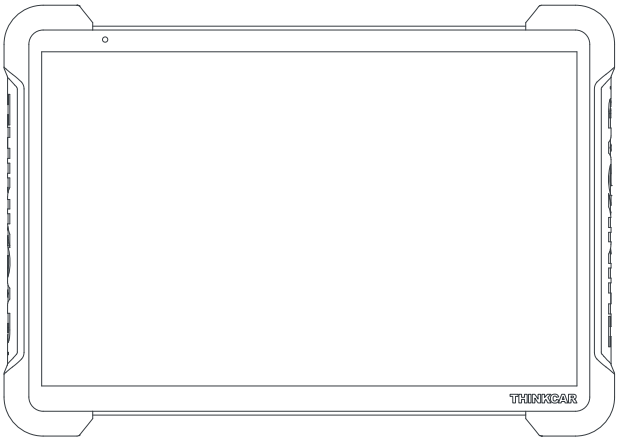
THINKCAR QC PASS

THINKCAR

LEADING TECH IN DIAGNOSTICS

AI Automotive Diagnostic Tool

TKX14



THINKTOOL 399

Quick Start Manual

THINKCAR

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.

1 Product Overview

1.1 Product Profile

THINKTOOL 399 Series is a high-end comprehensive diagnostic device independently developed by THINKCAR in 2024.

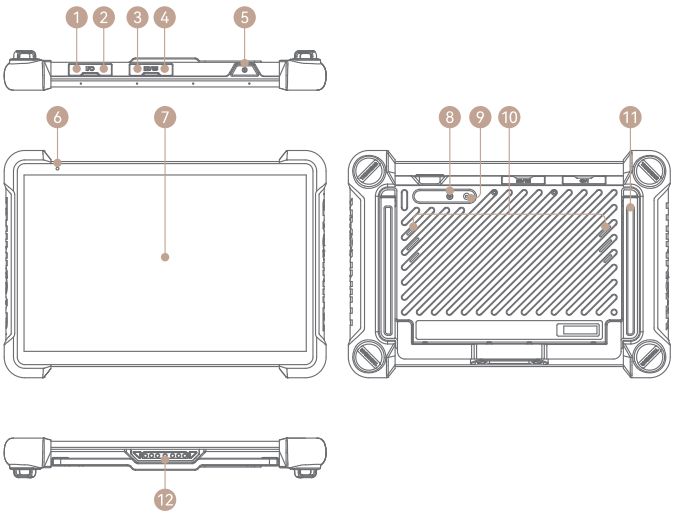
It adopts a new ID design style. The host is lightweight (the thinnest position is only 8.15mm), and the middle frame is made of titanium alloy material. The host reaches IP65 level and is suitable for various complex automotive maintenance environments.

It has the most advanced hardware configuration in the current industry. The host is equipped with Genio 700 high-performance processor, 14 inch 2.5K high-definition IPS screen, 8GB RAM & 256GB ROM, 8M front & 20M rear camera. VCI is equipped with a dual core 1.3GHz Renesas car level processor, 1GB RAM & 8GB ROM, with 6.54-inch and 720*1600 resolution high-definition IPS screen.

TCOS system deeply customized based on AI diagnostic models. Supports functions such as split screen, expandable intelligent modules, Dual Diagnosis, and VCI Display. It adopts a new UI design concept, with a stronger sense of interface hierarchy and higher smoothness.

1.2 Components & Controls

1.2.1 Host device -- THINKTOOL 399

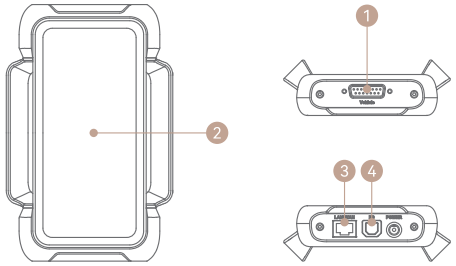


NO.	Name	Descriptions
1	USB Port	Communicate with other devices through the USB-A port.
2	Type-C Port	Can be used to charge 45W electronic devices.
3	Ethernet port	Provide network to devices through Ethernet cables.
4	HDMI-Mini Port	For screen projection.
5	Power Button	· Short press to turn off or wake up the screen. · Long press for 3 seconds to turn on/off the device, and for 8 seconds to force to restart the device.
6	Front camera	8 million pixel front camera.
7	Screen	14.0 inch and 2.5K resolution screen.
8	Rear camera	20 million pixel rear camera
9	LED light	Used for illumination and supplementary lighting.
10	Loudspeaker	Convert an audio signal into a corresponding sound.
11	Adjustable Stand	Able to keep the device standing on the desk, or hang the device on the steering wheel.
12	Charging Points	Connect to Charging Stand for charging the device.

Parameters

Operating System	TCOS	Processor	Genio 700
Screen	14.0 inches	Resolution	2560*1600
Size	344*243*42mm	Weight	2.196 kg
Memory	8G	Storage	256G
Wi-Fi	WiFi 6*1 & WiFi 5*1	Bluetooth	Bluetooth 5.1
Battery	22,400mAh/3.8V	Charging	15V/3A(PD 45W)
Working Environment	14°F~122°F(-10°C~50°C)	Storage Environment	-4°F~140°F(-20°C~60°C)

1.2.2 VCI -- THINKLINK PRO



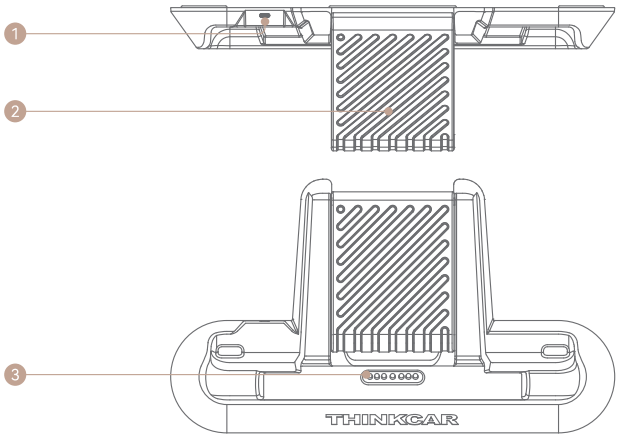
NO.	Name	Descriptions
1	Diagnostic port	Communicate with the vehicle through the Diagnostic Connection Cable.
2	Screen	6.54 inch and 720*1600 resolution screen.
3	Ethernet port	Provide network to devices through Ethernet cables.

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

Parameters

Operating System	LINUX	Working Voltage	9-36V
Screen	6.54 inches	Resolution	720*1600
Size	189x122x39mm	Weight	0.383 kg
Memory	1G	Storage	8G
Working Environment	14°F~122°F(-10°C~50°C)	Storage Environment	-4°F~140°F(-20°C~60°C)

1.2.3 Charging Stand



NO.	Name	Descriptions
1	Type-C Port	Can be used to charge 45W electronic devices.
2	Support plate	Open the support plate and place the host on the Charging Stand.
3	Charging Points	Connect to Charging Stand for charging the device.

Parameters

Size	408mm*235mm*39mm(Only itself) 408mm*235mm*228mm(Host on it)	Weight	1.422 kg
DC Input	15.0V ⎓ 3.0A	DC Output	15.0V ⎓ 3.0A

Tips: THINKTOOL 399 Series is equipped with a original 45W fast charger and charging cable. Please make sure to use the original charger and charging cable to power the Charging Stand!

2 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 Choose Time Zone

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

2.1.4 Connect Wi-Fi

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

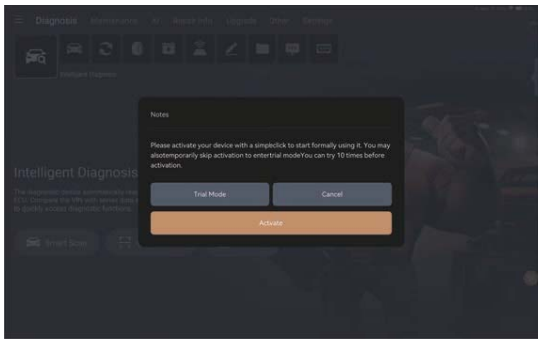
Tips: Wi-Fi must be set. If there is no Wi-Fi network is available nearby, you can try "Portable Mobile Hotspot".

2.1.5 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

If you are first time to use, you will be prompted whether to activate device. You can choose [Trial Mode], you can try Diagnosis function 10 times. If you choose [Activate], the device will be actived and using all function normal.



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.

Turn on or off the shortcut actions of screen recording.

Turn on or off the shortcut actions of screenshots.

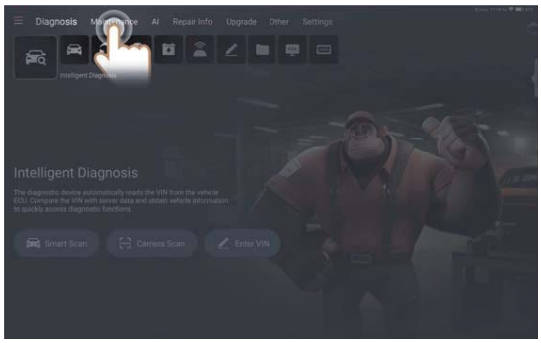
Click to enter the camera function.

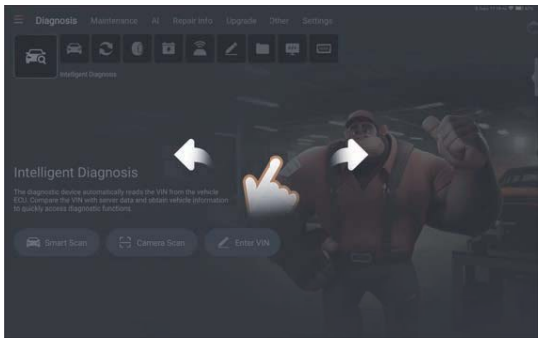
Click to turn the LED light on or off.

Click to switch the theme between DARK MODE and LIGHT MODE.

2.2.2 Function Switching

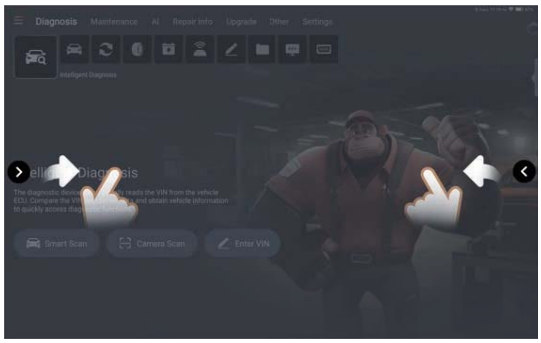
Click on the top menu to switch between functional interfaces. You can switch functions by swiping left/right, or clicking on the function icon. You can view the description of this function on the function interface.





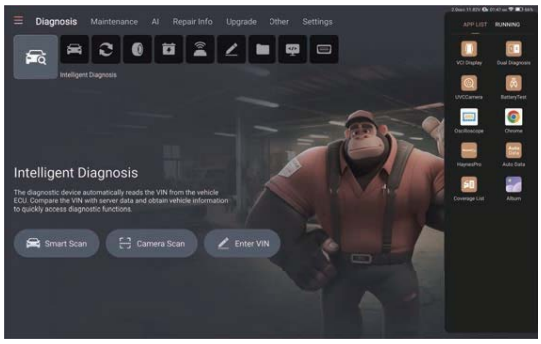
2.2.3 Quick Return Operation

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



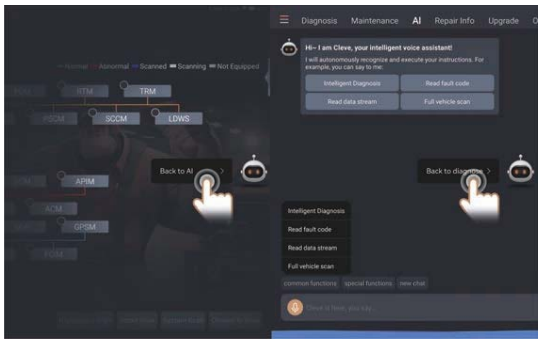
2.2.4 Split Screen Function

Click on the bookmark icon on the right side of the screen to open a sliding pop-up window. Please refer to section 9.1 for details.



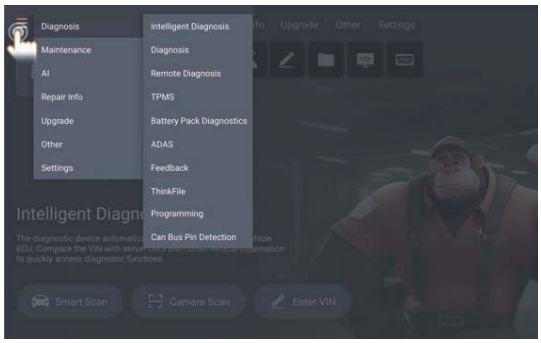
2.2.5 AI&Diagnostic Switch

On the right side of the screen, there is a robot named Cleve. Click on it to support quick switching between AI and diagnostic function interfaces.



2.2.6 Shortcut Menu

Click the button in the upper left corner of the homepage to quickly view all the function menus, and click to open the functions.



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.

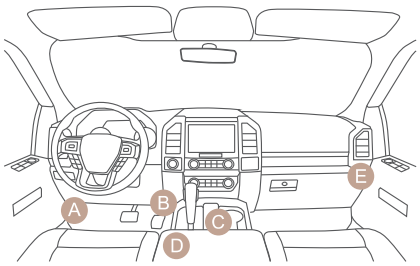
When it displays , the charging process has been completed and you shall disconnect the device.

Tips: THINKTOOL 399 Series is equipped with a original 45W fast charger and charging cable. Please make sure to use the original charger and charging cable for charging!

2.4 VCI Connections

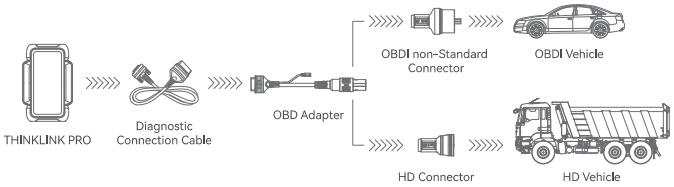
2.4.1 For OBDII standard vehicle

Connect the THINKLINK PRO 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.



2.4.2 For OBDI standard or HD vehicle

Please refer to the following diagram for detailed connection:



Tips: For the types of OBDI and HD connectors for , please refer to the Packing List.

3 Diagnosis

3.1 Intelligent Diagnosis

The Intelligent Diagnosis function compares the current vehicle's VIN information with the server's database. To obtain vehicle information for rapid diagnosis. Compared to the past, Intelligent Diagnosis solves the problem of slow speed and easy selection errors by only selecting menus based on the vehicle model level by level.
There are currently three ways to do this:

- **Smart Scan:** The diagnostic device is connected to the vehicle and reads the VIN code from the vehicle ECU.
- **Camera Scan:** Use a camera to take photos of the vehicle's VIN and automatically recognize it.

- **Enter VIN:** Manually enter the vehicle VIN.

3.2 Diagnosis

Support manual selection of vehicle brand and model for diagnosis.

3.2.1 Manually Selecting Vehicle

Enter the Diagnosis vehicle software interface and click to select the software icon for the vehicle that needs to be diagnosed. After successful communication with the vehicle, it is necessary to select information such as model, year, and displacement based on the vehicle information. The diagnostic selection menu may vary for different vehicle models.
After completion, you will enter the diagnostic function interface. THINKTOOL 399 Series supports diagnostic topology map functionality.

3.2.2 Diagnostic function

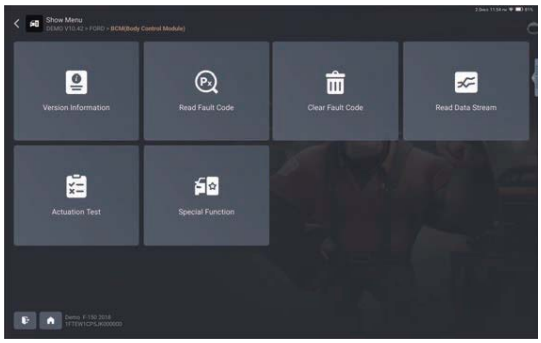
- **System Topology:** Display the distribution of lines in the automotive system in the form of a topology diagram. Can visually see the distribution of the system.
- **System List:** Display car systems in a list format.
- **Other function:** Special functions, programming, ADAS Calibration, and other functions can be accessed at the top. The functional menus of different car models may vary.
- **High speed Scan:** Scans all systems in a concurrent manner, greatly improving efficiency.

Tips: Currently, only some models support High speed Scan, and there is a probability that the system may be missed during the scan.

- **Smart Scan:** It enables you to quickly access all the system of the vehicle and generate a detailed report about vehicle health.
- **System Scan:** To check how many systems the car is equipped with.
- **Choose to Scan:** Choose the target automotive electronic control system to scan.

3.2.3 System and Function

· Click the ECU module, and the screen will enter the function selection interface.
· Click to select the function to perform.

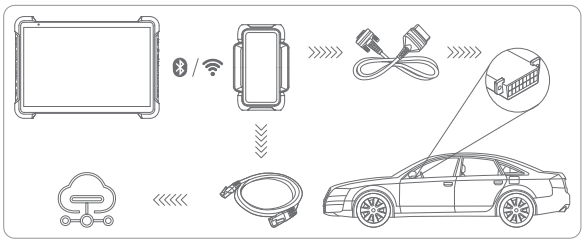


1) **Version Information:** Read the current version information of the automotive ECU.
2) **Read Fault Code:** Read the DTC in the ECU memory to help maintenance personnel locate the cause of the failure.
3) **Clear Fault Code:** The system will automatically delete the existing fault codes.
4) **Read 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.

3.3 Remote Diagnose

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.
The remote diagnostic process is as follows:

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 sugges tions and opinions.

3.4 TPMS

THINKTOOL 399 Series 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.

Tips: THINKCAR TPMS Tool is optional. If you need to purchase it, please contact your local dealer.

3.5 Battery Pack Diagnostics

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 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.

Tips: The THINKTOOL 399 Series is equipped with this feature for two years and the software is free of charge. It can be diagnosed through OBD interface. If you need to purchase other interface accessories, please contact the dealer to purchase.

3.6 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.

Tips: If you want to purchase ADAS calibration tool, please contact your dealer to purchase it.

3.7 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.

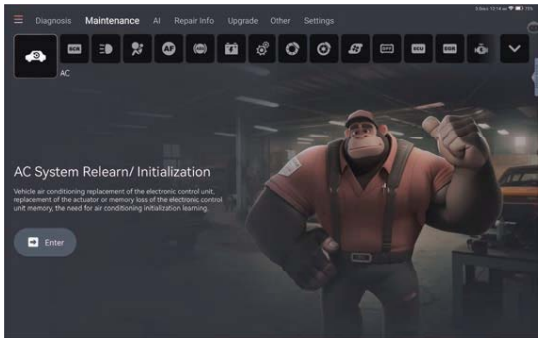
3.8 ThinkFile

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.

3.9 Can Bus Pin Detection

Pin Detection is used to detect the voltage and supported protocol types of the OBD-II diagnostic socket pins in vehicles. If the detection results do not match the actual vehicle configuration, there may be a fault with the corresponding pin.

4 Maintenance



Tips: You can click on to display all function icons.

THINKTOOL 399 Series currently supports 41 common maintenance functions:

- **AC: AC System Relearn/ Initialization**
  Vehicle air conditioning replacement of the electronic control unit, replacement of the actuator or memory loss of the electronic control unit memory, the need for air conditioning initialization learning.
- **ADBLUE: AdBlue Reset**
  Reset urea after the diesel exhaust treatment fluid is replaced or filled up.
- **AFS: Adaptive Front Lighting System Reset**
  Initialize the adaptive headlamp system.
- **SRS: Airbag Reset**
  Resets the airbag data to clear the airbag collision fault indicator.
- **A/F: Air/Fuel Ratio Reset**
  Set or learn Air/Fuel ratio parameters.
- **ABS: ABS Bleeding**
  Help exhaust the air.
- **BMS: Battery Matching**
  Register the battery after replacement.
- **GEARBOX: Gearbox Learning**
  Relearn Crank Position Sensors.
- **EPB: Brake-pad Reset**
  Help replace and reset the brake pad.
- **CLUTCH: Clutch Matching**
  Clutch pedal position or switch learning. This function learns the contact and position where the clutch starts to transmit engine torque after an electronic control unit replacement, transmission replacement/removal, or clutch replacement, and is applicable to

adaptive clutches.

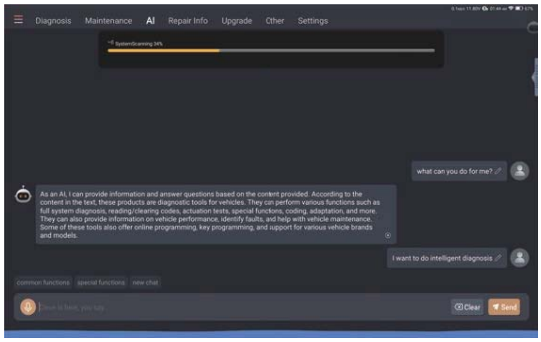
- **ECB: Electronic Water Pump Starting**
  Use this function to activate the electronic water pump before venting the cooling system.
- **DPF: DPF Regeneration**
  Specially works for diesel particulate filter system with DPF regeneration, DPF component replacement teach-in and DPF teach-in after replacing the engine control unit.
- **ECU: ECU Reset**
  The ECU reset service can be used to command the ECU to perform a self reset through diagnostic commands. There are various forms of reset, distinguished by sub-function parameters.
- **EGR: EGR Adaption**
  Learn the exhaust gas recirculation valve after being cleaned.
- **PB: Engine Power Balance Monitoring**
  During the power stroke of each cylinder, the power balance monitors the crankshaft acceleration to determine the relative power provided by each cylinder.
- **ETS: Electronics Throttle Adaption**
  Initialize the throttle actuators to the default state.
- **FRM: FRM Matching**
  When replacing the battery, the starter switch is not turned off, the battery terminals are overlapped, and some other non-professional battery operations are prone to cause damage to the FRM module. The general result is that the CPU data on the circuit board is lost, and there is a control failure of the lights, doors and windows. If the data is lost, then you just need to rewrite the exact same set of data into it to fix it.
- **GW: Gateway Module Data Calibration**
  After replacing the gateway control unit, there may be inconsistencies such as VIN, so calibration is required.
- **GEAR: Gear Learning**
  The crankshaft position sensor learns crankshaft gear machining tolerance and saves to the computer to more accurately diagnose engine misfires.
- **GPF: Gas Particulate Filter Regeneration**
  Particle traps will cause an increase in fuel consumption and a decrease in engine output after a long period of use, at which time the GPF needs to be replaced or regenerated.
- **HVB: High-Voltage Battery Diagnostics**
  Used for high voltage battery diagnostics and status information detection. Most hybrid vehicles have this feature.
- **ICCS: Intelligent Cruise Control System**
  Used for vehicle intelligent cruise module replacement and matching after repair.
- **IMMO: Anti-theft/Key Matching**
  Disable any lost keys and add new keys. ONLY for cars with easy IMMO system.
- **INJEC: Injector Coding**
  Write the new injector code into the car system for correct cylinder injection quantity.
- **LANGUAGE: Language**
  Change vehicle system language.
- **MAPS: Motor Angle Calibration**
  Deviations between the rotor position detected by the motor's angular position sensor and

the actual rotor field position require calibration of the motor angle.

- **NOX: NOx Sensor Reset**
  Reset catalytic converter learned value stored in ECU.
- **ODO: ODO Meter Reset**
  Copy, write or rewrite the kilometer value.
- **OIL: Oil Reset**
  Allows you to perform reset for a new calculation of engine oil life system once changed the oil, clear the oil light.
- **PROG: Immobilization Programming**
  Car anti-theft matching programmer for key matching/copying, car anti-theft chip reading/writing, car computer reading/writing and other functions that require reset operation after completion.
- **RLS: Rainfall Light Sensor Settings**
  The rain sensor is used to adjust the wiper frequency, and the light sensor adjusts the light intensity of the automatic headlights according to the ambient light and darkness. This function allows for adjustment of the initial parameters.
- **SAS: Steering Angle Reset**
  Reset the steering angle to zero to keep the car running straight.
- **SEAT: Seat Calibration**
  Calibrate the memory in replaced or repaired seats.
- **START/STOP: Stop/Start Settings**
  Set up the automatic start-stop function in ECU.
- **ROOF: Sunroof Initialization**
  Initialize the sunroof when locked off or closed.
- **SUS: Air Suspension Matching**
  Adjust the vehicle body height sensor for level calibration.
- **TPMS: TPMS Reset**
  Reset the tire pressure.
- **TRANSPORT: Transport Mode**
  Deactivate the transport mode.
- **TURBO: Turbocharging Matching**
  Learning after booster system component replacement, or resetting turbocharger learning value.
- **TYRE: Tyre Size Adjustment**
  Set the size parameters of the modified or replaced tire.
- **WINDOW: Windows Calibration**
  Perform door window matching to recover ECU initial memory.

Tips: The maintenance function software may increase with the software release, please pay attention to the software update instructions.

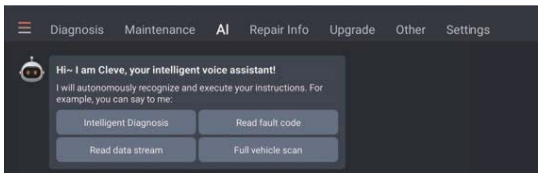
5 AI

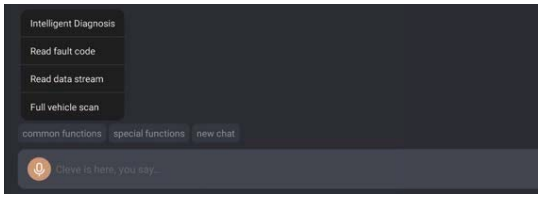


THINKCAR's unique AI Diagnostic Model. Improve the convenience and efficiency of the usage process in terms of diagnostic speed and user intent understanding.
The robot Cleve will accompany you to experience AI diagnostic functions.

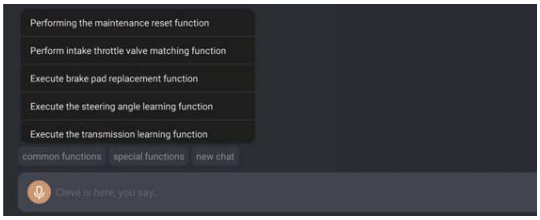
5.1 How to Use

When you enter the AI interface, Cleve will guide you to use common diagnostic functions. You can click to select the function you want to execute. You can also select commonly used functions by clicking on [common function].





Clicking on [special function] will display commonly used diagnostic special functions. Select the function you want to perform, and Cleve will guide you through its use.



Clicking on [new chat] will clearing the Q&A records, and re-identify your questions.
If the common functions don't have the options you want, it support telling Cleve through voice or text.

Click to start voice recording, and the recognized text will appear in the input box. After recording is complete, click [Send] to send. During the recording process, you can click on the input box at any time to proofread the recognized text. Similarly, you can also input text information directly into the input box and send it. Clicking [Clear] on the supports one click clearing of entered content.

When a message that has already been sent needs to be modified. You can long press [ ] to copy this message into the input box, and then edit it again.

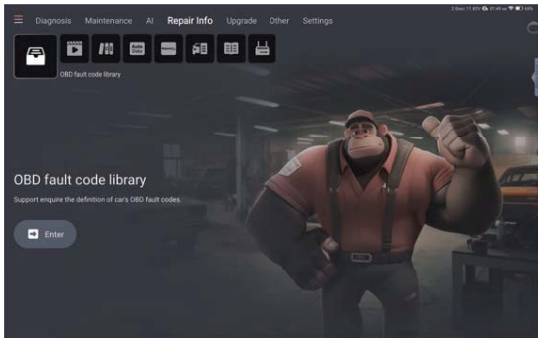
5.2 What can AI do?

The current AI combines THINKCAR's diagnostic model, mainly aimed at improving the convenience and efficiency of diagnostic functions.
Currently supporting over 40 mainstream brands including GM, FIAT, BMW, NISSAN, etc.
More brands are constantly learning in the THINKCAR AI diagnostic model.

5.3 The Development of Future AI

THINKCAR AI trains its intelligent service capabilities through continuous data and instance learning. In addition to continuously improving diagnostic services, AI will also extend more service capabilities in the future, such as car repair guidance, modification suggestions, intelligent push of maintenance services, and so on.
The THINKCAR AI diagnostic model will continue to be powerful, stay tuned!

6 Repair Info



6.1 OBD Fault Code Library

Support enquire the definition of car's OBD fault codes.

6.2 Video

Watch videos of the product(continuously updated).

6.3 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.

6.4 Auto Data

Enter the Autodata Library.

6.5 HaynesPro

THINKCAR has reached a cooperation agreement with HaynesPro. Support database queries on device or PC. If you need to subscribe, please contact the dealer to make a purchase.

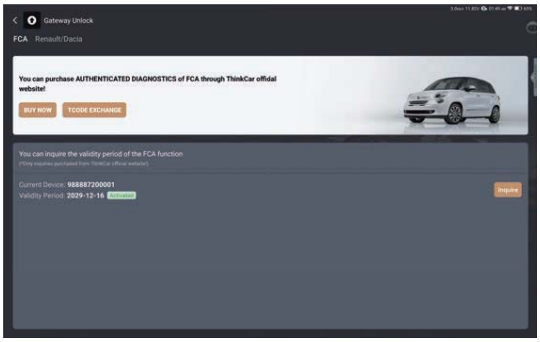
6.6 Coverage List

You can enter the Vehicle brand, model, year and other information to enquire the support functions and diagnostic system.

6.7 User Manual

You can find the E-Manual in here.

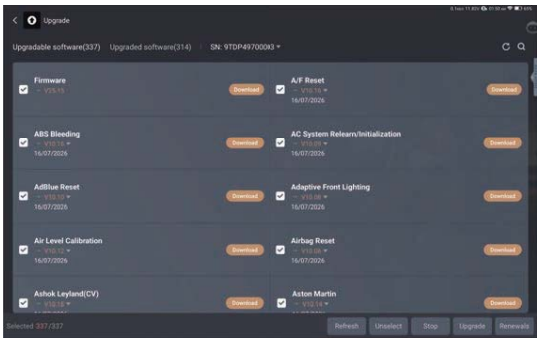
6.8 Gateway Unlock



For some car brands, gateway unlocking is required to perform more diagnostic functions. If you need to subscribe, please contact your dealer to purchase.

Tips: Currently, THINKCAR has completed integration with FCA Maserati, Renault/Dacia. The unlocking function of more brands in the future will also be centrally managed here. Please pay attention to software updates.

7 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.

- Upgradable software: A list of software that can be upgraded.
- Upgrade software: List of downloaded software.
- SN: Display the current SN number. If you have multiple SNs, you can click to switch.

Tips: During the upgrade process, please maintain a normal network connection. Upgrading many software may take some time, please wait. If you need to delete certain software, you can perform software deletion in [Settings] → [Diagnosis Settings] → [Diagnostic Software Clear].

- Renewals: If the software validity period of the device has expired, only the software version before the expiration can be downloaded. Please contact your dealer in a timely manner to purchase T-Code renewal software.

8 Other

8.1 Applications List

- **System Applications**
  Supports Album, File Manager, VCI Display, Dual Diagnosis and more.
- **External Applications**
  Supports Chrome, Teamview, and more.

8.2 Module

The modules supported by THINKTOOL 399 Series:

- **THINKPRINTER 2:** Thermal printer, can be used with the device through USB port. Quickly print diagnostic reports anytime and anywhere.
- **THINKTOOL Video Scope:** Ultra long custom coil pipeline design, flexible bending with durable materials, suitable for a variety of complex environments. Multiple uses with 3 kinds of special connectors(Hook, side view mirror, magnet). Supports 720P HD image. With 6auxiliary lights for brighter light, it is easy to use in dark environment.
- **THINK Scope Box:** Equipped with 4 channels 100MHz bandwidth, sampling rate reaches up to 1GS/s. Combined with the device screen to achieve full touch control operation.Special automatic maintenance and detection menu and high-definition waveform display make it more convenient to use.
- **THINK Battery Tester:** Detect the battery voltage, resistance service life, current and other battery information. Combined with the high-resolution screen of the device and high-precision data monitoring to make the detection efficiency greatly improved."
- **TKey 101:** THINKCAR TKey 101 key programmer is designed to program blank keys for different vehicle brands and models. It's widely used for locksmiths or car mechanics to read and write the program and do anti-theft matching.

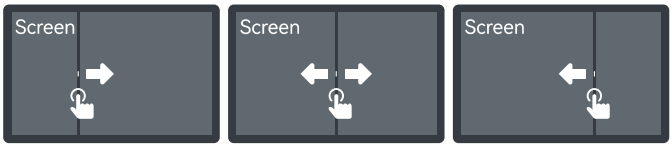
Tips: The supported module hardware is optional, please contact the dealer to purchase.

9 Special Function of TCOS

9.1 Split Screen

Click on the bookmark icon on the right side of the screen to open a sliding pop-up window. The [APP LIST] displays applications that support split screen operation. Click on the icon to open the application through split screen operation, and long press to open the application through full screen operation.
[RUNNING] Display the running application, click the icon to end its running status.

In split screen mode, the screen size can be adjusted by dragging the position at the junction of the left and right screens to swipe left and right. Supports adjusting the left and right screen sizes in three display ratios: 1:2, 1:1, and 2:1. When dragged to the rightmost position, the right screen closes and returns to full screen display.



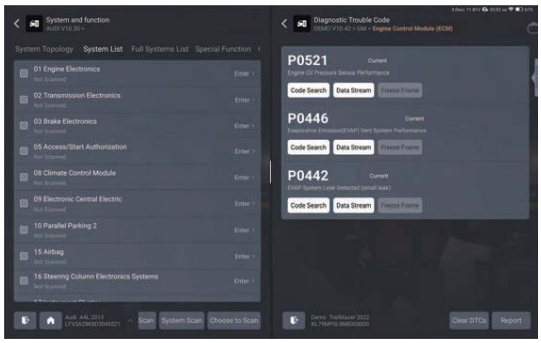
【1:2】 【1:1】 【2:1】

9.2 Dual Diagnosis

THINKTOOL 399 Series supports Dual Diagnosis functionality. The Dual Diagnosis function supports simultaneous diagnosis of two cars, greatly improving work efficiency in automotive repair scenarios.

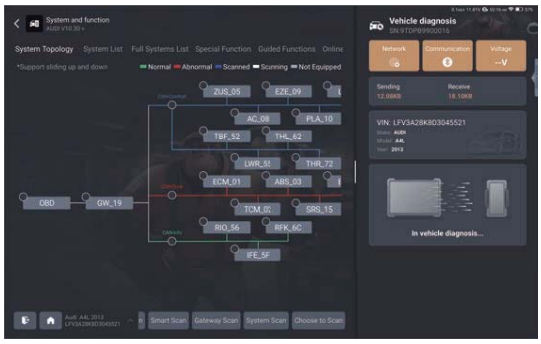
You can contact the dealer to purchase a second VCI. In [Setting] → [Diagnosis Setting] → [VCI], click [Add Device] to bind it.

In the bookmark on the right, click [Duai Diagnosis] to open the second screen. After selecting the SN number, click [Quick Access] to select the vehicle model and enter the diagnosis of the second VCI.

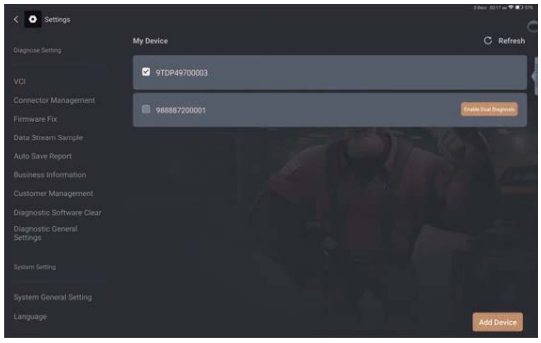


9.3 VCI Display

THINKTOOL 399 Series supports VCI Display function. VCI Display function, supporting real-time viewing of THINKLINK PRO's working status through split screen function on the device. Solved the problem of frequently checking the VCI connection status in the vehicle during daily diagnostic work.
In the bookmark on the right, click [VCI Display] to activate the function.



10 Setting



10.1 Diagnose Setting

10.1.1 VCI

Support viewing bound device information.

10.1.2 Connector Management

Support switching VCI communication methods.

10.1.3 Firmware Fix

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

10.1.4 Data Stream Sample

This feature allows you to manage the recorded data stream sample files.

10.1.5 Auto Save Report

The Auto Save Report function can save user information in the diagnostic report in advance. After the function is enabled, it can generate car diagnostic reports faster and avoid repetitive filling actions.

10.1.6 Business Information

Add the information of the workshop, to which the tool belongs, and it will be displayed to customers in the diagnostic report.

10.1.7 Customer Management

Manage information of all customers, who did vehicle diagnostic on this equipment and display in turn.

10.1.8 Diagnostic Software Clear

This option can clear some cache files and free up the storage space.

10.1.9 Diagnostic General Settings

Support diagnostic unit switching, enabling or disabling Sline Update function, and adjusting Font Size.

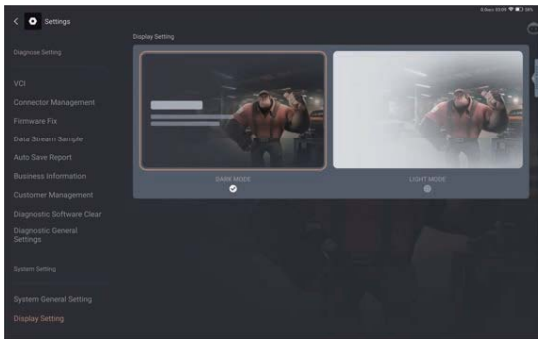
10.2 System Setting

10.2.1 System General Setting

Support switching between diagnostic Time Format, operating Clear Data, and performing Restore Factory Settings.

10.2.2 Display Setting

Switch the theme between DARK MODE and LIGHT MODE.



10.2.3 Language

Switch system language.

10.2.4 Time Zone

Switch system time zone.

10.2.5 Wi-Fi

Set up WiFi on the tablet.

10.2.6 About

View current device information, detect upgrades, screen idle time, view privacy agreements, etc.

10.2.7 Submit Result

If you have problems during use the device, you can use this function to upload app logs. We will help you solve problem.

10.2.8 User Information

Support viewing or modifying current user information.

11 FAQ

Q: Can I use the same type of charger to charge the tablet?

A: No. please use original 45w charger and changing cable. Our company is not responsible for any damage and economic loss caused by using charger, which is not provided by THINKTOOL 399 Series.

Q: How to save power?

A: Please turn off the screen while the equipment isn't used, set a shorter standby time, and decrease the brightness of the screen.

Q: The tablet cannot be turned on after charging

Passible reasons	Solution
The equipment has not been used for a long time, and the battery loss	Charge it for more than 2 hours before turning it on
Problem of Charger	If there is a quality problem, please contact the dealer or after-sales service of THINKCAR.

Q: What should I do if the device overheats during use?

A: THINKTOOL 399 Series. It is recommended to use it in a cool indoor environment. If exposed to outdoor environments or prolonged exposure to sunlight, overheating may occur. TCOS system will automatically adjust power consumption. Please stop using and turn off the screen or shut down the device. Place the device in a cool place until the temperature returns to normal.

Q: There is no power in the VCI dongle after connecting to the vehicle's DLC port.

Passible reasons	Solution
Poor contact of vehicle's DLC port	Plug out the VCI dongle, and then plug it in again
Too low voltage of the vehicle battery	· Recharge the vehicle battery. · Replace the vehicle battery if it is damaged.
Damage of the VCI dongle	Contact THINKCAR after-sales service to get support

Q: There is no power in the VCI dongle after connecting to the vehicle's DLC port.

Passible reasons	Solution
Poor contact of the VCI dongle	· Plug out the VCI dongle, and then plug it in again · Perform the VCI Bluetooth pairing again
The firmware is damaged	Enter the settings and tap "Fix Connector Firmware/System" to fix the firmware

Q: How about non-standard OBDII VCI connector

A: There is a several non-standard adapters in the box. Follow the instructions to connect.

Q: Communication error with vehicle ECU?

A: Please confirm:
Whether the VCI is correctly connected and whether the vehicle ignition switch is ON.
If all are normal, send vehicle production year, model and VIN number by Feedback feature.

Q: Failed to enter into vehicle ECU system?

A: Please confirm:
Whether the vehicle is equipped with the system,whether the VCI is correctly connected, and whether the vehicle ignition switch is ON.

Q: What to do if the connector is missing

A: Contact THINKCAR after-sales service or regional sales.

Q: The downloaded diagnostic software is inconsistent with the serial number

A: There are several connectors registered under the equipment account, and the serial number of right connector has not been selected.
Enter the settings-[VCI] and select the right serial number of connector. Delete the software with problems, then enter the upgrade center to download the diagnostic software again.

12 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 Statement

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

FCC SAR Information Statement

Your AI Automotive Diagnostic Tool is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for AI Automotive Diagnostic Tool employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. * Tests for SAR are conducted with the AI Automotive Diagnostic Tool transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the AI Automotive Diagnostic Tool while operating can be well below the maximum value. This is because the AI Automotive Diagnostic Tool is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a AI Automotive Diagnostic Tool model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this AI Automotive Diagnostic Tool when worn on the body, as described in this user guide, is 0.55 W/Kg (Body-worn measurements differ among AI Automotive Diagnostic Tool models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various AI Automotive Diagnostic Tool and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this AI Automotive Diagnostic Tool with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this AI Automotive Diagnostic Tool is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/ oet/ fccid after searching on
FCC ID: 2AUARTKX14 Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at http://www.wow-com.com. * In the United States and Canada, the SAR limit for AI Automotive Diagnostic Tool used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. The SAR test distance is 0mm.
5150-5250MHz Indoor use only

IC Statement

This device complies with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following 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 term "IC: " before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.

Cet appareil est conforme aux normes RSS d'Innovation, Sciences et Développement économique Canada en matière d'exemption de licence. Son fonctionnement est assujetti aux deux conditions suivantes :(1) l'appareil ne doit pas produire de brouillage,

et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

IC SAR Information Statement

Your AI Automotive Diagnostic Tool is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Innovation, Science and Economic Development Canada of the Canada Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for AI Automotive Diagnostic Tool employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the ISED is 1.6 W/kg. * Tests for SAR are conducted with the AI Automotive Diagnostic Tool transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the AI Automotive Diagnostic Tool while operating can be well below the maximum value. This is because the AI Automotive Diagnostic Tool is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a AI Automotive Diagnostic Tool is available for sale to the public, it must be tested and certified to the ISED that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the ISED for each model. The highest SAR value for this AI Automotive Diagnostic Tool when worn on the body, as described in this user guide, is 0.55W/Kg (Body-worn measurements differ among AI Automotive Diagnostic Tool, depending upon available accessories and ISED requirements). While there may be differences between the SAR levels of various AI Automotive Diagnostic Tool and at various positions, they all meet the government requirement for safe exposure. The ISED has granted an Equipment Authorization for this AI Automotive Diagnostic Tool with all reported SAR levels evaluated as in compliance with the ISED RF exposure guidelines. SAR information on this AI Automotive Diagnostic Tool is on file with the FCC and can be found under the Display Grant section of https://sms-sgs.ic.gc.ca/ after searching on IC: 26415-TKX14 Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at http://www.wow-com.com. * In the United States and Canada, the SAR limit for AI Automotive Diagnostic Tool used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

The SAR test distance is 0mm.

5150-5250MHz Indoor use only

Déclaration d'information sur le SAR d'ic

Votre outil de Diagnostic automobile AI est un émetteur et un récepteur radio. Il est conçu et fabriqué pour ne pas dépasser les limites d'émissions d'exposition à l'énergie des radiofréquences (RF) établies par Innovation, sciences et développement économique Canada du gouvernement du Canada. Ces limites font partie de lignes directrices exhaustives et établissent les niveaux autorisés d'énergie RF pour la population générale. Les lignes directrices sont fondées sur des normes élaborées par des organismes scientifiques indépendants à la suite d'une évaluation périodique et approfondie d'études scientifiques. Les normes comprennent une marge de sécurité importante conçue pour assurer la sécurité de toutes les personnes, quels que soient leur âge et leur état de santé. La norme d'exposition pour l'outil de Diagnostic automobile de l'ia utilise une unité de mesure connue sous le nom de débit d'absorption spécifique, ou das. La limite de das fixée par l'ed est de 1,6 W/kg. * les Tests de SAR sont effectués avec l'outil de Diagnostic automobile d'ai transmettant à son niveau de puissance certifié le plus élevé dans toutes les bandes de fréquence testées. Bien que le das soit déterminé au niveau de puissance certifié le plus élevé, le niveau de SAR réel de l'outil de Diagnostic automobile de l'ia peut être bien inférieur à la valeur maximale lorsqu'il fonctionne. En effet, l'outil de Diagnostic automobile d'ia est conçu pour fonctionner à plusieurs niveaux de puissance de manière à n'utiliser que la puissance requise pour atteindre le réseau. En général, plus vous êtes proche d'une antenne de station de base sans fil, plus la puissance de sortie est faible. Avant qu'un outil de Diagnostic automobile d'ia soit disponible à la vente au public, il doit être testé et certifié à l'ised qu'il ne dépasse pas la limite établie par l'exigence adoptée par le gouvernement pour l'exposition sûre. Les tests sont effectués dans des positions et des emplacements (par exemple, au niveau de l'oreille et portés sur le corps) comme l'exige l'ise pour chaque modèle. La valeur de das la plus élevée pour cet outil de Diagnostic automobile AI lorsqu'il est porté sur le corps, comme décrit dans ce guide de l'utilisateur, est de 0.55 W/Kg (les mesures portant sur le corps diffèrent entre les outils de Diagnostic automobile AI, en fonction des accessoires disponibles et des exigences d'ised). Bien qu'il puisse y avoir des différences entre les niveaux de das de divers outils de Diagnostic automobile d'ia et à divers postes, ils répondent tous aux exigences du gouvernement en matière d'exposition sécuritaire. L'ise a accordé une autorisation d'équipement pour cet outil de Diagnostic automobile d'ia avec tous les niveaux de das signalés évalués comme étant conformes aux lignes directrices de l'ise sur l'exposition aux RF. Les renseignements sur le das sur cet outil de Diagnostic automobile d'ia sont dans les dossiers de la FCC et peuvent être trouvés dans la section de la subvention d'affichage de https://sms-sgs.ic.gc.ca/ après avoir effectué une recherche sur IC: 26415-TKX14 des renseignements supplémentaires sur les taux d'absorption spécifiques (das) peuvent être trouvés sur le site web de l'association de l'industrie des télécommunications cellulaires (CTIA) à http://www.wow-com.com. * aux États-Unis et au Canada, la limite de das pour l'outil de Diagnostic automobile de l'ia utilisé par le public est de 1,6 watts/kg (W/kg) en moyenne sur un gramme de tissu. La norme comporte une marge de sécurité importante pour assurer une protection supplémentaire au public et pour tenir compte des variations éventuelles des mesures.

La distance d'essai SAR est 0mm.

5150-5250 MHz Utilisation en intérieur uniquement