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Using This Manual

This manual contains device usage instructions.

Some illustrations shown in this manual may contain modules and optional equipment that are not included in your system.

The following conventions are used.

Bold Text

Bold text is used to highlight selectable items such as buttons and menu options.

Example:

Tap **OK**.

Notes

A NOTE provides helpful information such as additional explanations, tips, and comments.

Example:

Note: Remember to remove the VCI connector from the vehicle's DLC after use.

Warning

Warning indicates a hazardous situation which, if not avoided, could result in minor or moderate injury to the operator or to bystanders.

Example:

Warning: Retrieving and using DTCs for troubleshooting vehicle operation is only one part of an overall diagnostic strategy. Never replace a part based only on the DTC definition. Each DTC has a set of testing procedures, instructions and flow charts that must be followed to confirm the location of the problem. This information can be found in the vehicle's service manual.

Danger

Danger indicates an imminently or potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.

Example:

Danger: If you must drive the vehicle in order to perform a troubleshooting procedure, always have a second person help you. Trying to drive and operate the diagnostic tool at the same time is dangerous, and could cause a serious traffic accident.

Illustrations

Illustrations used in this manual are samples, the actual testing screen may vary for each vehicle being tested. Observe the menu titles and on-screen instructions to make correct option selection.

Important Safety Precautions

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

DANGER

- When an engine is operating, keep the service area well-ventilated or attach a building exhaust removal system to the engine exhaust system. Engines produce various poisonous compounds (hydrocarbon, carbon monoxide, nitrogen oxides, etc.) that cause slower reaction time and result in death or serious personal injury.
- Please use the included battery and power adaptor. Risk of explosion if the battery is replaced with an incorrect type.
- If you must drive the vehicle in order to perform a troubleshooting procedure, always have a second person help you. Trying to drive and operate the diagnostic tool at the same time is dangerous, and could cause a serious traffic accident.

WARNING

- Always perform automotive testing in a safe environment.
- Do not connect or disconnect any test equipment while the ignition is on or the engine is running.

- 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.
- NEVER smoke or allow a spark or flame in vicinity of battery or engine. Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or heavy dust.
- Keep a fire extinguisher suitable for gasoline/chemical/electrical fires nearby.
- Wear an ANSI-approved eye shield when testing or repairing vehicles.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while testing.
- Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltage when the engine is running.
- To avoid damaging the tool 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.
- Retrieving and using DTCs for troubleshooting vehicle operation is only one part of an overall diagnostic strategy. Never replace a part based only on the DTC definition. Each DTC has a set of testing procedures, instructions and flow charts that must be followed to confirm the location of the problem. This information can be found in the vehicle's service manual.
- 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.
- Keep the tool dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clear the outside of the equipment when necessary.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Store the tool and accessories in a locked area out of the reach of children.
- Do not use the tool while standing in water.
- Do not expose the tool or power adapter to rain or wet conditions. Water entering the tool or power adaptor increases the risk of electric shock.
- This tool 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. If there is any inquiry, please contact the dealer.
- Keep the tool far away from magnetic devices because its radiations can damage the screen and erase the data stored on the tool.
- Do not attempt to replace the internal rechargeable lithium battery. Contact the dealer for factory replacement.
- 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.

Compliance Information

FCC ID: XUJOADDPD1003

FCC Warning
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.

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.
Specific Absorption Rate (SAR) information:
This product meets the government's requirements for exposure to radio waves. 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 or health.

FCC RF Exposure Information and Statement
The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types: Automotive Diagnostic Tool (FCC ID: XUJOADDPD1003) has also been tested against this SAR limit. This device was tested for typical body-worn operations 0mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 0mm separation distance between the user's body.
Body-worn Operation
This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 0mm must be maintained between the user’s body , including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.

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1 Introduction

1.1 Product Profile

This Android OS-based, tablet-style diagnostic tool incorporates the best possible coverage of OE-level diagnostics with multitasking capable software.

Using the powerful 8-core 2.0GHz processor and a 10.1 inch sunlight readable capacitive touch screen with a resolution of 1920 x 1200 pixels, it delivers quick and complete diagnostic functionalities which technicians need to diagnose, research and repair vehicles in one solution.

It has the following features: Intelligent Diagnose, Local Diagnose, SmartLink Super Remote Diagnose, X431 Remote Diagnose, Service Function, One-click Update, Diagnostic History, Diagnostic Feedback, TPMS, ADAS, Vehicle Coverage Lookup and Toolbox etc.

1.2 Package List

Common accessories are same, but for different destinations, the accessories may vary. For detailed accessory items, please consult from the seller or check the packing list supplied with this tool together.

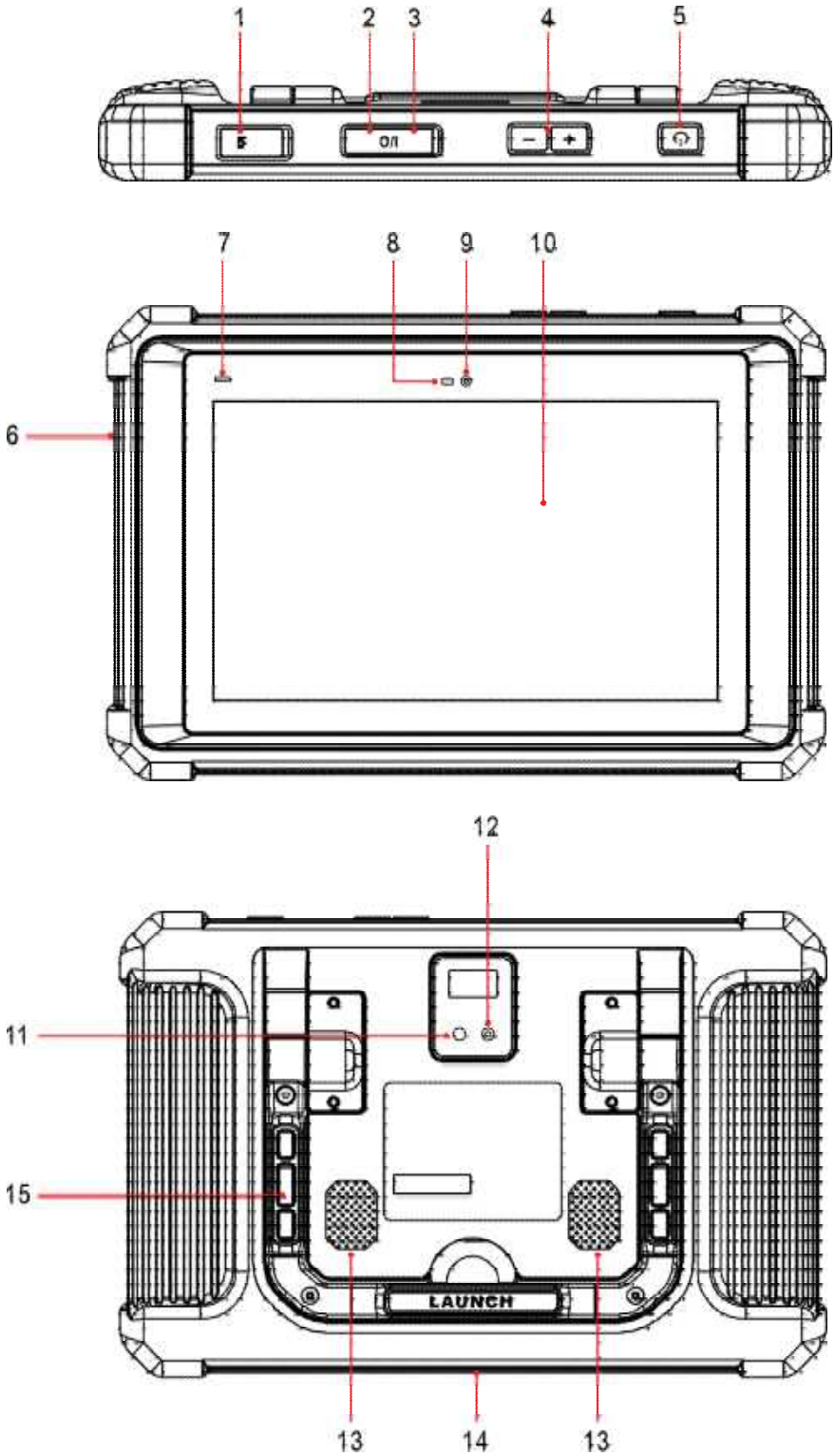
No.	Item	Description	Qt.
1	Display tablet	Indicates the test results.	1
2	SmartLink C V2.0 device	Connect to vehicle's DLC (Data Link Connector) port to access vehicle's live data.	1
3	Docking station	Charges the display tablet.	1
4	Diagnostic cable	Connect the VCI to vehicle's DLC port. It can be separated into two parts: DB15F to HD15F data cable and HD15M to OBD16 adaptor.	1
5	Power adaptors	Charges the display tablet.	2
6	Data cable	Connects the VCI to the tablet to perform vehicle diagnosis.	1
7	Password envelope	A piece of paper bearing Product S/N and Activation Code, which is needed for product registration.	1
8	Crossover cable	Connects the VCI device to the modem when performing SmartLink Super Remote Diagnostics.	1
9	Quick start guide		1

1.3 Components & Controls

There are two main components to the diagnostic system:

- Display Tablet – the central processor and monitor for the system (See Chapter 1.3.1).
- VCI (Vehicle Communication Interface) – the device for accessing vehicle data (See Chapter 1.3.2).

1.3.1 Display Tablet



1. **Memory Card Slot**

Insert a memory card for storage extension.

2. **Data I/O Port**

- Connect it to the SmartLink C V2.0 device to perform vehicle diagnosis.
- Connect it to the add-on module to extend the functions of the diagnostic tablet.

3. **Charging Port**

Charge the tablet via the power adaptor.

4. **Volume Buttons**

Adjust the volume.

Note: Press and hold [POWER] and [VOL -] key to capture the current screenshot.

5. **Power/Screen Lock Button**

To turn the tablet on/off with long press, or lock the screen with short press.

6. **Microphone**

Convert voice into an electrical signal.

7. **Charging LED**

It illuminates red while the tablet is charging. Once charging is finished, it will illuminate solid green.

8. **Ambient Light Sensor**

Sense the amount of the ambient light present.

9. **Front Camera**

Snapshot the view ahead the screen.

10. **Touch Screen**

Indicate the test results.

11. **Camera Flash**

Produce a flash of artificial light.

12. **Rear Camera**

Snapshot the view in front of the tablet.

13. **Audio Speaker**

Convert an electrical audio signal into a corresponding sound.

14. **Charging Slot**

Align it with the charging slot on the docking station to charge the tablet. Refer to Chapter 1.3.3.

15. **Adjustable Kickstand**

Flip out it to any angle and work comfortable at your desk, or hang it on automotive part.

1.3.2 VCI

The SmartLink C V2.0 device features powerful functions and it can be applied in the following situations:

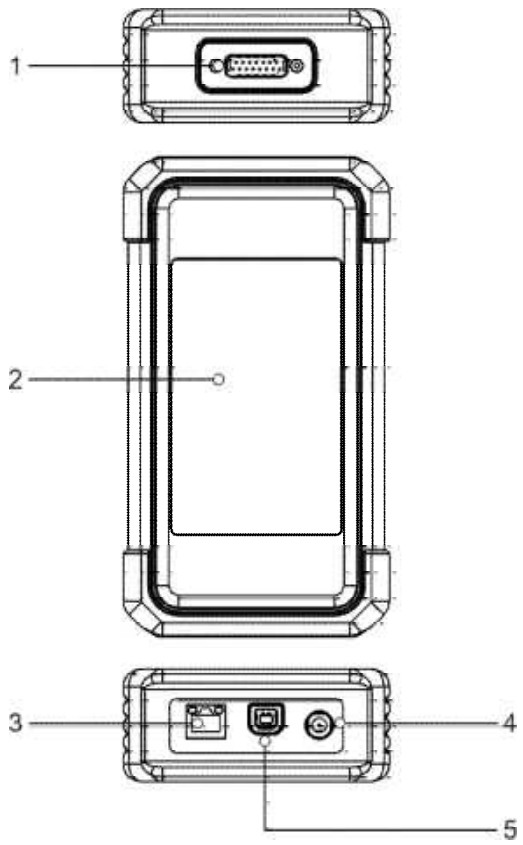
1). When as a VCI (Vehicle Communication Interface), it needs to work in conjunction with the **Diagnose** module of the tablet, which is used to obtain vehicle data, and then send it to the tablet for analysis wirelessly or via data cable.

2). When as a SmartLink C (Customer) dongle, it does not communicate with the tablet, but it needs to work together with the **SmartLink** module of the tablet. The tablet is mainly used to issue remote diagnostic requests, and the SmartLink C dongle is networked to receive and execute commands from the remote SmartLink B (Business).

Note: For detailed operations, please refer to Chapter 5.3.

3). When as a local J2534 PassThru device, it can be used in conjunction with the PC installed with OEM diagnostic software.

Note: For detailed operations, please refer to Chapter 12.



1. **DB-15 diagnostic connector**

Connect the SmartLink C V2.0 device to the vehicle's DLC (Data Link Connector) port via the diagnostic cable.

2. **Touch screen**

3. **LAN/WAN port**

Connect the SmartLink C V2.0 device to the Internet via the crossover cable. It only applies to the SmartLink Super Remote Diagnostics.

4. **DC-IN power jack**

It can obtain power via connecting the diagnostic cable to the vehicle's DLC port or connecting to an external DC power supply.

Warning: It is prohibited to connect this power jack to an external DC power supply when the SmartLink C V2.0 device is properly connected to the vehicle's DLC port.

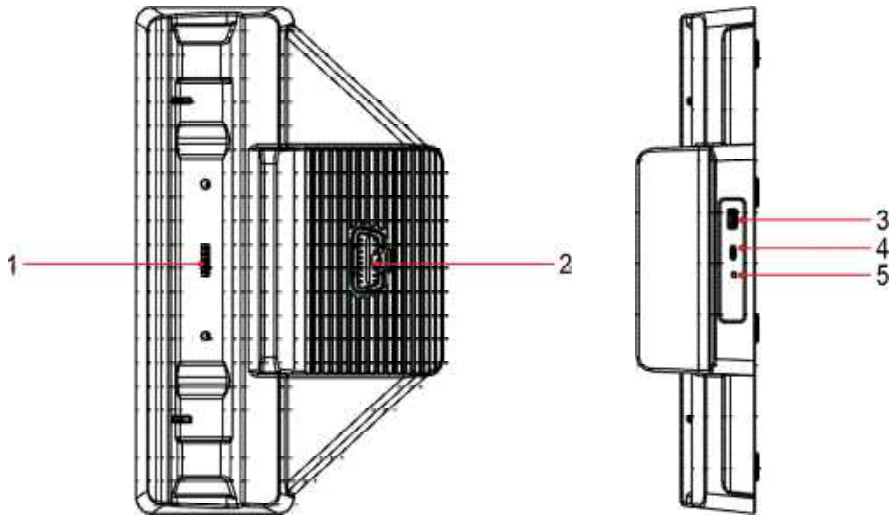
No responsibility can be assumed for any damage or loss caused as a result of not strictly following the warning.

5. **Data I/O port**

- Connect it to the tablet to perform vehicle diagnosis.
- Connect it to the PC to perform J2534 reprogramming when as a J2534 PassThru device.

1.3.3 Docking Station

The docking station is used to charge the diagnostic tablet.



1. **Charging slot**

Charge the diagnostic tablet.

2. **OBD II socket**

Store the OBD II adaptor to avoid loss.

3. **DC 5V OUT port**

Reserved for charging other USB devices only.

4. **Charging port**

Use the power adaptor to supply power to the docking station through connection to AC outlet.

5. **Power LED**

Illuminates solid green when it is powered on.

1.4 Technical Specifications

1. Display tablet

CPU: 8-core Processor, 2.0GHz

Display: 10.1 inch touch screen with a resolution of 1920 x 1200

Memory: 4GB

Hard disk: 256GB

Connectivity:

- Wi-Fi (802.11 b/g/n/ac)
- Universal serial BUS ports (1 x Type-C + 1 x Type-A)

Camera: 8MP front-facing camera + 13MP rear-facing camera

Sensor: Gravity accelerometer + 3-axis acceleration sensor

Operating temperature: 0℃ ~ 50℃

Storage temperature: -20℃ ~ 70℃

2. VCI (Vehicle Communication Interface)

Size: 200mm x 110mm x 47mm

Working voltage: DC 9~36V

Power consumption: ≤ 6W

Communication: wireless and wired

Working temperature: 0℃ ~ 50℃

2 Initial Setup

2.1 Charging the Tablet

Notes:

- Only use the included power adaptor to recharge the tablet. Use of any other adaptor will damage the tool. We assume no responsibility for damage or loss resulting from using other similar adaptors other than the specified one.
- Always charge on a non-flammable surface in a well-ventilated area.

To check the battery power level, press and hold the Power button about 3 seconds to turn on the tablet. Power level is indicated as a percentage in the upper right corner of the screen. If the power level drops below 10% while the tablet is on, a “Connect Charger” notification will appear on the screen.

2.1.1 Charging with the included power adaptor

1. Connect one end of the power adaptor to charging port of the tablet, and the other end to the AC outlet.
2. The charging LED illuminates on the tablet solid red and a charging symbol will appear on the screen.
3. Once it illuminates solid green, it indicates that the battery is fully charged and the charging complete symbol replaces the charging symbol. Disconnect the power adaptor from the AC outlet.
4. Press and hold the ***POWER*** button for about 3 seconds to turn on the tablet. The system starts initializing and then enters the home screen.

   To turn the tablet off, press and hold the ***POWER*** button until an option menu appears. Tap **Power Off**.

2.1.2 Charging with the docking station

1. Locate the charging slot on the bottom of the tablet and docking station.
2. Align the charging slots, and then dock the tablet into the station to ensure that it is firmly seated on the docking station.
3. Insert one end of the included power cord to the charging port of the docking station, then the other end into the AC outlet. The charging LED on the tablet illuminates solid red while charging and a charging symbol will appear on the screen.
4. Once it illuminates solid green, it indicates that the battery is fully charged and the charging complete symbol replaces the charging symbol. Disconnect the power adaptor from the AC outlet.

2.2 Screen Layout

On-screen keys and status bar on the bottom of the screen are as follows:

1. Tap to visit the official website.
2. Tap to capture the current screen and all captured screenshots are stored in the Screenshots folder.
3. shows whether the VCI is connected properly or not.
4. Tap to display a list of applications that are currently running or recently used. Tap certain application to open it. Swipe it upwards to close it.
5. Tap to jump to the home screen.
6. Tap to return to the previous screen or exit the application.

2.3 Adjusting Screen Brightness

The tablet is equipped with a built-in light intensity sensor. It can adjust the screen brightness according to the ambient light intensity automatically. Alternatively, you can also adjust it manually.

1. On the home screen, tap **Other Modules -> Tablet Settings -> Display -> Brightness level**.
2. Drag the slider to adjust it.

Alternatively, user may also slide the ***Automatically brightness*** switch to ON, and the system will automatically adjust the screen brightness.

Note: Reducing the brightness of the screen is helpful to save the power of the tablet.

2.4 Changing Language

The tablet supports multiple languages. To change the language of the tablet, please do the following:

1. On the home screen, tap **Other Modules -> Tablet Settings -> Language & input -> Language**.
2. Tap the desired language from the list and the system will change to the chosen language.

2.5 Network Setup

The tablet has built-in Wi-Fi that can be used to get online. Once you're online, you can register the tablet, browse the Internet, get and update apps on your network.

Note: Once WLAN is set as ON, the tablet will consume more power. While WLAN keeps unused, please turn it off to conserve battery power.

1. On the home screen, tap **Other Modules -> Tablet Settings** -> **WLAN**.
2. Tap or slide the Wi-Fi switch to ON, the tablet starts searching for all available wireless LANs.
3. Choose the desired Wi-Fi access point / network,
   - If the network you chose is open, you can connect directly.
   - If the selected network is encrypted, you have to enter the right security key (network password).

When this tool is in range, it will connect to the previously linked network automatically.

3 Register & Update

For new users, you will need to experience a user registration process before getting started.

3.1 Register & Update

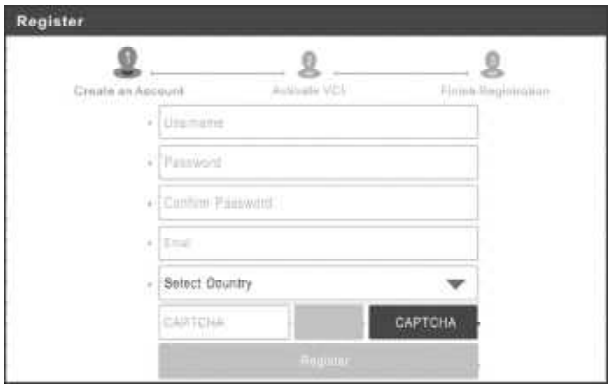
After the tablet is initialized, tap the **Login** button on the upper right corner of the screen, the following screen will appear:

(If you are a new user, follow A to proceed.)

(If you have registered to be a member, go to B to login the system directly.)

(In case you forgot password, refer to C to reset a new password.)

A. If you are a new user, tap **New Registration** to enter sign-up page.



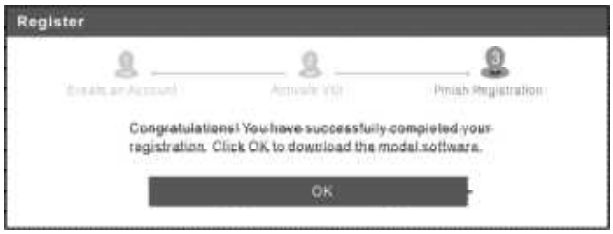
1. Create an App Account: Input the information to create a new account (all fields must be completed). When finished tap **Register**, the following screen will appear:

2. Activate VCI: Input the Product Serial Number and Activation Code, and tap **Activate** to go to the next step.

Input the Product Serial Number and Activation Code can be found in the supplied Password Envelope.

Note: To exit and activate it later, tap **Skip**. In this case, you can activate the VCI by tapping **User Info -> Activate VCI**.

After the registration is successfully complete, the wireless communication between the tablet and the VCI device is automatically established and user has no need to configure it again.



3. Finish Registration: Tap **OK** to navigate to the download page and download the diagnostic software.

   On the download page, tap **Update** to start downloading. To pause downloading, tap **Stop**. Once download is complete, the system will install the software package automatically.

Note: When downloading the diagnostic software or checking for updates, make sure the tablet has a strong signal. It may take a long time to finish it, please be patient to wait.

B. If you have registered to be a member, input your name and password, and then tap the **Login** button to enter the main menu screen directly.

Note: The tablet has an auto-save function. Once the username and password are correctly entered, the system will automatically store it. After initial setup, it is no longer necessary to input the account information manually to log in.

C. If you forgot the password, tap **Retrieve password** and then follow on-screen instructions to set a new password.

3.2 Home screen

It mainly includes the following items:

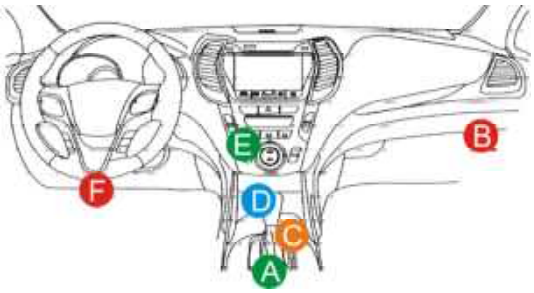
Name	Description
Intelligent Diagnose	This module allows you to obtain vehicle data from the cloud server to perform quick test via reading VIN, which provides a perfect solution to various defects resulting from step-by-step menu selection. In addition, user can also check the historical repair records online through this module.
Local Diagnose	Diagnose a vehicle manually.
Service Function	It offers coding, reset, relearn and more service functions, to help vehicles get back to functional status after repair or replacement.
Remote Diagnose	There are two remote diagnostics platforms available: SmartLink Super remote diagnostics solution and X-431 Remote Diagnostics.
TPMS	Configures this tool as a professional TPMS (Tire Pressure Monitoring System) service tool. It provides the ability to activate tire pressure information, program tire pressure sensor and perform the TPMS relearning functions etc. It needs to work with the X-431 TSGUN device (sold separately) to perform all kinds of various TPMS functions.
Software Update	Update vehicle diagnostic software and APK.
Diagnostic History	Generally once a vehicle diagnosis is performed, the tablet will automatically save every details of diagnostic process. This function provides a quick access to the tested vehicles and users can resume from the last operation, without starting from scratch.
Feedback	Feedback the recent 20 diagnostic logs to us for issue analysis.
ADAS	This function enables users to perform ADAS (Advanced Driver Assistance System) calibration operations. The ADAS calibration software is disabled by default. Before using this function, users must activate the ADAS function using the ADAS Activation Card.
Mall	An online diagnostic software store. This module enables you to subscribe some extra software or service functions that are not integrated in the tool online.
Vehicle Coverage	Check the vehicle models that the tool covers.
Info Center	Includes the tool information (user manual and FAQ), general information (training videos, product catalogue etc) and repair information (DTC help and technology handbook).
User Info	Manage VCI, diagnostic reports & records, change password, configure printer, sample data and logout / login etc.
Other Modules	Include the add-on modules and some frequently used built-in apps.

4 Connections

4.1 Preparation

- The ignition is turned on.
- The vehicle battery voltage range is 9-14V or 18-30V.
- The throttle is in closed position.
- Find DLC location:

  For passenger cars, the DLC(Data Link Connector) is usually located 12 inches from the center of the instrument panel, under or around the driver's side for most vehicles. For some vehicles with special designs, the DLC location may vary. Refer to the following figure for location.



A. Opel, Volkswagen, Audi

B. Honda

C. Volkswagen

D. Opel, Volkswagen, Citroen

E. Changan

F. Hyundai, Daewoo, Kia, Honda, Toyota, Nissan, Mitsubishi, Renault, Opel, BMW, Mercedes-Benz, Mazda, Volkswagen, Audi, GM, Chrysler, Peugeot, Regal, Beijing Jeep, Citroen and other most popular models

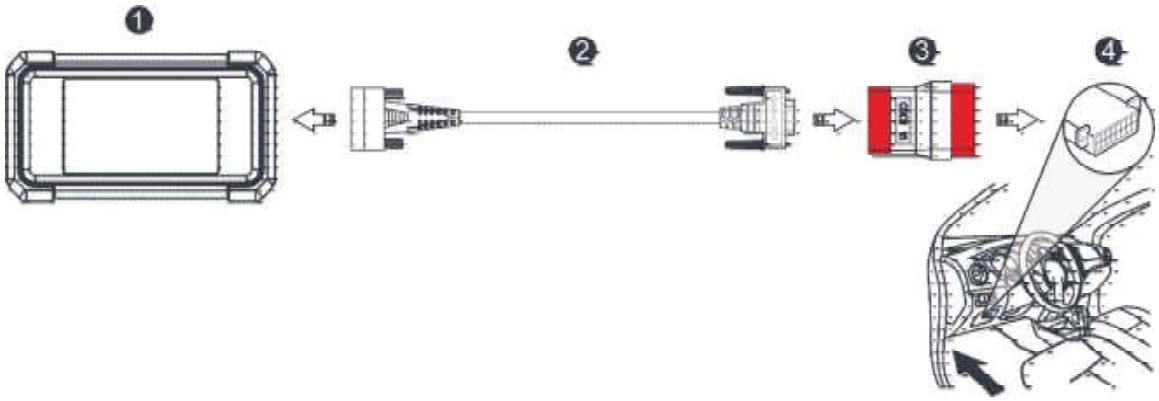
If the DLC cannot be found, refer to the vehicle's service manual for the location.

For commercial vehicles, the DLC is always located in driver's cab.

4.2 Vehicle Connection

The method used to connect the VCI device to a vehicle's DLC depends on the vehicle's configuration as follows:

For OBD II vehicles, use the diagnostic cable (2) and OBD II adaptor (3) to connect the VCI to the vehicle's DLC port.



1. VCI
2. Diagnostic cable
3. OBD II adaptor

4. Vehicle's DLC port

For non-OBDII vehicle, refer to the above figure to make connection.

1. Select the appropriate adaptor according to the vehicle's DLC port type (4).
2. Replace the OBD II adaptor (3) with the target adaptor on the above figure. Other steps shall also apply.

If you choose to perform vehicle diagnosis via data cable, connect one end of the data cable into the VCI, and the other end into the USB port of the tablet.

4.3 Communication Setup

There are two kinds of ways available for the tablet to communicate with the VCI device: wireless and wired (USB).

After the user registration is successfully finished, the wireless communication between the tablet and the VCI device is automatically established and user has no need to configure it again.

The USB connection is a simple & quick way to establish communication between the tablet and the VCI. After properly connecting the data cable from the tablet to the VCI, the VCI navigation button at the bottom of the screen will be enabled indicating the USB connection is successful.

Note: The USB connection provides the most stable and fastest communication. When all communication methods are applied at the same time, the tablet will use the wired communication as the default priority.

5 Diagnosis

5.1 Intelligent Diagnose

Through simple wireless communication between the tablet and VCI, you can easily get the VIN (Vehicle Identification Number) information of the currently identified vehicle. Once the VIN is successfully identified, the system will retrieve it from the remote server and then guide you to vehicle information page without performing the step-by-step manual menu selection.

The vehicle information page lists all historical diagnostic records of the vehicle, which lets the technician have a total command of the vehicle faults. In addition, a quick dial to Local Diagnose and diagnostic function are also available on this page for reducing the roundabout time and increasing productivity.

Notes:

- Before using this function, please make sure the VCI is properly connected to the vehicle's DLC port. For detailed connection, see Chapter 4.2.
- A stable network connection is required for this function.

Follow the steps below to proceed.

1. Tap **Intelligent Diagnose**, the following screen will appear.

2. After pairing is complete, the tablet starts reading the vehicle VIN.

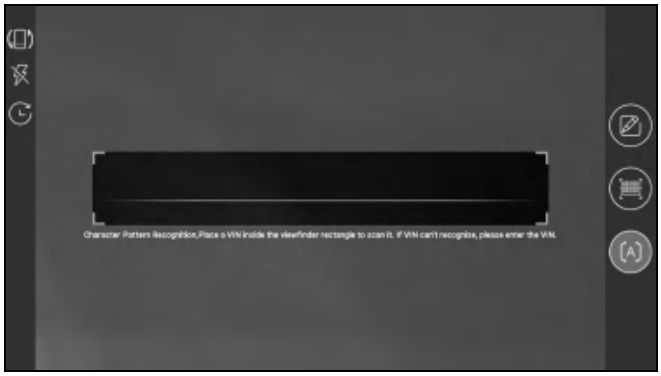
A. If the VIN can be found from the remote server database, the following screen will appear:

- Tap **Diagnostic** to start a new diagnostic session.
- To perform other functions, tap **Quick access** to directly go to the diagnostic function selection screen. Choose the desired one to start a new diagnostic session.
- Tap **Scan History** to view its historical repair record. If there are records available, it will be listed on the screen in sequence of date. If no records exist, the screen will show *No Record*.

- Tap **View record** to view the details of the current diagnostic report.
- To perform other functions, tap **Quick access** to directly go to the diagnostic function selection screen. Choose the desired one to start a new diagnostic session.

B. <u>If the tablet failed to access the VIN information</u>, the following screen will appear:

- Tap the input field to directly, tap **OK**. If the VIN exists on the remote server, the system will enter the diagnostic function selection screen.
- Tap to launch the VIN recognition module.



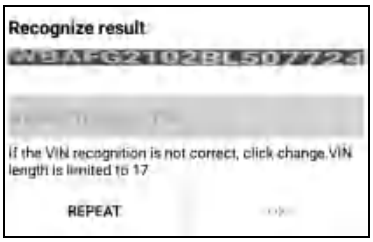
Place the VIN inside the viewfinder rectangle to scan it. The most recognizable location for this number is in the top left corner on the vehicle's dashboard. Other locations include the driver's door or post, and the firewall under the hood.

- Tap to switch the display mode of the screen.
- Tap to turn the camera flash on.
- Tap to choose it from the record list if the VIN of the vehicle has been scanned before.
- 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.

Note: In general, vehicle identification numbers are standardized - all contain 17 characters. VIN characters may be

capital letters A through Z and numbers 1 through 0; however, the letters I, O and Q are never used in order to avoid mistakes of misreading. No signs or spaces are allowed in the VIN.

After scanning, the screen automatically displays the result.



- If the VIN scanned is incorrect, tap the result field to modify it and then tap **OK**.
- To scan it again, tap **REPEAT**.

If the VIN exists on the remote server, the system will enter the diagnostic function selection screen.

5.2 Local Diagnose

Tap **Local Diagnose** to enter the vehicle selection page.

2 approaches are provided for you to access the vehicle diagnostic software. Choose any one of the following ways:

1. VINSCAN enables you to access it more quickly.

Tap **VINScan**, the following screen will appear:

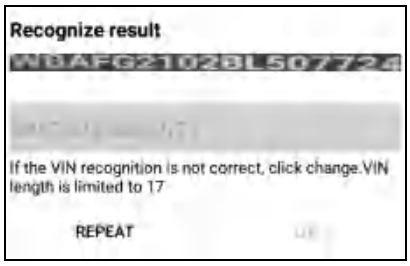
In this case, camera scan and enter VIN are available.

A. Camera Scan: In this mode, the VCI should be connected to the vehicle's DLC port first, and then a wireless communication should be established between the tablet and the VCI.

Tap **Camera Scan**, the following screen will appear:

Place the VIN inside the viewfinder rectangle to scan it.

After scanning, the following screen will appear.



If the VIN scanned is incorrect, tap the result field to modify it and then tap **OK**. If the VIN exists on the remote server, the system will navigate to the diagnostic function selection screen directly.

Tap the desired option to perform the corresponding diagnostic function.

Note: Before using this function, the corresponding diagnostic software and Auto search file need to be downloaded on your tool first while downloading the diagnostic software.

B. INPUT VIN: In this mode, you can input the vehicle VIN manually. In general, the vehicle identification numbers are standardized - all contain 17 characters. VIN characters may be capital letters A through Z and numbers 1 through 0; however, the letters I, O and Q are never used in order to avoid mistakes of misreading. No signs or spaces are allowed in the VIN.

Tap **Enter VIN**, the following screen will appear.

Input the VIN, and tap **OK**, the tablet will automatically identify the vehicle model and directly navigate to the diagnostic function selection menu.

2. Tap a corresponding diagnostic software logo, and then follow the on-screen instruction to access the diagnostic software.

Take Demo (V15.21) as an example to demonstrate how to diagnose a vehicle.

1). Select diagnostic software version: Tap the **DEMO** to go to Step 2.

On-screen Buttons:

Vehicle Coverage: Tap to view the vehicle models that the current diagnostic software covers.

What's new: Tap to view the optimized items and enhancements.

Introduction: Tap to check the software function list.

Note: Tap to read some precautions on using the current diagnostic software.

OK: Tap it to go to next step.

The diagnostics toolbar contains a number of buttons that enable various procedures. It is displayed at the top of the vehicle diagnostic screen throughout the whole diagnostic session. Refer to the table below for a brief description of the functions of the diagnostics toolbar buttons:

Home: Return to the home screen.

Print: Tap to print the selected screenshots out via external printer. The printer needs to be configured separately. For details on printer setting, refer to Chapter 10.11.3.

Exit: Exit the diagnostic application.

2). Select vehicle model (varies with different versions): Select the desired vehicle model. Here we take **Ford** for example to demonstrate how to diagnose a vehicle.

3). Read vehicle information: After reading the vehicle information, double check if the vehicle information is correct or not. If yes, tap **Yes** to continue.

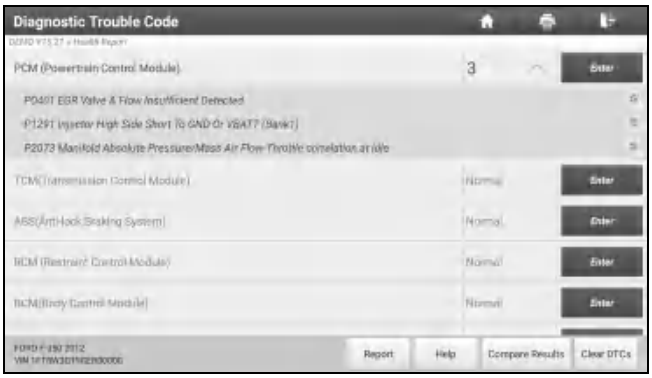
4). Select test item: Select the desired test item to proceed.

5). Turn the ignition key to ON: Set the ignition switch to on.

5.2.1 Health report (Quick Test)

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

On the test item selection screen, tap **Health Report** and turn on the ignition switch, the system will start scanning the ECUs. Once the scanning process is complete, the following screen will appear:



The tested system with fault code appears in red and the system with OK displays in green (normally).

Note: Diagnostic Trouble Codes or Fault Codes can be used to identify which engine systems or components that are malfunctioning. Never replace a part based only on the DTC definition. Retrieving and using DTCs for troubleshooting vehicle operation is only one part of an overall diagnostic strategy. Follow testing procedures (in vehicle's service manual), instructions and flowcharts to confirm the locations of the problem.

On-screen Buttons:

Enter: Tap to enter the diagnostic function selection screen.

(Search): Highlight certain diagnostic trouble code and tap it to retrieve it in the search engine.

Report: Tap to save the diagnostic result as a health report.

Note: Diagnostic report is classified into three categories: Pre-Repair report, Post-Repair report and Diagnostic Scan. No matter which type you saved the report as, the report type will be appended as a tag on the upper right corner of the diagnostic report for easier identification.

Tap ▼ to select the report type from the option list and input the required information, and then tap **OK**.

Note: To facilitate the comparison of the pre-repair and post-repair reports and get accurate test result, please make sure you saved the right type of the diagnostic report.

To save the report as a common diagnostic report, select **Diagnostic Scan**.

Note: For workshop information, tap the input box to enter it. Alternatively you can also set it in **User Info -> Settings -> Shop Information**.

Once you configured the information, it will be automatically generated every time you saved the diagnostic report. All vehicle and workshop information will be appended as tags on the diagnostic report.

To ignore the workshop information, tap **Skip** to go to the report details screen.

On the report details screen, tap **Save** to save it. All diagnostic reports are saved in **User Info -> My Report -> Health Report**.

Help: Tap to view the help information of the selected DTC item.

Compare Results: Tap to select the pre-repair report to compare. By comparison of the pre- and post- repair reports, you can easily identify which DTCs are cleared and which remain unfixed.

- **Post** indicates DTC status of post-repair.
- **Pre** indicates DTC status of pre-repair.

Note: Before performing this function, please make sure that:

- You have saved a pre-repair report of the currently tested vehicle, and
- You have already made some repairs and service and cleared the DTCs after the pre-repair reported is generated. Otherwise, no differences exist between the pre- and post- repair reports.

Clear DTCs: Tap to clear the existing diagnostic trouble codes.

Note: Clearing DTCs does not fix the problem(s) that caused the code(s) to be set. If proper repairs to correct the problem that caused the code(s) to be set are not made, the code(s) will appear again and the check engine light will illuminate as soon as the problem that cause the DTC to set manifests itself.

5.2.2 System scan

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

On the test item selection screen, tap **System Scan**, the system start scanning the systems. Once the scanning process is complete, the following screen will appear.

Tap the desired system to go to the diagnostic function selection screen. For detailed operations on diagnostic function, please refer to Chapter 5.2.3.

5.2.3 System selection

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

On the test item selection screen, tap **System Selection**, the screen displays as follows:

Swipe the screen from the bottom to view the vehicle system on the next page.

Tap the target system (take **ECM** for example) to navigate to the diagnostic function selection screen.

Note: Different vehicle has different diagnostic menus.

A. Version Information

This function is used to read the version information of system mode, vehicle VIN, software and ECU.

B. Read Fault Code

This function displays the detailed information of DTC records retrieved from the vehicle's control system.

Caution: Retrieving and using DTCs for troubleshooting vehicle operation is only one part of an overall diagnostic strategy. Never replace a part based only on the DTC definition. Each DTC has a set of testing procedures, instructions and flow charts that must be followed to confirm the location of the problem. This information can be found in the vehicle's service manual.

On the diagnostic function selection screen, tap **Read Fault Code**, the screen will display the diagnostic result.

On-screen Buttons:

Freeze Frame: When an emission-related fault occurs, certain vehicle conditions are recorded by the on-board computer. This information is referred to as freeze frame data. Freeze frame data includes a snapshot of critical parameter values at the time the DTC is set.

Help: Tap to view the help information.

Code Search: Tap to search for more information about the current DTC online.

Report: Tap to save the current data in text format. All reports are saved in **User Info -> My Report -> Health Reports**. For details on report operations, please refer to Chapter 10.1 **My Report**.

C. Clear Fault Code

This function enables you to erase the codes from the vehicle after reading the retrieved codes from the vehicle and certain repairs have been carried out. Before performing this function, make sure the vehicle's ignition key is in the ON position with the engine off.

Clearing DTCs does not fix the problem(s) that caused the code(s) to be set. If proper repairs to correct the problem that caused the code(s) to be set are not made, the code(s) will appear again and the check engine light will illuminate as soon as the problem that cause the DTC to set manifests itself.

On the diagnostic function selection screen, tap **Clear Fault Code**, a confirmation dialog box will appear.

Tap **YES**, the system will automatically delete the currently existing trouble code.

Note: After clearing, you should retrieve trouble codes once more or turn ignition on and retrieve codes again. If there are still some trouble codes in the system, please troubleshoot the code using a factory diagnosis guide, then clear the code and recheck.

D. Read Data Stream

This option lets you view and capture (record) real-time Live Data. This data including current operating status for parameters and/or sensor information can provide insight on overall vehicle performance. It can also be used to guide vehicle repair.

Caution: If you must drive the vehicle in order to perform a troubleshooting procedure, ALWAYS have a second person help you. Trying to drive and operate the diagnostic tool at the same time is dangerous, and could cause a serious traffic accident.

Note: The real time (Live Data) vehicle operating information (values/status) that the on-board computer supplies to the tool for each sensor, actuator, switch, etc. is called Parameter Identification Data (PID).

On the diagnostic function selection screen, tap **Read Data Stream**, the following screen will appear.

On-screen Buttons:

Select Page: Tap to select all items of the current page.

Select All: Tap to select all items. To select certain data stream item, just check the box before the item name.

Unselect: Tap to deselect all data stream items.

OK: Tap to confirm and jump to the next step.

After selecting the desired items, tap **OK** to enter the data stream reading page.

Notes:

1. If the value of the data stream item is out of the range of the standard (reference) value, the whole line will display in red. If it complies with the reference value, it displays in blue (normal mode).
2. The indicator 1/X shown on the bottom of the screen stands for the current page/total page number. Swipe the screen from the right/left to advance/return to the next/previous page.

There are 3 types of display modes available for data viewing, allowing you to view various types of parameters in the most suitable way.

✓ Value – This is the default mode which displays the parameters in texts and shows in list format.

✓ Graph – Displays the parameters in waveform graphs.

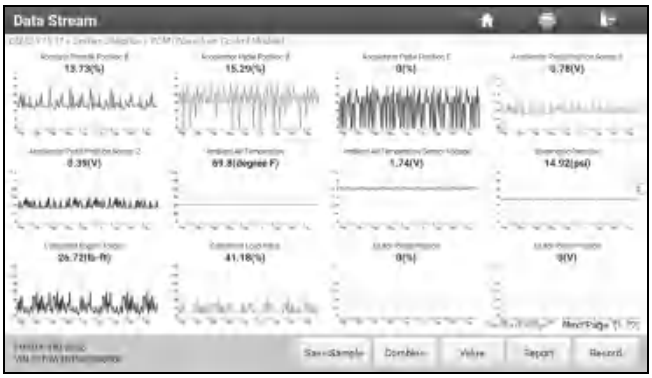
✓ Combine – This option is mostly used in graph merge status for data comparison. In this case, different items are marked in different colors.

On-screen Buttons:

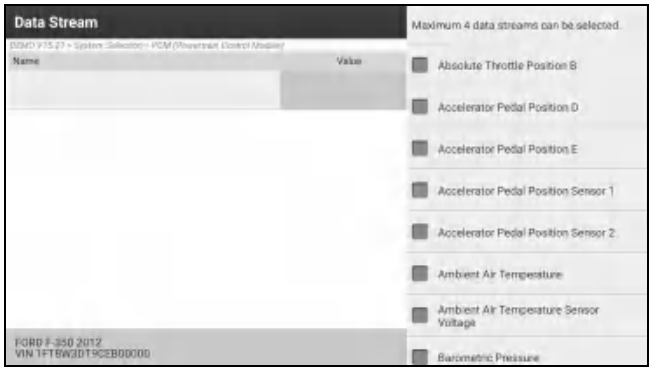
Graph(Single): Tap to view the parameter in waveform graph.

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

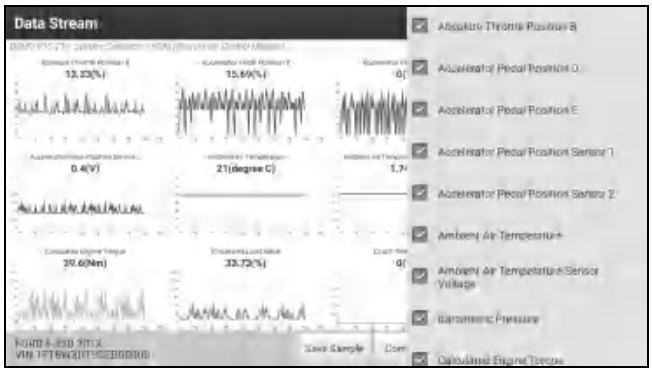
Graph: Tap to view the parameters in waveform graphs.



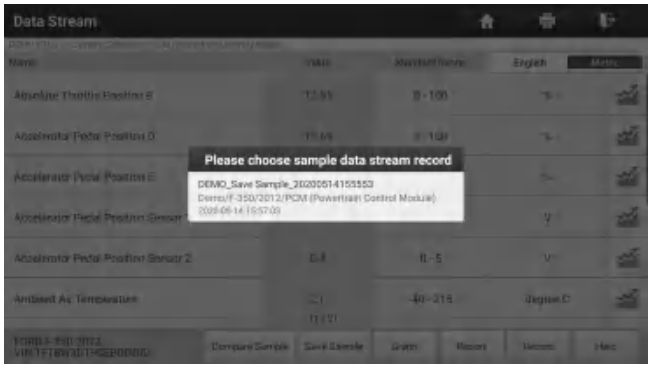
- **Combine**: This option is mostly used in graph merge status for data comparison. In this case, different items are marked in different colors (maximum 4 items can be displayed on the same screen simultaneously). If the graph is more than one page, swipe the screen from the left to jump to the next page.



- **Value**: Switches the current graph display mode to the Value display mode.
- **Customize**: Tap <, a pull-down list of the data stream items appears on the screen. Select / deselect the desired items, and then screen will display / remove the waveforms corresponding to these items immediately.



Compare Sample: Tap to select the sample DS file.



All the values you customized and saved in process of DS sampling will be imported into the **Standard Range** (See below) column for your comparison.

Note: Before executing this function, you have to sample the values of data stream items and save it as a sample Data Stream file.

Report: Tap to save the current data in text format. All reports are saved in **User Info -> My Report -> Health Reports**. For details on report operations, please refer to Chapter 10.1.

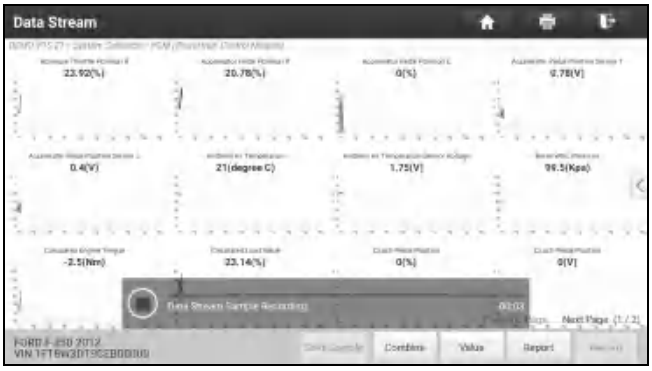
Record: Tap to start recording diagnostic data. Recorded live data can serve as valuable information to help you in troubleshooting of vehicle problems.

Tap ⏹ to end recording and save it. The saved file follows the naming rule: It begins with vehicle type, and then the product S/N and ends with record starting time (To differentiate between files, please configure the accurate system time).

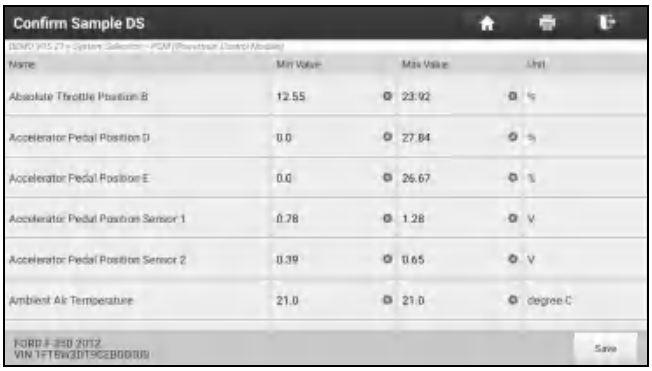
All diagnostic records can be replayed from **User Info -> My Report -> Recorded Data**.

Save Sample: This item enables you to customize the standard range of live data stream items and save it as DS sample file. Each time you run the data stream items, you can call out the corresponding sample data to overwrite the current standard range.

Tap it to start recording the sample data (Note: Only data stream items with measurement units will be recorded), the following screen will appear:



Once the recording process is complete, tap ⏹ to stop it and navigate to the data revision screen.



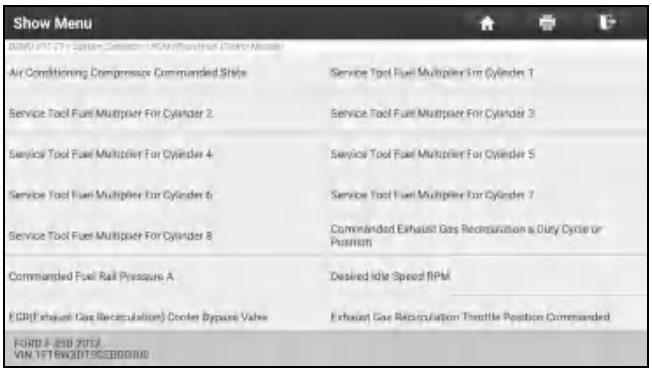
Tap the Min./Max. value to change it. After modifying all desired items, tap **Save** to save it as a sample DS file. All DS files are stored in **User Info -> Data Stream Sample**.

E. 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 display 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 a injector between two operating states.

On the diagnostic function selection screen, tap **Actuation Test**, the system will display as follows:



Simply follow the on-screen instructions and make appropriate selections to complete the test.

Each time when an operation is successfully executed, “Completed” displays.

F. Special Function

It offers coding, reset, relearn and more service functions, to help vehicles get back to functional status after repair or replacement.

5.2.4 ADAS calibration

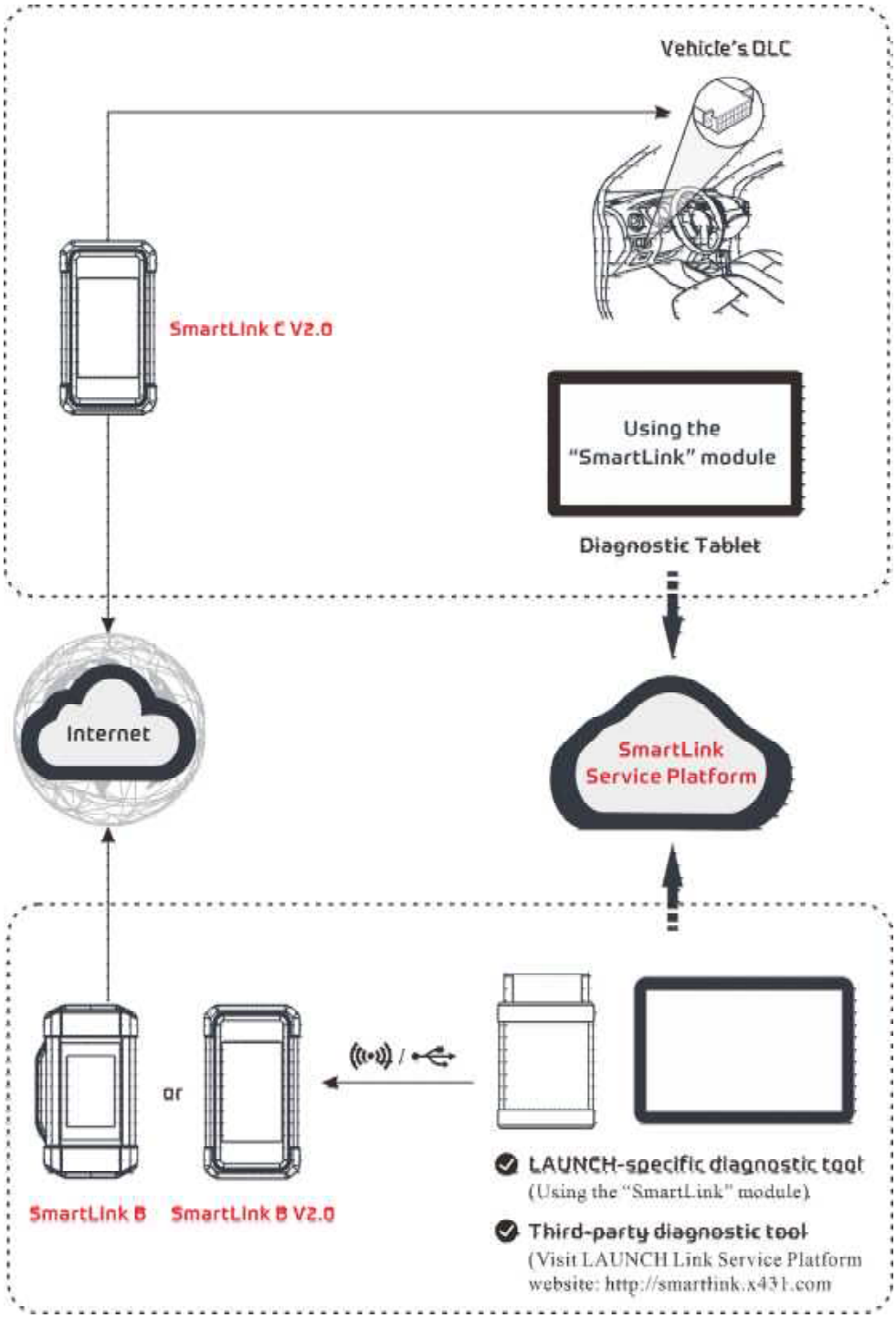
This function enables users to perform ADAS calibration operations. The ADAS calibration software is disabled by default. Before using this function, users must activate it using the ADAS Activation Card.

5.3 Remote Diagnose

5.3.1 SmartLink Super Remote Diagnostics

SmartLink is a newly developed powerful service system dedicated to remote vehicle diagnosis and service. In the SmartLink ecology system, if a technician (SmartLink C V2.0) does not have time to puzzle through a touch vehicle problem, he can seek a trusted second opinion or additional expertise on various vehicle issues from remote master technicians or repair shops (SmartLink B). SmartLink B enables the shop owner to greatly increase customer’s retention and boost shop revenue by providing the professional technical assistance service.

It mainly consists of the following parts:



- **SmartLink Service Platform** – It can be accessed from the **SmartLink** module of the diagnostic tablet. There are two modules available on the link service platform: **Common user** (for SmartLink C V2.0) and **Service provider** (for SmartLink B).
- **SmartLink C V2.0 (Customer)** - ***SmartLink Service Subscriber***. In the SmartLink system, the SmartLink C V2.0 needs to perform the following operations.

  1). Launch Service Link Platform: Binds SmartLink C V2.0 dongles and submits remote repair orders.

  2). SmartLink C V2.0 Dongle: Connects to the vehicle's DLC port for collecting the vehicle data and sends it to the remote SmartLink B.

  It supports remote diagnostic services for vehicles that meet CAN / CAN FD / J2534 vehicle diagnostic standards.
- **SmartLink B / SmartLink B V2.0 (Business)** - ***SmartLink Service Provider***. In the SmartLink system, the

SmartLink B / SmartLink B V2.0 needs to perform the following operations.

1). Launch Service Link Platform: Binds SmartLink B / SmartLink B V2.0 dongle and accepts orders from SmartLink C V2.0.

- If the SmartLink B / SmartLink B V2.0 dongle works with the LAUNCH-specific diagnostic tool equipped with SmartLink module, tap **SmartLink** to add the SmartLink B / SmartLink B V2.0 device and accepts orders on the diagnostic tool.
- If the SmartLink B / SmartLink B V2.0 dongle works with the third-party diagnostic tool, open the browser and visit SmartLink Service Platform website http://smartlink.x431.com (web client) to add the SmartLink B / SmartLink B V2.0 device and accepts orders in the browser.

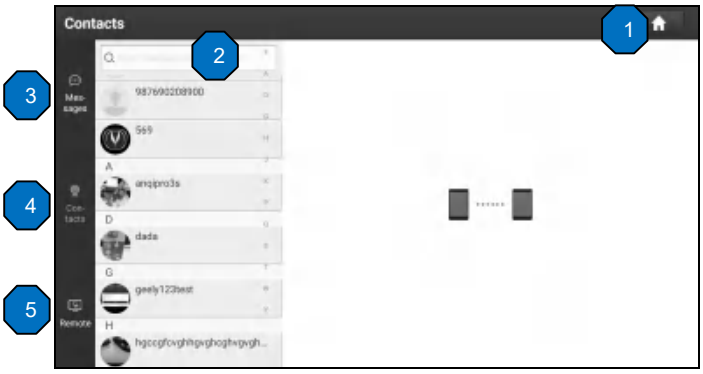
2). SmartLink B / SmartLink B V2.0 Dongle: After accepting the orders, it can work with the compatible diagnostic tool to perform diagnosis of the vehicle connected to the SmartLink C V2.0 dongle.

For more detailed operations, refer to the User Manual integrated in the SmartLink Platform.

5.3.2 X431 Remote Diagnostics

This option aims to help repair shops or technicians launch instant messaging and remote diagnosis, making the repair job getting fixed faster.

Tap **Remote Diagnose -> X431 Remote Diagnosis** to enter the following screen.



1	Home button	Tap it to navigate to the home screen.
2	Search bar	Directly input the registered username of the tool to start searching, and then tap the desired one to add it into your friend list.
3	Messages tab	Once an incoming message reaches, a red dot will appear on the upper right corner of the tab.
4	Contacts tab	Tap to enter the friend list.
5	Remote	Tap to slide the switch to ON, the tool will become accessible on the web client. In this case, inform the technician of your product S/N, and he/she will control your device remotely.

1. Adding friends

Tap **Contact** to enter the contact page. By default it appears blank.

In the search bar, input the partner's username and tap **Search** button next to the search bar to starts searching from Launch's business database.

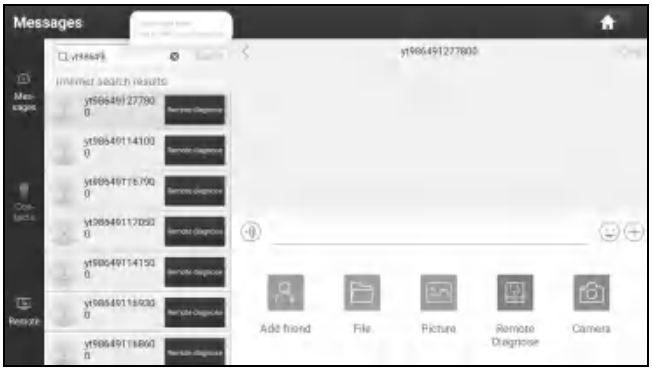
The partner must be the users who have registered their Launch-specific diagnostic tools. They may be the following:

- Workshop
- Technician
- golo users

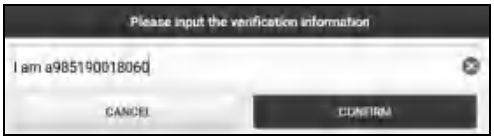
Once the result matches the keyword, the following screen will appear:

Tap **Remote Diagnose** to launch remote diagnostics directly or follow the steps below to add the partner into the Contacts list.

Tap the desired name from the list, the following screen will appear:



Tap **Add friend**, a dialog box pops up:



Tap **CONFIRM** to send your request.

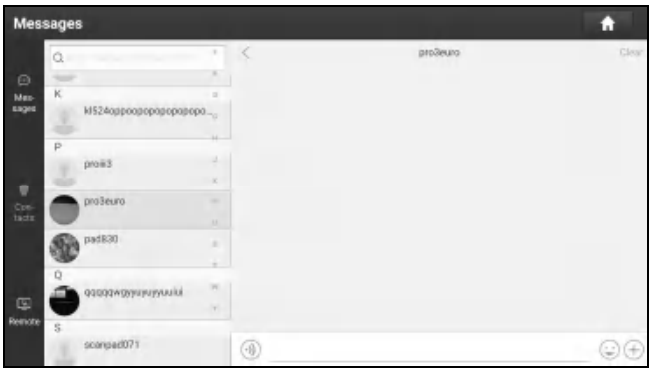
Once the partner receives the request, a beep will sound. Tap the **Message** tab:

- Once the partner agreed your request, he/she will automatically be listed in the ***Contacts*** tab.
- If a technician sent you a friend request, tap **Agree** and his/her name will appear in the friend ***(Contacts)*** list. Or tap **Ignore** to ignore this request.

2. Start instant messaging

Note: The I/M (Instant Messaging) function is open to all users who had Launch's diagnostic tool equipped with this module.

After adding your friends, tap the desired one's photo to enter a screen similar to the following figure:

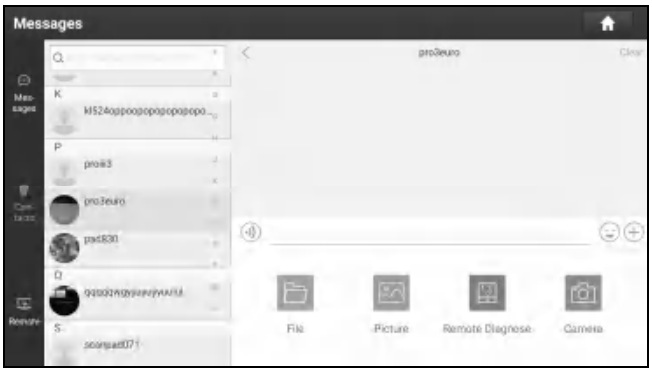


Tap the input field and use the on-screen keyboard to enter the text message, and then tap **Send** to send it.

Tap to send the voice message.

Tap to send the emoj.

Tap to call out more function options.



File: Choose diagnostic reports or local files to send.

Picture: Choose screenshots or pictures to send.

Remote Diagnose: To start a remote diagnostic session. For details, refer to Chapter 5.3.4.

Camera: Open camera to take pictures.

Tap **Clear** to delete all the partner's dialog logs.

Tap **Close** to close the current dialog.

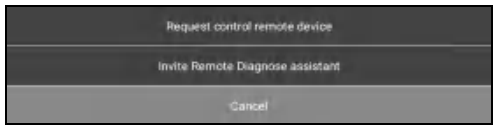
3. Launch remote diagnosis (Device-To-Device)

The tool is allowed to initiate remote diagnosis with other diagnostic tools (including but not limited to the X-431 PAD V of Launch family, which are equipped with this module.

Notes: Before performing this operation, please make sure the following no matter which side sends the remote request:

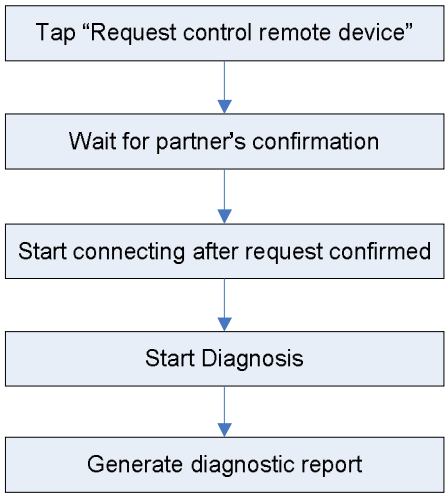
- Turn on the vehicle power supply.
- Throttle should be in a closed position.
- The tool should be properly connected to the vehicle's DLC and a successful communication is required.

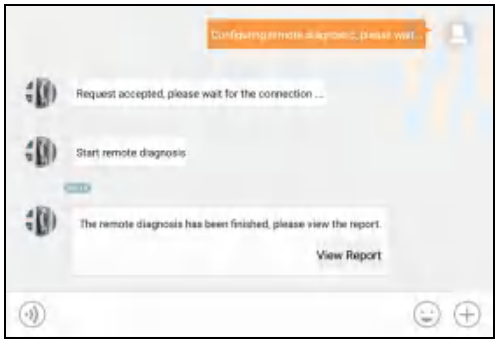
On the function option selection screen, tap **Remote Diagnostic**, the following screen will appear:



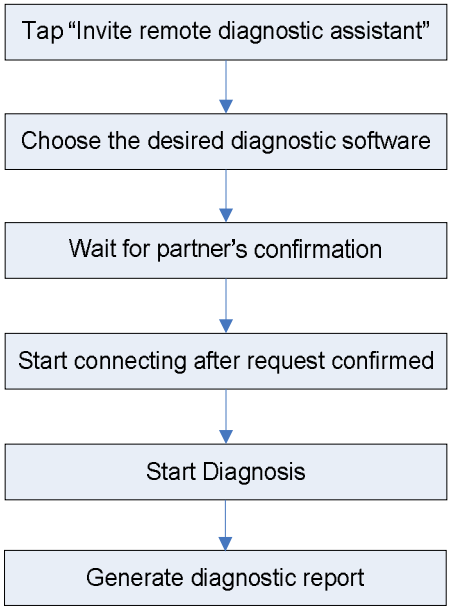
These options are defined as follows:

Actions	Results
Request control remote device	Request to control the partner's device remotely to help him diagnose the vehicle.

<table>
<tr>
<td></td>
<td>
Notes:
• Remote diagnosis has the same diagnostic steps as manual diagnosis.
• In process of remote diagnosis, tap the button to send a voice message.
• Once vehicle diagnosis is complete, a report will be created. Input your comments on this report, and then tap Send Report to send it to the partner.


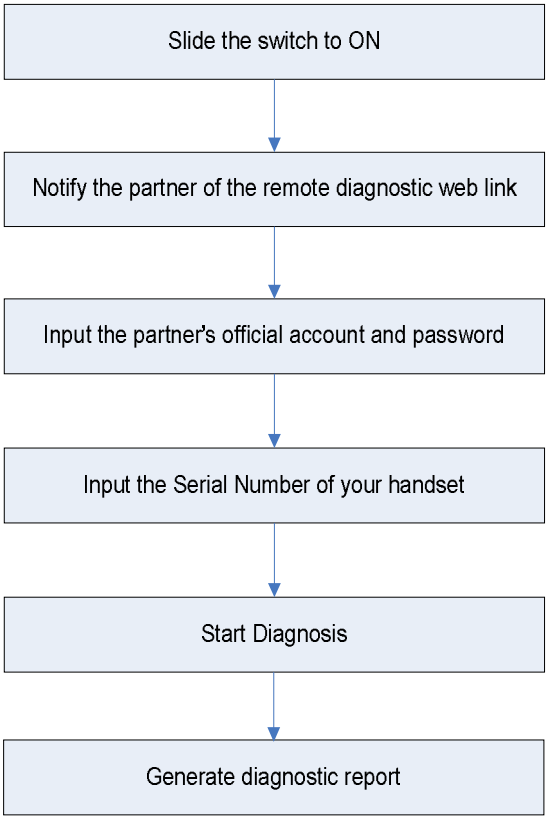
</td>
</tr>
<tr>
<td>Invite remote diagnostic assistant</td>
<td>
If you need support, just use this option to invite a technician to perform a remote control on your tool.
Notes:
• Remote diagnosis has the same diagnostic steps as manual diagnosis.
• In process of remote diagnosis, tap the button to send voice message.
• Once you received the report from the partner, tap View Report to view its details. All diagnostic reports are saved in User Info -> My Reports -> Remote Reports.


</td>
</tr>
</table>

	
Cancel	To cancel this operation.

4. Launch remote diagnosis (Device-To-PC)

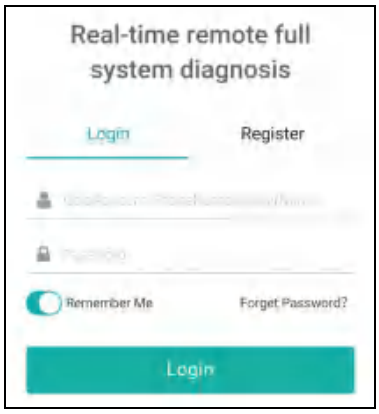
Except that the remote diagnosis can be done between different Launch's diagnostic tools that come loaded with the module, user also can ask for remote control from PC client technician.



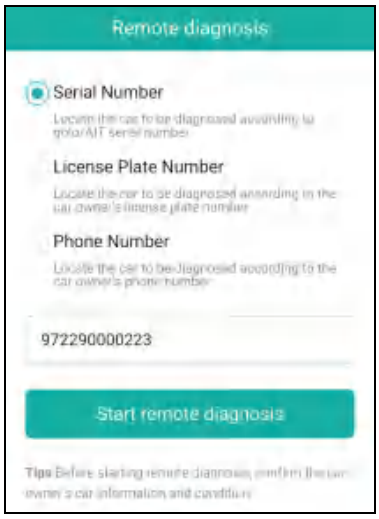
Tap the **Remote** tab, the following screen will appear:

1. Slide the switch **Allow device to be connected to the WEB client remote diagnostic device** to ON so that the partner can find and connect to this device while using the PC.
2. Notify the partner of the PC client website http://remote.x431.com. When the partner accesses the link, the following screen will appear:

Note: Before processing remote diagnosis, please make sure the tool is properly connected to the vehicle.



3. Tell the partner to input his own official technician account and password, and then tap **Login** to navigate to the following figure.



4. Tell the partner to check the box **Serial number** and enter the Serial Number provided by you, and then tap **Start remote diagnosis** to control your device remotely.

   In process of remote diagnosis, please note the following things:

   1) You are not suggested to execute any actions.

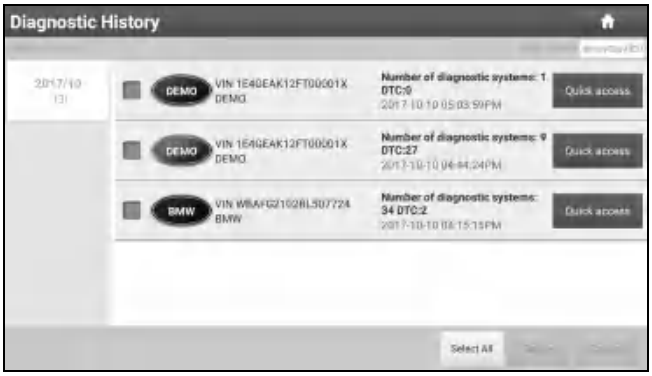
   2) The partner is not allowed to save any diagnostic reports or records on your tool.

The operations in remote diagnosis are same as those in local diagnose. Once the session is complete, a remote diagnostic report will be automatically generated.

5.4 Diagnostic History

When a vehicle diagnosis is performed, the tablet records the detailed diagnostic information. The History function allows access to previously tested vehicle records. Testing can be resumed from the previous operation without starting from scratch.

Tap **Diagnostic History** on the home screen, all diagnostic records will be listed on the screen in date sequence.

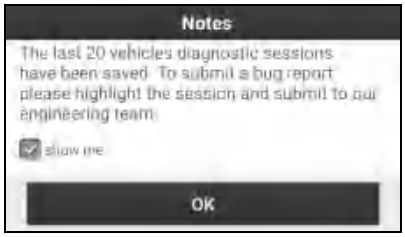


- Tap certain vehicle model to view the details of the last diagnostic report.
- To delete certain diagnostic history, select it and then tap **Delete**. To delete all historical records, tap **Select All** and then tap **Delete**.
- Tap **Quick access** to directly navigate to the function selection page of last diagnostic operation. Choose the desired option to proceed.

5.5 Feedback

This item allows you to feedback your diagnostic problems to us for analysis and troubleshooting.

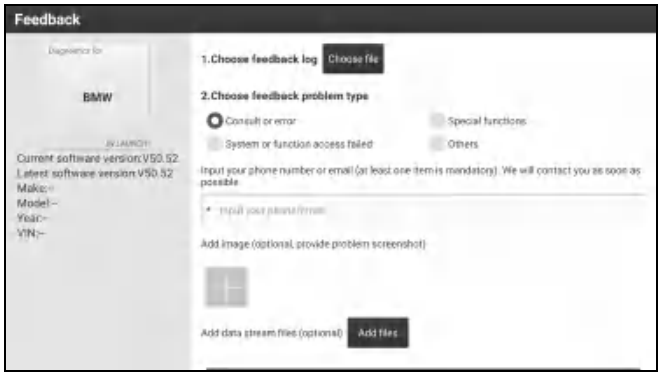
Tap **Feedback**, a pop-up message will appear.



Tap **OK** to choose the vehicle diagnostic record page.

A. Feedback

Tap certain tested vehicle model to enter the feedback screen.



1) Tap **Choose File** to open the target folder and choose the desired diagnostic logs.
2) Choose the failure type and fill in the detailed failure description in the blank text box and telephone or email address. After inputting, tap **Submit Result** to send it to us.

B. History

Tap it to view all diagnostic feedback records. Different process states are marked with different colors.

C. Offline list

Tap it to display all diagnostic feedback logs which have not been submitted successfully due to network failure. Once the tablet gets a stable network signal, it will be uploaded to the server automatically.

6 Service Function

This module provides an easy dial to quickly access the most commonly performed service functions. It offers coding, reset, relearn and more service functions, to help vehicles get back to functional status after repair or replacement.

The following service functions described below are based on the latest information available at the time of publication.

Due to continuing improvements, the available service functions are subject to change at any time. To enjoy more service functions, you are suggested to check for updates on a regular basis.

7 Software Update

This module enables you to update the diagnostic software & App and frequently used software.

7.1 Update Diagnostic Software & APP

Go to **Software Update** on the Job Menu and tap the **Downloaded** tab.

The **Available** tab displays a list of software that can be updated. Under it, all software is categorized into three kinds:

- **Common software**: mainly includes some common apps that are associated with the diagnostic app. The software of this kind always stays at the top of the list, which can be deselected manually (excluding the system app, such as firmware and ECU aid).
- **Frequently used vehicle software**: refers to the diagnostic software that is frequently used, including the vehicle diagnostic software and Reset software. It is generally displayed following the **Common software** list.
- **Other vehicle software**: refers to the diagnostic software that is rarely used or never used. It is generally displayed following the **Frequently used software** list.

1). If the user does not download any diagnostic software during the sign-up process, all diagnostic software is selected by default. Tap **Update** to start downloading.

2). If the user downloaded all/some vehicle software during the sign-up process and had it serviced for a long period of time, only the frequently used software is selected. Tap **Update** to start downloading. Other vehicle software that is rarely used will also be listed under the **Available** tab, but it is not selected at default.

To download certain software that is not frequently used, check the box before the vehicle model. Tap **Update** to start downloading.

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

7.2 Update Frequently Used software

If the user only intends to update the frequently used software, go to Software Update and tap the **Downloaded** tab.

Tap **Update** to start downloading. Once download is finished, the software packages will be installed automatically.

7.3 Renew Subscription

If the software subscription is due or expires, the system will prompt you to renew your subscription.

Tap **Renewal** on the bottom of the screen to enter the **Mall** to renew the subscription.

8 TPMS

This module allows you to configure the tablet as TPMS activation & diagnostic tool, which provides the ability to trigger TPMS sensor, program TPMS sensor, perform the relearning procedure. It needs to work with the compatible TSGUN device (sold separately).

For more details, please refer to the User Manual included with the module.

9 ADAS

This module enables you to effectively and accurately calibrate a wide range of camera-based & radar-based driver assistance systems, e.g. the front camera for the lane departure warning system, the radar sensor for the ACC (Adaptive Cruise Control) or the camera for adaptive headlights. It needs to work with the specific ADAS calibration tool (sold separately).

For more details, please refer to the User Manual included with the module.

10 User Info

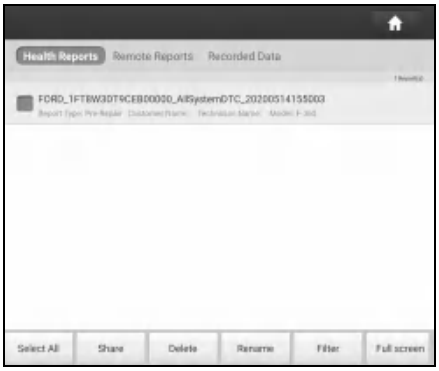
This function allows users to manage personal information and VCI.

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.

1). If the DTC result is saved on Read Trouble Code page, the files will be listed under **Health Reports** tab.



All diagnostic reports are sorted by Date and Make. Tap the desired type to re-arrange and filter it.

- To select certain report, check the box before the report. To select all reports, tap **Select All**. To deselect all, tap **Unselect**.
- To share the report with others, select the desired one and then tap **Share**.
- Select the desired report and then tap **Delete** to delete it.
- To change the filename of report, tap **Rename**.
- To quickly locate the desired report, tap **Filter**.
- To exit the full screen, tap **Exit full screen**.

2). **Remote Reports** lists all diagnostic reports generated in process of remote diagnosis.

3). If user records the running parameters while reading data stream, it will be saved as .x431 file and appear under **Recorded Data** tab.

Tap the desired one to enter. Select the desired data stream items and tap **OK** to jump to the playback page:

On-screen Buttons:

Graph – displays the parameters in waveform graphs.

Value – this is the default mode which displays the parameters in texts and shows in list format.

Combine – this option is mostly used in graph merge status for data comparison. In this case, different items are marked in different colors.

Frame Playback – plays back the recorded data stream items frame by frame. Once it is in frame playback mode, this button changes into **Auto Playback**.

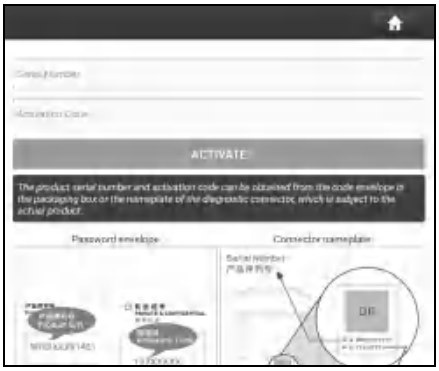
10.2 VCI

This option allows you to manage all your activated VCIs.

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

10.3 Activate VCI

This item lets you activate a new VCI.



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

10.4 Fix Connector Firmware/System

Use this item to upgrade and fix VCI firmware/system. During fixing, please do not cut power or switch to other interfaces.

10.5 Sample

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

10.6 Vehicle Voltage

This item performs a check of the vehicle's battery to ensure the system is operating within acceptable limits.

10.7 My Order

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

10.8 Subscription Renewal Card

This item is used to check the status of the subscription renewal card.

Input the 12-digit subscription renewal card number. Tap **Search** to get the search result.

10.9 Profile

Use this item to view and configure personal information.

- The profile description includes a 'placeholder' for a user photograph. Tap the user image to change it.
- Tap > next to ***Upgrade Period*** to check the due date of all diagnostic software.

10.10 Change Password

This item allows you to modify your login password.

10.11 Settings

It enables you to make some application settings and view software version information etc.

10.11.1 Units of measurement

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

10.11.2 Shop information

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

After inputting, tap **Save**.

Once you saved the print information, it will be entered automatically in the “Add Information” box every time you save the diagnostic report.

10.11.3 Printer set

This option is designed to establish a wireless connection between the tablet and the Wi-Fi printer (sold separately) while performing printing operations.

The App is compatible with the ***LAUNCH Wi-Fi Printer*** (sold separately) and ***System*** (external printer).

For LAUNCH Wi-Fi printer, refer to the User Manual included with the Wi-Fi printer to configure the printer settings.

For other Wi-Fi printers,

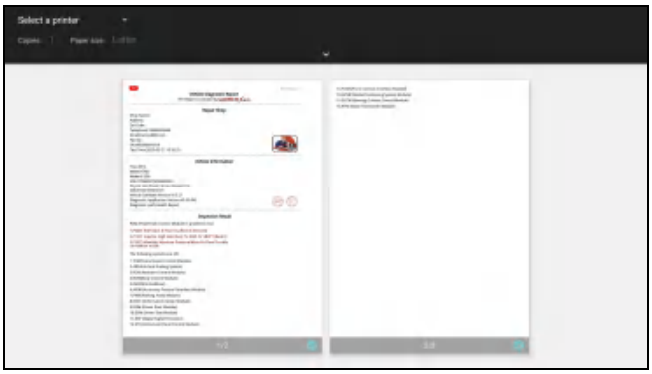
Before printing, make sure the following conditions are met:

- The Wi-Fi printer is powered on and working normally.
- The print service plug-in associated with the printer is already installed on the tablet (Go to Google Play or use the Browser to download and install it).

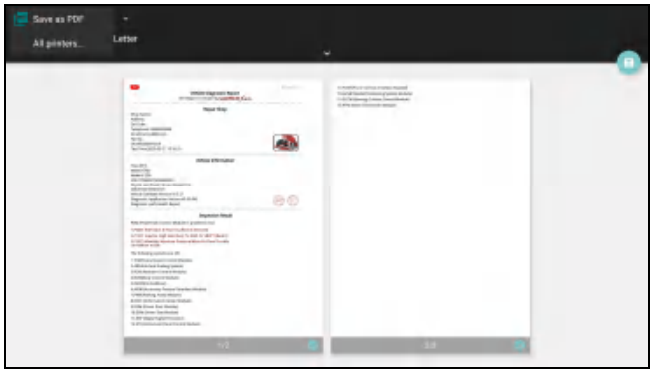
Follow the steps below to proceed:

1. Set the default printer as **System**.
2. Go to **Other Modules -> Built-in apps -> Tablet Settings -> WLAN**, set the WLAN switch to Off.
3. On the report details page, tap .

4. Touch next to **Select a printer** on the upper left corner of the screen.



5. Select **All Printers -> Add printer** and enable the installed printer service, the system starts searching for all available Wi-Fi printers of the brand.



6. Select the desired Wi-Fi printer from the list. If the chosen Wi-Fi printer hotspot is open, the tablet can connect it directly. If it is encrypted, a password may be required. Refer to the Wi-Fi printer user manual to get the default password.
7. Now the printer is ready for printing.
8. Alternatively, you can also choose ***Save as PDF*** to save the current diagnostic report as a PDF file for later printing.

10.11.4 Home screen display order

This option is used to set the display order of all function modules on the home screen.

10.11.5 Clear cache

This item is used to clear the App cache.

Tap **Clear Cache**, a pop-up window will appear on the screen. Tap **OK** to clear cache and the system will restart the App.

10.11.6 About

The software version information and disclaimer are included.

10.11.7 Diagnostic software auto update

This option is used to set whether automatic update function is ON.

10.11.8 Device account management

This option is used to manage the sub-accounts. The added sub-account allows the VCI connector to be used by different users to log in the tool, which is convenient for multiple VCIs to perform diagnostic service at the same time.

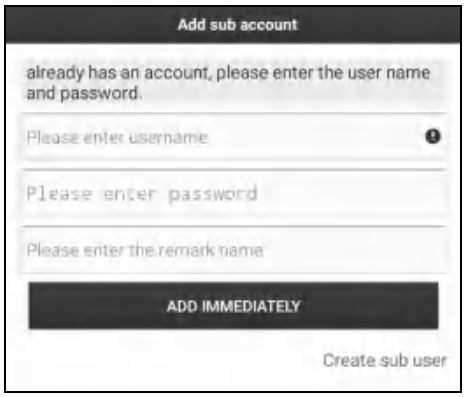
The newly added sub-account has a one-year validity period. After the expiration, the VCI bound to the sub-account cannot be used and the sub-account will no longer enjoy the rights and interests of the main account. The main account can modify the validity period of the sub-account.

There are two types of sub-accounts: one is an existing account and the other is a newly created account. The main account has the functions of adding and removing sub-accounts, the sub-account can also be unbound from the main

account.

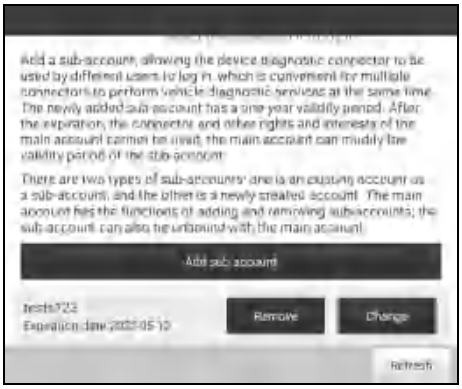
Tap **Device account management**, the following screen will appear:

Tap **Add sub account**, the following popup will appear:



- If you already have an account, please enter the user name and password. After inputting, tap **Add Immediately** to add it as a sub-account.
- If you have not registered any account, tap Create sub user. Enter the user name and password, and then tap **Add Immediately** to add it as a sub-account.

After adding the sub-account, the following screen will appear:



To unbind it from the main account, tap **Remove**. To revise the validity period, tap **Change**.

10.11.9 Login/Log out

To logout the current user ID, tap **Log Out**.

To login the system again, tap **Login**.

10.12 Diagnostic Software Clear

This item allows you to hide/clear the diagnostic software that is not frequently used.

Note: Removing software may completely delete the software from the tablet. If some software is not used and the tablet runs out of space, you can use this feature to remove it. To re-download it, go to **Software Update** -> **Available**.

11 Other Modules

11.1 Toolbox

This function includes the following add-on modules: Oscilloscope, Ignition, Sensor Simulator, Multimeter, Immobilizer Programmer, Battery Tester and Videoscope.

Each module consists of two parts: hardware and app. These modules cannot work properly on the tablet, which need to work with the specific compatible hardware (sold separately). For detailed operations, refer to the User Manual of each module.

11.2 Tablet Setting

This module provides a quick dial to the Android's system settings. Alternatively, it also can be accessed by tapping the **Settings** on the Android home screen.

11.3 Files

ES File Explorer is a file and application manager. You can access and create folders on the tablet without needing to connect it to a computer.

The app also features an application manager, task killer and download manager. Another excellent feature is support for cloud storage accounts. This means you can download files directly to the folders you want without using a separate app.

The app has built-in ZIP and RAR sources, so you can access compressed files without unpacking them on your computer first.

For more information, please refer to the associated ES file explorer documents.

11.4 Wireless Upgrade

An Over-the-Air (OTA) update is the wireless delivery of new operating system, software or data to tablets and mobile phones. Wireless carriers have traditionally used over-the-air updates to deploy firmware and configure phones or tablets for use on their network. The initialization of a newly purchased tablet required an over-the-air update.

Note: While performing OTA update, please make sure the tablet battery has at least 70% and DO NOT run any other programs during the update.

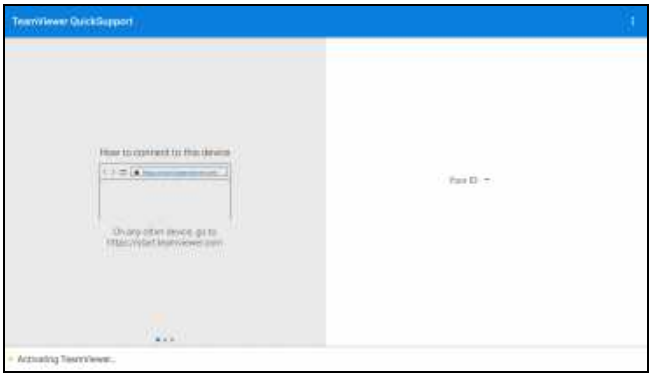
1. On the home screen, tap **Other modules -> Wireless Upgrade**.

2. Tap **Check for updates**. Once a newer version is found, follow the on-screen instructions to download and install the update file.
3. Be patient to wait until the update is done.

11.5 TeamViewer QS

This function enables you to receive remote support from technician fellows, colleagues or friends by allowing them to control your tablet on their computer view TeamViewer software.

On the home screen, tap **Other modules -> Built-in apps -> TeamViewer**. The following screen will appear:



Note: In order to provide support and take control of your tablet remotely, you partner needs to install and run the TeamViewer full version program in his computer, and have your TeamViewer ID. Visit http://www.teamviewer.com for details.

11.6 Recording Master

This module is a free and convenient application that allows you to take tablet screen video capture of high quality, with or without sound.

11.7 Browser

This browser is a free cross-platform web browser. It has gained popularity worldwide, featuring tools such as file downloads, password settings, and bookmarks. Users can load several web pages or use a search engine to find any topic on the internet.

11.8 Camera

This application allows you to take pictures or record videos with the device camera.

11.9 Gallery

This function allows you to take new pictures and manage the picture library (including screenshots).

11.10 Video Player

This video player is a media player said to be the best ever created since it supports all types of video formats.

It offers excellent features and video quality. It has great gesture controls, making video playback experience effortless and enjoyable. For instance, you can pinch to zoom, scroll for brightness and volume on respective sides, move out the video on the home screen, and can do much more.

11.11 E-Mail

It is an easy-to-use email app that saves you time and keeps your messages safe. Get your emails instantly via push notifications, read and respond online & offline, and find any email quickly.

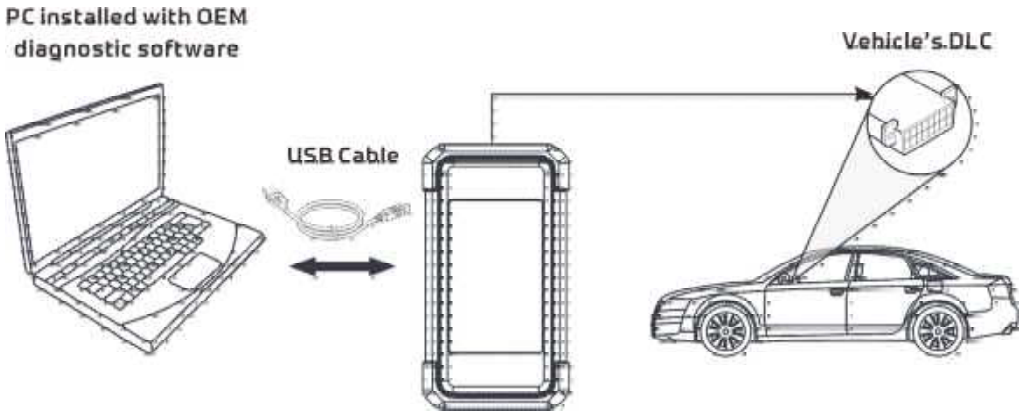
11.12 Calculator

It is a simple-to-use and responsive app. All calculations are made on-the-fly as you input new data.

12 J2534 Reprogramming Using SmartLink C V2.0

Flash programming has become a common and profitable procedure in the repair and service of today's vehicles. As part of the 21st Century Tune-up, reprogramming is often the only solution for problems ranging from driveability and loss of power to poor fuel economy and emissions related issues. SmartLink C V2.0 makes it easy. The SmartLink C V2.0 is a communication interface designed to support J2534 specifications for ECU reprogramming.

Except that the SmartLink C V2.0 can act as a VCI device and a SmartLink dongle, it also can be used as a J2534 PassThru device, working together with the PC installed with the OEM diagnostic software to perform the J2534 reprogramming. In this case, the PC needs to install with the LAUNCH's J2534 tool, which can be downloaded from the official website at www.cnlaunch.com.

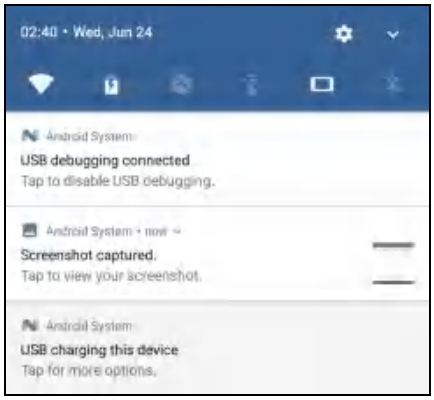


13 Synchronization

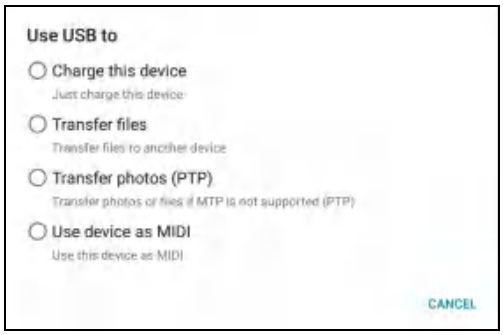
You can transfer media files and APK between the tablet and a computer.

1. Connect the tablet to a computer via the included USB cable.
2. Swipe the screen from the top, tap ⚙ **-> USB Management**.

3. Deselect the USB Switch.
4. Swipe the screen from the top, tap ⚙, the following screen will appear:



5. Tap **USB charging this device**, the following screen will appear:



6. Select **Transfer files**. Now you can copy files between the tablet and the computer.

14 FAQ

14.1 About Diagnostic Tablet

1. How to save power?

1. Please turn off the screen while the tool 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.

2. Communication error with vehicle ECU?

Please confirm:

1. Whether the VCI is correctly connected.
2. Whether ignition switch is ON.
3. If all checks are normal, send vehicle year, make, model and VIN number to us using Feedback feature.

3. Failed to enter into vehicle ECU system?

Please confirm:

1. Whether the vehicle is equipped with this system.
2. Whether the VCI is correctly connected.
3. Whether ignition switch is ON.
4. If all checks are normal, send vehicle year, make, model and VIN number to us using Feedback feature.

4. How to reset the tablet?

Warning: Resetting may cause data loss. Before doing so, please make sure important data and information has been backed up.

Do the following to reset the tablet:

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.

5. How to download the diagnostic App after resetting the tablet?

Note: Before registration, please make sure the network is properly connected.

After the tablet has been successfully reset, follow the steps below to download the App:

1. Launch the browser and the default official Launch website opens (If a blank page pops up, just type in www.x431.com in the input bar).
2. Tap **Login**, input the username and password and tap **Log In**.
3. Make sure that the serial number is correct, tap **APP application program** and tap the Download icon to start downloading.
4. After the download is complete, follow the on-screen instructions to install it.
5. After installation, use the existing username and password to login and go to update center to download the diagnostic software.

6. What to do if the language of vehicle diagnostic software does not match the system language?

English is the default system language of the tool. After the system language is set to the preference language, please

go to the update center to download the vehicle diagnostic software of the corresponding language.

If the downloaded diagnostic software is still displayed in English, it indicates that the software of the current language is under development.

7. How to retrieve the login password?

Please follow below steps to proceed in case you forgot the login password:

1. Tap the application icon on the home screen to launch it.
2. Tap the **Login** button on the upper right corner of the screen.
3. Tap **Retrieve password**.
4. Input product S/N and follow the on-screen prompts to retrieve the password.

14.2 About SmartLink Diag.

1. What's network conditions is required for SmartLink Diag.?

The remote SmartLink Diag. operation requires a network broadband of 100 MB or above.

2. What does the word "Delay" displayed on the SmartLink C screen mean?

The Delay (network delay) indicates the quality of the current network. Different colors represent different delay status. There are three states of network delay:

Green: Indicates the network is normal. It is recommended that the diagnosis operation be performed when the network delay is green. Otherwise, the communication with the vehicle may fail or the incorrect system detection may occur.

Yellow: Indicates the network is not stable. Please keep it stable.

Red: Indicates the network delay is serious and not suitable for remote diagnosis or the network is disconnected.

3. Why is the network connection so poor?

If the displayed network is poor, there may be too many people using the network in the LAN and some users are downloading. It is recommended to use a stable network for remote SmartLink diagnosis.

4. Why does the sign appear on the upper right corner of the SmartLink C screen?

Some networks have firewall restriction which leads to a longer delay of connection. You are most likely to see this sign while your system is in connection with networks managed by communities or companies. It is recommended to use the networks directly installed by telecommunication operators where there is no firewall restriction.

5. Some systems of some old vehicles cannot be tested

The SmartLink C device supports CANBUS and DoIP communication protocols, but some old vehicle uses K-Line communication protocol.

6. Is it necessary to re-ignite the car after the diagnostic system starts working?

For the sake of some vehicle's conditions, the re-ignition will provide you a more detailed analysis after OBD diagnosis.

7. Can I charge the SmartLink C device through an external DC power supply?

No. The SmartLink C device obtains power only through a vehicle's OBD diagnostic socket. Getting power through an external DC power supply could result in system malfunction.

8. How to update SmartLink C system?

After the SmartLink C device is powered on and connected to the network, a message "Whether to upgrade now?" will be displayed if a new system version is detected. Tap **Yes** to start updating, wait until the upgrade is complete.

Warranty

THIS WARRANTY IS EXPRESSLY LIMITED TO PERSONS WHO PURCHASE LAUNCH PRODUCTS FOR PURPOSES OF RESALE OR USE IN THE ORDINARY COURSE OF THE BUYER'S BUSINESS.

LAUNCH electronic product is warranted against defects in materials and workmanship for one year from date of delivery to the user.

This warranty does not cover any part that has been abused, altered, used for a purpose other than for which it was intended, or used in a manner inconsistent with instructions regarding use. The exclusive remedy for any automotive meter found to be defective is repair or replacement, and LAUNCH shall not be liable for any consequential or incidental damages.

Final determination of defects shall be made by LAUNCH in accordance with procedures established by LAUNCH. No agent, employee, or representative of LAUNCH has any authority to bind LAUNCH to any affirmation, representation, or warranty concerning LAUNCH automotive meters, except as stated herein.

Disclaimer

The above warranty is in lieu of any other warranty, expressed or implied, including any warranty of merchantability or fitness for a particular purpose.

Purchase Order

Replaceable and optional parts can be ordered directly from your LAUNCH authorized tool supplier. Your order should include the following information:

Order quantity
Part number
Part name

Customer Service

If you have any questions on the operation of the unit, please contact local dealer, or contact **LAUNCH TECH CO., LTD.**:

Website: www.x431.com

www.cnlaunch.com

Phone: +86 755 2593 8674

Email: DOD@cnlaunch.com

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