

    2) Fill in the order information

       Select the service type and service time, and fill in the service details you need.

c. Communicate service needs

    After the expert technician receives the order, you can communicate your needs with the expert technician through messages.

d. Start remote diagnostic service

    After ensuring that the devices on both sides are connected, start the remote diagnostic service. During the remote connection process, please turn on the vehicle ignition switch to keep the wired network open.

e. Complete order and evaluation

    After the expert technician completes the order, please provide your valuable suggestions and opinions.

5   TPMS

THINKTOOL Master X2 device supports tire pressure sensor activation, reading, diagnosis,

learning and programming functions.
- Read the tire pressure sensor ID, pressure, temperature, battery status.
- Activate the tire pressure sensor of THINKCAR, can achieve the original factory level function.
- Able to cover more than 98% of car models.

⚠ *Note: The tire pressure module of THINKTOOL Master X2 is built into the main unit. When using it, please place the upper left side of the device close to the tire pressure sensor.*
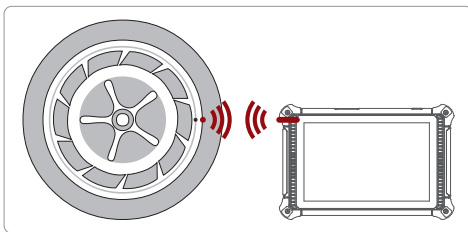
6 Maintenance

The maintenance function supports the matching, codes and common functions of the programmable module of most models, and the maintenance services of different models have different maintenance services.

The current maintenance functions supported by THINKTOOL Master X2 are: Oil Reset, Elec. Throttle Rlrn, SAS Reset, BAT. Match, Bleeding, Brake Reset, DPF Reg., Gear Learn, Immo, Injector, TPMS Reset, Sus Reset, AFS Reset, GearBox Learn, Sun Roof, EGR Adaption, ODO Meter, Airbag Reset, Transport Mode, A/F Reset, Stop/Start Reset, NOx Sensor Reset, AdBlue Reset, Seats Calibration, Coolant Bleed, Tyre Reset, Windows Calibration, Language Change, AC System Relearn/Initialization, Intelligent Cruise Control System, Engine Power Balance Monitoring, Gas Particulate Filter Regeneration, Motor Angle Calibration, High Voltate Battery Diagnostics, Clutch Matching, ECU Reset, FRM Matching, Gateway Module Data Calibration, Rainfall Light Sensor, Turbocharging Matching, IMMO PROG (optional).

7 Other function

7.1 Battery pack detection

Conduct professional-level diagnostic testing for battery packs and battery modules of new energy vehicles, and provide multi-mode diagnosis (OBD interface diagnosis, fast charging

port diagnosis, battery pack low-voltage interface diagnosis). It can also help users accurately locate battery faults through real-time analysis of important battery cell data such as voltage, temperature, and pressure difference, and provide battery diagnosis and maintenance guidance.

(*This function needs to be used with the battery pack diagnostic function upgrade package. Please contact the dealer for consultation and purchase.

7.2 ADAS

Advanced driver assistance systems (ADAS) is an electronic component in vehicles that include a variety of vehicle safety functions such as automatic emergency braking (AEB), lane departure warning(LDW), lane keeping assistance, blind spot elimination, night vision cameras, and self-adaptive lighting.

The static calibration function of ADAS defaults to the disable status. it need to be used with ADAS calibration tool of THINKCAR for activation. It is mainly for calibrating driver assistance systems such as cameras and radars, e.g. front-facing cameras for lanes departure warning systems, radar sensors for ACC (self-adaptive Cruise control) or cameras for self-adaptive headlights.

7.3 ThinkFile

It is used to record and establish the file of the diagnosed vehicles. The file is created based on the vehicle VIN and check time, including all VIN-related data such as diagnostic reports, data stream records and pictures.

7.4 Repair Info

A. OBD Fault Code Library: You can enquire the definition of OBD fault codes.
B. Coverage List: You can enter the Vehicle brand, model, year and other information to enquire the support functions and diagnostic system.
C. Learning materials: You can view the operation playback of the special functions of each brand model, to help users study the operation of the special functions online without connecting the vehicle.
D. User Manual: You can find the E-Manual in here.

7.5 Feedback

If you encounter an unresolved problem or diagnostic software bug during diagnosis, you can revert the most recent 20 test records to THINKCAR Team. When we receive your feedback. we will analyze and troubleshoot it in a timely manner, to improve the quality of our products and user experience.

7.6 Other

7.6.1 Remote Assistance:

Support remote technicians or after-sales personnel to operate the device, and guide and solve problems encountered during the use of the device.

7.6.2 Message

You can view the service providers authorized for the remote diagnosis function. Feedback to them about problems in use and get help with vehicle diagnosis and repairs.

7.6.3 Can Bus Pin Detection

Used to detect vehicle OBD II diagnostic socket pin voltage and supported protocol types.

7.6.4 Voltage Check

Read the voltage change value before and after the engine starts through the OBD II port.

7.7 User Info

Support user information modification and setting. Including: VCI management, Firmware Fix, Data Stream Sample, Business Information/Customer Management, System Settings, etc.

8 Warranty Terms

- This warranty applies only to users and distributors who purchase THINKCAR products through normal procedures.

- Within one year from the date of delivery, THINKCAR warrants its electronic products for damages caused by defects in materials or workmanship.

- Damages to the equipment or components because of abuse, unauthorized modification, use for non-designed purposes, operation in a manner not specified in the instructions, etc. are not covered by this warranty.

- The compensation for dashboard damage caused by the defect of this equipment is limited to repair or replacement. THINKCAR does not bear any indirect and incidental losses.

- THINKCAR will judge the nature of the equipment damage according to its prescribed inspection methods. No agents, employees or business representatives of THINKCAR are authorized to make any confirmation, notice or promise related to THINKCAR products.

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