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Important Safety Precautions

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

- Never collide, throw, or puncture the tool, and avoid falling, extruding and bending it.
- Do not insert foreign objects into or place heavy objects on your device. Sensitive components inside might cause damage.
- Do not use the tool in exceptionally cold or hot, dusty, damp or dry environments.
- In places using the tool may cause interference or generate a potential risk, please turn it off.
- 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.
- Never place the tool into apparatus with strong electromagnetic field.
- Keep the tool far away from magnetic devices because its radiations can damage the screen and erase the data stored on the tool.
- DANGER: Do not attempt to replace the internal rechargeable lithium battery. Contact the dealer for factory replacement.
- CAUTION: Please use the included battery and charger. Risk of explosion if the battery is replaced with an incorrect type.

Precautions on Using This Tool

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

- Always perform automotive testing in a safe environment.
- If the VCI (Vehicle Communication Interface) device is not in use for a long period of time, it is suggested to unplug the connector from vehicle's DLC to conserve battery power.
- Wear an ANSI-approved eye shield when testing or repairing vehicles.
- The vehicle shall be tested in a well-ventilated work area, as engines produce various poisonous compounds (hydrocarbon, carbon monoxide, nitrogen oxides, etc.)
- Do not connect or disconnect any test equipment while the ignition is on or the engine is running.
- Put blocks in front of the drive wheels and never leave the vehicle unattended

while testing.

- 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 as necessary.
- Do not drive the vehicle and operate the tool at the same time. Any distraction may cause an accident.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Before starting the engine, put the gear lever in the Neutral position (for manual transmission) or in the Park (for automatic transmission) position to avoid injury.
- To avoid damaging the 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.
- 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.

Precautions on Operating Vehicle's ECU

- Do not disconnect battery or any wiring cables in the vehicle when the ignition switch is on, as this could avoid damage to the sensors or the ECU.
- Do not place any magnetic objects near the ECU. Disconnect the power supply to the ECU before performing any welding operations on the vehicle.
- Use extreme caution when performing any operations near the ECU or sensors. Ground yourself when you disassemble PROM, otherwise ECU and sensors can be damaged by static electricity.
- When reconnecting the ECU harness connector, be sure it is attached firmly, otherwise electronic elements, such as ICs inside the ECU, can be damaged.

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1 Introduction

1.1 Product Profile

X-431 V V4.0 adopts a higher performance-price ratio display tablet, which is equipped with Android operating system and 8" HD capacitive touch screen. It inherits from LAUNCH's advanced diagnosing technology and is characterized by covering a wide range of vehicles, featuring powerful functions, and providing precise test result.

Through the simple Bluetooth communication between the VCI (Vehicle Communication Interface) device and the display tablet, it achieves full car model and full system vehicle trouble diagnosis, which include Reading DTCs, Clearing DTCs, Reading Data Stream, Actuation Test and Special Functions. Moreover, taking advantage of the mobile Internet, it also integrates One-click Update, Remote Diagnosis and Repair Data, which helps to diagnose vehicle issues more efficiently, and greatly increase customer's retention and boost shop revenue.

It supports the following functions and advantages:

- <u>Intelligent Diagnosis</u>: This module allows you to use the VIN information of the currently identified vehicle to access its data (including vehicle information, historical diagnostic records) from the cloud server to perform quick test.
- <u>Local Diagnosis</u>: Follow the on-screen prompts to start diagnostic session step by step. Diagnosis functions include: Read DTCs, Clear DTCs, Read Data Stream, Special Functions etc.
- <u>Remote Diagnosis</u>: This option aims to help repair shops or technicians launch instant messaging and remote diagnosis, making the repair job getting fixed faster.
- <u>Reset</u>: All kinds of common maintenance and reset items including Oil lamp reset, DPF regeneration, ABS bleeding can be done.
- <u>One-click Update</u>: Lets you update your diagnostic software online.
- <u>Diagnostic History</u>: This function provides a quick access to the tested vehicles and users can choose to view the test report or resume from the last operation, without the necessity of starting from scratch.
- <u>Diagnostic Feedback</u>: Enables you to submit the vehicle issue to us for analysis and troubleshooting.
- <u>Vehicle Coverage</u>: Quick dial to view the vehicle models that the tool covers.

1.2 Package List

Common accessories are same, but for different destinations, the accessories (such as diagnostic software, testing connectors) may vary. Please consult from the local agency or check the package list supplied with this tool together.

No.	ltem	Descriptions	Qt.
1	Display tablet	Indicates the test result.	1
2	VCI device	Collects the vehicle data and sends it to the tablet for analysis.	1
3	OBD II extension cable	To connect the VCI connector to the OBD II vehicle's DLC.	1
4	Password envelope	A piece of paper bearing the product Serial Number and Activation Code for product registration.	1
5	Power adaptor	For charging the tablet via AC outlet.	1
6	Cigarette lighter cable	To supply power to the non-16pin connector from the vehicle's cigarette lighter receptacle.	(Optional)
7	Battery clamps cable	To supply power to the non-16pin connector from the vehicle's battery.	(Optional)
8	USB/Charging cable	Connect the power adaptor to charge the tablet.	1
9	OBD I adaptor box	For connecting the VCI connector and non-16pin adaptor cable.	(Optional)
10	Non-16pin adaptor cable kit	To connect to the vehicle equipped with non-OBD II management system.	(Optional)

1.3 Components & Controls

There are two main components to the X-431 V V4.0 system:

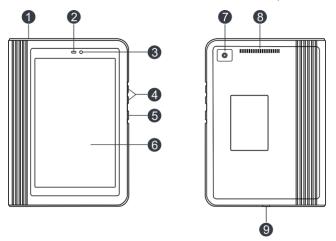
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1

- Display Tablet the central processor and monitor for the system (See Chapter "1.3.1").
- VCI Device the device for accessing vehicle data (See Chapter "1.3.2").

1.3.1 Display Tablet

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



For housing the VCI.

Slot for VCI deviceThe VCI is pre-installed in this slot on the top of
the display tablet. Use the hand to press the
VCI once, it will be automatically ejected from
the docking slot.

When the VCI is not in use, please insert it into this slot to avoid loss.

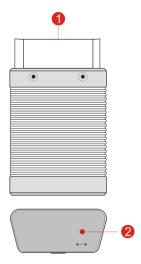
2	Ambient light sensor	
3	Front camera	
4	VOLUME +/- Key	To adjust the volume.

		In Off mode, press it for 3 seconds to turn the tablet on. In On mode:
5	POWER Key	 Press it to wake it up if the screen is black. Press it to enter sleep mode if the screen lights up.
		 Press it for 3 seconds to turn it off.
		Press it for 8 seconds to perform forced shutdown.
6	LCD Screen	
7	Rear Camera	
8	Audio Speakers	
_	USB/Charging	To connect to AC outlet for charging.
9	Port	To connect to PC for data exchange.

1.3.2 VCI (Only applies to 12V cars)

The VCI works as a vehicle communication interface device, which is used to connect to the vehicle's DLC (Data Link Connector) socket directly or via OBD II extension cable to read the vehicle data and then send it to the tablet via Bluetooth.

It is pre-installed in the docking slot on the top of the display tablet. Use the hand to press the VCI once, it will be automatically ejected from the docking slot. When it is not in use, please insert it into the slot to avoid loss.



1	OBD-16 diagnostic connector	To connect on vehicle's OBD II DLC(Data Link Connector) socket.
2 Mode LED	• It illuminates red when the VCI device is connected to the vehicle's DLC.	
	Mode LED	• Blue indicates the VCI device is working in wireless (BT) communication mode.

1.4 Technical Parameters

Display tablet

Operating system	Android
Memory	3GB
Storage	32GB
Screen	8 inch high-definition capacitive touch screen with a resolution of 1280 x 800 pixels
Camera	Front-facing 2.0MP camera + Rear-facing

	5.0MP camera
Working temperature	0°C ~ 50°C
Storage temperature	-20°C ~ 70°C
VCI device:	
Working voltage	9 ~18V
Working temperature	0°C ~ 50°C
Relative humidity	20% ~ 90%

2 Initial Use

2.1 Charging the Tablet

- 1. Plug one end of the included charging port of the tool, and the other end to the power adaptor.
- 2. Connect the other end to the AC outlet.

If ² appears on the screen, it indicates it is being charged. If the logo changes into **1**, it indicates that the battery is fully charged. Unplug the power adaptor from the tablet.

Caution: Please use the included power adaptor to charge your tool. No responsibility can be assumed for any damage or loss caused as a result of using power adaptors other than the one supplied.



- If the battery remains unused for a long period of time or the battery is completely discharged, it is normal that the tool will not power on while being charged. Please charge it for a period of 5 minutes and then turn it on.
- While the tablet has low battery, a beep will sound. If it is very low, the tablet will be switched off automatically.

2.2 Power on/off

2.2.1 Power on

Press [POWER] to turn the tool on.

Note: If it is the first time you have used this tool or the tool remains idle for a long period of time, the tool could fail to turn on. Please charge the tool for a minimum of 5 minutes and attempt to turn on again.

2.2.2 Power off

Press [POWER] for 3 seconds, an option menu will pop up on the screen. Tap "Power off" to turn the tool off.

2.3 Basic Gestures

S	Single-tap: To select an item or launch a program.
S	Double-tap : To zoom in so that the text on a webpage appears in a column that fits your device's screen.
Ł	Long press : Tap and hold on the current interface or area until a contextual menu pops up on the screen, and then release it.
F	Slide: To jump to different pages.
5	Drag : Tap the application icon and drop it to other location.
A Con	Spread apart/pinch together : To zoom in manually, place two fingers on the screen and then spread them apart. To zoom out, place two fingers apart on the screen and then pinch them together.

2.4 Screen Layout

There are four on-screen buttons available on the bottom of the screen.

🖾 ВАСК	Tap it to return to the previous screen.
	Tap it to navigate to the Android's home screen.
Recent Apps	Tap it to view the recently launched applications.
Screenshot	Tap it to capture the current screen.

2.5 Adjust Brightness

E Note: Reducing the brightness of the screen is helpful to conserve the battery power.

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

2.6 Set Standby Time

If no activities are made within the defined standby period, the screen will be locked automatically and the system enters sleep mode to save power.

- 1. On the home screen, tap Settings -> Display -> Advanced -> Sleep.
- 2. Choose the desired sleep time.

2.7 Change System Language

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

- 1. On the home screen, tap Settings -> System -> Language & input -> Languages.
- 2. Tap Add a language, and then choose the desired language from the list.
- 3. Tap and hold the desired language and drag it to the top of the screen and then release it, the system will change into the target language.

3 Network Setup

E Note: If you don't need to use WLAN for a while, you can turn it off to conserve battery life.

The tablet has built-in WLAN module that can be used to get online. Once you're online, you can register your tool, surf the Internet, get apps, send email, launch the remote diagnosis, and check for software updates etc.

3.1 Connect to a WLAN Network

- 1. On the home screen, tap **Settings -> Network & Internet -> WLAN**.
- 2. Slide the WLAN switch to ON, the tablet starts searching for available wireless networks.
- 3. Select a wireless network,
 - If the chosen network is open, the tablet will connect automatically.
 - If the selected network is encrypted, a network password will need to be entered.
- 4. When "Connected" appears, it indicates the WLAN connection is complete.

Once it is connected successfully, tap the desired network from the list to view its name, link speed, security type, IP address etc.

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

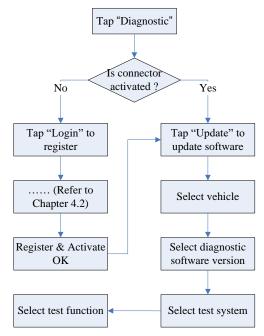
3.2 Disconnect from a WLAN Network

- 1. On the home screen, tap Settings -> Network & Internet -> WLAN.
- 2. Tap the network with a Connected status, then tap "Disconnect".

4 Getting Started

4.1 Diagnosis Flowchart

For new users, please follow the operation chart shown below to get familiar with and start using this tool.



4.2 Register & Download Diagnostic Software

Tap the application icon on the home screen to launch it, and then tap "Login" to enter the login interface of diagnosis software.

Login			
A Username		•	
Password		•	E
	Login		
 Retrieve password	New Registrat	ion 📎	A

(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.)

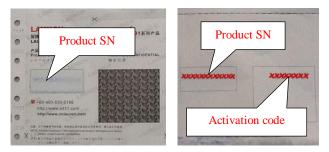
A. If you are a new user, tap "New Registration" to enter registration page.

	Register
2 .	
Create an A	ccount Activate Connector Finish Registration
*	Username
*	Password
*	Confirm Password
*	Email
*	Select Country
*	САРТСНА САРТСНА
	Register

Enter the information in each field (Items with * must be filled). After inputting, tap "Register", a screen similar to the following will appear:

		Register	
		2 ,	
Create an Ad	ccount	Activate Connector	Finish Registration
*	Serial Num	nber	
*	Activation	Code	
		Where is my activati	ion code?
		Activate	
			>> Skip

Input the Serial Number and Activation Code, which can be found in the password envelope.



Note: To exit and activate it later, tap "Skip". In this case, you can activate your VCI module by tapping "Activate VCI" in "User Info". For details, please refer to Chapter 9.4 Activate VCI.

Tap "Activate" to finish your registration.

Register						
9	2		3			
Create an Acc	count Activate C	connector Finish Re	egistration			
	Congratulations! You have successfully completed your registration. Do you want to download the diagnostic software now?					
Ν	lo	Yes				

To download the diagnostic software, tap "Yes" to enter the update page. Tap "No" to download and install it later. On download page, tap "Update" to start downloading. To pause downloading, tap "Stop". To resume it, tap "Continue". Once download is complete, the system will install the software package automatically.

Software Update				
Upgradeable software(96) Serial Number: 987590000016				
All software Common so	oftware	Q	Enter the model name	
Vehicle	Current Version	Update Version	Size	
Firmware upgrade program		V11.72	124.7 KB	
AutoSearch		V10.64	22.7 MB	
APP application program		V3.11.004	44.5 MB	
BAIC 🗦		V11.20	7.1 MB	
💽 вми 📮		V50.30	608.2 MB	
CHANGAN		V16.40	10.3 MB	
CHANGCHENG		V36.01	13.4 MB	
CHRYSLER		V32.60	46.5 MB	
CITROEN		V41.55	12.5 MB	
🔽 DAEWOO 🗦		V27.00	1.4 MB	
R	efresh	Unselect	Update	

Note: In process of download, please make sure it is properly connected to the WLAN network. It may take several minutes 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. Next time you login the system, you will not be asked to input the account manually.

<u>C. If you forgot the password</u>, tap "Retrieve password" and then follow on-screen instructions to set a new password.

4.3 Job Menu

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	To diagnose a vehicle manually.
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 the necessity of starting from scratch.
Software Update	To update vehicle diagnostic software and APK.
Reset	To perform all kinds of common repair & maintenance items, including electronic throttle position reset, ABS bleeding, oil lamp reset etc.
Remote Diagnose	This option aims to help repair shops or technicians launch instant messaging and remote diagnosis, making the repair job getting fixed faster.
Feedback	To feed back the recent 20 diagnostic logs to us for issue analysis.
Maintenance	Abundant maintenance data are available, which helps repair professionals diagnose and repair vehicles efficiently, accurately and profitably.
Vehicle Coverage	To view all the vehicle models that the tool covers.
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.
User Info	To manage VCI, reports, change password, configure system settings and logout etc.

Other Modules	Includes product manual and FAQ etc.
---------------	--------------------------------------

4.4 Diagnostics toolbar

The diagnostics toolbar contains a number of buttons that allow you to print the displayed data or make other controls. It is displayed on the upper right corner of the screen and goes through the whole diagnostic session. The table below provides a brief description for the operations of the diagnostics toolbar buttons:

Diagnostic Trouble Code	f	ē	ŀ
-------------------------	----------	---	---

Name	Button	Description	
Home	•	Returns to Job menu screen.	
Print	100	Tap to print the current screen. To perform printing, you need to purchase an extra wireless printer manufactured by LAUNCH separately and then properly configure the wireless printer following the steps described in Chapter 9.8.3.	
Exit		To exit the diagnostic application.	

4.5 Connections

4.5.1 Preparation

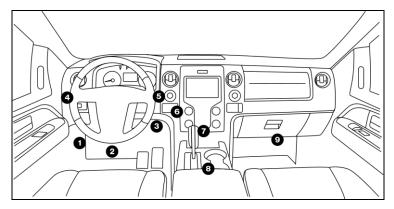
Normal testing conditions

- Turn on the vehicle power supply.
- Vehicle battery voltage range should be 9-18V.
- Throttle should be closed at its close position.

4.5.2 DLC location

The DLC (Data Link Connector or Diagnostic Link Connector) is typically a standard 16-pin connector where diagnostic code readers interface with the vehicle's on-board computer. The DLC is usually located 12 inches from the center of the instrument panel (dash), under or around the driver's side for most vehicles. If DLC is not located under dashboard, a label should be there telling location. For some Asian and European vehicles, the DLC is located behind the

ashtray and the ashtray must be removed to access the connector. If the DLC cannot be found, refer to the vehicle's service manual for the location.



4.5.3 Vehicle connection

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

- A vehicle equipped with an OBD II management system supplies both communication and 12V power through a standardized DLC.
- A vehicle not equipped with an OBD II management system supplies communication through a DLC connection, and in some cases supplies 12V power through the cigarette lighter receptacle or a connection to the vehicle battery.

Follow the steps mentioned below to connect OBD II vehicle:

- 1. Locate vehicle's DLC socket.
- 2. Plug the VCI device into the vehicle's DLC socket (It is suggested to use the OBD II extension cable to connect the VCI device and DLC socket).



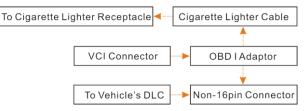
- 3. Choose one of the two ways to obtain power from:
 - A. Power adaptor: Connect one end of the included power adaptor to charging port of the tablet, and the other end to AC outlet.
 - B. Internal battery pack

For non-OBDII vehicle, proceed as follows:

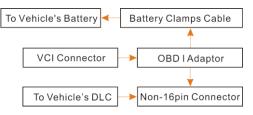
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- 1. Locate vehicle's DLC socket.
- 2. Select the corresponding non-16pin connector.
- 3. Plug the non-16pin end of the connector into the DLC socket, then connect the other end to the OBD I adaptor, and then tighten the captive screws.
- 4. Connect the other end of the adaptor to the included VCI device.
- 5. To supply power to OBD I adaptor from:

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



<u>B. Battery Clamps Cable:</u> Connect one end of the battery clamps cable to vehicle's battery, and the other end to the power jack of OBD I adaptor.



4.6 Communication Setup

If the VCI is successfully activated in process of product registration, it will automatically pair with the tablet after it is properly plugged into the vehicle's DLC. No more Bluetooth setting is required.

Note: In case no Bluetooth setting is done before diagnostic software is launched, you can also configure it in process of vehicle diagnosis.

4.7 Diagnostic Trouble Codes (DTCs)

OBD II Diagnostic Trouble Codes are codes that are stored by the on-board computer diagnostic system in response to a problem found in the vehicle.

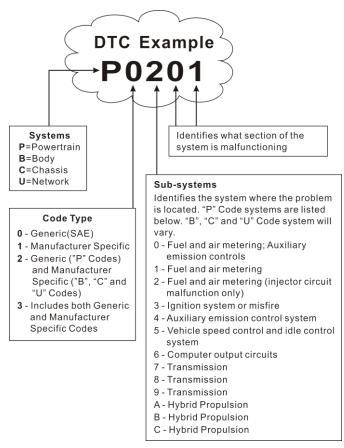
These codes identify a particular problem area and are intended to provide you with a guide as to where a fault might be occurring within a vehicle. **DO NOT** replace parts based only on DTCs without first consulting the vehicle's service manual for proper testing procedures for that particular system, circuit or component.

OBD II Diagnostic Trouble Codes consist of a five-digit alphanumeric code.

- The 1st character is a **letter** (B, C, P or U). It identifies the "main system" where the fault occurred (Body, Chassis, Powertrain, or Network).
- The 2nd character is a **numeric digit** (0 thru 3). It identifies the "type" of code (Generic or Manufacturer-Specific).



- Generic DTCs are codes that are used by all vehicle manufacturers. The standards for generic DTCs, as well as their definitions, are set by the Society of Automotive Engineers (SAE).
- Manufacturer-Specific DTCs are codes that are controlled by the vehicle manufacturers. The Federal Government does not require vehicle manufacturers to go beyond the standardized generic DTCs in order to comply with the new OBD II emissions standards. However, manufacturers are free to expand beyond the standardized codes to make their systems easier to diagnose.
- The 3rd character is a letter or a numeric digit (0 thru 9, A thru F). It identifies the specific system or sub-system where the problem is located.
- The 4th and 5th characters are letters or numeric digits (0 thru 9, A thru F). They identify the section of the system that is malfunctioning.



P0201 - Injector circuit malfunction, Cylinder 1

5 Diagnosis

5.1 Intelligent Diagnosis

Through simple Bluetooth communication between the display 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 the necessity of 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 diagnosis and diagnostic function are also available on this page for reducing the roundabout time and increasing productivity.

🛃 Notes:

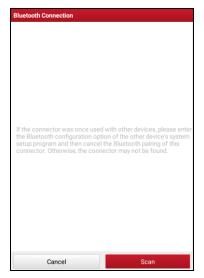
- Before using this function, please make sure the VCI is properly connected to the vehicle's DLC. For detailed connection, see Chapter 4.3.3 "Vehicle Connection".
- A stable network connection is required for this function.

Follow the steps below to proceed.

1. Tap "Intelligent Diagnose" on the Job menu screen.



Note: If the VCI is not paired up with the tablet before doing this step, a prompt message box will appear on the screen. Check all the possible reasons of Bluetooth connection failure carefully, and then tap **OK** to enter the following screen.



If the VCI was once used with other devices, you need to cancel the pairing of the VCI first via either one of the following ways:

- On the Android's home screen, tap "Settings" -> "Bluetooth" -> Choose the desired VCI from the Paired list. Tap "\$\overline{C}", and then tap "FORGET" to unpair it.
- Tap "User Info" -> "VCI Management" -> Tap "Deactivate matching".

Tap "Scan" to start searching for the VCI and pairing up with it.

- 2. Once pairing is complete, the tablet starts reading the vehicle VIN.
- A. <u>If the VIN can be found from the remote server database</u>, 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".

2020 05/14	Number of diagnostic systems:3	Quantity of DTCs:3	14:33:47	View Recon
2020 03/12	Number of diagnostic systems:0	Quantity of DTCs:0	10:17:02	View Recor
	Number of diagnostic systems:3	Quantity of DTCs:3	10:16:00	View Recor
2020 03/10	Number of diagnostic systems:4	Quantity of DTCs:10	16:39:54	View Recor

- · Tap "View record" to view the details of the current diagnostic report.
- To perform other functions, tap "Quick access" to directly go to the 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 (D) to switch the display mode of the screen.
- Tap 🔀 to turn the camera flash on.
- Tap C to choose it from the record list if the VIN of the vehicle has been scanned before.

- Tap it to input the VIN manually if the tablet has failed to identify the VIN of the vehicle.
- Tap is to scan the VIN barcode. If the VIN barcode cannot be recognized, please manually input the VIN.
- Tap [A] 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.

Recognize result WBAFG2102BL507724				
WBAFG2TD2BL507724				
If the VIN recognition is not correct, click change.VIN length is limited to 17				
REPEAT	ок			

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

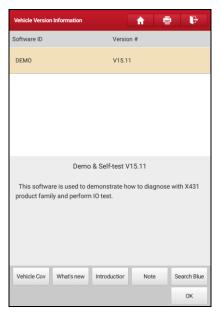
If the VIN exists on the remote server, the system will enter the diagnostic function selection screen.

5.2 Local Diagnosis

Tap "Local Diagnose" to enter the vehicle selection page. Tap a corresponding diagnostic software logo, and then follow the on-screen instruction to access the diagnostic software.

Take Demo as an example to demonstrate how to diagnose a vehicle.

1). <u>Select diagnostic software version</u>: Tap the "DEMO" to go to Step 2.



On-screen Buttons:

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

Update instruction: Tap to view the optimized items and enhancements.

Software introduction: Tap to check the software function list.

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

Search Bluetooth: Tap to search for the available VCI Bluetooth connector.

Note: No Bluetooth connection is required for DEMO program.

OK: Tap it to go to next step.

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

Show Menu	f	ē	ŀ
DEMO V15.11 > Select Test Item			
Health Report			
System Scan			
System Selection			

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", the system start scanning the ECUs and the screen displays as follows:

Select Test Item		ŵ	ē	4
DEMO V15.11 > Health Report				
	33%			
System Scanning				
			First Frede	0-4-10
ECM(Engine Control Module)			Find Fault	Code 2
TCM(Transmission Control Module)			Find Fault	Code 3
Pause				
Demo VIN 1FT8W3DT9CEB00000				

(To stop the system scanning, tap "Pause".)

Once the scanning is complete, a screen similar to the following appears:

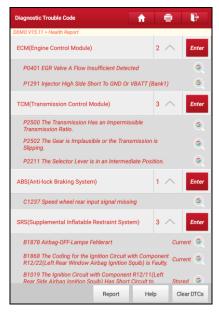


Fig. 5-14

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

On-screen Buttons:

<u>Clear DTCs:</u> Tap to clear the existing diagnostic trouble codes.

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.

Report: Tap to save it as a diagnostic report.

Report Information			
Report Type			
Pre-Repair	•		
Vehicle Information			
Demo	35565 km		
1FT8W3DT9CEB00000	License #:		
Report Info			
Demo_1FT8W3DT9CEB000 90704173715	000_DataStream_201		
Notes:			
SKIP	ок		

Fig. 5-15

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 \bigvee to select the report type from the option list and input the required information, and then tap "OK".

Alternatively you can also set the workshop information 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 to the diagnostic report.

To skip the workshop information, tap "Skip" to go to the next step.

All reports are saved under the tab "Diagnostic Report" in "My Report" from "User Info" menu. For details on report operations, please refer to Chapter 9.1 "My Report".

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 is complete, the screen will display the result.

Select Test Item	i P
DEMO V15.11 > System Scan	
System Name	Result
ECM(Engine Control Module)	Equipped
TCM(Transmission Control Module)	Equipped
ABS(Anti-lock Braking System)	Equipped
SRS(Supplemental Inflatable Restraint System)	Equipped
BCM(Body Control Module)	Equipped
IMM(Immobilizer)	Equipped
BMS(Battery Manager System)	Equipped
TPMS(Tire Pressure Monitoring System)	Equipped
SAS(Steering Angle System)	Equipped
Demo VIN 1FTBW3079CEB00000	

Tap the desired system to advance to the test function selection page. For detailed operations on test function, please refer to Chapter 5.2.3.

5.2.3 System Selection

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

On the test item selection screen, tap "System Selection", the following screen will appear:

Show Menu 🔒 🖶	ŀ
DEMO V15.11 > System Selection	
ECM(Engine Control Module)	
TCM(Transmission Control Module)	
ABS(Anti-lock Braking System)	
SRS(Supplemental Inflatable Restraint System)	
BCM(Body Control Module)	
IMM(immobilizer)	
BMS(Battery Manager System)	
TPMS(Tire Pressure Monitoring System)	
SAS(Steering Angle System)	
Demo VIN I FITBW3DT9CEB00000	

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

Tap the desired system (take "ECM" for example) to enter the test function selection screen.

Show Menu 🔒 📑
DEMO V15.11 > System Selection > ECM(Engine Control Module)
Version Information
Read Fault Code
Clear Fault Code
Read Data Stream
Actuation Test

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 test 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.

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

<u>Report</u>: To save the current data in text format. All reports are saved under the tab "Diagnostic Report" in "My Report" from "User Info" menu. For details on report operations, please refer to Chapter 9.1 "My Report".

C. Clear Fault Code

After reading the retrieved codes from the vehicle and certain repairs have been carried out, you can use this function to erase the codes from the vehicle. Before performing this function, please be 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 test function selection screen, tap "Clear Fault Code", a confirmation dialog box pops up on the screen.

Clear Fault Code			
Are you sure to clear fault code?			
No	Yes		

Tap "Yes" and 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 test function selection screen, tap "Read Data Stream", the system will display data stream items.

Select Data Stream				n	ē	ŀ
DEMO V15.1	1 > Systen	Selection > ECM(En	gine Cont	rol Module)		
Abs	Absolute Throttle Position B					
Acc	elerator	Pedal Position D				
Acc	elerator	Pedal Position E				
Acc	Accelerator Pedal Position Sensor 1					
Accelerator Pedal Position Sensor 2						
Ambient Air Temperature						
Ambient Air Temperature Sensor Voltage						
Barometric Pressure						
Calc	Calculated Engine Torque 0 / 59					
Select P	age	Select All	Ur	nselect		ок

On-screen Buttons:

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

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

Unselect: Tap it to deselect all data stream items.

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

After selecting the desired items, tap "Confirm" to enter the data stream reading page.

Data Stream		î	Ū.	ŀ
DEMO V15.11 > System Selection > Name	ECM(Engine Co Value	ntrol Module) Standard Range	Unit	English Metric
Absolute Throttle Position B	12.94	0 - 100	%	2
Accelerator Pedal Position D	15.69	0 - 100	%	2
Accelerator Pedal Position E	15.69	0 - 100	%	2
Accelerator Pedal Position Sensor 1	0.9	0 - 5	v	2
Accelerator Pedal Position Sensor 2	0.46	0 - 5	v	2
Ambient Air Temperature	21	-40 - 215	de- gree C	2
Ambient Air Temperature Sensor Voltage	1.75	0 - 5	v	2
Barometric Pressure	(1 9/5)	0 - 117.2	KPa	2
Graph	Report	Record		Help

🛃 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.

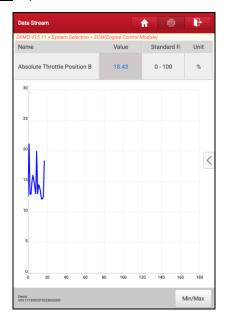
There are 3 types of display modes available for data viewing, allowing you to view various types of parameters in the most suitable way.

- <u>Value</u> this is the default mode which displays the parameters in texts and shows in list format.
- \checkmark <u>Graph</u> displays the parameters in waveform graphs.

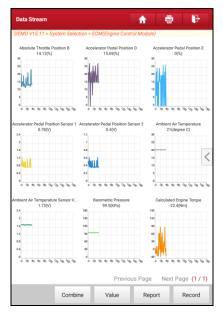
✓ <u>Combine</u> – this option is mostly used in graph merge status for data comparison. In this case, different items are marked in different colors.

On-screen Buttons:

Graph(Single): Tap it to view the waveform.



Graph: Tap it to view the waveform.



- <u>Combine</u>: 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 Value display mode.
- <u>Report</u>: To save the current data in text format. All reports are saved under the tab "Diagnostic Report" in "My Report" menu. For details on report operations, please refer to Chapter 9.1 "User Info".
- **Record**: Tap to start recording diagnostic data for future playback and analysis. The saved file follows the naming rule: It begins with vehicle type, and then the record starting time and ends with .x431 (To differentiate between files, please configure the accurate system time). The file is stored in "My Report" under "User Info" menu.

Data Stream		A	ī	ŀ
DEMO V15.11 > System Selection >	ECM(Engine Co	ntrol Module)		
Name	Value	Standard Range	Unit	English Metric
Absolute Throttle Position B	20	0 - 100	%	2
Accelerator Pedal Position D	21.96	0 - 100	%	2
Accelerator Pedal Position E	1.57	0 - 100	%	2
Accelerator Pedal Position Sensor 1	0.85	0 - 5	v	2
Accelerator Pedal Position Sensor 2	0.5	0 - 5	v	2
Ambient Air Temperature	21	-40 - 215	de- gree C	2
Ambient Air Temperature Sensor Voltage	1.75	0 - 5	v	
Recording Barometric Pressure	(1945)	0 - 117.2	KPa	00:02
Graph	Report	Record		Help

<u>**Report**</u>: To save the current data in text format. All reports are saved under the tab "Diagnostic Report" in "My Report". For details on report operations, please refer to Chapter 9.1 "My Report".

<u>Record</u>: Tap to start recording diagnostic data for future playback and analysis. The saved file follows the naming rule: It begins with vehicle type, and then the record starting time and ends with .x431 (To differentiate between files, please configure the accurate system time). The file is stored in "My Report" under "User Info" menu.

Help: Tap to view the help information.

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.

On the test function selection screen, tap "Actuation Test", the following screen will appear:

Actuation Test	A B	₽
DEMO V15.11 > System Selection > ECM(Eng	ine Control Module)	
1# Injector		
ON		~
2# Injector		
ON		~
3# Injector		
ON		~
4# Injector		
ON		~
ок	Cancel	
Demo VIN 1FT8W3DT9CE800000		

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

In addition to amazing & powerful diagnostic function, the tool also features various reset functions, which varies from vehicle to vehicle.

5.3 Remote Diagnosis

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

Tap "Remote Diagnosis" on the Job menu, the screen appears blank by default.

5.3.1 Interface Layout



1	Home button	Tap it to navigate to the Job menu 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	Friend list display area	By default it appears blank.	
4	Message tab	Once an incoming message reaches, a red dot will appear on the upper right corner of the tab.	
5	Contact tab	Tap to enter the friend list.	
6	Remote switch	Tap to slide the switch to ON, the tool keeps online and becomes accessible on the web client. In this case, inform the technician of your product S/N, and he/she will control your device remotely.	

5.3.2 Add 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 golo business database.

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

- Workshop
- Technician
- golo users

Once the result matches the keyword, a screen similar to the following will appear:

Here you can tap "Remote Diagnose" to launch remote diagnostics directly or choose to add the partner into the Contacts list.

Contacts		f
Q y198649		Search
Internet search results		
yt986491168600	£	Remote diagnose
yt986491166900	1	Remote diagnose
yt986491094300	1	Remote diagnose
yt986491082500	1	Remote diagnose
yt986490765800	£	Remote diagnose
yt986490758700	£	Remote diagnose
yt986490759400	£	Remote diagnose
v#096400760700		
\odot	<u>_</u>	<u>G</u>
Messages		Remote

Tap the desired name from the list, the following screen appears:



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

Please input the verification information			
l am a985190018060	8		
CANCEL	CONFIRM		

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 Contact tab.
- If a technician sent you a friend request, you can tap "Agree" to confirm and his/her name will appear in the friend list (Contact). Or tap "Ignore" to ignore this request.

message	es			f
closed		Verification Information		Clear
	Evon I am Evon		Ignore	Agree

5.3.3 Start Instant Messaging

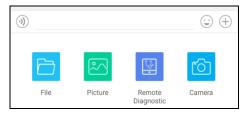
Note: The I/M (Instant Messaging) function is open to all users who had Launch's diagnostic tool equipped with this module.

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



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

- Tap (\mathfrak{g}) to send the voice message.
- Tap 🙂 to send the emoj.
- Tap (+) to call out more function options.



LAUNCH

File: Choose diagnostic reports or local files to send.

Picture: Choose screenshots or pictures to send.

<u>Remote Diagnostic</u>: 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.

5.3.4 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 V V4.0) of Launch family, which are equipped with this module.

Note: 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.

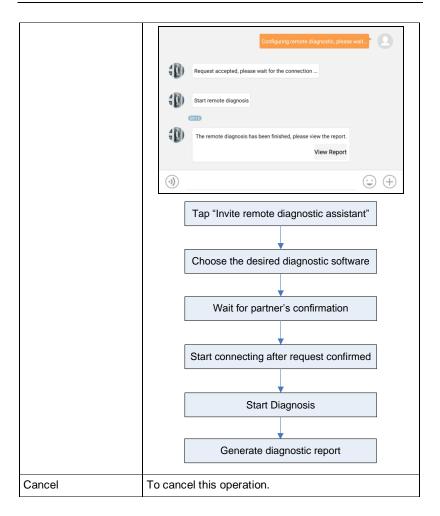
On the function option selection screen, tap "Remote Diagnostic", a pull-down menu including the following options appears:



These options are defined as follows:

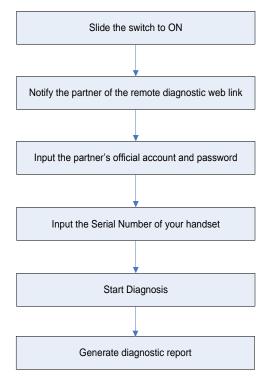
Actions	Results
Request control remote device	 Request to control the partner's device remotely to help him diagnose the vehicle. Notes: Remote diagnosis has the same diagnostic steps as manual diagnosis. In process of remote diagnosis, tap the button to
	send a voice message.

	• 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.		
	Tap "Request control remote device"		
	Wait for partner's confirmation		
	Start connecting after request confirmed		
	Start Diagnosis		
	Generate diagnostic report		
	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. 		
Invite remote diagnostic assistant	• 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 details. All diagnostic reports are saved under the "Remote Diagnostic Reports" tab of "My Report" in "User Info".		

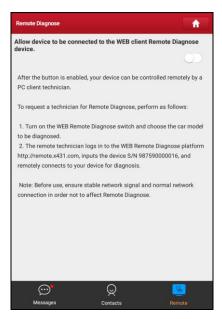


5.3.5 Launch Remote Diagnosis (Device-To-PC)

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 "Web Remote" tab, the screen displays as follows:



- 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.
- Notify the partner of the PC client website http://remote.x431.com. When the partner accesses the link, the PC displays as below:

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

Real-time remote full system diagnosis		
Login	Register	
GoloAccount/Phone		
Password		
Remember Me	Forget Password?	
Log	jin	

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

	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
9	72290000223
	Start remote diagnosis

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.
- The partner is not allowed to save any diagnostic reports or records on your tablet.

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

5.4 Diagnostic History

Generally once a vehicle diagnosis is performed, the tool will record the every details of diagnostic process. The History function provides direct access to the previously tested vehicles and users can resume from the last operation, without the necessity of starting from scratch.

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



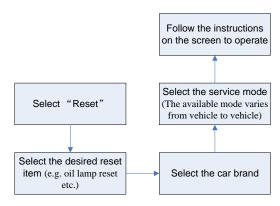
- Tap certain vehicle model to view the details of the last diagnostic report.
- To delete certain diagnostic history, select it and then tap "Delete". To delete all historical records, tap "Select All" and then tap "Delete".
- Tap "Quick access" to directly navigate to the function selection page of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

6 Special (Reset) Function

In addition to amazing & powerful diagnostic function, the tool also features various service functions. The most commonly performed service functions contain:

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

There are two methods to reset service lamp: Manual reset or Auto reset. Auto reset follows the principle of sending command from the tool to vehicle's ECU to do resetting. While using manual reset, users just follow the on-screen instructions to select appropriate execution options, enter correct data or values, and perform necessary actions, the system will guide you through the complete performance for various service operations.



6.1 Oil Reset Service

This function allows you to perform reset for the engine oil life system, which calculates an optimal oil life change interval depending on the vehicle driving conditions and climate.

This function can be performed in the following cases:

- If the service lamp is on, you must provide service for the car. After service, you need to reset the driving mileage or driving time so that the service lamp turns off and the system enables the new service cycle.
- 2. After changing engine oil or electric appliances that monitor oil life, you need to reset the service lamp.

6.2 Electronic Parking Brake Reset

- If the brake pad wears the brake pad sense line, the brake pad sense line sends a signal sense line to the on-board computer to replace the brake pad. After replacing the brake pad, you must reset the brake pad. Otherwise, the car alarms.
- 2. Reset must be performed in the following cases:
 - a) The brake pad and brake pad wear sensor are replaced.
 - b) The brake pad indicator lamp is on.
 - c) The brake pad sensor circuit is short, which is recovered.
 - d) The servo motor is replaced.

6.3 Steering Angle Calibration

To reset the steering angle, first find the relative zero point position for the car to drive in straight line. Taking this position as reference, the ECU can calculate the accurate angle for left and right steering.

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

6.4 ABS Bleeding

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

- 1. When the ABS contains air, the ABS bleeding function must be performed to bleed the brake system to restore ABS brake sensitivity.
- If the ABS computer, ABS pump, brake master cylinder, brake cylinder, brake line, or brake fluid is replaced, the ABS bleeding function must be performed to bleed the ABS.

6.5 Tire Pressure Monitor System Reset

This function allows you to quickly look up the tire sensor IDs from the vehicle's ECU, as well as to perform TPMS replacement and sensor test.

- 1. After the tire pressure MIL turns on and maintenance is performed, the tire pressure resetting function must be performed to reset tire pressure and turn off the tire pressure MIL.
- 2. Tire pressure resetting must be performed after maintenance is performed in the following cases: tire pressure is too low, tire leaks, tire pressure monitoring device is replaced or installed, tire is replaced, tire pressure sensor is damaged, and tire is replaced for the car with tire pressure monitoring function.

6.6 Gear Learning

The crankshaft position sensor learns crankshaft tooth machining tolerance and saves to the computer to more accurately diagnose engine misfires. If tooth learning is not performed for a car equipped with Delphi engine, the MIL turns on after the engine is started. The diagnostic device detects the DTC P1336 'tooth not learned'. In this case, you must use the diagnostic device to perform tooth

learning for the car. After tooth learning is successful, the MIL turns off. After the engine ECU, crankshaft position sensor, or crankshaft flywheel is replaced, or the DTC 'tooth not learned' is present, tooth learning must be performed.

6.7 IMMO Service

An immobilizer is an anti-theft mechanism that prevents a vehicle's engine from starting unless the correct ignition key or other device is present. Most new vehicles have an immobilizer as standard equipment. An important advantage of this system is that it doesn't require the car owner to activate it since it operates automatically. An immobilizer is considered as providing much more effective anti-theft protection than an audible alarm alone.

As an anti-theft device, an immobilizer disables one of the systems needed to start a car's engine, usually the ignition or the fuel supply. This is accomplished by radio frequency identification between a transponder in the ignition key and a device called a radio frequency reader in the steering column. When the key is placed in the ignition, the transponder sends a signal with a unique identification code to the reader, which relays it to a receiver in the vehicle's computer control module. If the code is correct, the computer allows the fuel supply and ignition systems to operate and start the car. If the code is incorrect or absent, the computer disables the system, and the car will be unable to start until the correct key is placed in the ignition.

To prevent the car being used by unauthorized keys, the anti-theft key matching function must be performed so that the immobilizer control system on the car identifies and authorizes remote control keys to normally use the car.

When the ignition switch key, ignition switch, combined instrument panel, ECU, BCM, or remote control battery is replaced, anti-theft key matching must be performed.

6.8 Injector Coding

Write injector actual code or rewrite code in the ECU to the injector code of the corresponding cylinder so as to more accurately control or correct cylinder injection quantity.

After the ECU or injector is replaced, injector code of each cylinder must be confirmed or re-coded so that the cylinder can better identify injectors to accurately control fuel injection.

6.9 Battery Maintenance System Reset

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

Battery matching must be performed in the following cases:

- a) Main battery is replaced. Battery matching must be performed to clear original low battery information and prevent the related control module from detecting false information. If the related control module detects false information, it will invalidate some electric auxiliary functions, such as automatic start & stop function, sunroof without one-key trigger function, power window without automatic function.
- b) Battery monitoring sensor. Battery matching is performed to re-match the control module and motoring sensor to detect battery power usage more accurately, which can avoid an error message displaying on the instrument panel.

6.10 Diesel Particulate Filter (DPF) Regeneration

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

DPF regeneration may be performed in the following cases:

- a) The exhaust back pressure sensor is replaced.
- b) The PM trap is removed or replaced.
- c) The fuel additive nozzle is removed or replaced.
- d) The catalytic oxidizer is removed or replaced.
- e) The DPF regeneration MIL is on and maintenance is performed.
- f) The DPF regeneration control module is replaced.

6.11 Electronic Throttle Position Reset

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

6.12 Gearbox Matching

- 1. This function can complete the gearbox self-learning to improve gear shifting quality.
- 2. When the gearbox is disassembled or repaired (after some of the car battery is powered off), it will lead to shift delay or impact problem. In this case, this function needs to be done so that the gearbox can automatically compensate according to the driving conditions so as to achieve more comfortable and better shift quality.

6.13 AFS (Adaptive Front-lighting System) Reset

This feature is used to initialize the adaptive headlamp system. According to the ambient light intensity, the adaptive headlamp system may decide whether to automatically turn on the headlamps, and timely adjust the headlamp lighting angle while monitoring the vehicle speed and body posture.

6.14 Sunroof Initialization

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

6.15 Suspension Calibration

- 1. This function can adjust the height of the body.
- 2. When replacing the body height sensor in the air suspension system, or control module or when the vehicle level is incorrect, you need to perform this function to adjust the body height sensor for level calibration.

7 Software Update

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

If you did not download the software in process of product registration or a pop-up message prompting you that some new software can be updated, you may use this option to download it or keep it synchronized with the latest version.

7.1 Update Diagnostic Software & APP

Tap "Software Update" on the Job Menu to enter the update center.

Software Update			A
Upgradeable software(96)		Serial Num	ber: 987590000016
All software Common s	oftware	Qe	nter the model name
Vehicle	Current Version	Update Version	Size
Firmware upgrade program		V11.72	124.7 KB
AutoSearch		V10.64	22.7 MB
APP application program		V3.11.004	44.5 MB
BAIC 🗦		V11.20 💌	7.1 MB
🔽 вмw 🗦		V50.30 💌	608.2 MB
🔽 CHANGAN 🗦		V16.40 💌	10.3 MB
CHANGCHENG		V36.01 💌	13.4 MB
CHRYSLER		V32.60 💌	46.5 MB
CITROEN		V41.55 💌	12.5 MB
DAEWOO		V27.00 💌	1.4 MB
R	efresh	Unselect	Update

By default, all diagnostic software is selected. To deselect certain software, tap "Unselect", and then check the box next to vehicle model. Tap "Update" to start downloading. It may take several minutes to finish it, please be patient to wait. To pause downloading, tap "Stop". To resume it, tap "Continue". If network

connection failure occurs, tap "Retry" to try again.

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

7.2 Set Frequently Used software

To easily locate and quickly update some frequently used software, you can use the "Common Software" option to create a frequently used software list.



Tap "+" on the right edge of the screen, a pop-up window appears. Select the checkbox before the software name and tap "SAVE", the software will be displayed in the Common software list. Next time you want to update it, just go to "Common Software".

7.3 Renew Subscription

If the software subscription is due or expires, the system will prompt you to renew your subscription and a "Renew" button will appear on the bottom of the update page.

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Tap "Renewal" to navigate to the payment screen.

There are two ways available for you to make payment: PayPal and Subscription Renewal Card (*need to buy it from the local dealer where you purchased the tool).

A. Using PayPal

- 1. Tap "Renewal" on the update page to navigate to the renewal type selection screen.
- Select "PayPal", and then follow the on-screen instructions to finish the transaction.
- 3. After payment, go to update center to update the diagnostic software.

B. Using Subscription Renewal Card

- 1. Tap "Renewal" to navigate to the renewal type selection screen.
- 2. Select "Subscription Renewal Card".



- 3. Input the 24-digit pin code of Subscription Renewal Card and then tap "Submit" to finish the renewal.
- 4. Go to update center to update the diagnostic software.

8 Feedback

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

Tap "Feedback", a pop-up message will appear:



Tap "Confirm", the following 3 options will be displayed on the left column of the screen.

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.
- 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 remote server automatically.

9 User Info

This function allows users to manage personal information and VCI.

9.1 My Report

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

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

In case the DTC result is saved <u>on Read Trouble Code page</u>, the files will be listed under **Diagnostic Report** tab.

My Report		1	ì
Diagnostic Report	Remote Diagnostic Rep	ort Diagnostic Record	
DEMO(Data Stream).	_985190018060_20170712143	047 2017-07-12 14	4:30:49
DEMO(DTC)_985190	018060_20170712140456	2017-07-12 14	4:05:02
	Select All Sha	re Delete Ren	ame

- 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".

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- Select the desired report and then tap "Delete" to delete it.
- To revise the filename of the report, tap "Rename".

If user records the running parameters <u>while reading data stream</u>, it will be saved as .x431 file and appear under **Diagnostic Record** tab.

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

Diagnostic Record			
Name	Value	Unit	
A/C Pressure Sensor	241325	Кра	2
A/C Pressure Switch	Closed (High)		
Accelerator Pedal Position	6863	%	2
Accelerator Pedal Position Sensor 1	4418	v	2
Accelerator Pedal Position Sensor 2	4418	v	2
Barometric Pressure	12066	Кра	2
Brake Light Switch	On		
Brake ON/OFF	On		
Desired Idle Speed rpm	3300	rpm	2
Electronic Throttle Control Actual	8750	Deg	2
Electronic Throttle Control	8758	Deg	~
Auto Rlayback(x1) emperature	135	degree C	0/33
≿ Combine	t	D Value	
		Frame P	ayback

On-screen Buttons:

<u>Graph</u> – displays the parameters in waveform graphs.

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

<u>Combine</u> – 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".

Remote Diagnostic Report lists all diagnostic reports generated in process of remote diagnosis.

9.2 VCI

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

If several VCI devices 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.

9.3 VCI Management

This option is used for the tablet to deactivate pairing up with the VCI device via Bluetooth.



Note: please be sure to keep the VCI powered on while performing the operation.

9.4 Activate VCI

This item lets you to activate a new VCI device.

Activate Connector	A
Serial Number	
Activation Code	
Ac	ctivate
	Where is my activation code?

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

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

9.5 Firmware Fix

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

9.6 My News

This option allows you to receive some commercial and promotional activity messages.

9.7 My Order

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

9.8 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.

9.9 Profile

Use this item to view and configure personal information.

Profile	^
	Usemame::a985190018060
Nickname	a985190018060 >
Gender	A
Country	China >
Email	haijun.peng@cnlaunch.com(unbound) >
Free Upgrade Period	>

- · Tap the user image to change it.
- Tap > next to "Free Upgrade Period" to check the due date of all diagnostic

software.

9.10 Change password

This item allows you to modify your login password.

9.11 Settings

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

9.11.1 Units of Measurement

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

9.11.2 Shop Information

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

Shop Name	Shop Name
Address	Address
Telephone	Telephone
Email	Email

After inputting, tap "Save".

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

9.11.3 Printer Set

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

Follow the steps below to connect the printer.

1. Tap "Printer Set".



A. If it is the first time you have operated this printer, please proceed the following:

 For initial use, you are suggested to reset the printer: Press and hold [MODE] & [FEED] for 8 seconds, the following resetting command will be printed out:

```
at + default = 1
ok
at + reboot = 1
```

rebooting...

1. Tap "Reset" to configure the printer.

Step 1: Connect the printer:

Tap "Scan" to start scanning and select the desired printer hotspot named with X-431PRINTER-XXXX (XXXX stands for 4 characters), and then tap "Connect" to enter Step 2.

Step 2: Join the printer into LAN:

Tap "Scan" to select the desired local WLAN network from the list, and type in the security password (If it is an open network, password is not required), and then tap "Confirm".

4. Once the WLAN network of the printer is connected and the printer is found, tap "Printing test" to test the printing.

Now you can use the printer to print!

If the printer is not found, please reset the printer to default factory settings (refer to Step 2 for details) and check whether the current device and the printer are on the same LAN.

B. If you have configured the printer to the LAN:

2. Tap "Connect to Printer":

a). If the local network remains as it is, tap "Test Print" directly to test the printing.

b). If the local network changes, you have to reset the printer.

9.11.4 Orientation

The option is used to set the screen display orientation.

9.11.5 Clear Cache

This option allows you to clear the App cache. Clearing the cache will restart the App.

9.11.6 About

The software version information and disclaimer are included.

9.11.7 Login/Logout

To logout the current user ID, tap "Logout".

To login the system again, tap "Login".

10 Others

10.1 Synchronization

You can transfer media files and APK between the PC and the tablet.

10.1.1 Connect to PC

- 1. Use the USB cable to connect the tablet to your PC.
- 2. Swipe from the top, a message "Connected as a media device" appears.

10.1.2 Run on PC

Perform the following steps:

- Locate the new disc.
- Copy the files.

10.1.3 Install an application

Do the following steps:

- 1. Tap **Settings** -> **Security**, and set the "Unknown sources" to ON, which allows you to install apps from unknown sources.
- 2. A dialog box appears on the screen, tap "OK" to confirm.
- 3. Set the tool as "Connected as a media device", and copy the APK file from the PC to the tool.

10.2 Clear Cache

Doing so clears all browsing records and accounts and enables the tablet to run smoothly and quickly.

- 1. Tap Settings -> Apps.
- 2. Tap and select "Sort by size" to arrange all applications in size order.
- 3. Tap certain application, then tap "Clear Cache" to release the space these cache files are occupied.

11 FAQ

1. How to save power?

- > Please turn off the screen while the tool keeps idle.
- Set a shorter standby time.
- > Decrease the brightness of the screen.
- If WLAN connection is not required, please turn it off.
- Disable GPS function if GPS service is not in use.

2. Communication error with vehicle ECU?

Please confirm:

- 1. Whether the VCI device 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 device 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?

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 App after resetting the tablet?

Vote: 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 <u>www.x431.com</u> 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.
- 2. 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 [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.

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

Any question during the operation, please call 86-755-84528722.

If your unit requires repair service, return it to the manufacturer with a copy of the sales receipt and a note describing the problem. If the unit is determined to be in warranty, it will be repaired or replaced at no charge. If the unit is determined to be out of warranty, it will be repaired for a nominal service charge plus return freight. Send the unit pre-paid to:

Attn: Customer Service Department LAUNCH TECH. CO., LTD. Launch Industrial Park, North of Wuhe Avenue, Banxuegang, Bantian, Longgang, Shenzhen, Guangdong P.R.China, 518129 Launch website: http://www.cnlaunch.com http://www.x431.com

Statement:

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