Version: V1.00.001

This is the generic manual, please check the updated e-manual in "Repair Info" of the device for the specific details of the device.

Statement: **XHINKCAR** | **THINKCAR** owns the complete intellectual property rights for the software used by this product. For any reverse engineering or cracking actions against the software, XHINKCAR | THINKCAR will block the use of this product and reserve the right to pursue their legal liabilities.

## **FCC Requirement**

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

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.

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.

#### **FCC WARNING**

I

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The mobile device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body is 0.711 W/kg.

For body operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and that positions a minimum of 15mm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

## IC Requirement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada' s licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1) L'appareil ne doit pas produire de brouillage;

2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## **IC WARNING**

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions spécifiques pour satisfaire les normes. Cet émetteur ne doit pas être co-implanté ou fonctionner en conjonction avec toute autre antenne ou transmetteur.

Le dispositif portatif est conçu pour répondre aux exigences d'exposition aux ondes radio établie par ledéveloppement énergétique DURABLE. Ces exigences un SAR limite de 1,6 W/kg en moyenne pour un gramme de tissu. La valeur SAR la 0.711W/kg plus élevée signalée en vertu de cette norme lors de la certification de produit à utiliser lorsqu'il est correctement porté sur le corps.

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Formal statement: The names of other products mentioned in this manual are intended to explain how to use this equipment, and the registered trademark ownership still belongs to the original company. This equipment is designed for professional technicians or maintenance personnel.

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#### Safety Precautions and Warnings

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

#### Handle equipment carefully

Do not drop, bend, or puncture the tool, or insert extra objects into or place heavy objects on the device. The vulnerable components inside may be damaged.

#### Do not disassemble or modify the equipment

The device is a sealed device with no user-serviceable parts inside. All internal repairs must be performed by an authorized maintenance organization or qualified technician. Attempts to disassemble or modify the device will void the warranty.

### Do not try to replace the internal battery

The internal rechargeable lithium battery must be replaced by an authorized maintenance organization or qualified technician. Contact the dealer for factory replacement.

#### Adapter information

Avoid immersing the device in water or placing it in a location where it may absorb moisture or other liquids. During normal use, the charging device may become hot. Please ensure that there is good ventilation while charging device.

If any of the following situation occurs, please unplug the charging device:

- The charging device is exposed to rain, liquid or in an environment with excessive overlap.
- The charging device showed physical damage.
- Cleaning the charging device.

#### **Data and Software Protection**

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

⚠ Note: Access to network resources makes the device vulnerable to computer viruses, hackers, spyware, and other malicious behaviors, and may damage the device, software, or data. To make ensure that you are using firewalls, anti-virus software and anti-spyware software to provide adequate protection for your computer and keep these software up to date.

#### Precautions on Using the device

- To make sure the ignition switch should be in the OFF position when plugging and unplugging the diagnostic connector.
- Keep the connector in the storage box on the back of the main unit, when the vehicle diagnosis is finished.
- Gently press the diagnostic connector to pop up the diagnostic connector. Do not pull or use sharp objects to pry the diagnostic connector.

### Precautions on Operating Vehicle's ECU

- Do not disconnect battery or any wiring cables in the vehicle when the ignition switch is on, as this could avoid damage to the sensors or the ECU.
- Do not place any magnetic objects near the ECU. Disconnect the power supply to the ECU before
  performing any welding operations on the vehicle.
- Use extreme caution when performing any operations near the ECU or sensors. Ground yourself when you disassemble PROM, otherwise ECU and sensors can be damaged by static electricity.
- When reconnecting the ECU harness connector, be sure it is attached firmly, otherwise electronic elements, such as ICs inside the ECU, can be damaged.

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## 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.

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ish	V
ði.	
4	
is .	

#### 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".

 $\triangle$ 

<sup>031</sup> ™ ♥ WIFI Setting	4 10
THINKEAR	9
THINKEAR-0	*
Parkes 1G	~
	Next

#### 1.1.4 Choose Time Zone

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

01	121 w 🕈 405 🖸		
<	Time zone		
	America/Los_Angeles	•	
	America/Tijaana		
	Amerika/Phoenik		
	America/Chilvahua		
	America/Boasta		
		Next	

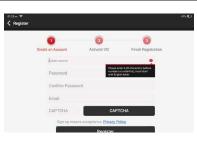
## 1.1.5 User Agreement

Please read all the terms and conditions of the user agreement carefully. Choose "Agree all the above terms", and tap "Next" to complete the registration process. Then the page will jump to the "Congratulations on your successful registration" interface.

	and the second se
6	gistration Terms
	Helds, thank you for using THERCLE Co. LSK's products and services. Baloos we explain the person policies for our THERCLE devices, applications, and extentes. You will learn how the data we collect in used and policitid, and the stops we take to ensure information security.
	The information we collect
	When you use our services, we collect the following information you provide.
	* Account information
	Chaine account information on our service, such as your name, ensult address, placearer, mobiler phone number, etc. This is the information you must prevele to oreate an account. We use this information to personalize your services, develop new services, and contact yourthrough the use of services.
	To enable the main fastures of the TNINEXX application, you need to provide us with additional information about your vehicle, such as setticle identification number (VNI), manufactures, model, lengers type and minope.
	* Additional information
	If you contact us or participate in investigation, promotion, etc., we will collect the information you collect, such as your name, contact information, etc.
	* Inflamation from third party sources
	If your accessed on our sevence connects to an accessed on another service, we may access information from another service. For example, if you connect to Facebook, we may recent address inform you lets to service, you expended agrees to share this information with as By searcemany access to one services poor access age tensors, including a control address information to access the service. You access the tensors and the information with as By searcemany access to one services poor access and tensors there are service.
	* Payment and credit card information
	If you combase TMINE AD conducts or services on our aethors you will receive your canneed information, included your name, could or debit call survive card economics
,	Ignee to the above terms

#### 1.1.6 Create an Account

You need to use your email account to register a THINKCAR personal account. This account can be applied to all THINKCAR products, and you can log in directly with this account when using other THINKCAR device.



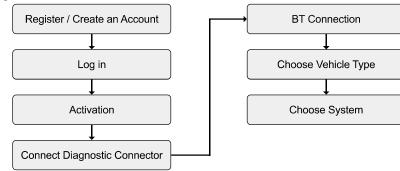
#### 1.1.7 VCI Activation

Enter the connector serial number and activation code to activate and bind the diagnostic connector. If you have not activated it, you can also tap "Settings" on the main interface to enter and select "Activate" to operate.

Tips: The activation code is an 8-digit number and is pasted on the "password letter".



# 1.2 Diagnosis Flowchart



3

#### **1.3 Function Menu**

After startup, the system will automatically enter the homepage:

Note: The homepage is slightly different according to different 10-inch device.



#### It mainly includes the following features:

- The device and diagnostic connector support wired communication and Bluetooth communication.
- Support powerful intelligent VIN recognition technology, which is convenient, fast and efficient.
- · Quick check: Automatic Identification of Vehicle Information, Auto Checking and Report Printing.
- Modular expansion: printer, work light, video scope, battery tester, scope box, thermal imager, battery test clip, wireless TPMS tool.
- It can detect faults in the electronic control systems of most high-end, medium-end, and low-end vehicles in Asia, Europe, the United States and China. Powerful diagnostic functions include reading fault codes, clearing fault codes, reading data streams, action tests, and other special functions.
- Maintenance function: matching, coding, programming of most vehicles' programmable modules, and most commonly used maintenance and reset functions: Oil Reset; Elec. Throttle Adaption; IMMO Service; Injector Coding; Brake-pad Reset; Steering Angle Reset; ABS Bleeding; AFS Reset; Battery Matching; A/T Learning; DPF Regeneration; EGR Adaption; TPMS Reset; Sunroof Initialization; Suspension Matching; Gear Learning; Airbag Reset; ODO Meter Reset; AdBlue Reset; A/F Reset; Coolant Bleeding; Language Change; NOx Sensor Reset; Seat Calibration; Stop/Start Reset; Transport Mode; Tyre Reset; Windows Calibration; AC System Relearn/Initialization; Engine Power Balance Monitoring; Gas Particulate Filter Regeneration; High Voltage Battery Diagnostics; Intelligent Cruise Control System; Motor Angle Calibration; IMMO PROG (optional).
- TPMS: with wireless TPMS tool (optional), TPMS activation, programming and learning functions can be supported.
- Diagnostic software, client-side and firmware can be updated online.
- Feedback: In the process of diagnosis, if the software or function is abnormal, please feed back to us. Our professionals will follow up and deal with it in time.

# 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  $\square$  , the device is charging.
- When it displays 📺 , the charging process has been completed and you shall disconnect the device.

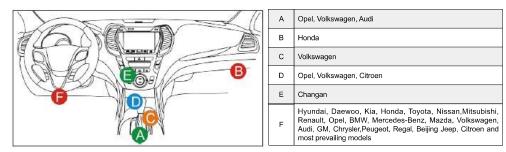
# 1.5 Battery

- It is normal that the device cannot be turn on when charging because the battery has not been used for a long time or maybe the power is exhausted. Please turn on the device again after charging the battery for a while.
- Please use the charger in the package to charge the device. Except for the chargers specified by the company, the company shall not be liable for any damage and loss caused by charging with other chargers.
- The battery can be recharged repeatedly. Please try not to recharge frequently to avoid battery loss and prolong battery life.
- The battery charging time varies with temperature and battery status.
- When the battery power is low, the system will pop up a prompt to remind you to connect the charger. When the battery power is too low, the device will turn off.

## **1.6 VCI Connections**

Connection steps as below:

(1) Locate vehicle's DLC socket. Most of the DLC are standard OBDII/EOBD diagnostic sockets (nonstandard OBDII/EOBD vehicle diagnostic sockets need to use the corresponding adapter). The DLC is usually located 12 inches from the center of the instrument panel (dash), under or around the driver's side for most vehicles. If the DLC cannot be found, refer to the vehicle's service manual for the location.



(2) For OBDII/EOBD vehicle, follow the steps below to proceed:

- a. Plug the VCI dongle into the vehicle's DLC socket
- b. Use the OBDII/EOBD extension cable to connect the VCI dongle and DLC socket.

(3) For non-OBDII/EOBD vehicle, If the pin of the DLC is damaged or has insufficient power, please try any of the following methods to proceed:

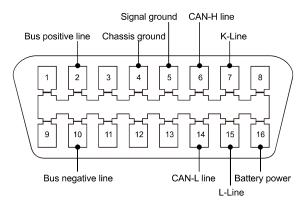
a. Cigarette Lighter Cable

b. Battery Clamps Cable

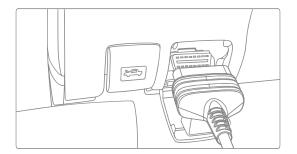
(4) Non-standard 16-PIN vehicle diagnostic sockets (OBDI).

A. Introduction of OBD vehicle diagnosis connector

In the development history of automobile diagnosis and detection, OBD system is an online diagnostic system for internal combustion engines, which currently goes through a generation and a second generation, the second generation being EOBD/OBDII, as shown in the diagram below, with a unified hardware feature and interface definition for the diagnostic seat of the car.

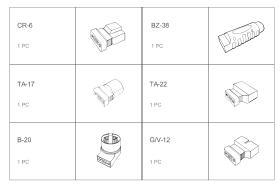


OBD II Connector and Pinout

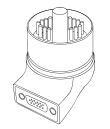


OBD II Diagnostic Port of Automobile

About 1996, before the United States unified the OBD II standard and during the transition period, different automobile manufacturers had different diagnostic port for OBD I. Such as three PIN like HONDA; 17 PIN like Toyota; 38 PIN like BENZ. At present, all overseas comprehensive diagnostic device of Company's are equipped with 10 OBD I diagnostic connectors, as shown in the table below:



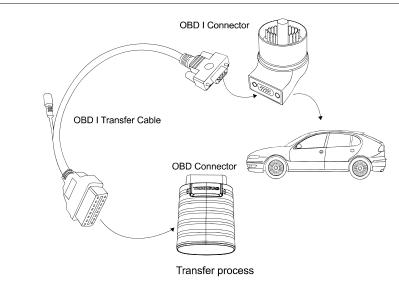
OBD I Diagnostic Port on the Packing List



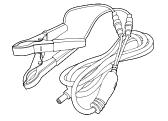
Diagnostic Connector for BMW 20

B. How to connect OBD I Diagnostic Port

The OBD I connector, which was set up to cater for older models of various car brands, has very few current applications as most older cars have been phased out. Cars that produced after 2005 are basically all OBD II connector. In USA, we still occasionally come across vintage or modified cars that still use OBD I. For this reason, a transfer from OBD II to OBD I is required.



⚠ Note: when using older models, the Transfer Cable must be used, with the small power connector on it, which is connected to the power connector of the power double clamp cable, this is a solution for certain cars before 1996, whose diagnostic holders do not have a 12V power supply.



Application of the double clamp power cable

All other configurations with Non-standard 16-PIN diagnostic connectors can be wired as shown in Picture 5 for achieving the diagnosis of the corresponding old models.

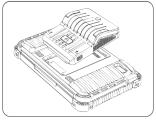
# 1.7 Printer / WorkLight / Thermal Imager / Battery Tester Installation

The printer is installed on the back of the device. Please follow the steps below:

- (1) Unscrew the backplane screws and remove the host backplane.
- (2) Insert one side of the printer into the card slot of the device.

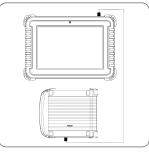
(3) Press the buckle on the side of the printer to snap on it into the device.

(4) When the device is on, it will automatically identify and connect the printer.



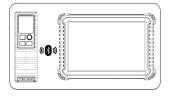
# 1.8 Scope Box / Video Scope / Printer Installation

The Scope Box and Video Scope are connected by USB cable. It will automatically enter the corresponding interface once they are connected.



# 1.9 Wireless TPMS / Battery Tester Installation (Bluetooth).

Tap Wireless TPMS or Battery Tester on the device, and you can detect the corresponding module in Bluetooth mode. You need to match the module by activating it.



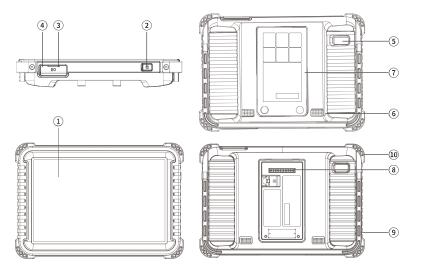
# 2. Introduction

### 2.1 Product Profile

The device, is a new generation of modular high-end intelligent diagnostic equipment developed by THINKCAR, adopting a unique modular design to meet various application scenarios, including diagnostic

module, printer, videoscope, work light, thermal imager, scope box, moduledock and TPMS tool.

# 2.2 Components & Controls

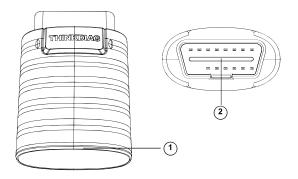


No.	Function	
1	Display	
2	Power Key: Hold the button for 3 seconds to turn the device on, or off, and 10 seconds for a forced restart. Press the button to wake up the device or turn off the device.	
3	Type-C Port: Connect the supplied charger for charging.	
4	USB Port: Reserved for add-on modules and other devices with similar port.	

5	Rear Camera
6	Speaker
7	Backplane: Remove the backplane of the tablet, and install function modules on the back-end.
8	Pin: Be used for communication between the function expansion module and the device.
9	Adjustable Kickstand: Able to keep the device standing on the desk, or hang the device on the steering wheel with 180 degree rotation.
10	Rubber Protection Sheet

# 2.3 OBD Connector

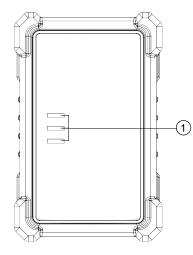
# 2.3.1 THINKDIAG

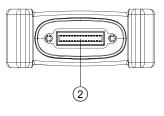


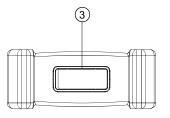
NO.	Name	Descriptions	
1	Indicator Light	<ul> <li>LED indicator is located at the bottom, and the three status as follows:</li> <li>Power: Green light indicates that the power is on.</li> <li>Diagnosis: Blue light shows that it enter the diagnosis mode.</li> <li>Vehicle: Flashing-blue light means it is communicating with the vehicle.</li> </ul>	

2	Diagnostic Port	Plug in the diagnostic cable whose OBD 16-pin connector is linked to the DLC of the vehicle.	
3	Supporting protocols	ISO 9142 ISO 14230 ISO 15765 K/L-Line Flashing Code CAN ISO 11898 SAE-J1850 VPW SAE-J1850 PWM Highspeed CAN	Middlespeed CAN Lowspeed and Singlewire CAN GM UART TP 2.0 TP 1.6 UART Echo Byte Protocol Honda Diag-H Protocol Fault-Tolerant CAN SAE-J2610

# 2.3.2 THINKCAR TVCI



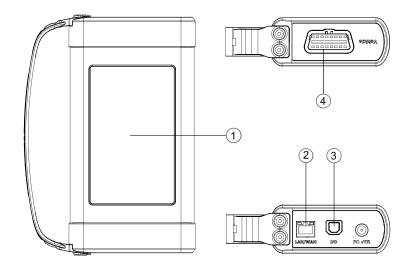




12

NO.	Name	Descriptions	
1	Indicator light	<ul> <li>Three LED indicators are provided on each side, and the prompts are as follows:</li> <li>Power: All lights on to indicate that the power is on</li> <li>Vehicle: Long red light means it is communicating with the vehicle</li> <li>I/O: Blue and Green flashing light means the USB is connected to the device.</li> </ul>	
2	DB30 diagnostic port	Plug in the diagnostic cable whose OBD 16-pin connector is linked to the DLC of the vehicle.	
3	Type-C port	Type-C port is designed for building stable communication while ECU Programming or IMMO Key Programming.	
4	Supporting protocols	ISO 9142 ISO 14230 ISO 15765 K/L-Line CAN ISO 11898 SAE-J1850 PWM Highspeed CAN Middlespeed CAN CAN FD Protocol Lowspeed and Singlewire CAN	GM UART TP 2.0 TP 1.6 UART Echo Byte Protocol Honda Diag-H Protocol SAE J1939 SAE J1708 SAE-J2610 Fault-Tolerant CAN

# 2.3.3 THINKLINK



NO.	Name	Descriptions	
1	Display	3.95 inches, display working status	
2	Ethernet port	Connect to the Internet	
3	I/O data Port	Type B USB port is designed for building stable communication when performing ECU Programming or IMMO Key Programming	
4	Diagnostic port	16-pin OBDII port, connect to the OBD II extension cable	