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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.

Notes

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

Warning

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

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.

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

Model: OADD-PD1303A, X-431 PAD9 ULTRA V2

FCC ID: XUJOADDPD1303A

IC: 29886-OADDPD1303A

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

This device complies with Innovation, Science and Economic Development Canada's licence-exempt RSSs and 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.

Cet appareil est conforme aux RSSs exempts de licence d'Innovation, Sciences et Développement économique Canada et à la partie 15 des règles de la FCC. Le fonctionnement est soumis aux deux conditions suivantes:

- (1) Cet appareil ne doit pas causer d'interférences nuisibles; et
- (2) Cet appareil doit accepter toute interférence reçue, y compris les interférences susceptibles de provoquer un fonctionnement indésirable.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

The device for operation in the band 5150-5350MHz is only for indoor use.

L'appareil destiné à fonctionner dans la bande 5150-5350MHz est réservé exclusivement à un usage intérieur.

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.

Informations sur le débit d'absorption spécifique (DAS)

Ce produit satisfait aux exigences gouvernementales relatives à l'exposition aux ondes radio. Ces lignes directrices reposent sur des normes élaborées par des organismes scientifiques indépendants, à la suite d'évaluations périodiques et approfondies d'études scientifiques. Ces normes intègrent une marge de sécurité importante destinée à garantir la sécurité de toutes les personnes, sans distinction d'âge ni d'état de santé.

RF Exposure Information and Statement

The SAR limit is 1.6 W/kg averaged over one gram of tissue. This device 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 RF exposure requirements, use accessories that maintain a 0mm separation distance between the user's body.

Informations et déclaration relatives à l'exposition aux radiofréquences

La limite DAS est de 1,6 W/kg en moyenne sur un gramme de tissu. Cet appareil a également été testé conformément à cette limite DAS. Cet appareil a été testé pour des utilisations typiques portées sur le corps, à une distance de 0 mm du corps. Pour respecter les exigences en matière d'exposition aux radiofréquences, utilisez des accessoires qui maintiennent une distance de séparation de 0 mm par rapport au corps de l'utilisateur.

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.

Cet appareil a été testé pour des opérations typiques portées sur le corps, pour satisfaire aux exigences relatives à l'exposition RF, une distance minimale de séparation de 0mm doit être maintenue entre le corps de l'utilisateur, y compris l'antenne. Les clips de ceinture, les étuis et les accessoires similaires de tiers utilisés par cet appareil ne doivent pas contenir de composants métalliques. Les accessoires portés sur le corps qui ne répondent pas à ces exigences ne peuvent pas être conformes aux exigences relatives à l'exposition RF et doivent être évités. Utilisez uniquement l'antenne fournie ou une antenne approuvée.

This device is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directive 2014/53/EU. The RF frequencies can be used in Europe without restriction.

WARNING: This product can expose you to Lead, which is known to the State of California to cause cancer and other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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1 Introduction

1.1 Packing 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.

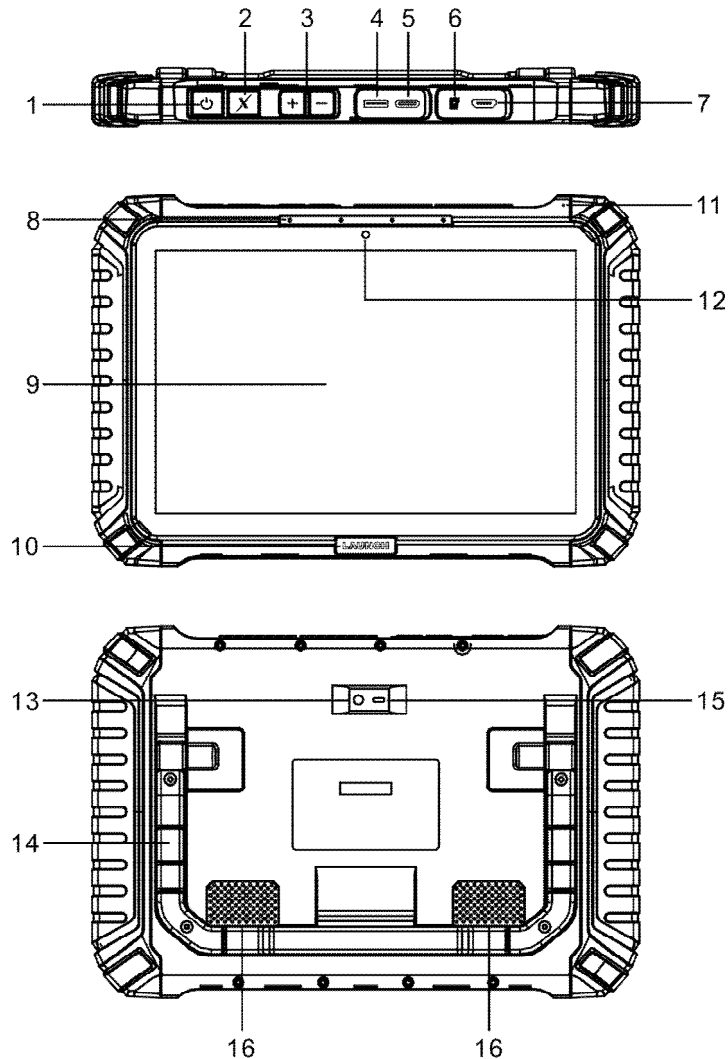
1. Scan tool (model: OADD-PD1303A) x 1
2. SmartLink C device (model: S4006) x 1
3. Diagnostic cable x 1
4. Power adaptor (including switching adaptors for different standards) x 1
5. Data cable x 1
6. Password envelope x 1
7. Crossover cable x 1
8. Quick start guide x 1
9. Non-16pin adaptor kit for passenger cars (Optional)

1.2 Components & Controls

There are two main components to the diagnostic system: Scan Tool and SmartLink C Device.

1.2.1 Scan Tool

The scan tool acts as the central processing system, which is used to receive and analyze the live vehicle data from the SmartLink C device and then output the test result.



1. Power/Screen Lock Button

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

2. Custom Function Button

Press it to customize it as a preferred function start button.

3. Volume Buttons

Adjust the volume.

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

4. Type-A Port

- Connect it to the SmartLink C device to perform vehicle diagnosis.
- Connect it to the SmartLink C device to power it, allowing for firmware version upgrades.

- Connect it to the add-on module to extend the functions of the scan tool.

5. Type-C Port

- Charge the scan tool via the power adaptor.
- Connect it to PC for data exchange.

6. Memory Card Slot

Store the memory card for storage expansion.

7. High Definition Multimedia Interface Output Port

Connect to an external projector or monitor with HDMI port.

8. Microphone (For AI human-machine interaction function)

Convert voice into an electrical signal.

9. Touch Screen

Indicate the test results.

10. Breathing Light

The breathing light effect is disabled by default. User can turn it on in **Settings -> Display -> Breathing light**.

 Notes: The breathing light behavior is defined as follows:

1). When not charging:

- When the screen lights up, the light illuminates solid white.
- When the screen is off, the light does not function.

2). When charging (the tool will power on automatically):

The light pulses white during charging. When fully charged, the light illuminates solid white.

11. Microphone (For system apps)

Convert voice into an electrical signal.

12. Front Camera

Snapshot the view ahead the screen.

13. Camera Flash

Produce a flash of artificial light.

14. Adjustable Kickstand

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

15. Rear Camera

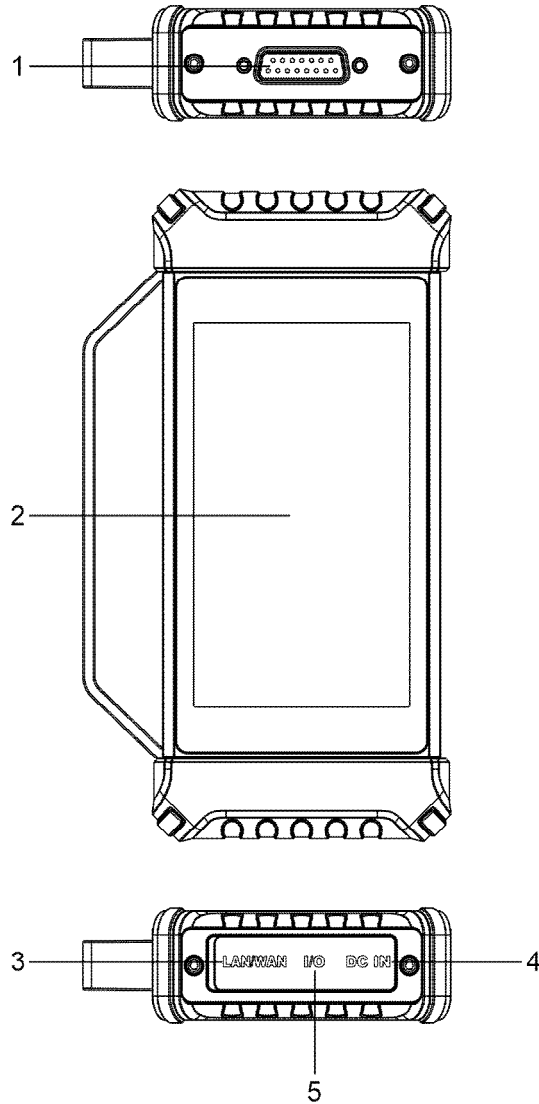
Snapshot the view in front of the scan tool.

16. Audio Speakers

1.2.2 SmartLink C Device

The SmartLink C 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 scan tool, which is used to obtain vehicle data, and then send it to the scan tool for analysis wirelessly or via data cable.
- 2). When as a SmartLink C (Customer) dongle, it does not communicate with the scan tool, but it needs to work together with the **SmartLink** module of the scan tool. The scan tool 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).
- 3). When as a local J2534 PassThru device, it can be used in conjunction with the PC installed with OEM diagnostic software.



1. DB-15 Diagnostic Connector

Connect the SmartLink C 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 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 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 scan tool to perform vehicle diagnosis/update the firmware of the SmartLink C device.
- Connect it to the PC to perform J2534 reprogramming when as a J2534 PassThru device.

1.3 Technical Specifications

1. Scan tool

Operating System: Andriod™ 15

CPU: 8-core Processor

Display: 13.6 inch touch screen with a resolution of 2560 x 1600

RAM: 12GB

Storage: 512GB

Wi-Fi: 2.4GHz&5GHz(Wi-Fi 6)

Connectivity:

- Universal serial BUS ports (1 x Type-C + 1 x Type-A)
- Micro SD card port
- HDMI output port

Camera: 8MP front-facing camera + 20MP rear-facing camera

Dimension: 373.8mm x 254.2mm x 40.1mm

Operating temperature: 0°C~ 50°C (32°F to 122°F)

 Note: Operating temperature refers to the temperature at which the scan tool functions normally in non-charging status.

Storage temperature: -20°C~ 70°C (-4°F ~158°F)

2. SmartLink C device

Dimension: 187.6mm x 106mm x 32.8mm

Working voltage: DC 8~36V

Power consumption: ≤8.4W

Communication: wireless and wired

Working temperature: 0°C~ 50°C (32°F to 122°F)

2 Getting Started

2.1 Charging & Powering On

Notes:

- Only use the included power adaptor to recharge the tool. 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.

Follow the steps below to charge the scan tool:

1. Connect one end of the power adaptor to the Type-C port of the tool, and the other end to an AC outlet. The tool will power on automatically.
2. When charging, the breathing light (if the light is turned on) flashes white and a charging symbol appears on the screen.
3. When the light illuminates solid white, the battery is fully charged. Disconnect the power adaptor from the AC outlet.
4. To turn the tool off, press and hold the **POWER** button until an options menu appears. Tap **Power Off**.

2.2 Screen Layout

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

Tap  to return to the previous screen or exit the application.

Tap  to jump to the home screen.

Tap  to display a list of applications that are currently running or recently used.

Tap  to capture the current screen and all captured screenshots are stored in the Screenshots folder.

 shows whether the VCI is connected properly or not.

Tap  to open apps in split-screen mode, for seamless multi-tasking at all times.

2.3 Language Setup

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

1. On the home screen, tap **Settings -> System -> Language -> System Languages**.
2. Tap the desired language from the list and the system will change to the chosen language.

2.4 Network Setup

The scan tool has dual built-in Wi-Fi communication modules. One is used to communicate with the SmartLink C device, and the other allows the tool to get online. Once you're online, you can register your tool, update diagnostic software & APK, browse the Internet and send email on your network.

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

1. On the home screen, tap **Settings -> Network & internet -> Internet**.
2. Tap or slide the Wi-Fi switch to ON, the tool 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.

2.5 Registration & Update

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

Tap the application icon on the home screen, and then tap **Login** on the upper right corner of the screen. The following popup will appear.

There are two methods available for users to login: *Password login* and *Email login*.

1. If you have not registered any authorized account of LAUNCH scan tool, please use *Email login*. Tap **New Registration**, the following screen will appear.

Input the Email address, tap CAPTCHA and enter the received verification code. Tap **Login-Register** to continue.

A. If no scan tools are bound to this Email before, follow the steps below to proceed:

- 1). The system will prompt you to set a new password. After the password is set, you can use the email and password on the Password login screen to log in the diagnostic app in the future.

If you choose to skip this step, you can also set it by tapping the **Set/Reset Password** on the "Password login" screen at all times.

- 2). After the following popup appears, tap **ACTIVATE VCI** to go to the next step.

Reminder

No bound VCI is obtained by your login account.
Choose to diagnose offline or activate the VCI.

Activate VCI

Diagnose offline

- 3). Input the 12-digit Product Serial Number and 8-digit Activation Code (can be obtained from the password envelope), and then tap **ACTIVATE**.

Activate VCI

Serial Number

Activation Code

ACTIVATE

- 4). After the VCI device is successfully activated, the system automatically enter the update center. Tap Update to update all available software.

 **Note:** 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.

- B. If there are scan tools bound to this Email, a list of the bound VCIs will pop up on the screen. In this case,

Reminder

VCI has activated. Please select the VCI you want to connect.
You can also activate a new VCI.

☒

987350000021

Activate

OK

- 1). Tap **Activate**. Input the Product Serial Number and Activation Code, and then tap **Activate**.
 - 2). Go to *Software Update* to update all available software.
2. If you have an authorized account of LAUNCH scan tool, please use Password login. Input the username and password (If you forgot the password, tap **Set/Reset Password** to set a new one), and tap **Login** to login the diagnostic system.

2.6 Job Menu

It mainly includes the following items:

 **Note:** The description of the following function menus is for reference only. Due to continuing version updates and iterations of the diagnostic APP, the actual displayed menus may vary. Please refer to the actual menus.

Name	Description
Intelligent Diagnose	- 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.
Diagnose	Diagnose a vehicle manually.
Remote Diagnose	There are two remote diagnosis platforms available: SmartLink Super remote

	diagnosis and X431 Remote diagnosis.
EV	To diagnose the electronic control systems, detect battery pack and perform some service functions of new-energy vehicles.  Note: This function needs to work with New Energy Vehicle Diagnosis Add-on Kit (optional), which can be purchased from the authorized dealer.
Special Function	It offers coding, reset, relearn and more service functions, to help vehicles get back to functional status after repair or replacement.
Toolbox	Provide some additional add-on tools to extend the functions of the scan tool.
Software Update	Update vehicle diagnostic software and APK.
Service	Include diagnostic feedback and other online consultation services.
Diagnosis Kit	Include vehicle coverage, CANBUS pin detection, CANScope, and Fix connector firmware/system etc.
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.
LAUNCH Academy	Include abundant repair case, operation skills and training videos for quick reference.
Info Center	Include all kinds of information, such as repair info, general info and equip info.
User Info	Manage VCI, diagnostic reports & records, change password, order and logout / login etc.
Other Modules	Include License List, Know Your Customer, My Points, Error Correction, Opinion Feedback, Settings and About.

3 Connection & Communication Setup

3.1 Connection

1. Make sure that the vehicle battery voltage range is 9-14V (for passenger cars) or 18-30V (for commercial vehicles) and the vehicle ignition is turned off.

2. Find the vehicle's DLC location.

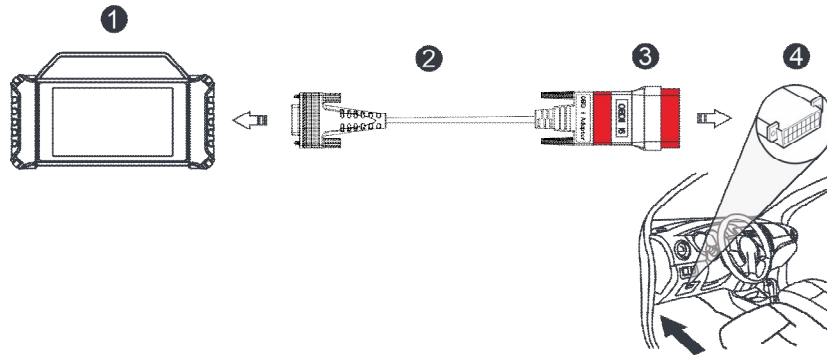
For passenger cars, the DLC is usually located 12 inches from the center of the instrument panel, under or around the driver's side for most vehicles. For some vehicles with special designs, the DLC location may vary.

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.

3. Refer to the following illustrations to make connection.

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



- ① VCI
- ② DB15M to HDB15F data cable
- ③ HD15M to OBDII 16M adaptor
- ④ Vehicle's DLC port

For OBD II vehicles, use the included diagnostic cable (DB15F to HDB15F data cable and HD15M to OBDII 16M adaptor) to connect the VCI to the vehicle's DLC port.

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

- 1) Select the appropriate adaptor according to the vehicle's DLC port type (④).
- 2) Loosen the captive screws of the DB15M to HDB15F data cable (②) and disconnect the HD15M to OBDII 16M adaptor (③) from the data cable.
- 3) Connect the data cable (②) with the target adaptor (optional) and tighten the screws. 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 Type-A port of the tool.

3.2 Communication Setup

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

After the user registration is successfully finished, the wireless communication between the tool 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 tool and the VCI. After properly connecting the data cable from the tool 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 tool will use the wired communication as the default priority.

4 Diagnosis & Service Functions

4.1 Intelligent Diagnose

Two methods are available for vehicle diagnosis: Intelligent Diagnose, Manual Diagnose (Manual Select).

Note: All descriptions and screenshots in this chapter are for reference only. Due to continuous version updates and iterations of the diagnostic APP, the actual displayed menus and functions may differ. Please refer to the actual menus and functions.

4.1.1 Smart Diagnostics

When using this diagnostic method, the scan tool can automatically decode the vehicle VIN data, perform vehicle systems scanning, and generate a diagnostic report without manual operation.

To enable this workflow, ensure that the following conditions are met:

- 1) Set the "Automatic detection once connected" option in the **Other Modules -> Settings -> Diagnostic Setup** to On.
- 2) Turn the vehicle's ignition ON.
- 3) The latest vehicle diagnostic software has been installed on the scan tool.

After the VCI device is properly connected to the vehicle's DLC port, tap **Diagnose immediately** on the popup to start smart diagnostic session.

 Notes: Note that not all vehicles support this function due to settings imposed by auto manufacturers.

If the vehicle supports this function and no pop-up windows appear, no user intervention is required during diagnosis. If pop-up windows (e.g., for option selection and confirmation) appear during the diagnosis of a specific vehicle model, the smart diagnosis will be suspended. The process will resume only after the user completes the selection and confirmation.

After successfully completing the diagnosis, the system will automatically save the test result as a report. All reports are saved in **User Info -> My Report -> Vehicle Test Reports**.

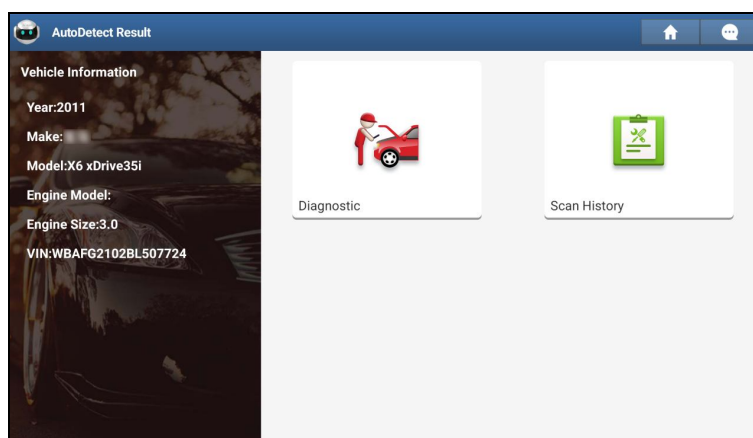
4.1.2 Auto Detect

Using this function, users can directly obtain vehicle data from the cloud server to perform quick test via decoding VIN, to avoid various defects resulting from step-by-step menu selection. Meanwhile, users also can check the historical maintenance records of the test vehicle online.

Follow the steps below to proceed.

Tap **Intelligent Diagnose** on the Job menu screen to start 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.
- 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*.

B. If the scan tool failed to access the VIN information, it will automatically enter the manual diagnose mode. See Chapter 4.2 for details.

4.2 Diagnose (Manual)

This function allows you to diagnose electronic control systems of single vehicle models by manually executing the menu-driven command.

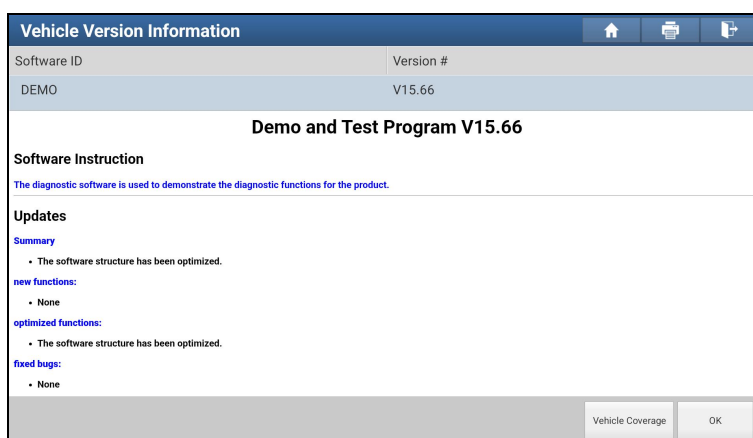
Tap **Diagnose** to enter the vehicle selection page.

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

1. Operations of VINSCAN Service are same as Intelligent Diagnose. Refer to Chapter 4.1 for details.
2. Manually select the vehicle's make, model and year. In this mode, you need to execute the menu-driven command and follow the on-screen instructions to proceed.

Take Demo (Version 15.66) 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.

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:

 **LAUNCH AI:** Start chats with the AI robot.

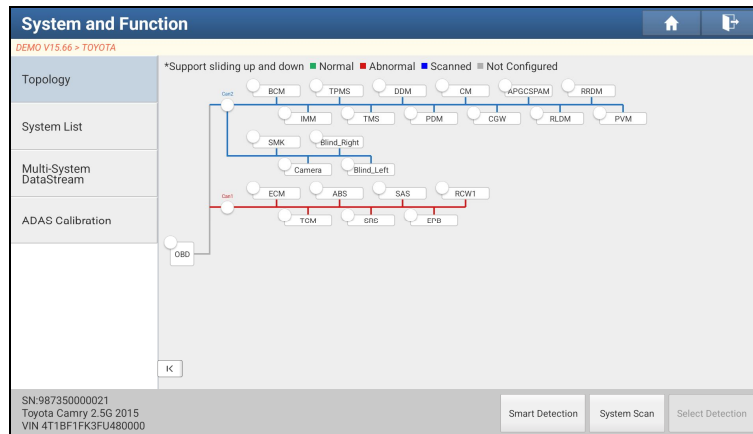
 **Home:** Return to the home screen.

 **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 9.6.3.

 **Exit:** Exit the diagnostic application.

- 2). Select vehicle model. Here we take **TOYOTA** for example to demonstrate how to diagnose a vehicle.

- 3). Select the desired test item to proceed.



Topology: Displays all available vehicle systems in form of topology structure.

System List: Displays all available vehicle systems in form of list.

Multi-System Data Stream: Quickly previews the target data streams of multiple systems in thumbnail.

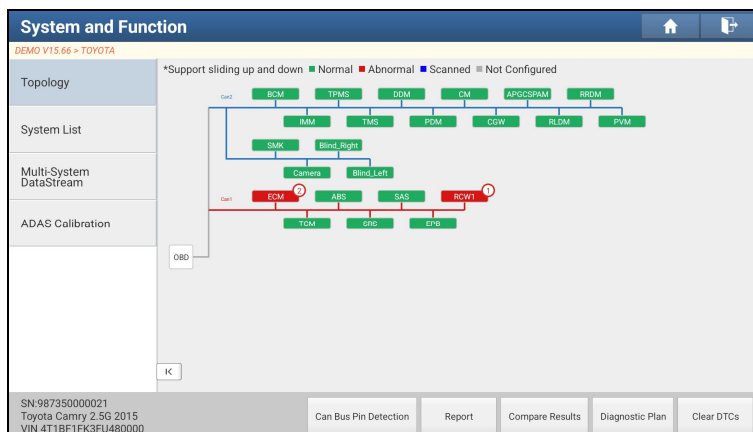
ADAS Calibration: Performs ADAS calibration operations. It is extracted from the system list as a functional module and provides a quick access to ADAS system.

- While in Topology mode, different highlight bars indicate different detection status.

On-screen Buttons:

Smart Detection: Tap to quickly access all the electronic control units of the vehicle and generate a detailed report about vehicle health. The tested systems malfunctioning are displayed in red with a number indicator displaying DTC quantity and the systems with functioning properly are displayed in green.

 **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.



- **Can Bus Pin Detection:** This function allows you to detect the voltage of the passenger vehicle OBD II diagnostic socket pins and the supported protocol types to help technicians judge the OBD II diagnostic interface.
- **Report:** Tap to save the current data in text format. All reports are saved in **User Info -> My Report -> Health Reports**.

 **Notes:**

1. Diagnostic report is classified into three categories: Pre-Repair report, Post-Repair report and Diagnostic Scan. To facilitate comparison of pre-repair and post-repair reports and obtain accurate test result, ensure you saved the correct type of diagnostic report.
2. By default, the workshop information is blank. You can configure and revise it from Settings -> Shop Information. After you configured the information, it will be automatically generated every time the diagnostic report is saved. All vehicle and workshop information will be appended as a tag on the diagnostic report.

Compare Results		
DTC	Post	Pre
Engine 		
P2118 Throttle Actuator 'A' Control Motor Range/Performance	Found	N/A
P0504 Brake Switch A/B Correlation	Found	N/A
Radar Cruise 1 		
C1521 CAN bus:Signal Failure	Found	N/A

 **Note:** Before performing this function, please make sure that: 1) You have saved a pre-repair report of the currently tested vehicle; and 2) 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.

- **Diagnostic Plan:** Figures out the diagnostic plan and repair solutions for the detected DTCs.
- **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.

System Scan: Tap to scan which systems are installed on the vehicle.

Select Detection: Select certain system manually to start scanning.

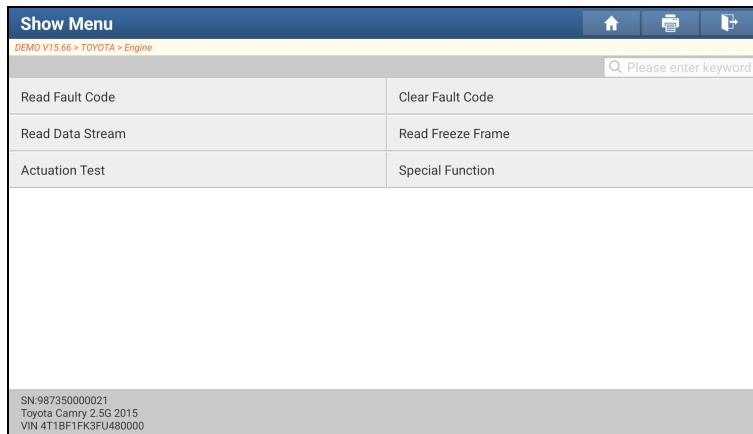
- While in System List mode, the following screen will appear.

System and Function

DEMO V15.66 > TOYOTA

Topology	Engine	2 ^	Enter
System List	P2118 Throttle Actuator 'A' Control Motor Range/Performance		Current
Multi-System DataStream	P0504 Brake Switch A/B Correlation		Current
	Radar Cruise 1	ADAS 1 ^	Enter
ADAS Calibration	C1521 CAN bus:Signal Failure		Current
K	Transmission	Normal	Enter
	ABS/VSC/TRAC/EPB	Normal	Enter
	SRS Airbag	Normal	Enter
SN:98735000021 Toyota Camry 2.5G 2015 VIN 4T1BFTK3FU480000 Can Bus Pin Detection Report Compare Results Diagnostic Plan Clear DTCs			

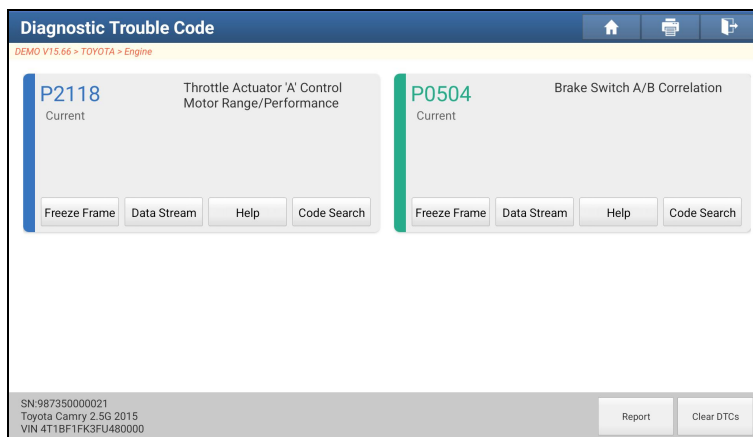
- **Enter:** Select certain system, and tap this button to enter the diagnostic function selection screen.



In general, the diagnostic functions vary with different vehicle models. It mainly includes the following options:

A. Read Fault Code

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



On-screen Buttons:

Freeze Frame: Tap it to view the snapshot of critical parameter values at the time the DTC is set.

Help: Tap to view the help information.

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

Report: To save the current data in text format. All reports are saved in **User Info -> My Report -> Health Reports**.

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

B. Clear Fault Code

This option can erase the codes from the vehicle. Before the operation, please make sure the vehicle's ignition key is in the ON position with the engine off.

 **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.

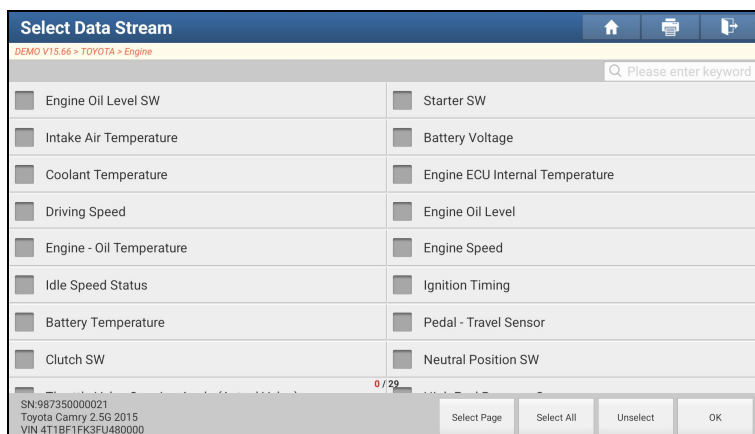
C. Read Data Stream

This option retrieves and displays live data and parameters from the vehicle's ECU.

 **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).

Tap **Read Data Stream**, the following screen will appear:



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

Data Stream			
DEMO V15.66 > TOYOTA > Engine			
Name	Value	English	Metric
Battery Temperature	61.53	degree C	
Battery Voltage	11.86	V	
Clutch SW	On		
Coolant Temperature	95.04	degree C	
Driving Speed	0	km/h	
Engine - Oil Temperature	107	degree C	
Engine ECU Internal Temperature	82.78	degree C	
SN: 987350000021 Toyota Camry 2.5G 2015 VIN 4T1B1FK3FU480000			
Recorded Data Compare Sample Save Sample Graph Report Record			

Notes:

1. Tap to set different display style for each selected item. indicates sticky top. If it is tapped, the data stream item with will be shown on the top of the selected data stream list. To remove it from the top of the list, just tap it again. B indicates this item will be displayed in Bold. A indicates this item will be displayed in Red.
2. Tap **English** or **Metric** to switch the measurement unit.
3. 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).

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:

: Tap it to view the live waveform.



Graph: Tap it to view the waveform of the selected data streams. Tap on the edge of the screen to customize the target data streams for displaying.



Recorded Data: Tap it to quickly access to the Recorded Data, which collects all recorded data stream files.

Compare Sample: Tap it to select the sample data stream file, the values you customized and saved in process of data stream sampling will be imported into the **Standard Range** 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.

Save Sample: This item enables you to customize the standard range of live data stream items and save it as 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 units will be recorded). Once recording is complete, tap to stop it and navigate to the data modification screen.

Confirm Sample DS				
DEMO V15.66 > TOYOTA > Engine				
Name	Min Value	Max Value	Unit	
Battery Temperature	61.52	62.53	degree C	
Battery Voltage	11.56	11.96	V	
Coolant Temperature	95.04	97.04	degree C	
Driving Speed	0.0	0.0	km/h	
Engine - Oil Temperature	107.0	109.0	degree C	
Engine ECU Internal Temperature	80.78	83.78	degree C	
Engine Oil Level	58.77	59.77	mm	
Engine Speed	822.51	826.5	rpm	
SN:987350000021 Toyota Camry 2.5G 2015 VIN 4T1B1FK3FU480000				Save

Tap the value to change it. After modifying all desired items, tap **Save** to save it. All data stream files are stored in

Diagnostic Widget -> Sample.

Report: To save the current data in text format. All reports are saved in **User Info -> My Report -> Health Reports**.

Record: Tap to start recording diagnostic data. Recorded live data can serve as valuable information to help you in troubleshooting of vehicle problems. All recorded files are stored in **User Info -> My Report -> Recorded Data**.

D. Read Freeze Frame

This option takes the snapshot of the operating conditions when a vehicle fault occurs.

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 tool 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.

F. Special Functions

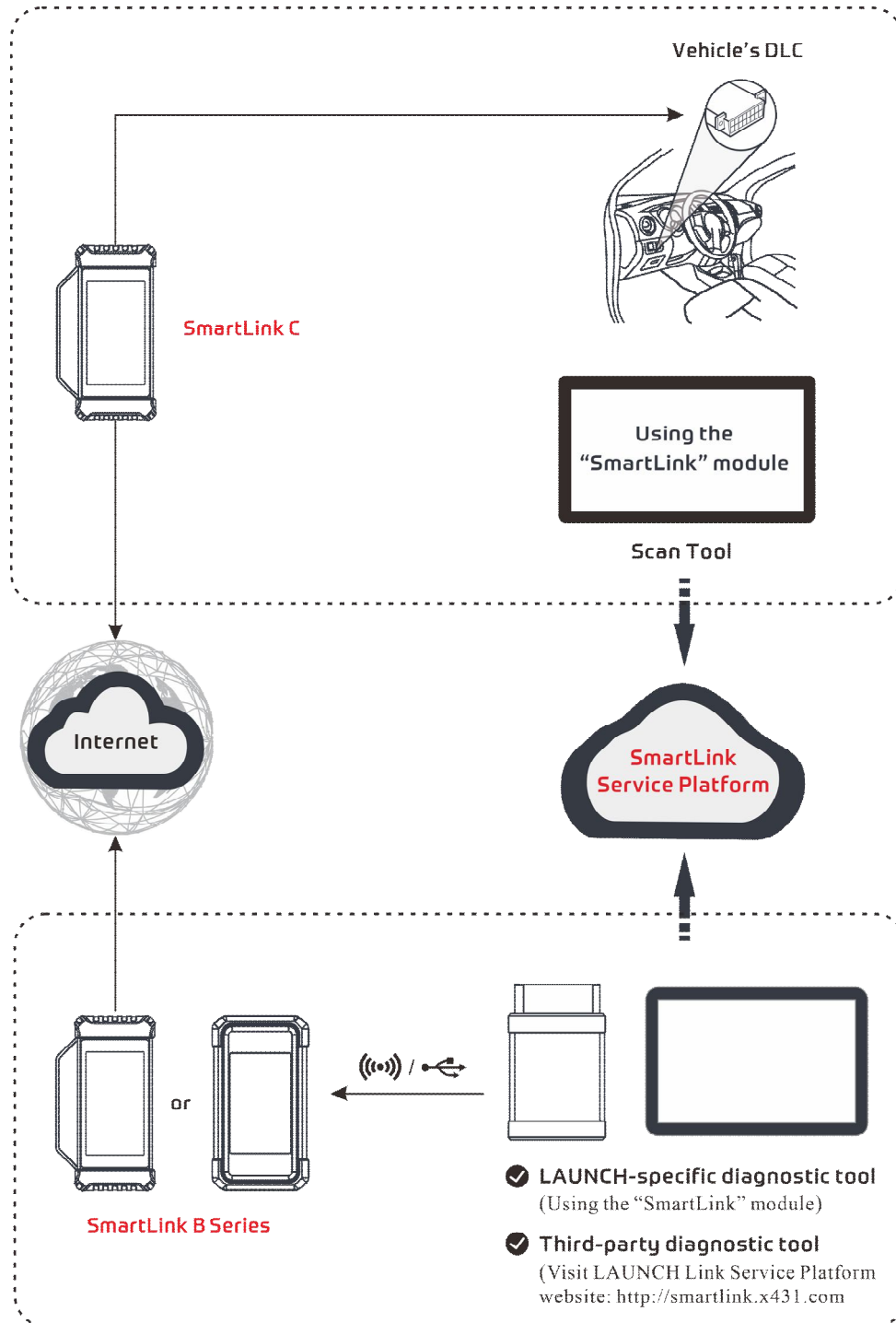
This option offers coding, reset, relearn and more service functions, to help vehicles get back to functional status after repair or replacement. Available tests vary by vehicle manufacturer, year, and model.

4.3 Remote Diagnose

4.3.1 SmartLink Super Remote Diagnosis

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) does not have time to puzzle through a tough 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 scan tool. There are two modules available on the link service platform: **Common user** (for SmartLink C) and **Service provider** (for SmartLink B).
- **SmartLink C (Customer) - SmartLink Service Subscriber.** In the SmartLink system, the SmartLink C needs to perform the following operations.
 - 1). Launch Service Link Platform: Binds SmartLink C dongles and submits remote repair orders.
 - 2). SmartLink C 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 (Business) - SmartLink Service Provider.** In the SmartLink system, the SmartLink B needs to

perform the following operations.

- 1). Launch Service Link Platform: Binds SmartLink B dongle and accepts orders from SmartLink C.
 - If the SmartLink B dongle works with the LAUNCH-specific diagnostic tool equipped with SmartLink module, tap **SmartLink** to add the SmartLink B device and accepts orders on the diagnostic tool.
 - If the SmartLink B 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 device and accepts orders in the browser.
- 2). SmartLink B Dongle: After accepting the orders, it can work with the compatible diagnostic tool to perform diagnosis of the vehicle connected to the SmartLink C dongle.

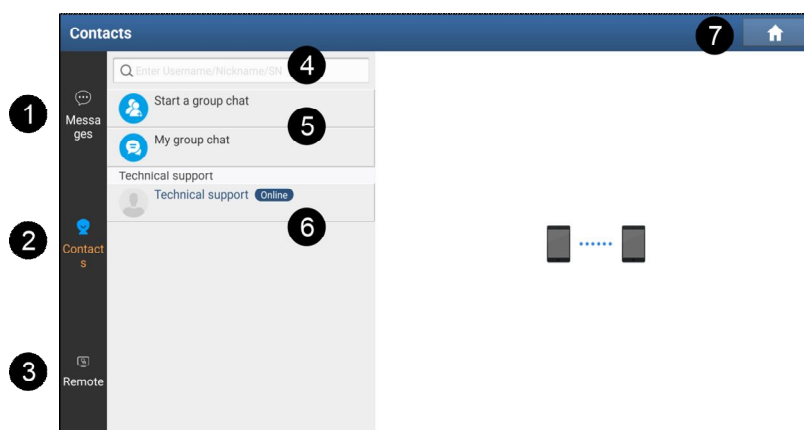
For more detailed operations, refer to the User Manual integrated in the SmartLink Platform.

4.3.2 X431 Remote Diagnosis

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

- The scan tool and other LAUNCH-specific scan tools, which are equipped with this module.
- The scan tool and PC client technician (based on web-based remote diagnosis platform <http://remote.x431.com/>).

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



1. Messages tab

Tap it to display a list of messages you have involved in. When a new message arrives, a red dot will appear on the upper right corner of the tab.

2. Contacts tab

Tap it to show your friend or partner list. Only the technical support is displayed by default if no friend is added.

To search for the desired partner, you can input the partner's username or the serial number of the scan tool in the search bar.

You can also start a group chat and manage your group chat.

Note: The partner must be the users who have registered their LAUNCH-specific diagnostic tools. They may be the following: workshop / technician / golo users.

3. Remote tab

This function allows you to request remote help from the PC client technician.

4. 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.

5. Group Chat operation

Used to start a group chat and manage group chat.

6. Contacts list

Display a list of friends. The technical support is displayed by default if no friends list is created.

7. Home button

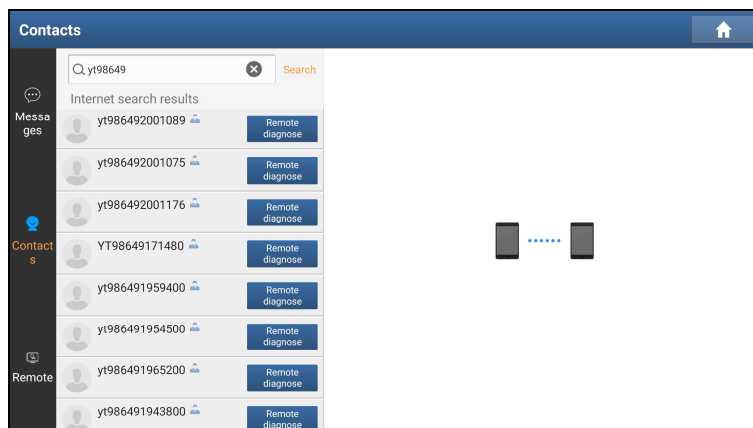
Navigate to the Job Menu screen.

1. Remote Diagnosis with Other Specific Scan Tools

This function allows you to initiate remote diagnosis with other LAUNCH-specific scan tools, which are equipped with this module.

■ To launch remote diagnosis with the partner not in your friend list

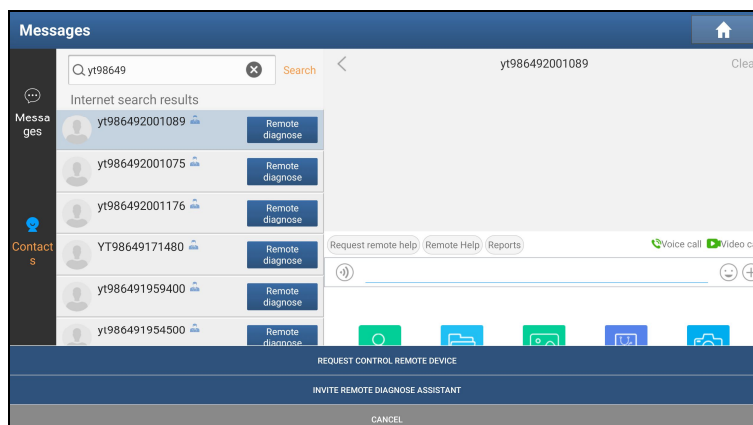
1. Tap **Contacts**. In the search bar, input the partner's username or serial number of the scan tool, and tap **Search**.
2. When searching is finished, the following screen will appear:



3. In this screen, you can directly tap **Remote Diagnose** on the right of the username to launch remote diagnosis or tap the technician's avatar to proceed.

When you directly tap **Remote Diagnose**, follow the steps below:

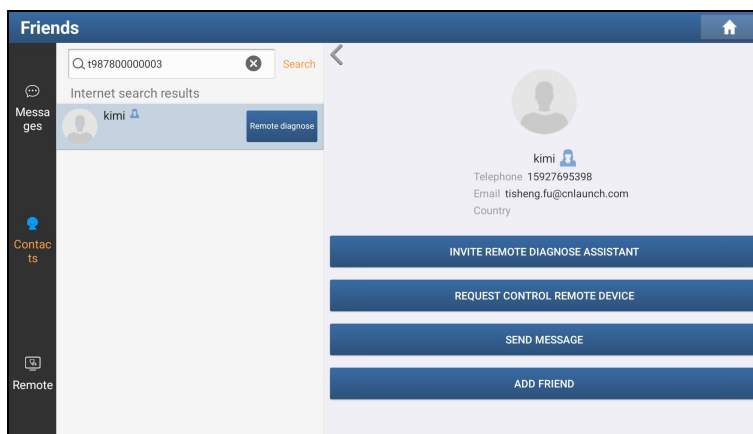
- 1) Tap **Remote Diagnose**, and the following pull-down menu will appear:



- 2) Tap **REQUEST CONTROL REMOTE DEVICE** or **INVITE REMOTE DIAGNOSE ASSISTANT**.
- 3) Choose the desired diagnostic software (this step only applies to the **INVITE REMOTE DIAGNOSE ASSISTANT**).
- 4) Wait for the partner's confirmation.
- 5) Start connection after the request is accepted.
- 6) Start diagnosis and generate remote diagnostic report.

When you tap the technician's avatar, follow the steps below:

- 1) Tap the desired technician's avatar, the following screen will appear:



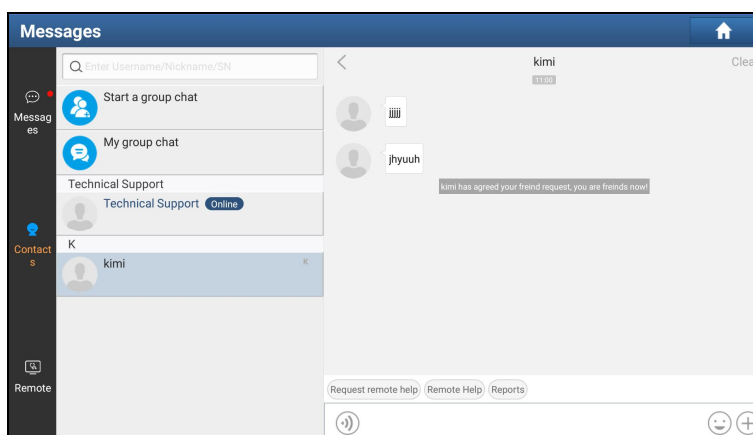
2) Tap **REQUEST CONTROL REMOTE DEVICE** or **INVITE REMOTE DIAGNOSE ASSISTANT** to request remote help/provide remote help.

You can tap **ADD FRIEND** to send your request. After the partner accepted the request, a beep will sound and the partner will automatically be listed in the **Contacts** tab.

If necessary, you can also tap **SEND MESSAGE** to launch instant messaging.

■ To launch remote diagnosis with the partner in your friend list

Tap **Contacts**, select a desired partner, and the following screen will appear:



Tap the input field and use the on-screen keyboard to send message.

Tap 🎤 to send voice messages. Tap 😊 to send emoji.

Tap + to call out the following function options:

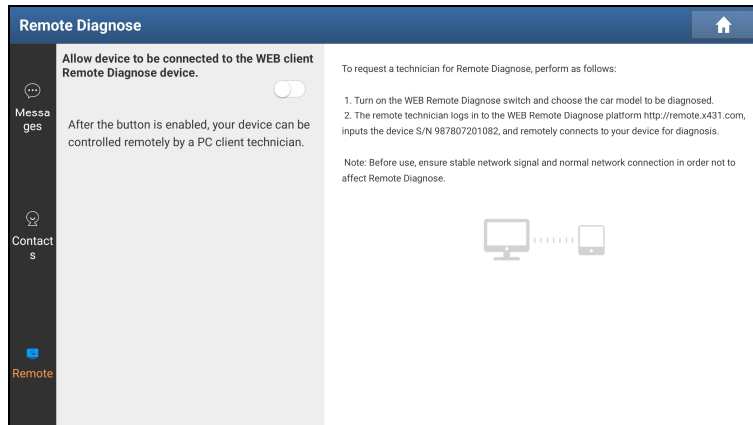
- File: Select diagnostic reports or local files to be sent.
- Picture: Select screenshots or pictures to be sent.
- Remote Diagnose: Start a remote diagnosis session.
- Camera: Enable camera to take pictures.

You can also tap the avatar of the desired partner to request control remote device, invite remote diagnose assistant, or send message.

2. Remote Diagnosis with PC Client Technician

This function allows you to ask for remote control or provide remote assistant on web-based remote diagnosis platform.

1. Tap **Remote**, the following screen will appear:



2. Slide the switch to ON so that the remote technician can control your device using the web-based remote diagnosis platform.
3. Notify the remote technician to login the remote diagnosis platform <http://remote.x431.com>.

 Note: Before processing remote diagnosis, ensure that the device is properly connected to the vehicle and the network connection is stable.

Real-time remote full system diagnosis

Login
Register

 GoloAccount/PhoneNumber/UserName

 Password

☒ Remember Me

[Forget Password?](#)

Login

4. After the technician successfully logs the platform, the following screen will appear.

Remote diagnosis

☒ **Serial Number**
Locate the car to be diagnosed according to golo/AIT serial number

☐ **License Plate Number**
Locate the car to be diagnosed according to the car owner's license plate number

☐ **Phone Number**
Locate the car to be diagnosed according to the car owner's phone number

972290000223

Start remote diagnosis

Tips: Before starting remote diagnosis, confirm the car owner's car information and condition

5. The technician can input the serial number of your device and start remote diagnosis. Now your device is remotely controlled by the remote technician.

In the process of remote diagnosis, note the followings:

- 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.

Once the session is complete, a remote diagnostic report will be automatically generated.

4.4 EV Diagnose

This function only applies to the new energy vehicles. Vehicle diagnosis, battery pack detection and some service functions are available.

 Note: This function needs to work with New Energy Vehicle Diagnosis Add-on Kit (optional), which can be purchased from the authorized dealer.

4.4.1 Vehicle Diagnosis

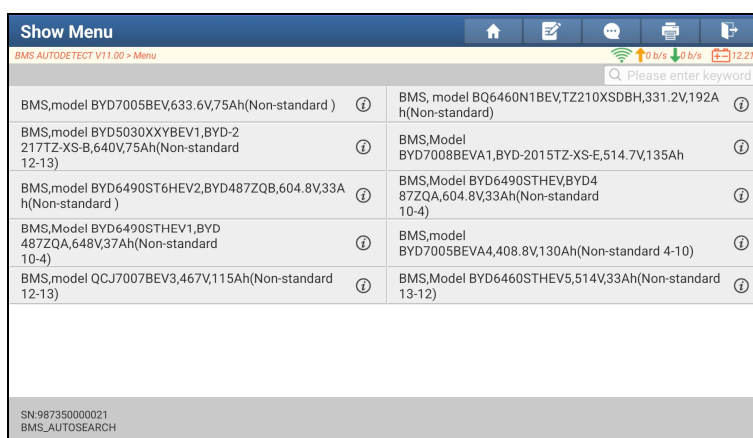
This function is specially designed to manually diagnose electronic control systems of single new energy vehicle. Operations of this function are same as those in local diagnose. Refer to Chapter 4.2 for details.

4.4.2 Battery Pack Detection

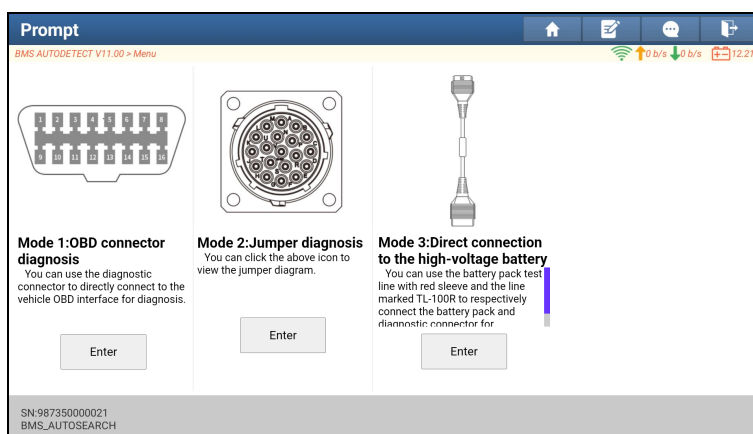
This function can detect the battery pack of new energy vehicles. Three methods are provided for selecting the battery pack: via BMS (Battery Management System) AUTODETECT program, via vehicle maker and via battery brand manufacturer.

Take BMS AUTODETECT as an example to demonstrate how to detect battery pack.

1. Tap **BMS AUTODETECT**, the system will start detecting the BMS.



2. Choose the desired BMS model to enter the following screen.



3. Select the preferred detection mode to start the detection until the system outputs the test result.

 Note: The available detection mode varies with the vehicle model/battery brand. Generally the following modes are provided:

Mode 1: Via OBD diagnostic interface

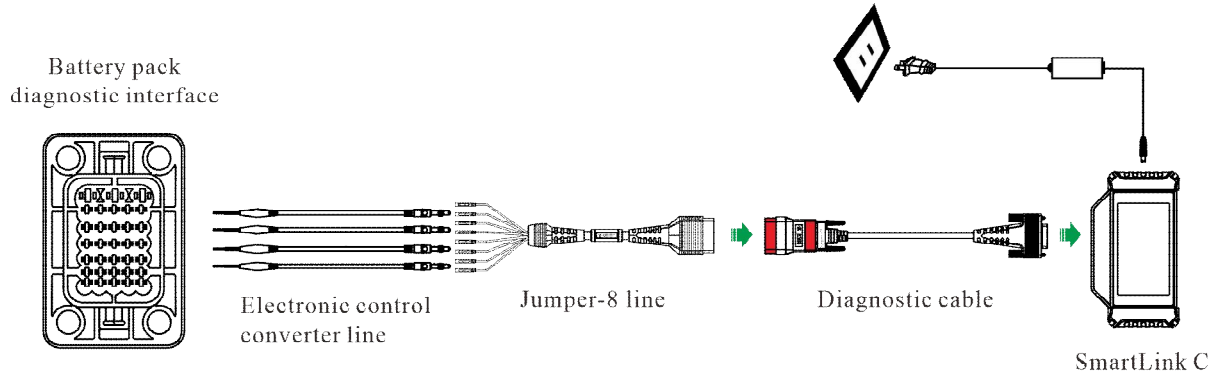
Refer to Chapter 3.1 to make connection.

Mode 2: Via communication interface of the battery pack

Choose either of the following ways to make connection:

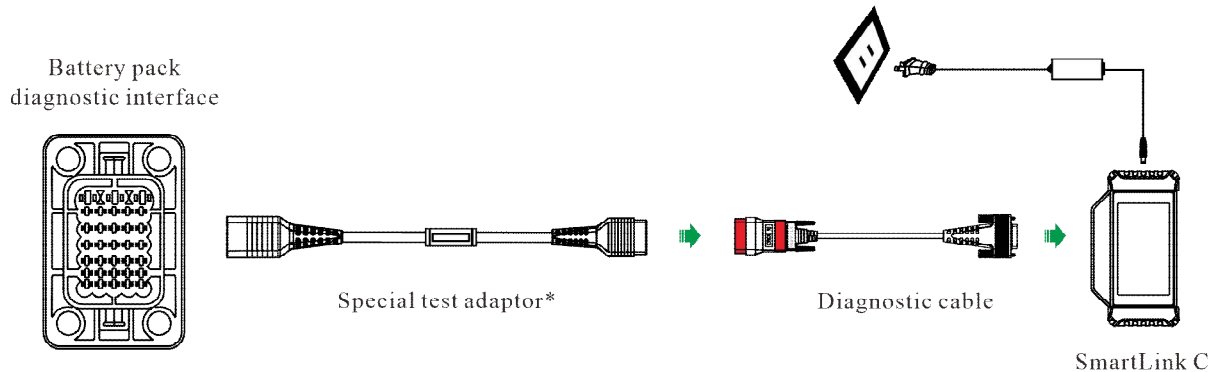
Using Jumper line & corresponding electronic control converter line

1. Connect one end of the diagnostic cable to the DB-15 diagnostic connector of the SmartLink C device, and the other end to OBD-16 connector of the Jumper-8 line.
2. Tap the icon shown on the screen to check the detailed connection prompts. Follow the onscreen instructions to connect the electronic control converter line, communication interface of battery pack and the Jumper-8 line.
3. Connect the SmartLink C device to an external power source.



Using Specific test adaptor

1. Connect one end of the diagnostic cable to the DB-15 diagnostic connector of the SmartLink C device, and the other end to OBD-16 connector of the specific test adaptor.
2. Plug the other end of the specific test adaptor to the communication interface of the battery pack.
3. Connect the SmartLink C device to an external power source.



The specific test adaptor for battery pack varies with vehicle models/battery brands and the screen will prompt corresponding test adaptor model for current test.

4.5 Service Function

It offers coding, reset, relearn and more service functions to help vehicles get back to functional status after repair or replacement. Available tests vary by vehicle manufacturer, year, and model.

Due to continuing improvements, available service functions are subject to change without prior written notice. To enjoy more service functions, it is recommended to check for updates on a regular basis.

4.6 Feedback

If you encounter any unsolved problems in the diagnostic process, you can send the last 20 test records to us by using the Feedback feature for timely technical assistance.

Tap **Service** on the job menu screen, and then tap **Feedback**. There are 3 options available:

1. Feedback: To show the tested vehicle model list.
2. History: To view all diagnostic feedback and check the processes.
3. Offline list: This feature presents all diagnostic feedback logs that have not been successfully submitted due to network failure. The failed logs are queued for automatic re-upload once the tool establishes a stable network connection.

Our technical support will handle your feedback as quickly as possible.

5 Software Update

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

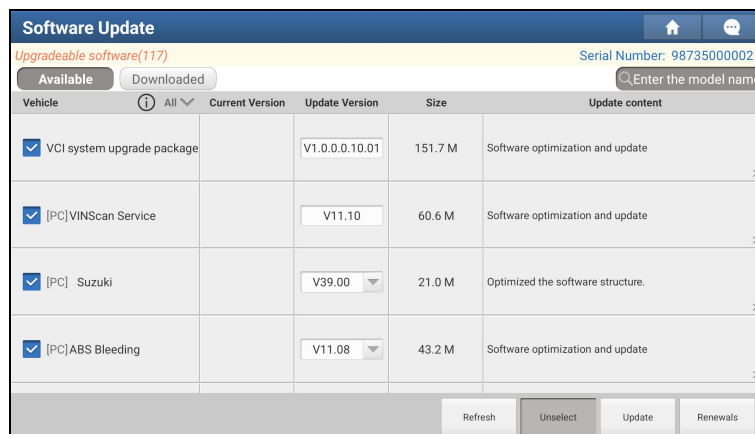
5.1 Update Diagnostic Software & APP

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.

 Note: There are several types of vehicle software available: [PC] – Passenger Cars, [HD] – Heavy-Duty, [EV] – Electric Vehicle, [IMMO] – Immobilizer software and All. Users can download all the software or the software of the same type as needed.

5.2 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.

5.3 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 **Mail** to renew the subscription.

6 Toolbox

This function includes the following add-on modules: Four-Wheel Aligner, TPMS, ADAS, Oscilloscope, Sensor simulator, BST360 Battery Tester, Immobilizer programmer, Videoscope, Current clamp, Multimeter, Insulation Tester, Key programmer and more.

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

6.1 Four-Wheel Aligner

This module can measure key parameters such as toe, camber, caster, kingpin inclination, and thrust angle. It also supports additional measurements such as wheelbase, wheel track, axle offset, wheel offset, diagonal, center offset, etc.

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

6.2 TPMS

This module allows you to configure the tool 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.

6.3 ADAS (Calibration)

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.

6.4 Oscilloscope

This module can make the auto repair technician quickly judge the faults on automotive electronic equipment and wiring. It needs to work with the specific Scopebox (sold separately).

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

6.5 BST360 (Battery Tester)

This module allows you to fix battery detection faster and easier. It needs to work with the specific Bluetooth battery tester (sold separately).

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

6.6 Sensor Simulator

This module is specially designed to diagnose and simulator vehicle sensor faults quickly and conveniently. It needs to work with the compatible S2-2 Sensorbox (sold separately).

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

6.7 Multimeter

This module allows you to measure the physical parameters such as voltage, resistance, frequency etc. It utilizes the same hardware as the EM101N.

For more details, please refer to the User Manual included with the EM101N.

6.8 Immobilizer Programmer

This module allows you to perform the read-write function for vehicle keys, EEPROM, MCU, and EEPROM/FLASH of vehicle engine and gearbox ECU. It needs to work with the specific immobilizer programmer (sold separately).

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

6.9 Key Programmer

The function can identify car key chips and generate various types of chip models from super remotes, read the remote control frequency of car keys, and generate remote control devices for different car models from various types of super remotes. It needs to work with the compatible key programmer (sold separately).

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

6.10 Videoscope

This module allows you to check those unseen parts of engine, fuel tank, and braking system etc. It needs to work with the compatible Videoscope (sold separately).

6.11 Insulation Tester

The function enables you to complete the measurement of insulation resistance, voltage and other parameters. It is suitable for users who measure and overhaul on-site power equipment and power supply lines.

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

6.12 Current Clamp

This module allows you to perform AC/DC current test and DC voltage test for traditional fuel cars and new energy vehicles. It needs to work with the compatible current clamp (sold separately).

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

6.13 Tire Tread Examiner

The function can accurately and quickly detect the vehicle tire tread and analyze tire wear. It needs to work with the compatible tire tread depth examiner (sold separately).

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

6.14 Battery Charger & Discharger

This function is suitable for the testing and maintenance of multiple types of new energy battery packs (including traction batteries and energy storage batteries). It enables independent balancing control for each connected cell, allowing precise adjustment of individual cells to a uniform voltage level based on user-defined target voltages. It needs to work with the specific EVM324 device (sold separately).

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

6.15 Battery Equalizer

This module is applicable to the testing and maintenance of various new energy battery packs (including traction

batteries and energy storage batteries). It supports high-current rapid charging and discharging at the battery pack level, efficiently regulating the overall voltage of the battery pack to the target state. It needs to work with the specific EVM324 device (sold separately).

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

7 Diagnosis Kit

7.1 Vehicle Coverage

Use this item to check which vehicle models are supported on the tool.

7.2 CAN Bus Pin Detection

This function allows you to detect the voltage of the passenger vehicle OBD II diagnostic socket pins and the supported protocol types to help technicians judge the OBD II diagnostic interface.

7.3 HD CAN Bus Test

This function allows you to detect the voltage of the 9-pin diagnostic connector and the supported protocol types of the heavy-duty vehicle to help technicians judge the OBD II diagnostic interface.

7.4 CANScope

This item can monitor vehicle CANBUS data and make it visual on the screen. Moreover it can also check the problems existed in the CAN data, assisting you to analyze fault causes.

7.5 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 tool. If some software is not used and the tool runs out of space, you can use this feature to remove it. To re-download it, go to **Software Update** -> **Available**.

7.6 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.

7.7 Data Stream Sample

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

7.8 DLC Voltage Check

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

7.9 Reset MSVIN

This item can decode the VIN information of all ECUs installed on test vehicle and output all inconsistent VINs.

7.10 Diagnostic History

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

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

7.11 Vehicle QR

This function can work as a vehicle QR code scanner and can be applied only in the Japan area. After scanning the vehicle QR code with this function, you will be able to access product information, videos, and reviews about the car.

8 User Info

This function allows users to manage personal information and VCI.

8.1 My Report

This option allows you to view, delete or share saved reports or recorded data.

Tap **My Report**, there are total 3 options available.

1. If the DTC result is saved on the Read Trouble Code page, the files will be listed under the **Health Reports** tab.
2. **Remote Reports** lists all diagnostic reports generated in process of remote diagnosis.
3. If user records the running parameters while reading data stream, the tool will save the file under the **Recorded Data** tab.

8.2 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.

8.3 Activate VCI

This function enables you to activate a new VCI in the event you missed the Activate VCI step during the product registration process.

8.4 Profile

This function allows you to view and configure personal information.

8.5 My Order

This function enables you to check the status of all your orders.

8.6 Change Password

This function allows you to modify your login password.

8.7 Software Center

This function allows you to check the expiration date and renew the subscription of all available software.

8.8 Login/Log out

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

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

9 Other Modules

9.1 License List

This function enables you to activate the SWG function and verify the SWG user authentication on your scan tool.

9.2 Know Your Customer

This function is mainly used to assist merchants in conducting business opportunity analysis, customer management, and diagnostic statistics.

9.3 My Points

This function is a user point management center. Points are a kind of reward given to X-431 users and can be used to deduct cash when purchasing vehicle software.

9.4 Error Correction

This function allows you to check the review status of the interface translation text that you have modified and submitted.

9.5 Opinion Feedback

This function enables you to send your feedback of various opinions including incorrect or inappropriate interface translation text, function failure, product experience, and member services etc. for continuing improvements.

9.6 Settings

It enables you to adjust the application settings.

9.6.1 Units

This function enables you to set the measurement unit. Metric System and English System are available.

9.6.2 Shop Information

This function enables you to define your shop information. After you saved the shop information, it will be automatically filled in the Add Information box every time you save a diagnostic report.

9.6.3 Printer Set

This option is designed to establish a wireless connection between the tool 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).

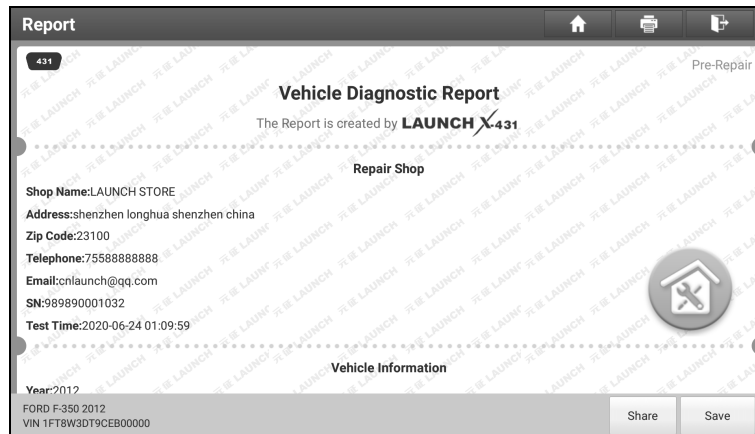
For LAUNCH Wi-Fi printer, refer to the user manual included with the printer to configure it.

For other Wi-Fi printers:

Before printing, make sure that the Wi-Fi printer is powered on and working normally.

Follow the steps below to proceed:

1. Set the default printer as **System**.
2. Set the WLAN switch to On.
3. Tap the desired Wi-Fi printer hotspot to connect.
4. On the report details page, tap .



5. Touch ▼ next to **Select a printer** to select the desired Wi-Fi printer from the list. If the chosen Wi-Fi printer hotspot is enabled, the tool can connect to it directly. If it is encrypted, a password may be required. See the Wi-Fi printer user manual for the default password.
6. Now the printer is ready for printing.
7. Alternatively, you can also choose **Save as PDF** to save the current diagnostic report as a PDF file for later printing.

9.6.4 Clear Cache

This function enables you to clear the app cache.

Clearing cache will result in the app restarting.

9.6.5 Diagnostic Software Auto Update

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

9.6.6 Device Account Management

This function manages sub-accounts, enabling the use of the tool by different users and facilitating the tracking of diagnostic logs from various technicians.

Newly added sub-accounts have a one-year validity period. After expiration, they lose the rights and privileges of the main account. However, the main account can modify the validity period of the sub-account.

There are two types of sub-accounts: existing accounts and newly created ones. The main account has the ability to add and remove sub-accounts, while sub-accounts can also be unbound from the main account.

Tap **Device account management**. Tap **Add technician account**,

- 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 **new technician account** to create a sub-account.

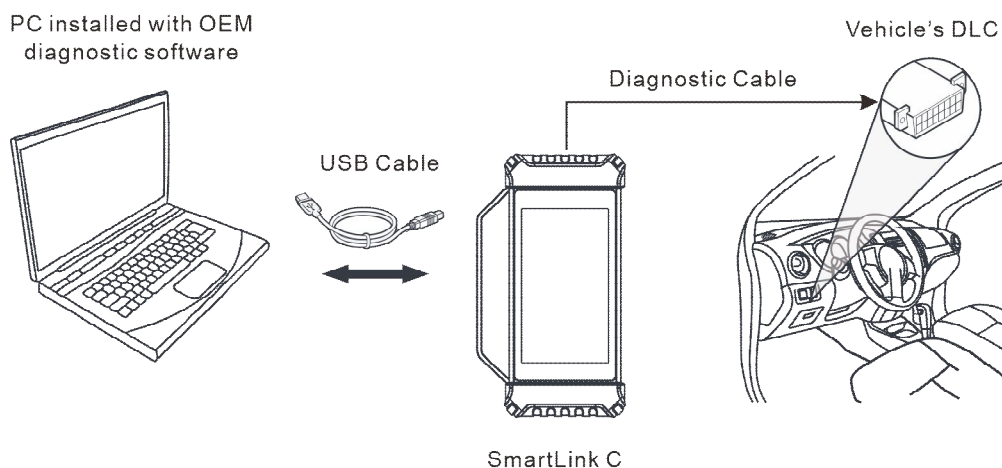
After adding the sub-account, user can tap **Remove** to unbind it from the main account or tap **Change** to revise the validity period.

9.7 About

This option allows you to check the software version, product manual, service agreement and privacy policy etc.

10 J2534 Reprogramming Using SmartLink C

Except that the SmartLink C 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 <https://en.cnlaunch.com>.



11 FAQs

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 download the diagnostic App after resetting the tool?

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

After the tool 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.

5. 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.

6. 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.

Below lists some frequently asked questions about SmartLink Super Remote Diagnosis.

1. What's the minimum requirement for network conditions?

A network broadband connection of 100MB or higher is strongly recommended for the Remote SmartLink operations.

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

Network latency mainly includes the following states:

Green: Indicates normal network. Ensure online programming operations are performed under green network status.

Orange: Indicates unstable network. Please maintain network stability.

Red: Indicates severe network delay unsuitable for remote diagnosis, or the network has been disconnected.

 Note: If poor network is displayed, it may be due to excessive users or the LAN or ongoing downloads by others. It is recommended to use a stable network for remote diagnosis.

3. My network latency is excessive.

Please check the following possible causes:

1. The long distance between the SmartLink B and SmartLink C dongle causes high network delay.
2. Data communication passes through too many network nodes, which may also result in high network delay.
3. Check if the network is weak or the data communication speed is slow.

4. Some systems on certain older vehicles cannot be tested.

The SmartLink C dongle supports CAN2.0/CANFD/DoIP/J2534 communication protocols, but some older vehicle uses K-Line communication protocol.

5. Is it necessary to cycle the ignition after the diagnostic system starts working?

Depending on the vehicle, cycling the ignition may provide more detailed analysis after OBD diagnosis.

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 during the operation of the unit, please contact the Seller, or contact LAUNCH TECH Service Center.

Website: <https://en.cnlaunch.com>

Phone: +86 755 8455 7891

Email: overseas.service@cnlaunch.com

To reduce roundabout time, you need to clearly indicate your product Serial Number when providing issue feedback.