TOPDON

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MADE IN CHINA

TOPDON

Phoenix Pro

Diagnostic Tablet

USER MANUAL

Content

EN

Welcome

Thank you for purchasing TOPDON Complete Diagnostic System Phoenix Pro. Please patiently read and understand this User Manual before operating this product.

About

TOPDON Phoenix Pro is an evolutionary smart solution for professional automotive diagnostics. This Android OS-based, tablet-style scanner incorporates the best possible coverage of OE-level diagnostics with multitasking capable software. Using the powerful 8-core 2.0GHz processor and a 12 inch HD capacitive touch screen etc., it delivers quick and complete diagnostic functionalities which technicians need to diagnose, research and repair vehicles in one solution.

Package List

- Phoenix Pro Tablet
- VCI
- OBD II Extension Cable
- OBD I Adaptor
- Cigarette Lighter Cable
- Battery Clamps Cable
- Power Adaptors
- USB Cable
- Password Envelope
- Non-16pin Adaptor Cable Kit

Notice

This Product Manual is subject to change without written notice.
Read the instruction carefully and use the unit properly before operating. Fail to do so may cause damage and/or personal injury, which will void the product warranty.

Compatibility

TOPDON Phoenix Pro is compatible with following protocols:

- ISO 9142-2
- ISO 14230-2
- ISO 15765-4
- K/L-Line
- Flashing Code
- SAE-J1850 VPW
- SAE-J1850 PWM
- CAN ISO 11898
- Highspeed
- Middlespeed
- Lowspeed and Singlewire CAN
- GM UART
- UART Echo Byte Protocol
- Honda Diag-H Protocol
- TP 2.0
- TP 1.6
- SAE J1939
- SAE J1708
- Fault-Tolerant CAN

Features

The Phoenix Pro system includes two main components:

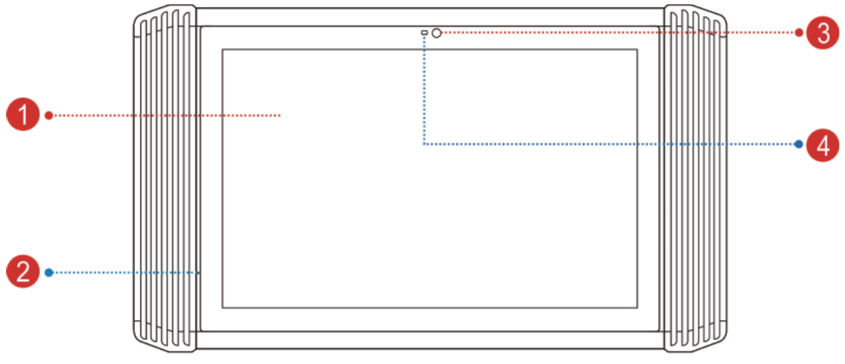
- Phoenix Pro tablet - the central processor and monitor for the system.

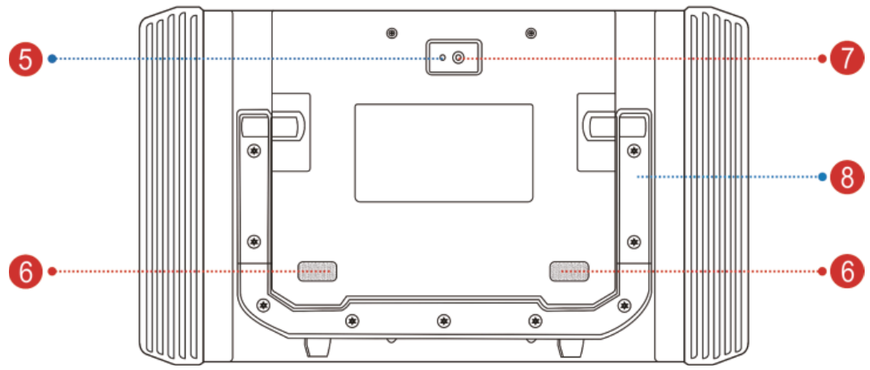
- VCI - the device for accessing vehicle data via Bluetooth communication or USB connection.

* **Note: Phoenix Pro uses the USB communication as the default priority.**

1. Phoenix Pro Tablet

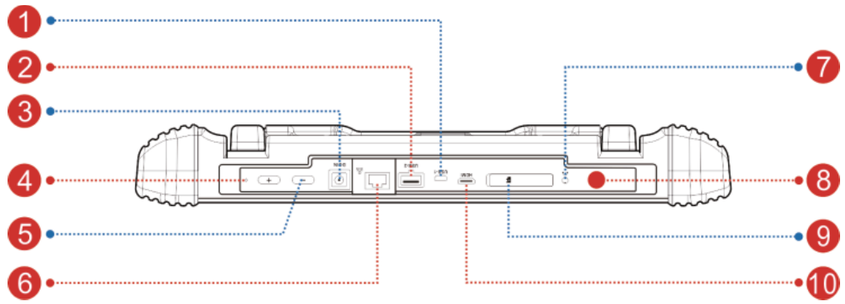
1.1 Front & Rear Views





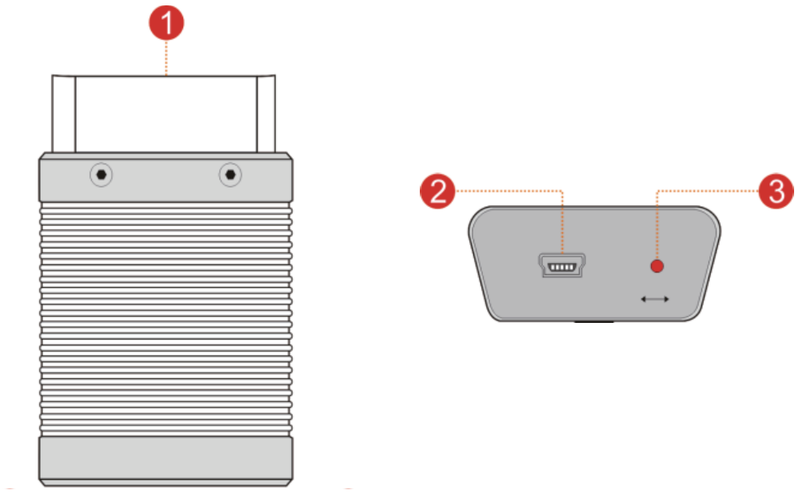
No.	Name	Descriptions
1	12-inch Touchscreen	Show test results.
2	Microphone	Convert voice into an electrical signal.
3	Front Camera	Snapshot the view ahead the screen
4	Ambient Light Sensor	Sense the amount of ambient light present.
5	Camera Flash	Produce a flash of artificial light.
6	Speaker	Convert an electrical audio signal into a corresponding sound.
7	Rear Camera	Snap the view in the front of the tablet.
8	Adjustable Stand	Keep the tablet standing at desk, or use it to hang the tablet on the driving wheel.

1.2 Top View



No.	Name	Descriptions
1	Charging Port	Reserved for Micro USB cable.
2	USB2 Port	Connect to VCI, USB devices or add-on modules (Scopebox, Sensorbox or Batterybox).
3	DC-IN Interface	Connect to the included power adaptor.
4	Reset Switch	Reset the tablet.
5	Volume +/- Key	Adjust the volume.
6	Ethernet Port	Connect to the crossover cable for wired network.
7	Earphone Port	Connect to the earphones
8	Power/Screen Lock Key	In Off mode, hold it for 3 seconds to turn the tablet on. In On mode: • Hold it for 3 seconds to turn the tablet off. • Hold it for 8 seconds to perform forced shutdown. • Press it to activate the LCD if the LCD is off. • Press it to turn off the LCD if the LCD is on.
9	Memory Card Slot	Insert a memory card for memory extension.
10	HDMI Port	Connect to an external projector or monitor with HDMI interface.

2. VCI Connector (for 12V cars only)



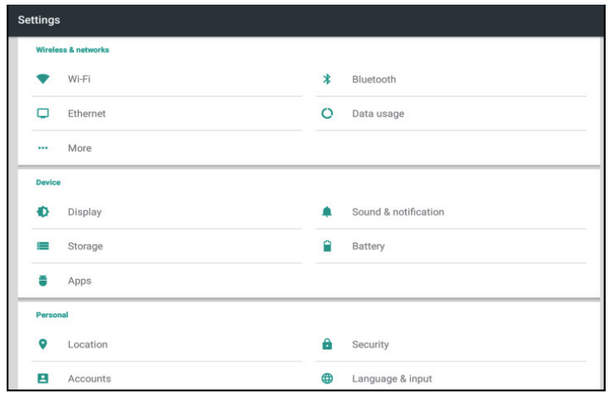
No.	Name	Descriptions
1	OBD-16 Diagnostic Connector	Connect to the vehicle's OBDII DLC port.
2	Mini USB Port	Connect to the tablet via the USB cable.
3	Mode Indicators	• GREEN: The VCI is connected to the Phoenix Pro via the USB cable. • BLUE: The VCI is connected to the Phoenix Pro via Bluetooth. • RED: The VCI is plugged into the vehicle's DLC port.

Operation Introduction

1. Network Setting

1.1 Wi-Fi Connection

TOPDON Phoenix Pro adopts built-in Wi-Fi module for wireless network.
On the android system home screen, tap **[Settings]** -> **[Wi-Fi].**



Select the desired Wi-Fi connection until "connected".

* **Note: The tablet will automatically connect to the available previously linked network.**

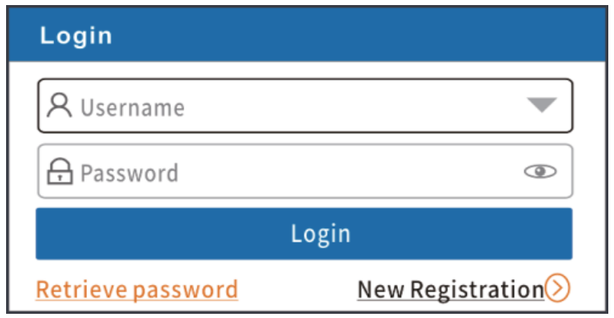
1.2 Wired Connection

Connect the Ethernet cable to Phoenix Pro directly.
On the android system home screen, tap **[Settings]** -> **[Ethernet]**, and slide the switch to on.

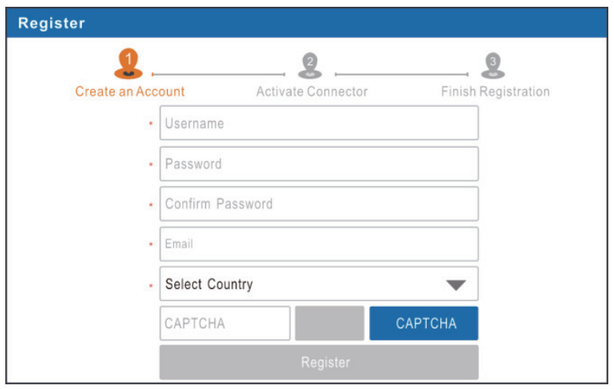
2. Registration

For initial use, the registration is the necessary first procedure to activate the Phoenix Pro.
Tap **[Login]** on the upper right corner of the screen:

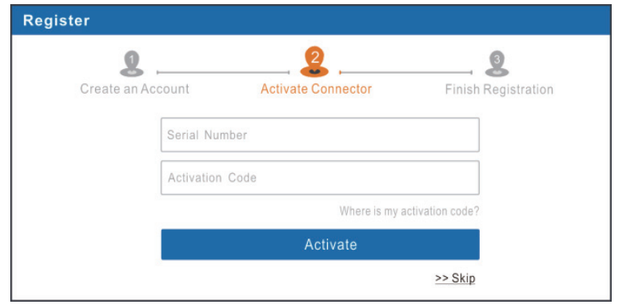
Tap **[New Registration]**:



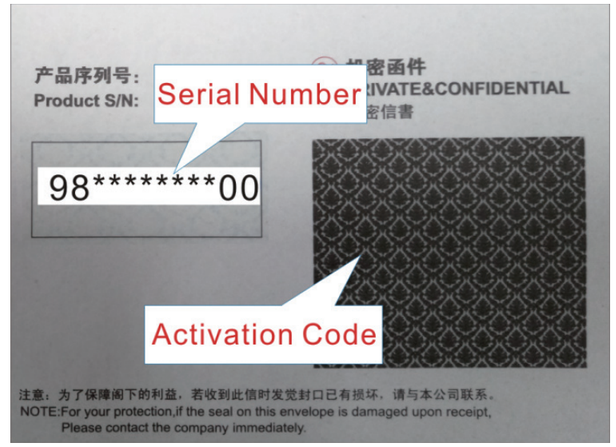
Input the information needed, and tap **[Register]**:



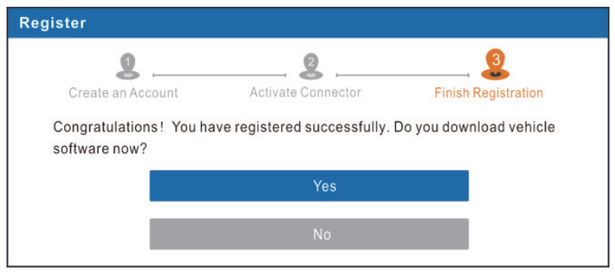
The following screen will appear:



⋆ **Note: The Serial Number and Activation Code can be found in the password envelope.**



Input the Serial Number and Activation Code, and Tap **[Activate]** to finish your registration.



To download the diagnostic software, tap **[Yes]** to enter the download page.
Tap **[No]** to ignore.

***Note:**

- **The Phoenix Pro will automatically store the username and password which are correctly entered before. You will not need to input the account information manually next time.**
- **If you forgot the password, tap [Retrieve password] and then follow on-screen instructions to set a new password.**

3. Upgrade

All software is updated periodically.

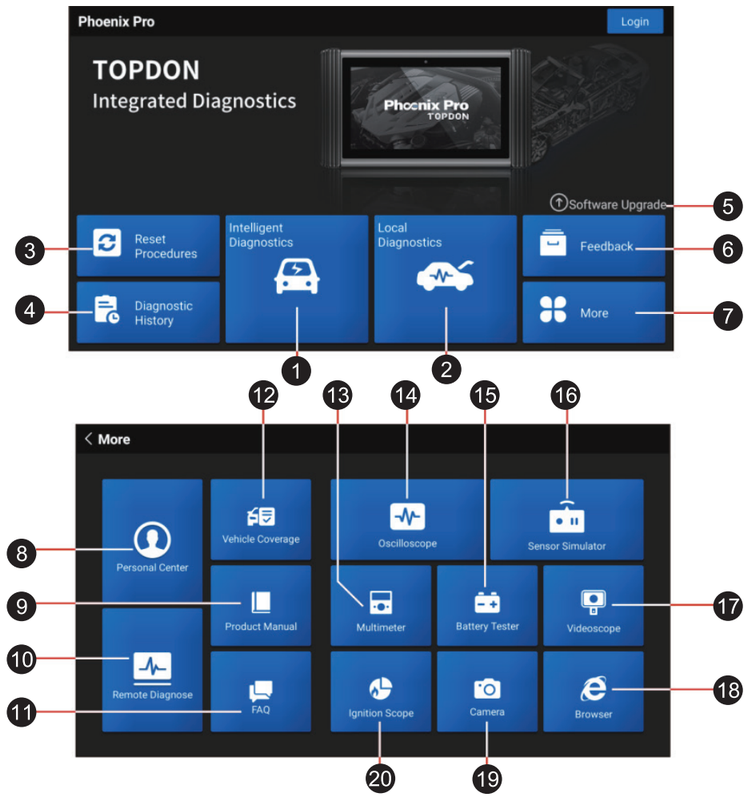
It is recommended to check regularly for updates and install the latest software version for the best service, functions and experience.

Tap **[Software Upgrade]** in the main menu.

***Note: Make sure the Wi-Fi / Wired Connection is strong and stable while upgrading.**

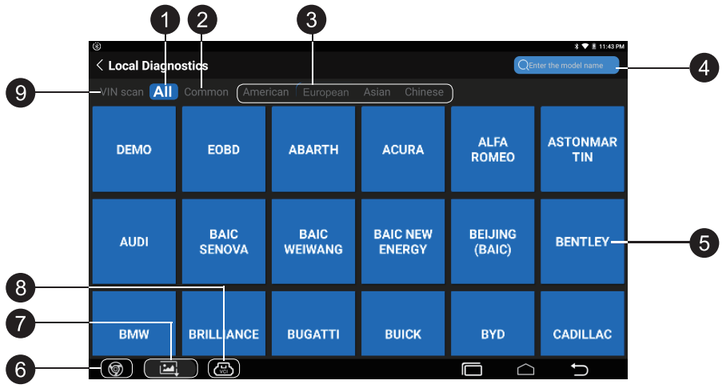
4. Interface

4.1 Main Menu



No.	Name	Descriptions
1	Intelligent Diagnostics	• Obtain vehicle data from the cloud server to perform quick test via reading VIN, to avoid various defects resulting from step-by-step menu selection. • Check the historical repair records online.
2	Local Diagnostics	Diagnose a vehicle manually.
3	Reset Procedures	Perform commonly used repair & maintenance services.
4	Diagnostic History	• Access the diagnostic reports from the previously tested vehicles. • Resume the previous operation without starting from scratch.
5	Software Upgrade	• Update vehicle diagnostic software and APK. • If new software is detected, a numeric indicator will appear on the logo.
6	Feedback	Feedback the recent 20 diagnostic logs for issue analysis.
7	More	The following functions are included: Personal Center, Remote Diagnose, Vehicle Coverage, Repair Info, Product Manual, Oscilloscope, Sensor Simulator, Multimeter, Battery Tester, Videoscope, Ignition Scope, Camera and FAQ.
8	Personal Center	To manage my VCI, my reports, change password, configure wireless Wi-Fi printer, configure system settings and logout etc. See Chapter 8.
9	Product Manual	Built-in product manual for users to check at any time.
10	Remote Diagnose	This option aims to help repair shops or technicians launch instant messaging and remote diagnosis, making the repair job getting fixed faster.
11	FAQ	Summarizes some frequently asked problems and specific troubleshooting solutions when operating the product.
12	Vehicle Coverage	To view all the vehicle models that the Phoenix Pro covers.
13	Multimeter	To measure physical parameters such as voltage, resistance, frequency etc.
14	Oscilloscope	To determine vehicle electrical equipment and circuit trouble. See Chapter 12.
15	Battery Tester	To test whether vehicle's battery is good or not.
16	Sensor Simulator	To diagnose/simulate vehicle ECU sensor trouble.
17	Videoscope	To check unseen or unreachable parts or components.
18	Browser	Access to the Internet
19	Camera	To open the camera.
20	Ignition Scope	To test and analyze of secondary signals of various ignition systems of the engine.

4.2 Vehicle Menu



No.	Name	Descriptions
1	All	Display all the vehicle makes.
2	Common	Display all the recently tested vehicle makes.
3	Vehicle Region	Switch to corresponding vehicles in different regions.
4	Search Bar	Input the test vehicle model name.
5	Vehicle Brand Display Area	Select the vehicle make to be diagnosed.
6	Browser	Access the internet.
7	Screenshot	Capture the current screen, which is saved in the Screenshot folder.
8	VCI	Show if the VCI is connected properly
9	VINSCAN Button	Automatically scan the Vehicle Identification Number (VIN) code of the test vehicle. Camera Scan and Enter VIN are included. ***Note:** • **Does not apply to the commercial vehicles.** • **The corresponding diagnostic software and Auto search file need to be downloaded first.**

4.3 Toolbar

No.	Name	Descriptions
1		Return to the main menu screen.
2		Print the current screen. * **Note: The separate Wi-Fi Printer is needed.**
3		Exit the diagnostic application.

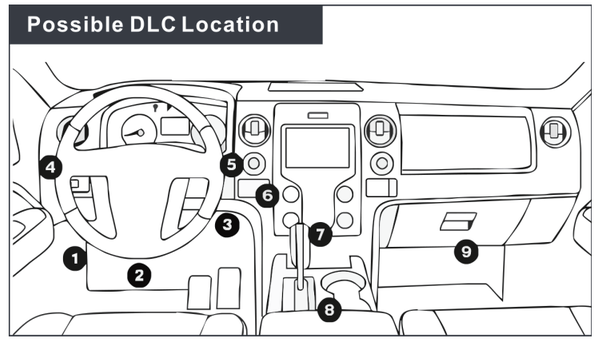
5. Preparation

5.1 Testing Conditions

- The ignition is turned on.
- The vehicle battery voltage is 9~18 volts.
- The throttle is in the closed position.

5.2 Connection

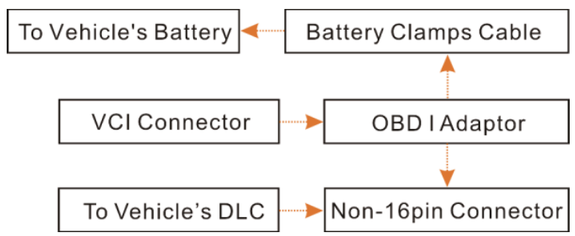
- Locate the vehicle's DLC port. Check the image below for reference.



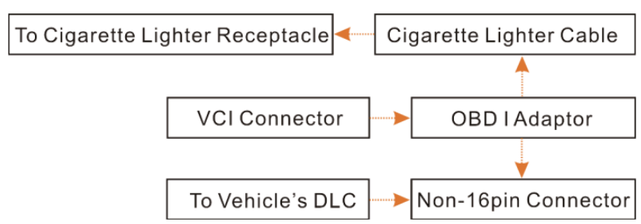
- Plug the VCI into the vehicle's DLC port. The OBDII extension cable is recommended to use.

*** Note: For non-OBDII vehicle, proceed as follows:**
1.Connect the VCI to the non-16pin connector via OBD I adaptor.
2.Insert the non-16pin connector into the DLC.
3.To supply power to the OBD I adaptor via:

- Battery Clamps Cable (optional):
  Connect one end of the battery clamps cable to vehicle's battery, and the other end to the power jack of the OBD I adaptor.



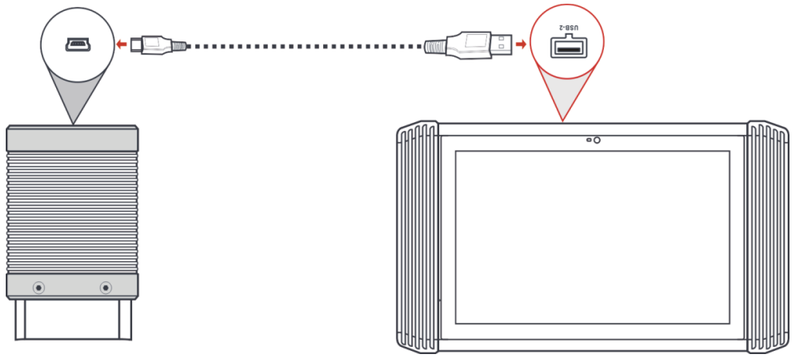
- Cigarette Lighter Cable (optional):
  Connect one end of the cigarette lighter cable to vehicle's cigarette lighter receptacle, and the other end to the power jack of the OBD I adaptor.



5.3 Bluetooth Setting

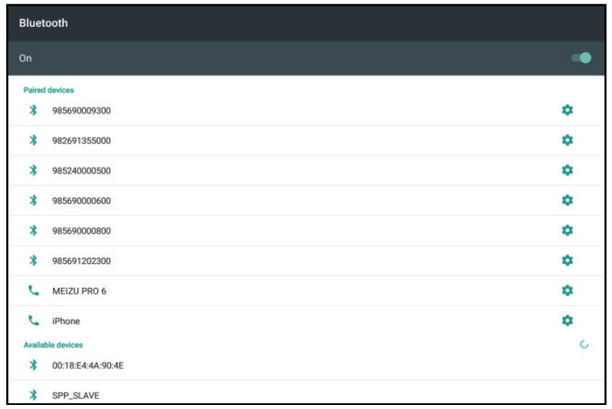
Two methods are available to pair the VCI with the tablet.

- Connect the VCI via the USB cable (optional).



- Connect the VCI via the Bluetooth.

Tap **[Settings]** -> **[Bluetooth]**, and match the desired VCI.



*** Note:**

1.By default, the Bluetooth name of the VCI is 98******00 (******** stands for 8 digits).**

2.If the Bluetooth pair request pops up on the screen, enter the request pin code (default code: 0000 or 1234).

3.If the VCI was once used with other devices, you need to cancel the pairing of the connector first via:

- **Tap [Settings] in Android main menu -> [Bluetooth] -> Select the target VCI from the Paired list. Tap ⚙ , and then tap [FORGET] to unpair it.**
- **Tap [Personal Center] in diagnostic App -> [VCI Management] -> Tap [Deactivate matching].**

Once the Bluetooth pairing is successful, the VCI will be shown under the paired tablet tab.

6. Methods of Diagnostics

Three methods are available:

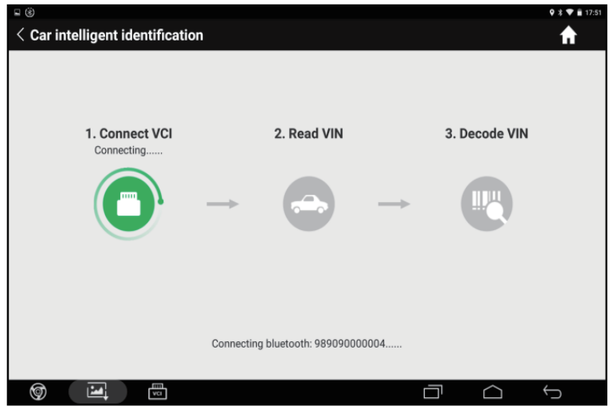
- Intelligent Diagnostics:

The system will automatically guide you directly to the fix and help you eliminate guesswork, without step-by-step manual menu selection.

- Local Diagnostics:
  You need to manually select the menu-driven command.
- Remote Diagnostics:
  This helps repair shops or mechanics to diagnose a remote vehicle, and launch instant messages, allowing for improved efficiency and faster repairs.

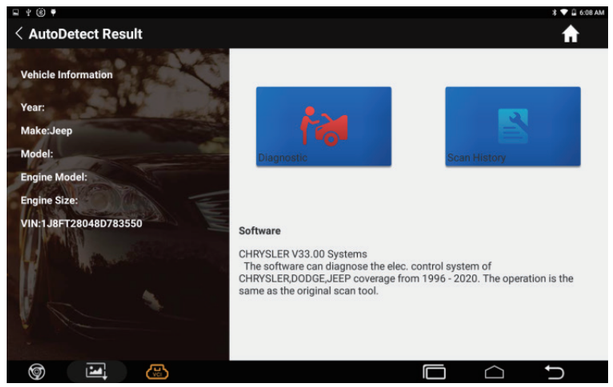
6.1 Intelligent Diagnostics

Tap **[Intelligent Diagnostics]** in the main menu. The following screen will appear:

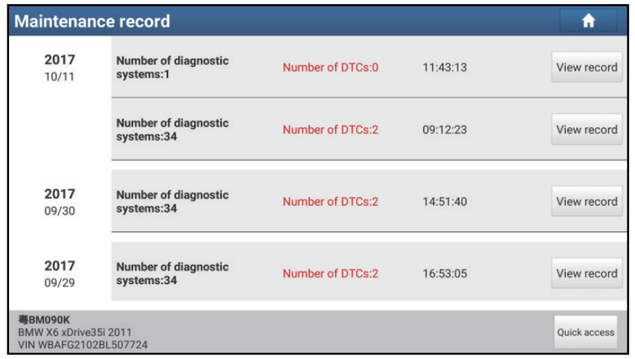


Once the Bluetooth pairing is complete, the tablet starts reading the vehicle VIN

- If the VIN can be found from the remote server database, the following screen will appear:



Tap **[Diagnostic]** to start a new diagnostic session.
Tap **[Scan History]** to view the historical repair records, which will be listed in sequence of date if they are available:

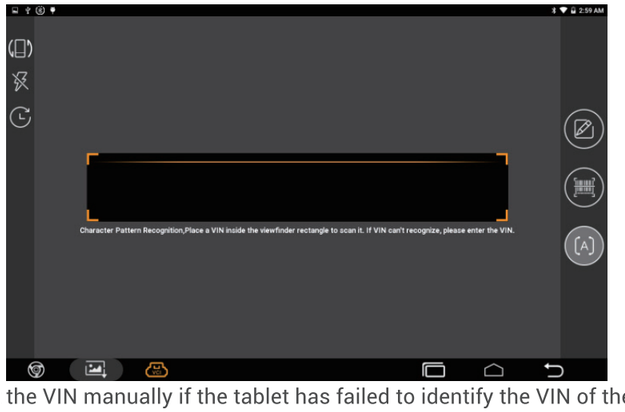


Tap **[View Record]** to view the details of the current diagnostic report.

Tap **[Quick Access]** to directly go to the function selection menu.

- If the tablet is failed to access the VIN information, the following screen will appear:

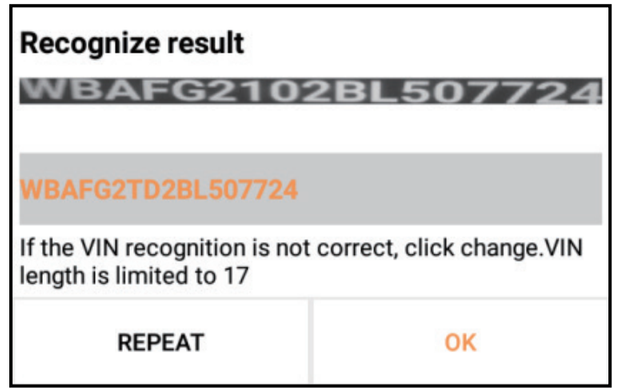
Manually input the correct VIN code, and tap **[OK]** to start the diagnostic session.
Tap **[SKIP]** to quit the Intelligent Diagnostics.
Tap , the following screen will appear:



Tap to input the VIN manually if the tablet has failed to identify the VIN of the vehicle.
Tap to scan the VIN barcode. If the VIN barcode cannot be recognized, please manually input the VIN.

Tap to scan the VIN character. If the VIN character cannot be recognized, please manually input the VIN.

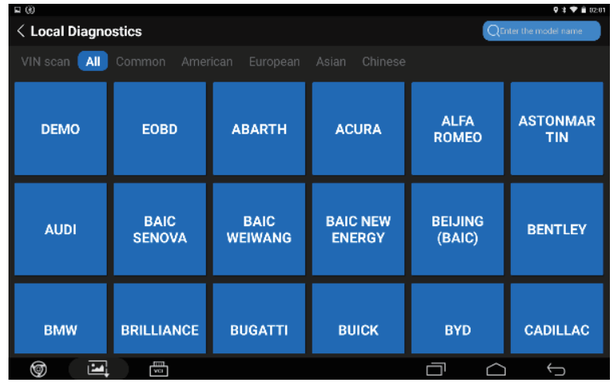
After scanning, the following screen will appear:



The VIN code in yellow can be modified if it isn't correct.

6.2 Local Diagnostics

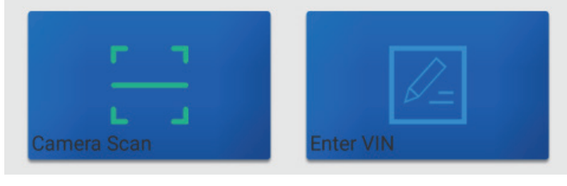
Tap [Local Diagnostics] in the main menu. The following screen will appear:



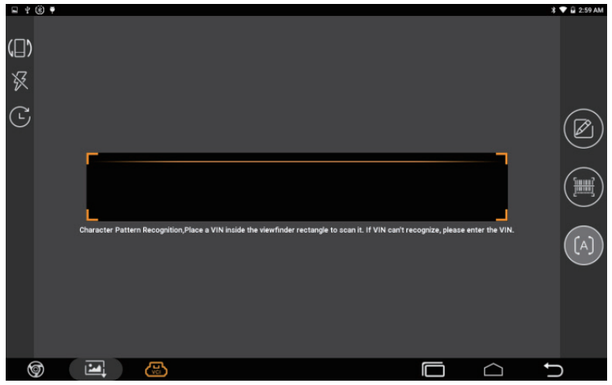
To access the vehicle diagnostic software, you can:

- Tap **[VIN Scan]**
- Or, tap a corresponding diagnostic software logo

6.2.1 Tap **[VIN Scan]**, the following screen will appear:

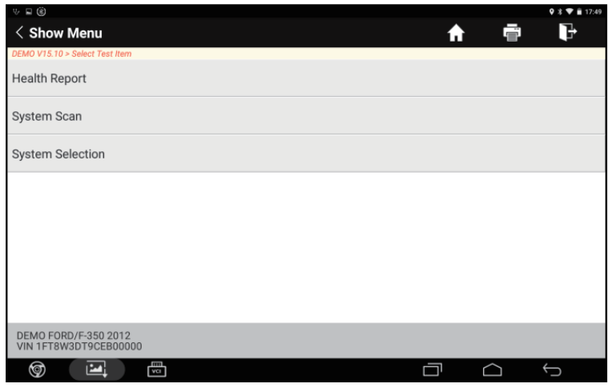


a. Automatic VIN Scan: The tablet will automatically identify the vehicle VIN information.
Tap **[Camera Scan]**, the following screen will appear:



***Note: Refer to the 6.1 for following details.**

Once the test vehicle is successfully identified, the tablet will directly navigate to the function selection menu:

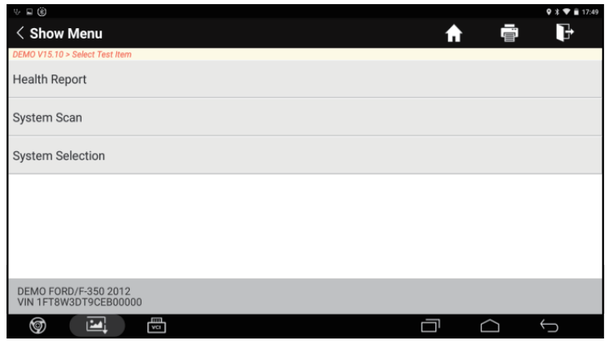


***Note:**

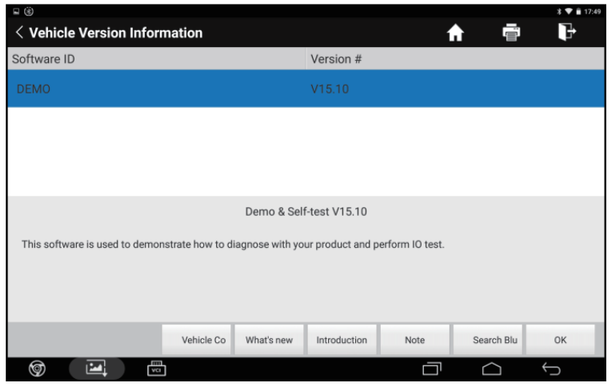
- **A Bluetooth communication should be established between Phoenix Pro and the vehicle during the operation.**
- **The corresponding diagnostic software and Auto search file needs to be downloaded first.**

b. Manual VIN Input: You can input the Vehicle VIN manually.
Tap **[Enter VIN]**, the following screen will appear:

Tap **[OK]** after inputting the VIN, the tablet will automatically identify the vehicle model and directly navigate to the function selection menu:



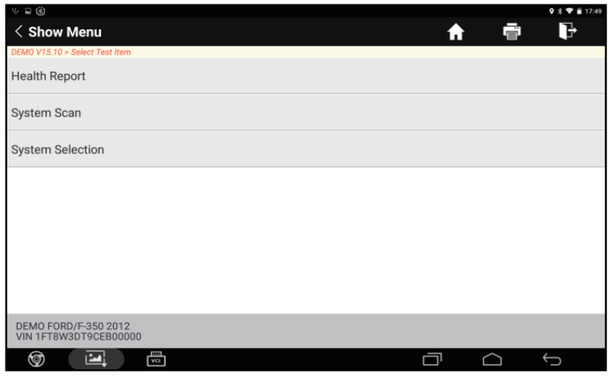
6.2.2 Tap a corresponding diagnostic software logo, the following screen will appear (take **[Demo]** as an example to demonstrate):



* **Explanation of terms:**

- **Vehicle Coverage - To view the vehicle models that covers currently.**
- **What's new - To view the optimized items and enhancements.**
- **Introduction - To check the software function list.**
- **Note - To read some precautions while operating.**
- **Search Bluetooth - To search for the available VCI Bluetooth connector.**

Select the diagnostic software version to proceed.
The tablet will automatically directly navigate to the function selection menu:



6.3 Remote Diagnostics

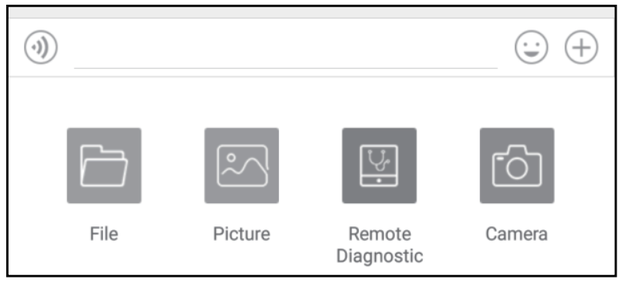
This option aims to help repair shops or technicians launch instant messaging and remote diagnosis, for more efficient repair work.

6.3.1 Launch Remote Diagnostics (Device-To-Device)

Tap [More] on the main menu, and then tap **[Remote Diagnose]**, the following screen will appear:

No.	Name	Descriptions
1	Search Bar	Input the username of the Phoenix Pro for searching, and then tap the desired one to add it into friend list.
2	Home Button	Navigate to the main menu.
3	Message Tab	A red dot will appear indicating a received message.
4	Contact Tab	Enter the friend list.
5	WEB Remote Switch	You technician can control your Phoenix Pro remotely once the switch is ON.

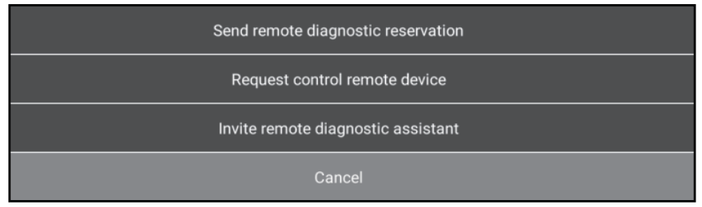
After adding friends, tap ⊕ for more function options, the following screen will appear:



***Explanation of terms:**

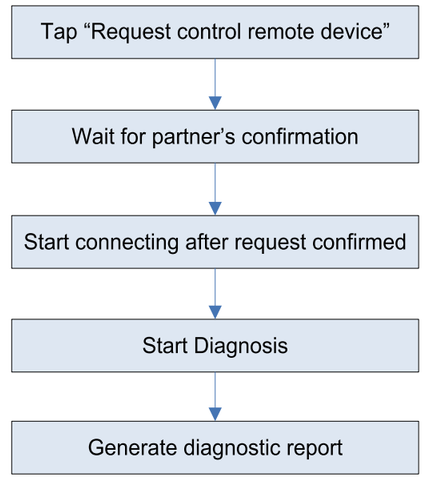
- **File - Choose diagnostic reports or local files to send.**
- **Picture - Choose screenshots or pictures to send.**
- **Remote Diagnostic - To start a remote diagnostic session.**
- **Camera - Open camera to take pictures.**

Tap **[Remote Diagnostic]**, the following screen will appear:



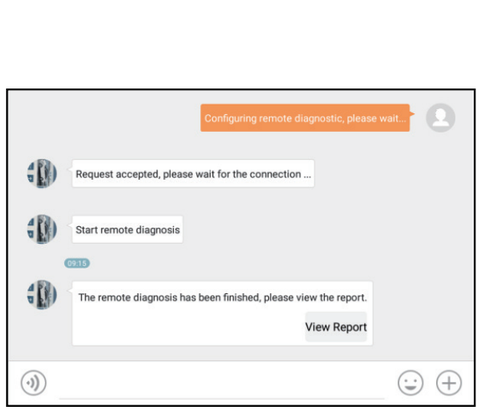
Tap **[Send Remote Diagnostic Reservation]**, and input the reservation title or scheduled date of the remote diagnosis to send.

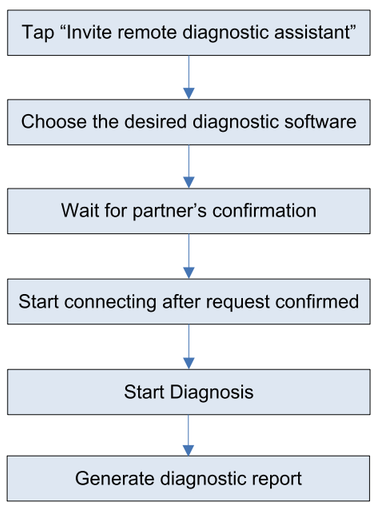
Tap **[Request Control Remote Device]** to run the Remote Diagnostics:



***Note: Once the vehicle remote diagnosis is complete, a report will be automatically created.**

Tap **[Invite Remote Diagnostic Assistant]** to invite a technician to perform a remote control on your Phoenix Pro.

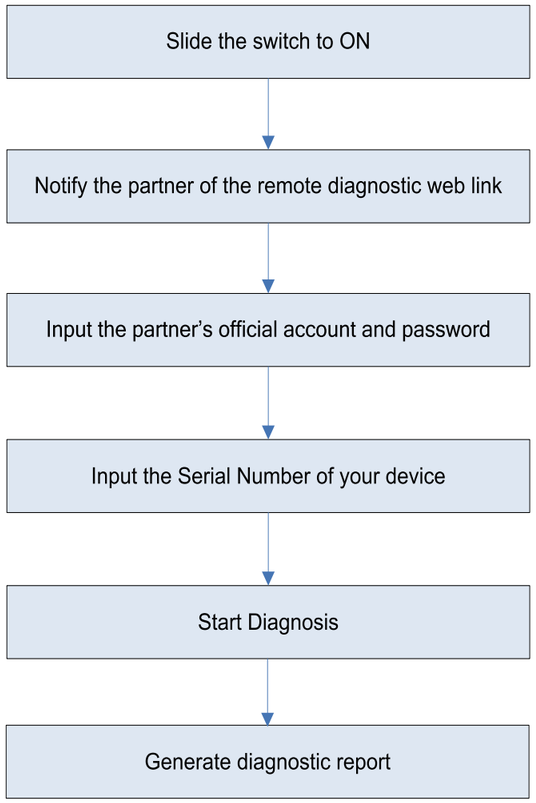




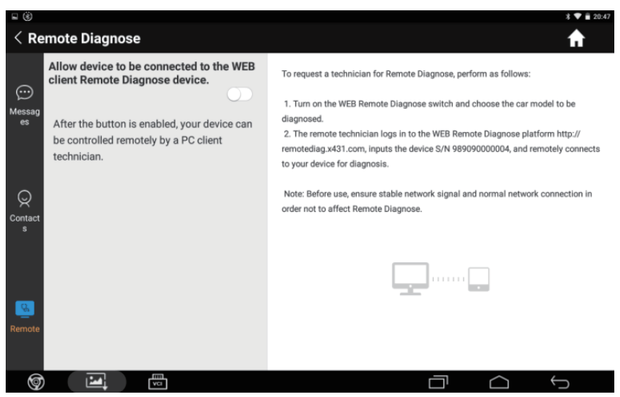
***Note: Once you received the report from the partner, tap [View Report] to view details. All diagnostic reports are saved under the "Remote Diagnostic Reports" of "My Reports" in "Personal Center".**

6.3.2 Launch Remote Diagnostics (Device-To-PC)

Users also can ask for remote control from a PC client technician.



Tap **[Remote],** the following screen will appear:



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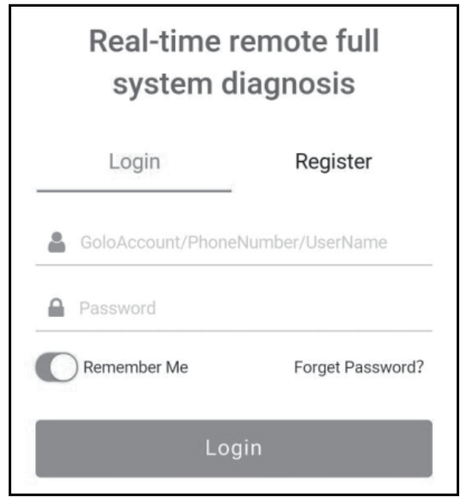
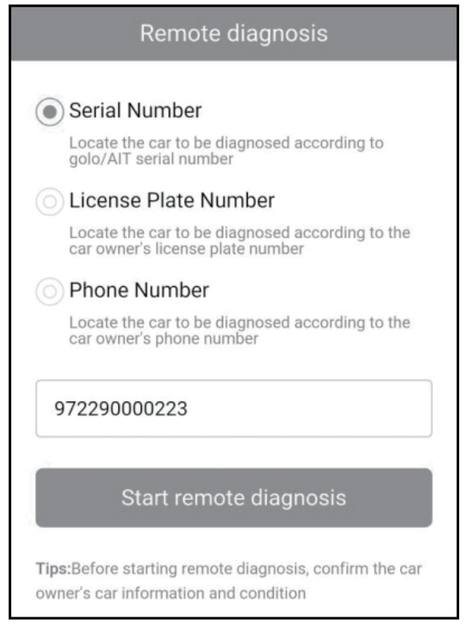
You technician needs to log in the PC client website http://remote.x431.com/cn/ to log in:



Tell your technician the Serial Number, and start the remote diagnostics.



***Note:**

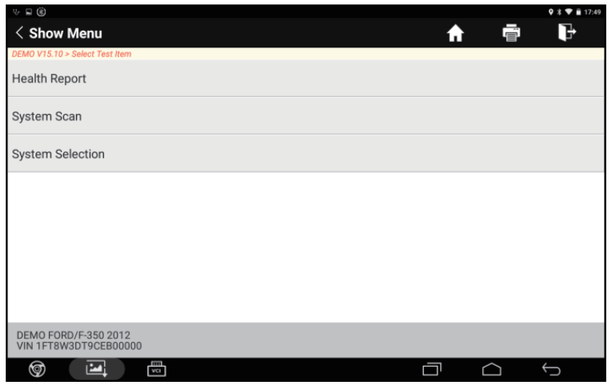
- **Better not operate your tablet while being remotely diagnosed.**
- **A remote diagnostic report will be automatically generated once it is complete.**

7. Diagnose

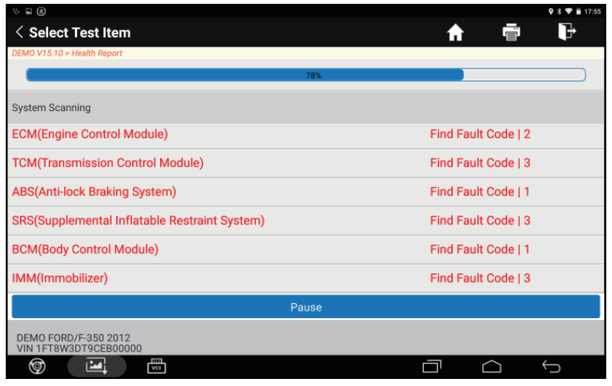
7.1 Quick Test (Health Report)

This option enables you to quickly access all the electronic control units of the vehicle and generate a detailed report about vehicle health.

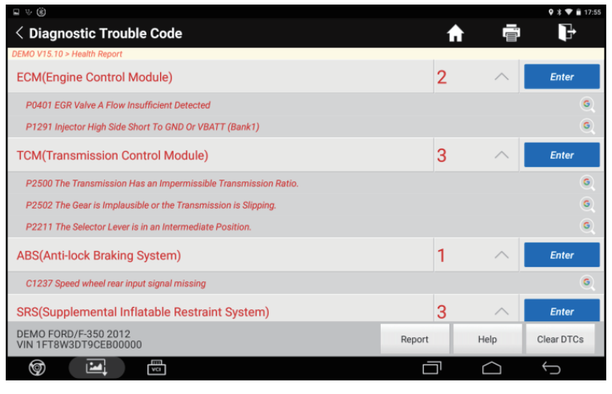
Tap **[Health Report]**:



The system will start scanning the ECUs. The following screen will appear:



Once the scanning process is complete, the following screen will appear:



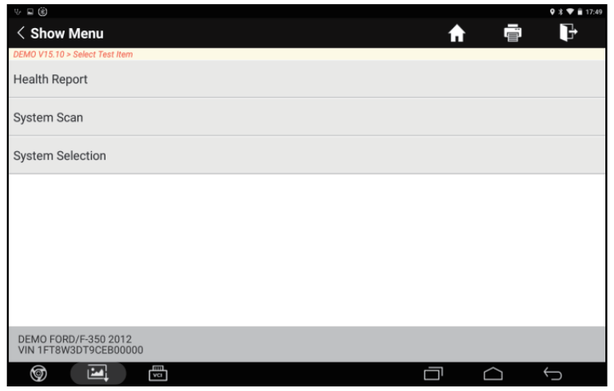
* **Explanation of terms:**

- **Clear DTCs - Clear the existing diagnostic trouble codes.**
- **Help - View the DTC help information.**
- **Report - Save the current data in text format.**

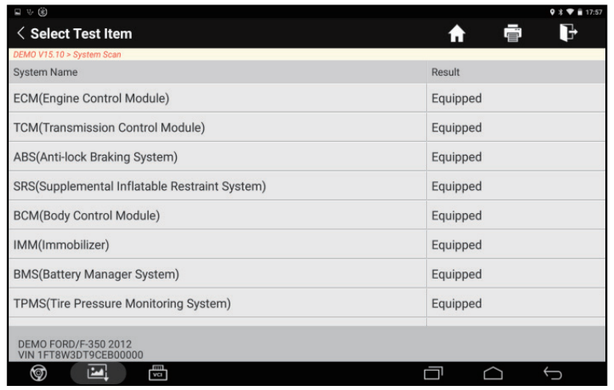
7.2 System Scan

This option enables you to quickly scan which systems are installed on the vehicle.

Tap **[System Scan]**, the system starts scanning the systems.



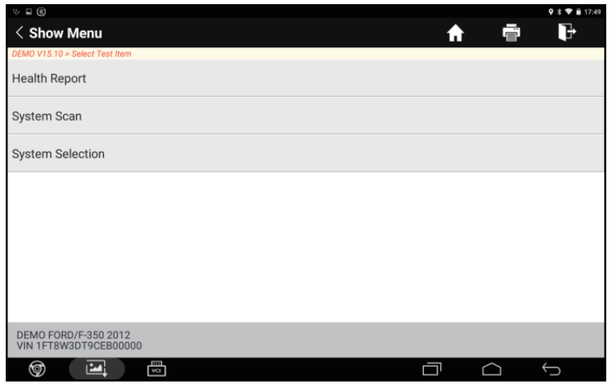
Once the scanning is complete, the following screen will appear:



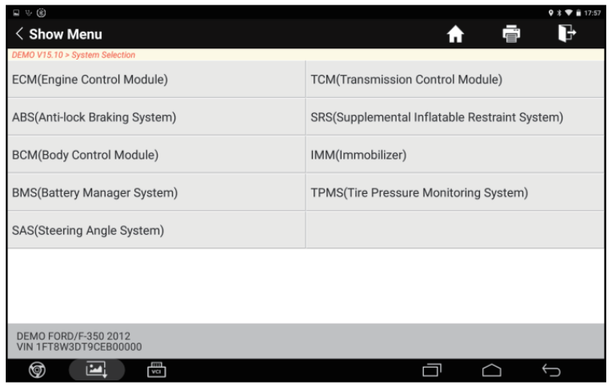
7.3 System Selection

This option enables you manually select the test system and function step by step.

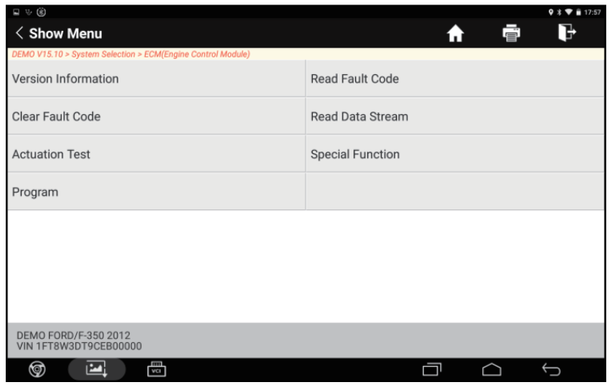
Tap **[System Selection]**:



The following screen will appear:

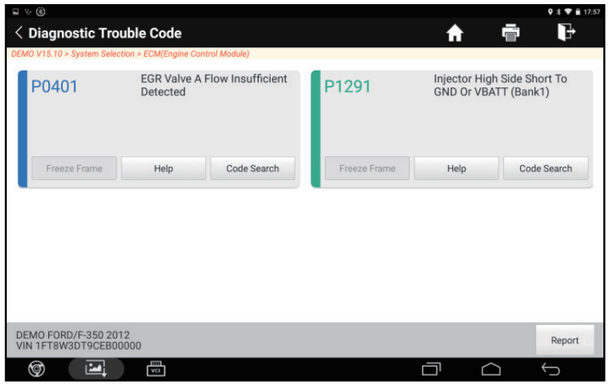


Tap the target system (take **[ECM]** for example) to the test function page:



7.3.1 Tap **[Version Information]** to read the version information of system mode, vehicle VIN, software and ECU.

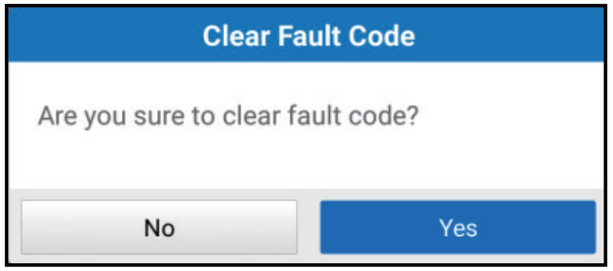
7.3.2 Tap **[Read Fault Code]** to display the detailed information of DTC records retrieved from the vehicle's control system:



*** Explanation of terms:**

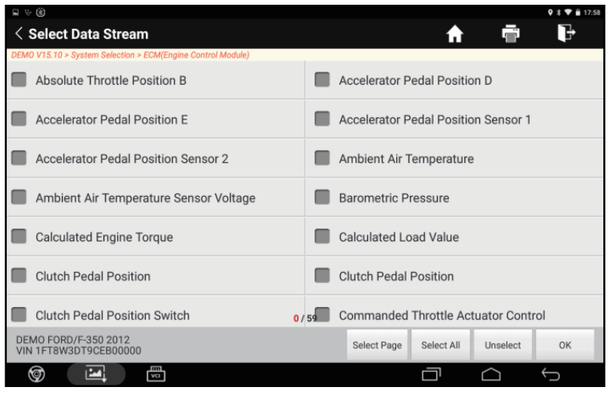
- **Freeze Frame - A snapshot of critical parameter values at the time the DTC is set.**
- **Help - View the help information.**
- **Code Search - Search for more information about the current DTC online.**
- **Report - To save the current data in text format**

7.3.3 Tap **[Clear Fault Code]** to erase the codes from the vehicle after reading the retrieved codes from the vehicle and certain repairs have been carried out.

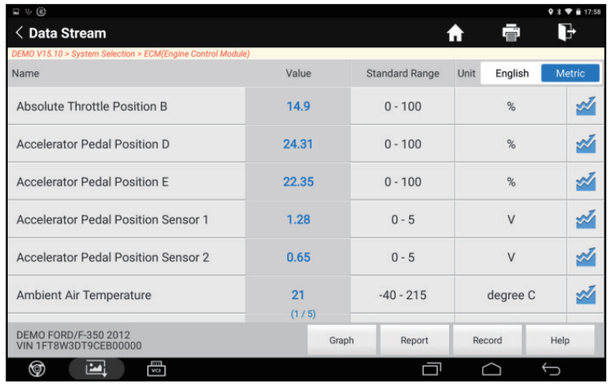


***Note: Make sure the vehicle's ignition key is in the ON position with the engine off before operating.**

7.3.4 Tap **[Read Data Stream]** to view and capture (record) real-time Live Data.



Selecting the desired items, tap [OK] to enter the data stream reading page, which is the Value default mode displaying the parameters in texts and shows in list format.



Tap to view the waveform graph of the current data stream item:

*** Explanation of terms:**

- Min/Max - to define the maximum/minimum value. Once the value goes beyond the specified value, the system will alarm.

Tap **[Graph]** to view the parameters being displayed in waveform graphs.

***Explanation of terms:**

- **Combine - This option is mostly used in graph merge status for data comparison.**
- **Value - Tap to display the parameters in texts.**
- **Report - To save the current data in text format. All reports are saved under the tab "Diagnostic Report" in "My Report" from "Personal Center" menu.**
- **Record - To start recording diagnostic data for future playback and analysis. The file is stored in "My Report" under "Personal Center" menu.**

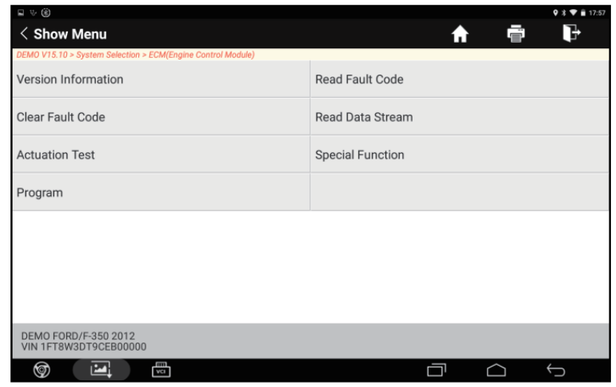
Tap , a pull-down list of the data stream items appears on the screen. Select (Maximum 4 data stream items can be selected) /deselect the desired items, and then screen will display/remove the waveforms corresponding to these items immediately.

7.4 Actuation Test

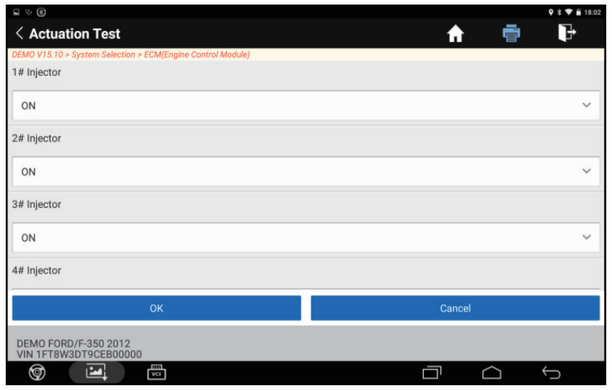
This option is used to access vehicle-specific subsystem and component tests. Available test vary by vehicle manufacturer, year, and model.

During the actuation test, the Phoenix Pro tablet outputs commands to the ECU in order to drive the actuators, and then determines the integrity of the system or parts by reading the ECU data, or by monitoring the operation of the actuators, such as switching an injector between two operating states.

Tap **[Actuation Test]**:



The following screen will appear:

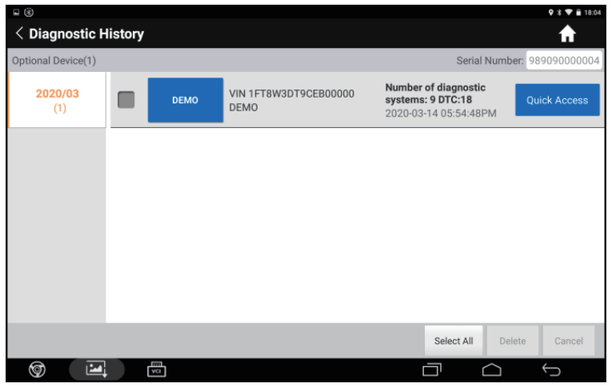


Simply follow the on-screen instructions and make appropriate selections to complete the test. Each time when an operation is successfully executed, “Completed” will display.

7.5 Diagnostic History

This function enables users to directly get access to the previously tested vehicle’s diagnostic records in details, so users can resume from the last operation, without the necessity of starting from scratch.

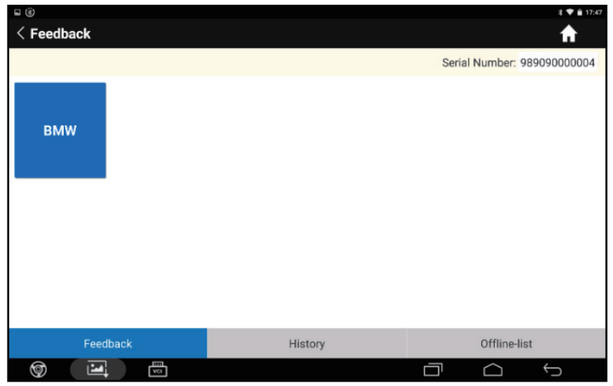
Tap **[Diagnostic History]** on the Job menu screen, all diagnostic records will be listed on the screen in date sequence.



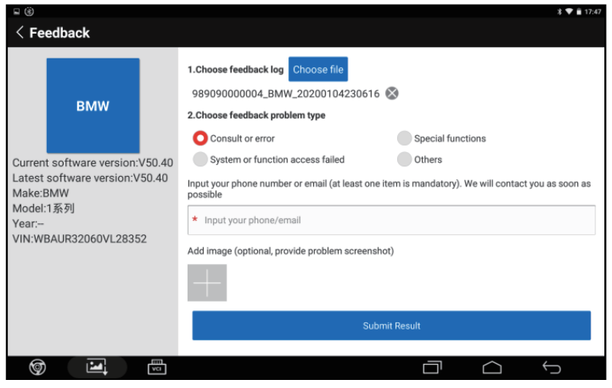
7.6 Feedback

This function enables you to feedback the diagnostic issues to us for analysis and troubleshooting.

Tap **[Feedback]**, and tap **[OK]** to enter into the vehicle diagnostic record page.



Tap the target vehicle to enter the feedback page.



Tap **[History]**, to view the diagnostic logs which are marked with different color indicating the process status of the diagnostic feedback.

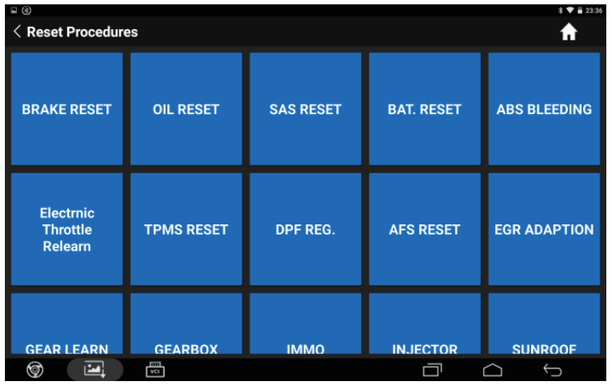
Tap **[Offline-list]**, to enter the diagnostic feedback offline list page.

8. Reset Procedures

TOPDON Phoenix Pro provides an easy dial to quickly access the most commonly performed service functions as follows:

- Oil Reset Service
- Electronic Parking Brake Reset
- Steering Angle Calibration
- ABS Bleeding
- TPMS (Tire Pressure Monitor System) Reset
- Gear Learning
- IMMO Service
- Injector Coding
- Battery Maintenance System
- Diesel Particulate Filter (DPF) Regeneration
- Electronic Throttle Position Reset
- Gearbox Matching
- AFS(Adaptive Front-lighting System) Reset
- Sunroof Initialization
- Suspension Calibration
- EGR Adaption

Tap **[Reset Procedures]** in the main menu, the following screen will appear:



8.1 Oil Reset Service

This function enables you to reset the oil service lamp for the engine oil life system, which calculates an optimal oil life change interval depending on the vehicle driving conditions and weather events.

It needs to be performed in the following cases:

- If the service lamp is on, run car diagnostics first for troubleshooting. After that, reset the driving mileage or driving time, so as to turn off the service lamp, and enable a new driving cycle.
- If the service lamp is not on, but you have changed the engine oil or electric appliances that monitor oil life, you need to reset the service lamp.

8.2 Electronic Parking Brake Reset

This function enables you to reset the brake pad after replacing the brake pad.

It needs to be performed in the following cases:

- The brake pad and brake pad wear sensor are replaced.
- The brake pad indicator lamp is on.
- The brake pad sensor circuit is short, which is recovered.
- The servo motor is replaced.

8.3 Steering Angle Calibration

This function enables you to reset the steering angle, after replacing the steering angle position sensor, replacing steering mechanical parts (such as steering gearbox, steering column, end tie rod, steering knuckle), performing four-wheel alignment, or recovering car body.

8.4 ABS Bleeding

This function enables you to perform various bi-directional tests to check the operating conditions of Anti-lock Braking System (ABS).

It needs to be performed in the following cases:

- When the ABS contains air.
- When the ABS computer, ABS pump, brake master cylinder, brake cylinder, brake line, or brake fluid is replaced.

8.5 Tire Pressure Monitor System Reset

This function enables you to quickly look up the tire sensor IDs from the vehicle's ECU, reset tire pressure and turn off the tire pressure MIL.

It needs to be performed in the following cases:

- Tire pressure is too low, tire leaks, tire pressure monitoring device is replaced or installed, tire is replaced, tire pressure sensor is damaged, and tire is replaced for the car with tire pressure monitoring function.

8.6 Gear Learning

This function enables you to perform tooth learning for the car, to turn off the MIL

It needs to be performed in the following cases:

- After the engine ECU, crankshaft position sensor, or crankshaft flywheel is replaced.
- The DTC “tooth not learned” is present.

8.7 IMMO Service

This function enables you to perform the anti-theft key matching function, so that the immobilizer control system on the car identifies and authorizes remote control keys to normally use the car.

It needs to be performed in the following cases:

- When the ignition switch key, ignition switch, combined instrument panel, ECU, BCM, or remote control battery is replaced.

8.8 Injector Coding

This function enables you to write injector actual code or rewrite code in the ECU to the injector code of the corresponding cylinder, so as to more accurately control or correct cylinder injection quantity.

It needs to be performed in the following cases:

- After the ECU or injector is replaced.

8.9 Battery Maintenance System Reset

This function enables you to perform a resetting operation on the monitoring unit of vehicle battery, in which the original low battery fault information will be cleared and the battery matching will be done.

It needs to be performed in the following cases:

- The main battery is replaced.
- The battery monitoring sensor is replaced.

8.10 Diesel Particulate Filter (DPF) Regeneration

This function enables you to clear PM (Particulate Matter) from the DPF filter through continuous combustion oxidation mode (such as high temperature heating combustion, fuel additive or catalyst reduce PM ignition combustion) to stabilize the filter performance.

It needs to be performed in the following cases:

- The exhaust back pressure sensor is replaced.
- The PM trap is removed or replaced.

- The fuel additive nozzle is removed or replaced.
- The catalytic oxidizer is removed or replaced.
- The DPF regeneration MIL is on and the maintenance is performed.
- The DPF regeneration control module is replaced.

8.11 Electronic Throttle Position Reset

This function enables you to make initial settings to throttle actuators and returns the “learned” values stored on ECU to the default state. Doing so can accurately control the actions of regulating throttle (or idle engine) to adjust the amount of air intake.

8.12 Gearbox Matching

This function enables you to complete the gearbox self-learning to improve gear shifting quality. It needs to be performed in the following cases:

- When the gearbox is disassembled or repaired.

8.13 AFS (Adaptive Front-lighting System) Reset

This function enables you to initialize the adaptive headlamp system.

8.14 Sunroof Initialization

This function enables you to set the sunroof lock off, closed when it rains, sliding / tilting sunroof memory function, temperature threshold outside the car etc.

8.15 Suspension Calibration

This function enables you to adjust the height of the body.
It needs to be performed in the following cases:

- When replacing the body height sensor, or control module in the air suspension system.
- When the vehicle height is incorrect.

8.16 EGR Adaption

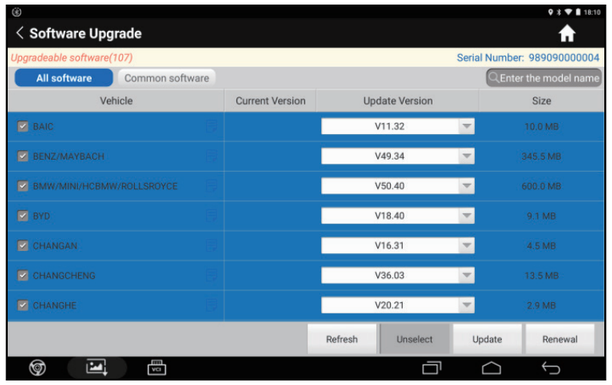
This function enables you to learn the EGR (Exhaust Gas Recirculation) valve after it is cleaned or replaced.

9. Software Upgrade

This function keeps your TOPDON Phoenix Pro being synchronized with the latest diagnostic software version.

9.1 Update Diagnostic Software & APP

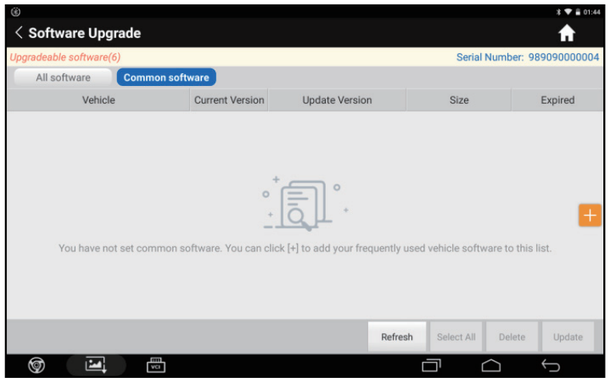
Tap **[Software Upgrade]** in the main menu to enter the update center.



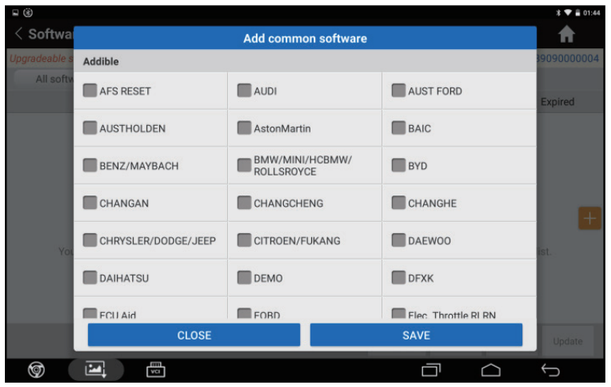
Once download is finished, the software packages will be installed automatically.

9.2 Set Frequently Used Software

This function enables you to easily locate and quickly update some frequently used software.
Tap **[Common Software]** to create a frequently used software list:



Tap **[Common software]** and tap **[+]**, the following screen will appear:



Select the software name and tap **[SAVE]**, the software will be displayed in the Common Software list.

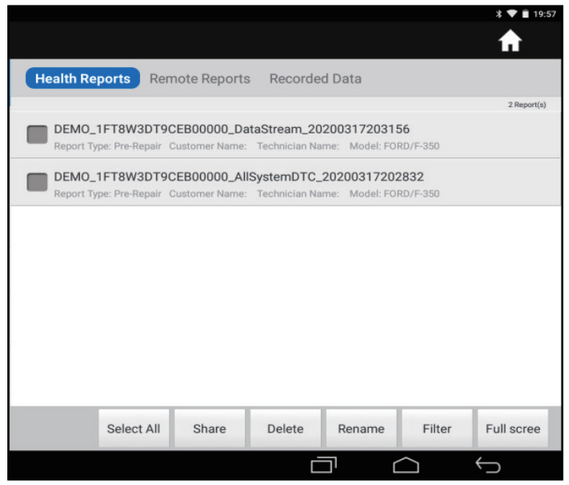
10. Personal Center

This function allows you to manage personal information and VCI.

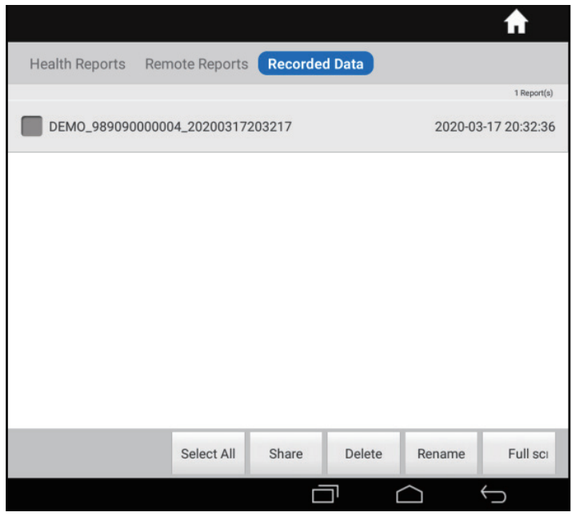
10.1 My Report

This option is used to view, delete or share the saved reports.

Tap **[My Report]**, there are total 3 options available:



If user records the running parameters while reading data stream, the tablet will save the file which appears under the Recorded Data tab.



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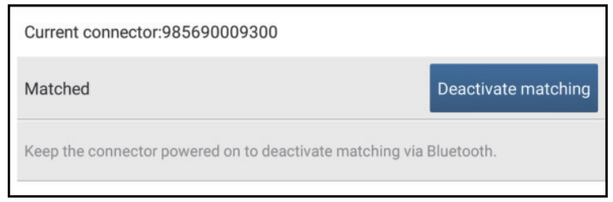
10.2 VCI

This option allows you to manage all your activated VCI connectors.

If several VCI connectors are activated to use this tool, a list of VCIs will be displayed on the screen. Once you choose the VCI that belongs to other account, you need to log out, and then input the right account to continue.

10.3 VCI Management

This option allows you to deactivate the paired VCI.



*** Note: please keep the VCI powered on while performing the operation.**

10.4 Activate VCI

This option allows you to activate a new VCI.

Input the Serial Number and Activation Code, and then tap "Activate" to activate it.

For details on how to obtain Activation Code, tap the link below to get help.

10.5 Firmware Fix

This option allows you to upgrade and fix diagnostic firmware.

*** Note: Do not cut power or switch to other interfaces while operating.**

10.6 My Order

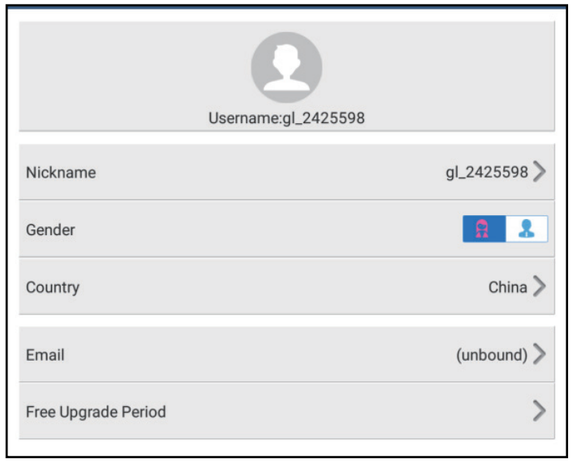
This option allows you to check the status of all your orders.

10.7 Subscription Renewal Card

This option allows you to check the status of the subscription renewal card.

10.8 Profile

This option allows you to view and configure personal information.



10.9 Change password

This option allows you to modify your login password.

10.10 Settings

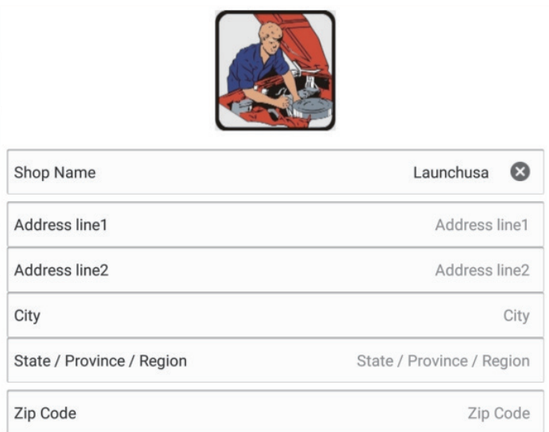
This option allows you to make some application settings and view software version information etc.

10.10.1 Units

It is designed to configure the measurement unit. Metric System and English System are available.

10.10.2 Shop Information

This option lets you define your print information. It mainly includes Workshop, Address, Telephone, Fax and License Plate.



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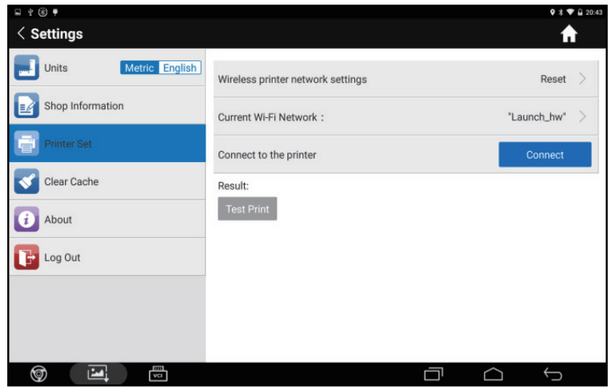
10.10.3 Printer Set

This option allows you to establish a wireless connection between Phoenix Pro and the Wi-Fi printer (sold separately) while performing printing operations.
Tap [Printer Set]



A: If the Wi-Fi printer has not been configured:
Tap **[Reset]**. The following screen will appear:

Tap **[Scan]** to start scanning and select the desired printer hot spot named with X-431PRINTER-XXXX (XXXX stands for 4 characters).
Then tap **[Connect]**, and **[Scan]** again to select the desired local Wi-Fi network from the list. After that, type in the security password (If it is an open network, password is not required), and then tap **[Confirm]**.
Once the Wi-Fi network of the printer is connected and the printer is found, tap [Printing test] to test the printing. Now you can use the Wi-Fi printer to print!

B: If the Wi-Fi printer has been configured:
Tap **[Connect to Printer]**:

- Tap **[Test Print]** directly to test the printing, if the local network remains.
- If the local network changes, you need to reset the Wi-Fi printer.

10.10.4 Clear Cache

This option allows you to clear the App cache.

10.10.5 About

The software version information and disclaimer are included.

11. More

11.1 Sensor Simulator

Phoenix Pro provides an optional function of automotive sensor simulation test. “Sensor” function is specially designed to diagnose and simulate vehicle sensor faults quickly and conveniently, including “DC voltage simulation”, “Fixed frequency simulation”, “Predefined waveform simulation” and “Hand-painted waveform simulation”.

11.2 Multimeter

Phoenix Pro provides an optional function of Multimeter, which measures the physical parameters such as voltage, resistance, frequency etc.

11.3 Battery Tester

Phoenix Pro provides an optional function of automotive battery test, which adopts the latest state-of-the-art conductance testing technology in the world and can test vehicle's battery status. Two testing environments (Inside the Vehicle and Outside the Vehicle) are available and applicable to battery test. In addition to battery test, charging system and actuation system test can be done while Inside the Vehicle is selected.

11.4 Oscilloscope

Phoenix Pro provides an optional add-on module Scopebox, which includes automotive oscilloscope and automotive ignition waveform. It can make the auto repair technician quickly judge the faults on automotive electronic equipment and wiring, and the oscilloscope sweep speed is far greater than the signal frequency of such vehicles, usually 5-10 times of the measured signal.

11.5 Ignition Scope

Phoenix Pro provides an optional function of Ignition Scope, which can test and analyze the secondary signal for various engine ignition systems.

Technical Specification

Phoenix Pro Tablet

Operating System	Android 5.1
CPU	8-core Processor, 2.0GHz
Display	12" Touch Screen (1920*1200 Resolution)
Memory	2GB
Hard disk	64GB (Expandable to 128GB via Memory Card)
Connectivity	Ethernet/Wi-Fi (802.11 b/g/n) USB Bluetooth
Camera	2.0MP Front-Facing Camera 8.0MP Rear-Facing Camera with AF
Sensor	Gravity Accelerometer
Audio Input/Output	Microphone Speakers 3.5mm Stereo Headset Jack
Input Voltage	DC 5V/3A
Power Consumption	Max. 20W
Working Temperature	0℃ ~50℃ (32~122 ℉)
Storage Temperature	-20℃ ~70℃ (-4~158 ℉)
Dimensions	376*220*50 mm (14.80*8.66*1.96 inch)
Weight	2120g (74.78oz)

VCI Connector

Working Voltage	DC 9V ~ 18V
Working Current	About 85mh
Standby Current	About 55mh
Working Temp.	0℃ ~50℃ (32~122 ℉)
Storage Temp.	-20℃ ~70℃ (-4~158 ℉)
Relative Humidity	20%~90%
Dimensions	72*47*24 mm (2.83*1.85*0.94 inch)
Weight	50g (1.76oz)

Warranty

TOPDON One Year Limited Warranty

The TOPDON Company warrants to its original purchaser that TOPDON products will be free from defects in material and workmanship for 12 months from the date of purchase (Warranty Period). For the defects reported during the Warranty Period, TOPDON will, according to the technical support analysis and confirmation, either repair or replace the defective part or product.

This limited warranty is void under the following conditions:

Misused, disassembled, altered or repaired by a non-TOPDON technical repair specialist.

Careless handling and violation of operation.

Warnings

- DO NOT collide, throw, or puncture Phoenix Pro, and avoid falling, extruding and bending it.
- DO NOT insert foreign objects into or place heavy objects on your device. Sensitive components inside might cause damage.
- DO NOT use Phoenix Pro in exceptionally cold or hot, dusty, damp or dry environments.
- DO NOT place Phoenix Pro into apparatus with strong electromagnetic field.
- DO NOT place the Phoenix Pro near any magnetic devices, because its radiations can damage the screen and erase the data stored on Phoenix Pro.
- DO NOT attempt to replace the internal rechargeable lithium battery. Contact the dealer for factory replacement.
- DO NOT disconnect power abruptly when Phoenix Pro is being formatted or in process of uploading or downloading. Or else it may result in program error.
- DO NOT delete unknown files or change the name of files or directories that were not created by you, otherwise your Phoenix Pro software might fail to work.
- Please contact the dealer if Phoenix Pro needs to get repaired. Phoenix Pro is a sealed unit. There are no end-user serviceable parts inside. All internal repairs must be done by an authorized repair facility or qualified technician.
- Please use the included battery and charger. Risk of explosion if the battery is replaced with an incorrect type.
- Please turn the Phoenix Pro off, if it causes interference or generate a potential risk in some places.
- Be aware that accessing network resources can leave your Phoenix Pro vulnerable to computer viruses, hackers, spyware, and other malicious activities that might damage your device, software or data. It is your responsibility to ensure that you have adequate protection in the forms of firewalls, antivirus software, and anti-spyware software and keep such software up to date.

Cautions

When Using Phoenix Pro

Before using this test equipment, please read the following safety information carefully.

- DO NOT connect or disconnect any test equipment while the ignition is on or the engine is running.
- DO NOT drive the vehicle and operate the test equipment at the same time. Any distraction may cause an accident.
- Always perform automotive testing in a safe environment.
- Wear an ANSI-approved eye shield when testing or repairing vehicles.
- The vehicle shall be tested in a well-ventilated work area, as engines produce various poisonous compounds (hydrocarbon, carbon monoxide, nitrogen oxides, etc.)
- Put blocks in front of the drive wheels and never leave the vehicle unattended while testing.
- Keep the test equipment dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clear the outside of the equipment as necessary.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Before starting the engine, put the gear lever in the Neutral position (for manual transmission) or in the Park (for automatic transmission) position to avoid injury.
- To avoid damaging the test equipment or generating false data, please make sure the vehicle battery is fully charged and the connection to the vehicle DLC (Data Link Connector) is clear and secure.
- Automotive batteries contain sulfuric acid that is harmful to skin. In operation, direct contact with the automotive batteries should be avoided. Keep the ignition sources away from the battery at all times.

When 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.

FAQ

When Using Phoenix Pro

Q: How to save power?

A: 1.Please turn off the screen while Phoenix Pro keeps idle.
2.Set a shorter standby time.
3.Decrease the brightness of the screen.
4.If WLAN connection is not required, please turn it off.
5.Disable GPS function if GPS service is not in use.

Q: How to fix the communication error with vehicle ECU?

A: Please confirm:
1.Whether diagnostic connector is correctly connected.
2.Whether the ignition switch is ON.
3.If all above is normal, send the vehicle's year, make, model and VIN number to us via the Feedback function.

Q: Failed to enter into vehicle ECU system?
A: Please confirm:
1.Whether the vehicle is equipped with the system being diagnosed.
2.Whether the VCI dongle is correctly connected.
3.Whether the ignition switch is ON.
4.If all above is normal, send the vehicle's year, make, model and VIN number to us via the Feedback function.

Q: How to reset TOPDON Phoenix Pro?
A: Do the following reset procedures:
1.Tap “Settings” -> “Back & Reset”.
2.Tap “Factory Data Reset”.
3.Tap “Reset Tablet”.
4.Tap “Clear All Data” to start resetting until the tool automatically reboots.
* Note: Resetting may cause data loss. Please back up the important data and information before operation.

Q: How to register TOPDON Phoenix Pro or a new VCI?
A: 1.If this is your first time using the device, refer to the user manual for information.
2.If you want to active a new VCI, do the following steps:
a)Tap “More" -> "Personal Center" -> "Activate VCI".
b)Input the product S/N and activation code, which can be found from the included password envelope.
c)Tap "Activate".
d)Tap "Personal Center" -> "VCI" to check if the activated VCI is displayed in the list or not.
Multiple VCIs can be bound to one tool. You can switch to the one you intend to use while diagnosing.
***Note: Please make sure the network is properly connected before operation.**

Q: How to update the APK and diagnostic software?
A:1.Tap "Software Upgrade".
2.Select the software you want to download.
3.Tap "Update" to start the download.
* Note: Please make sure the network is properly connected before operation.

Q: How to change the language of the vehicle diagnostic software?
A: please go to the update center to download the vehicle diagnostic software in the preferred language, after the system language is correspondingly set.
***Note: English is the default language. If the menu is still in English after the operation, it indicates the software of the corresponding language is under development.**

Q: How to pair the VCI with the TOPDON Phoenix Pro tablet?
A: 1.Turn the ignition on.
2.Plug the VCI directly (or use the OBD-II extension cable) into the vehicle's DLC.
3.Tap “Setting” -> “Bluetooth".
4.Switch the Bluetooth “ON”. Phoenix Pro will automatically search for all the available Bluetooth devices.
5.Tap the SN of the VCI (12 digits, e.g. 98********00,) to start pairing.
6.Input the Bluetooth request code (default value: 0000 or 1234) if necessary.

Q: How to retrieve the login password?
A: 1.Tap “Login" button on the upper right corner of the screen.
2.Tap "Retrieve password".
3.Input the product S/N and follow the on-screen prompts to retrieve the password.