THINKCAR
QC PASS

THINKCAR
LEADING TECH IN DIAGNOSTICS

THINKEASY Maintenance Tester
Quick Start Manual

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Model:TBTC3

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

❶ Product Overview

1.1 Product Profile

The THINKEASY Maintenance Tester defines a new scenario for vehicle maintenance and inspection. When a vehicle enters a repair shop, the maintenance tester assesses tire wear, tire pressure, the quality of lubricants and brake fluid, as well as cylinder and fluid pressures. It then generates a testing report to guide the owner in vehicle maintenance.

1.2 Components & Controls
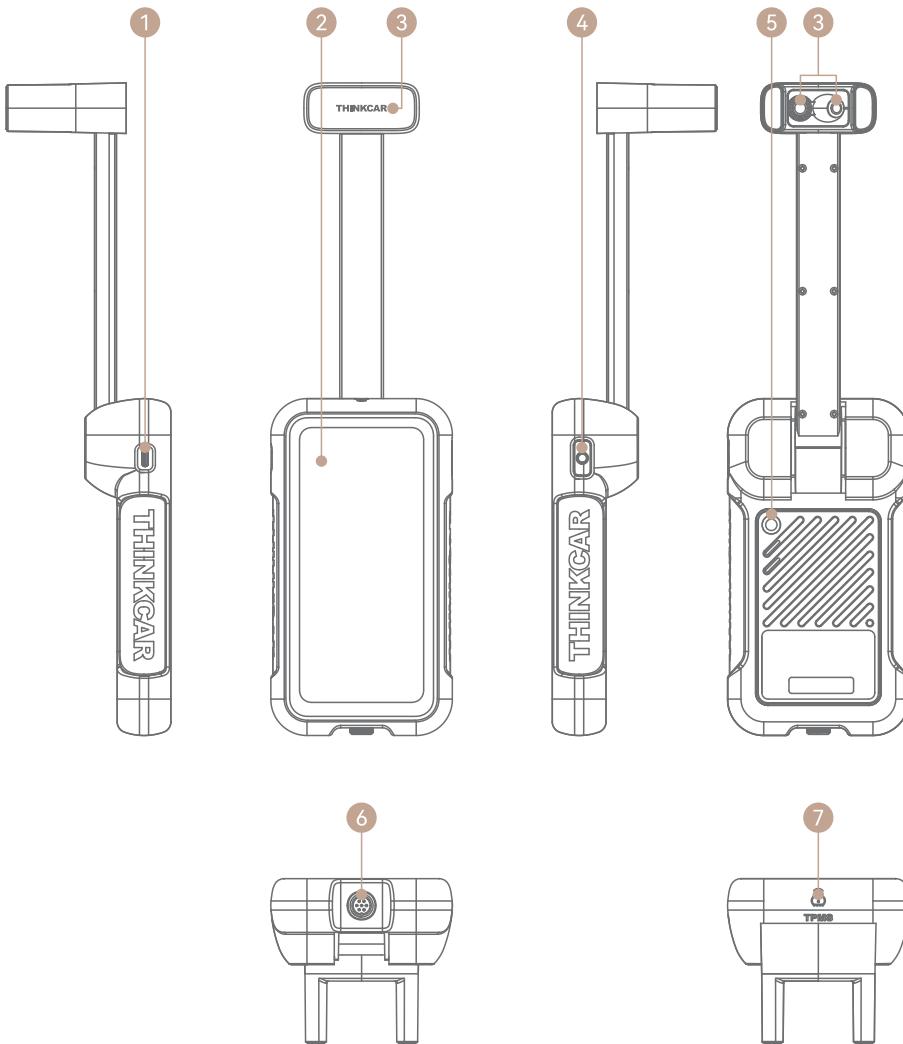
NO.	Name	Descriptions
1	Type-C Port	Used for charging devices and data communication.
2	Screen	6.54 inch and 720*1600 resolution screen.
3	Tire Pattern Detection Model	· Open the bracket and use the Tire Pattern Detection function. · The bracket supports 180° rotation. Please put away the Tire Pattern Detection module immediately when it is not in use
4	Power Button	· Short press to turn off or wake up the screen. · Long press for 3 seconds to turn on/off the device, and for 8 seconds to force to restart the device.
5	Rear camera	8 million pixel rear camera.
6	Sensor connection port	Special sensors for connecting oil and pressure detection.
7	Tire pressure sensing	Used for proximity recognition of tire pressure sensors.

Parameters

Host Device			
Operating System	Android 10	Processor	MT8365
Screen	6.54 inchs	Resolution	720*1600
Memory	4G	Storage	32G
Battery	3,150mAh/3.8V	Charging	5V/2.5A
Working Environment	14℉~122℉(-10℃~50℃)	Storage Environment	-4℉~140℉(-20℃~60℃)
VCI			
Working Voltage	9-18V	Workding Current	≤130mA
Working Environment	14℉~122℉(-10℃~50℃)	Storage Environment	-4℉~140℉(-20℃~60℃)

❷ Quick to Use Guide

2.1 First Time to Use

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

2.1.1 Turn on The Machine

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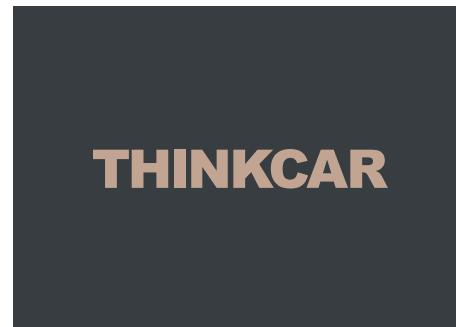
2.1.2 Language Setting

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

2.1.3 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".*

2.1.4 Choose Time Zone

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

2.1.5 Register term

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

2.1.6 Activate Device

At this point, a prompt dialog box will appear. Click [OK] to complete the device activation. Enter the main interface of the function.
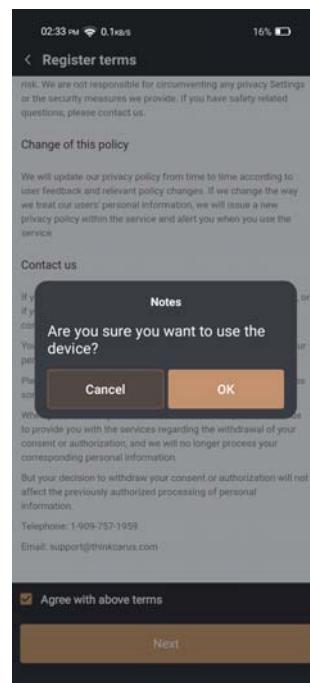
2.2 Usage Tips

2.2.1 Common Function Window

Swipe down from the top of the screen to open a pop-up window for commonly used functions.

Clicking on the WiFi icon can turn device WiFi on or off. Long press the WiFi icon or click on the WiFi name and location to redirect to the WiFi settings interface.

Turn Bluetooth on or off.

Click to rotate the screen 180 degrees.

Turn on or off the shortcut actions of screenshots.

Click to enter the camera function.

2.2.2 Quick Return Operation

On any interface, the operation to return to the previous interface can be triggered by swiping left/right.
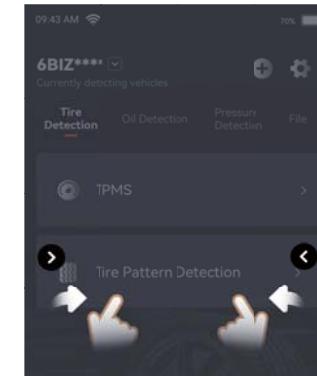
2.3 Charging

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.

2.4 VCI Connections

2.4.1 For OBDII standard vehicle

Connect the 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.
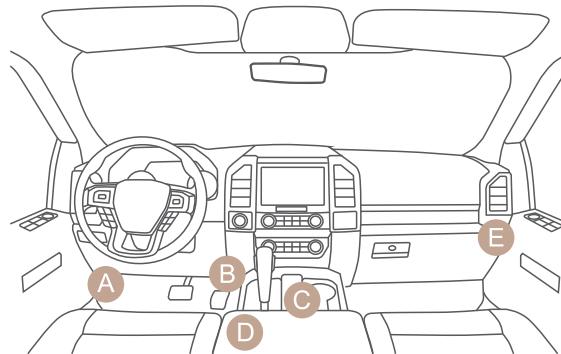
3 Usage Process

The usage process of The THINKEASY Maintenance Tester is as follows:

```
Add new customer
        ↓
Detecting customer vehicles
        ↓
Generate detection report
```
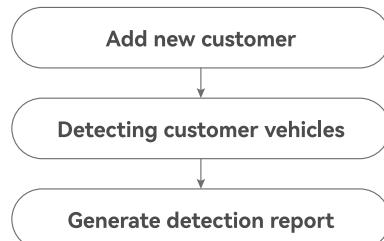
3.1 Add New Customer

When using this device for the first time, you can click on the ⊕ at the top of the homepage to add customers. Need to input customer's license plate, name, VIN, email, phone number and other information. You can add a new user in [User Info] → [Customer Management] → click [Add Customer].
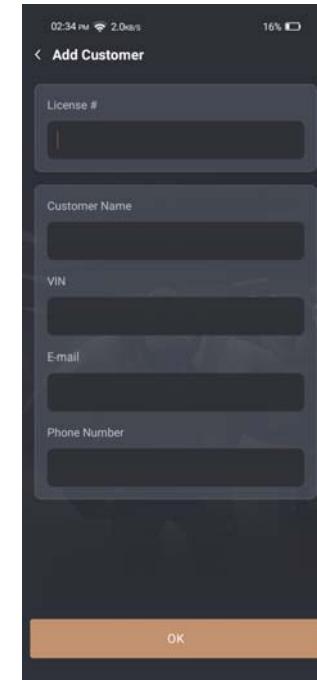
Users who have already been added can select from the top right corner of the device homepage Then start the testing service.
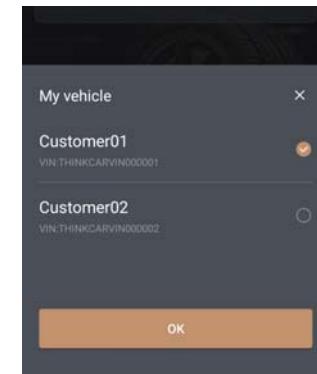
In [User Info] → [Customer Management], you can view and manage all customers. Support viewing, editing customer information, adding or removing customers, and other operations.
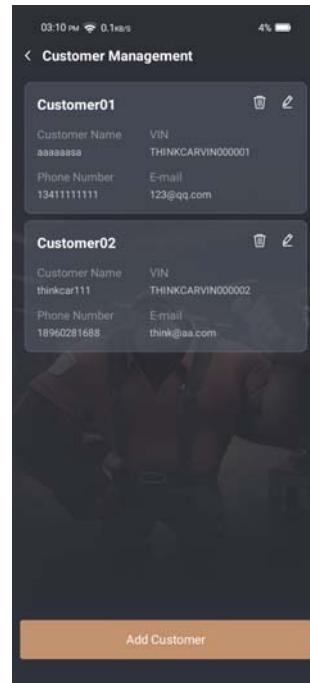
(⚠ : Customer information will be automatically displayed in diagnostic records and reports)

3.2 Detecting Customer Vehicles

After selecting the service users, choose the items that need to be inspected and inspect the vehicles one by one.
After each testing project is completed, a testing file will be generated, which can be viewed in [File].
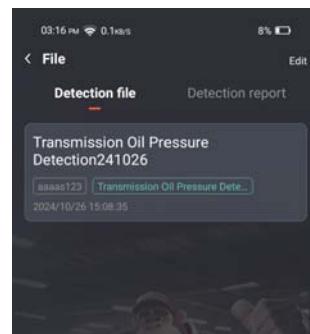
3.3 Generate Detection Report

In [File], you can select a combination of all diagnostic records to generate a combined detection report for the current customer.
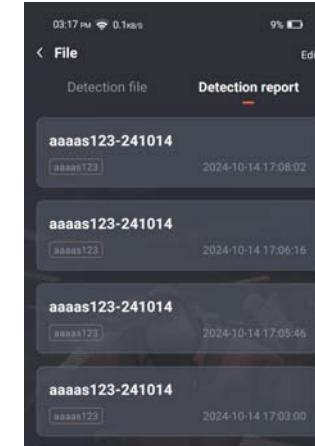
(⚠ : Only the testing records of the same customer can be combined, and each type of testing record can be selected once.)

④ Function

4.1 Tire Detection

4.1.1 TPMS

THINKEASY Maintenance Tester supports communication with THINKCAR TPMS Tool for 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.

4.1.2 Tire Pattern Detection

During long-term driving of car, the tread may experience varying degrees of wear and tear. If the wear is severe, accidents may occur while driving the car. THINKEASY Maintenance Tester supports the detection of tire tread health and timely identification of issues.
· Using laser measurement combined with image analysis technology, the accuracy reaches 0.1mm, and independently owns the algorithm invention patent.
· Provide professional tire wear and partial wear analysis report, including maintenance recommendations.
· Exquisite appearance design supports convenient measurement of tires at multiple positions without lifting or turning the steering wheel.
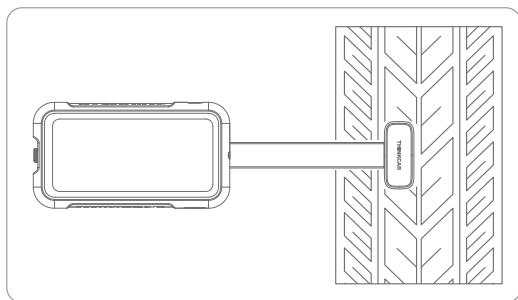
4.2 Oil Detection

4.2.1 Lubricating Oil Detection

By measuring the transmittance of lubricating oil in gasoline or diesel engines, impurities and pollutants can be reflected. Further diagnose the quality and performance of the engine oil. It can effectively prevent engine problems and malfunctions, ensuring the normal and efficient operation of the engine.

4.2.2 Brake Fluid Detection

To achieve high-precision detection of moisture content in brake oil and determine whether brake oil needs to be replaced. Widely applicable, supporting the testing of various brands of brake oils, capable of testing DOT-3, DOT-4, and DOT-5.1 types of brake oils. The design of using high-sensitivity sensor probes brings users a simpler and more convenient user experience. The outer layer of the hose is made of 304 stainless steel material, which is highly resistant to oil, oxidation, and corrosion, effectively extending the service life of the equipment.

(⚠️: To use oil detection, please connect the corresponding sensor to the device. Take out the oil sample to be tested and insert it into the sensor for testing.)

4.3 Pressure Detection

Support Transmission Oil Pressure Detection, GDI Fuel Pressure Detection, Fuel Pressure Detection, Oil Pressure Detection, Cylinder Pressure Detection. The use of high-precision digital sensing has achieved higher, more stable, and accurate measurement data, greatly improving detection efficiency. It has detection functions such as real-time value, maximum value, minimum value, difference value, average value, etc., which facilitate numerical analysis.

(⚠️: The adapter accessories used for different vehicle inspections may vary. Please search for the necessary connection accessories in the accessories section.)

4.4 File

Each detection record will generate a Detection file. Support selecting to view and generate composite reports. Multiple detection files support combining to generate detection reports.

(⚠️: Only the testing records of the same customer can be combined, and each type of testing record can be selected once.)

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5 User Info

5.1 Upgrade

Obtain updated information on device support software in Upgrade. In order to experience better features and upgrade services, we recommend that you periodically upgrade your software.

5.2 Firmware Fix

Support fixing VCI firmware and TPMS firmware. If there are abnormalities in the diagnostic or TPMS functions, you can try to repair them.

5.3 Language

Switch system language.

5.4 Wi-Fi

Set up WiFi on the tablet.

5.5 Remote Assistance

Support remote assistance when encountering usage issues.

5.6 Business Information

Used to fill in merchant information. The information will be automatically filled into the detection report.

5.7 Customer Management

Support viewing and managing all customers. Support operations such as viewing, editing customer information, adding or deleting customers. Customer information will be automatically displayed in diagnostic records and reports.

5.8 Album

Support viewing images.

5.9 Screen Recording

Support viewing screen recordings.

5.10 Settings

Includes [About], [Clear Data], [Rest Factory Settings].

6 Warranty Terms

This warranty applies only to users and distributors who purchase THINKCAR products through normal procedures. Provide free warranty within one year. THINKCAR warranty including electronic products for damages caused by defects in materials or workmanship. Damages to the equipment or components caused by abusing, unauthorized modification, using 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.

SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, THINKCAR TECH CO., LTD. declares that this equipment is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address:
https://h5.mythinkcar.com/update_app/productlist

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

IC Warning

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to thefollowing two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The device for operation in the band 5150–5250MHz is only for indoor use.

Cet appareil est conforme aux CNR exemptes de licence d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes :

(1) Ce dispositif ne peut causer d'interférences ; et

(2) Ce dispositif doit accepter toute interférence , y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

RF Exposure Information and Statement

The SAR limit of USA/Canada (FCC/IC) is 1.6 W/kg averaged over one gram of tissue. Device types: TBTC3 (FCC ID: 2AUARTBTC3, IC: 26415-TBTC3) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use the body is 1.404W/kg. This device was tested for typical body-worn operations with the back of the handset kept 0mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 0mm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

Le SAR limite pour les USA/Canada (FCC/IC) est de 1.6 W/kg moyen sur un seul gramme de tissu.La valeur maximale déclarée sous ce critère lors de la certification du produit pour l'utilisation du corps est de 1,404 W/kgOpérations typiques avec la partie arrière de la manoeuvre gardée à 0mm du corps, afin de maintenir la conformité avec les exigences du FCC relatives à l'exposition RF,L'utilisation des accessoires qui maintiennent une distance de séparation de 0mm entre le corps de l'utilisateur et le dos de la main.L'utilisation des accessoires qui ne satisfont pas à ces exigences peut ne pas être conforme aux exigences du FCC relatives à l'exposition à la RF.Et devrait être évité.

Body-worn Operation

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 0mm must be maintained between the user's body and the handset,including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.

Cet appareil a été testé pour un fonctionnement typique du corps sous pression, pour satisfaire aux exigences relatives à l'exposition RF, une distance minimale de séparation de 0mm doit être maintenue entre le corps de l'utilisateur et la poignée.Y compris les antennes, les bandes de fréquences et les satellites,Des accessoires similaires utilisés par cet appareil ne doivent pas contenir de composants métalliquesSeule la fourniture ou une antenne agrée.