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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 X-431 V+, 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 X-431 V+ in exceptionally cold or hot, dusty, damp or dry environments.
- In places using X-431 V+ may cause interference or generate a potential risk, please turn it off.
- X-431 V+ 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 X-431 V+ into apparatus with strong electromagnetic field.
- Keep X-431 V+ far away from magnetic devices because its radiations can damage the screen and erase the data stored on X-431 V+.
- 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.
- Do not disconnect power abruptly when X-431 V+ is being formatted or in process of uploading or downloading. Or else it may result in program error.
- Do not delete unknown files or change the name of files or directories that were not created by you, otherwise your X-431 V+ software might fail to work.
- Be aware that accessing network resources can leave your X-431 V+ vulnerable to computer viruses, hackers, spyware, and other malicious activities that might damage your device, software or data. It is your responsibility to ensure that you have adequate protection in the forms of firewalls, antivirus software, and anti-spyware software and keep such software up to date.

Precautions on Using X-431 V+

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

- Always perform automotive testing in a safe environment.
- If the diagnostic connector remains unused 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 test equipment dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clear the outside of the equipment as necessary.
- Do not drive the vehicle and operate the test equipment 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 test equipment or generating false data, please make sure the vehicle battery is fully charged and the connection to the vehicle DLC (Data Link Connector) is clear and secure.
- Automotive batteries contain sulfuric acid that is harmful to skin. In operation, direct contact with the automotive batteries should be avoided. Keep the ignition sources away from the battery at all times.

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+ is a new Android-based vehicle trouble diagnostic device developed for internet applications. 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 Bluetooth communication between vehicle diagnostic connector and variant mobile intelligent terminals, 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.

Meanwhile, taking advantage of mobile internet, it integrates more application and service, such as Repair Data and Update etc.

X-431 V+ adopts a higher performance-price ratio tablet computer, which is equipped with Android 5.1 operating system, 1.3GHz quad core CPU and 10.1" HD display.

1.2 Features

1. Diagnose:

- ♦ Diagnose the electronic control system of prevailing vehicle models covering Asian, European, American and Chinese. Diagnosis functions include: Read DTCs, Clear DTCs, Read Data Stream, Special Functions etc.
- ♦ Specially designed for Android platform with user-friendly interface.
- ♦ Via Bluetooth, it is simple for the diagnostic connector to communicate with X-431 V+.
- ♦ Equipped with an exclusive X-431 V+ protective sleeve to prevent it from being damaged.
- ♦ Multiple maintenance and repair functions are supported to boost shop revenue: Electronic throttle position reset/learn and gear learning etc.

2. Repair Data: Provides a mass of service information for various vehicle models, which enables users to retrieve service data of some vehicle online.

3. Update: Lets you update your diagnostic software more efficiently.

4. Browser: Built-in Wi-Fi module makes surfing on the internet freely.

5. Email: Allows you to send and receive emails.

6. Settings: To configure your personalized X-431 V+ through it.

7. Other additional functions: Alarm, Calendar and Calculator etc.

1.3 Knowledge of X-431 V+

1.3.1 X-431 V+ whole set

X-431 V+ is composed of an X-431 V+ tablet (See Chapter “1.3.2”) and a diagnostic connector (See Chapter “1.3.3”).

1.3.2 X-431 V+ tablet

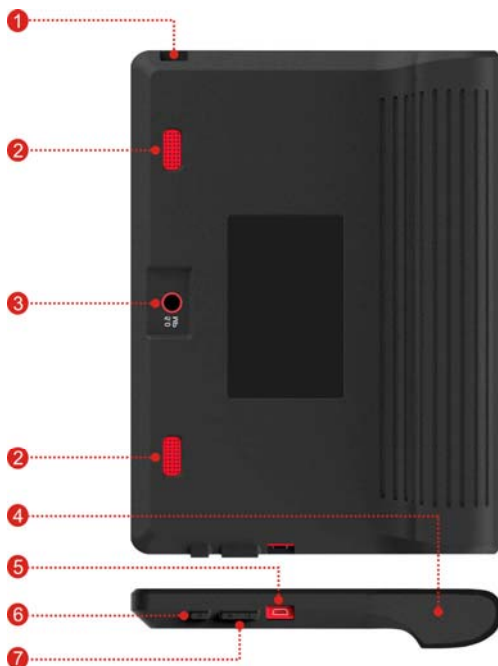


Fig. 1-1 X-431 V+ tablet

1 **Earphone Jack**

2 **Speakers**

3 **Rear Camera**

4 **TF Card Slot** To insert a TF card.

5 **USB/Charging Port**

- | | | |
|---|-----------------------|--|
| 6 | POWER Key | In Off mode, press it to turn on X-431 V+;
In On mode:
♦ Press it to activate the LCD if the LCD is off.
♦ Press it to turn off the LCD if the LCD lights up. |
| 7 | VOLUME +/- Key | To adjust the volume. |

1.3.3 Diagnostic connector (Only applies for 12V cars)



Fig. 1-2 Diagnostic connector

- | | | |
|---|------------------------------------|---|
| ① | OBD-16 diagnostic connector | To connect on vehicle's OBD2 DLC. |
| ② | ECU communication indicator | It flashes when the connector is communicating with the vehicle. |
| ③ | Power indicator | It lights up while the connector is plugged into the vehicle's DLC. |

-
- | | |
|--|--|
| ④ Bluetooth/USB communication indicator | <ul style="list-style-type: none">• It indicates Bluetooth mode if the connector is energized and illuminates blue (default mode).• It illuminates red when the connector is connected to X-431 V+ via USB cable. |
|--|--|
-
- | | |
|------------------------|---|
| ⑤ Mini USB port | For connecting the USB cable to X-431 V+. |
|------------------------|---|
-

1.4 Technical Parameters

X-431 V+:

- Operating system: Android 5.1
- CPU: Quad-core 1.3GHz processor
- Battery: 7000mAh rechargeable polymer lithium battery
- Memory: 1GB
- Storage capacity: 16GB
- LCD: 10.1 inch
- LCD resolution: 1280 x 800
- Touch screen: Capacitive touch screen
- Cameras: 5.0 mega pixels rear and 2.0 mega pixels front
- Wi-Fi: Support 802.11a/b/g/h
- Bluetooth: Supported
- Working temperature: 0°C ~ 45°C
- Storage temperature: -20°C ~ 70°C

Diagnostic Connector:

- Working voltage: 9 ~18V
- Average working current: About 35mA
- Standby current: About 25mA
- Working temperature: -20 to 55°C
- Storage temperature: -30 to 70°C
- Storage humidity: <80%
- Working humidity: <60%

1.5 Package List

While purchasing, please check the following accessories:

- X-431 V+ handset
- Confidential paper
- Diagnostic connector (for 12V car diagnosis)

- X-431 HD module (optional, for heavy-duty trucks diagnosis)
- OBD II extension cable
- Cigarette lighter cable
- Power adaptor
- USB cable
- Non-16pin connectors

2 Preparations

2.1 Charging X-431 V+



There are two charging methods available:

Via Power adaptor:

1. Insert one end of the included USB cable into the power adaptor.
2. Connect the other end into the charging port of X-431 V+.
3. Plug the adaptor into AC outlet.

Via Personal computer:

1. Insert one end of the included USB cable into the USB port of PC.
2. Connect the other end into the charging port of X-431 V+.

If  appears on the screen, it indicates it is being charged. If the logo changes into , it indicates that the battery is fully charged. Unplug the USB cable on the charger from X-431 V+.


2.2 Using your battery

- ♦ 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.
- ♦ 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.
- ♦ While X-431 V+ has low battery, a beep will sound. If it is very low, X-431 V+ will be switched off automatically.

2.3 Power on/off

2.3.1 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.







2.3.2 Power off

Press [POWER] for 3 seconds, an option menu will pop up on the screen. Tap

“Power off” to turn the tool off.


To perform a forced shutdown, press [POWER] for more than 8 seconds until the screen goes dark.

2.4 Tips on finger operations

	Single-tap: To select a item or launch a program.
	Double-tap: To zoom in so that the text on a webpage appears in a column that fits your device's screen.
	Long press: Tap and hold on the current interface or area until a contextual menu pops up on the screen, and then release it.
	Slide: To jump to different pages.
	Drag: Tap the desktop icon and drop it to other location.
	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.

2.5 Lock & unlock the screen

Many screen lock modes are available on X-431 V+.


 **Note:** You are recommended to set screen lock as “None” since X-431 V+ is a frequently used diagnostic tool.

2.5.1 Lock the screen

- When it is ON, press [POWER] once to lock the screen;
- The system will lock the screen automatically after X-431 V+ remains idle over the preset standby time.

2.5.2 Unlock the screen

Press [POWER] to activate the screen and drag the lock to “Unlock” position.

 **Note:** If you define as unlock using the pattern, you have to draw the right target pattern to unlock it.





2.6 Screen layout

1. Preview the screen

Tap and hold any blank area on the home screen, a function menu will pop up at the bottom of the screen. It mainly includes wallpapers, lock screen wallpapers, widgets, settings and apps.

2. On-screen buttons

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

- **Back:** Tap  to return to the previous screen.
- **Home:** Tap  to jump to the Android's home screen.
- **Recent App:** Tap  to view the recently launched applications and running applications. The following operations can be done:
 - Tap the desired app to open it.
 - Swipe the desired app to the left or to the right to close it.
 - Tap  to close all unlocked applications.

2.7 Notification panel

The notification bar is used to display some activities, such as new message, to do list and running tasks. You can also open the notification bar to view the reminder or activity notification.

2.8 Customize your desktop


2.8.1 Create a widget on the desktop

1. Tap and hold a blank area on the home screen, tap “WIDGETS” below the preview screen;
2. Tap and hold the desired application or widget, and then drag it to the target position.


2.8.2 Move items on the desktop

Tap and hold the item to be moved, and drag and drop it to the target location.

2.8.3 Delete items from the desktop


 **Warning:** Deleting an icon will uninstall the corresponding application. Please be careful to do so.

1. Tap and hold the item to be moved until it is shaken.
2. Drag it on the trash icon and release it.

 **Note:** If no trash icon appears on the top of the screen, it indicates that the

application cannot be uninstalled.

2.8.4 Adjust brightness

 **Tips:** Reducing the brightness of the screen is helpful to save the power of X-431 V+.

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

2.8.5 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 HOME screen, tap Settings > Display > Sleep.
2. Choose the desired sleep time.


2.9 Set screen lock

This function is designed to lock the screen and buttons to avoid accidental operations while X-431 V+ keeps unused.

1. On HOME screen, tap Settings > Security > Screen lock.
2. Choose the desired screen lock mode and follow the on-screen instructions to finish your setting.

 **Note:** You are recommended to set screen lock as “None” since X-431 V+ is a frequently used diagnostic tool.



3 Wi-Fi Setting

 Note: Once WLAN is set as ON, X-431 V+ will consume more power. While WLAN keeps unused, please turn it off to conserve battery power.

X-431 V+ has built-in Wi-Fi that can be used to get online. Once you're online, you can register your X-431 V+, browse the Internet, get apps and send email on your network.

3.1 Connect to a Wi-Fi network

1. On home screen, tap Settings > WLAN.
2. Tap or slide the Wi-Fi switch to ON, X-431 V+ starts searching 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).

 Note: On the WLAN setting page, tap  and choose “Add network” to add a new network.

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

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

3.2 Disconnect from a Wi-Fi network

1. On home screen, tap Settings > WLAN.
2. Tap the network with a **Connected** status, then tap “Disconnect”.

4 How to diagnose

4.1 Diagnosis Flowchart

For new users, please follow the operation chart shown in Fig. 4-1 to get familiar with and start using X-431 V+.

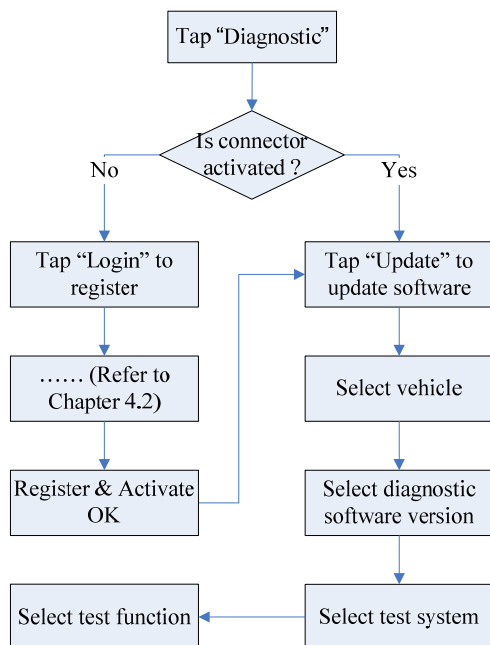


Fig. 4-1

4.2 User Registration, Connector Activation & Diagnostic Software Download

4.2.1 User registration

Tap the X-431 V+ icon on the desktop to launch the application, and then tap "Login" to enter the login interface of diagnosis software.

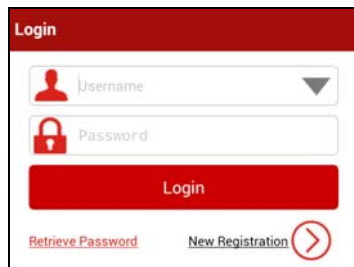


Fig. 4-2

1. If you are a new user, tap "New Registration" to enter registration page. See Fig. 4-3.



Fig. 4-3

In Fig. 4-3, fill in the information in each field (Items with * must be filled). After inputting, tap "Register", a screen similar to the following will appear:



Fig. 4-4

In Fig. 4-4, input the Serial Number and Activation Code, which can be found in the password envelope.

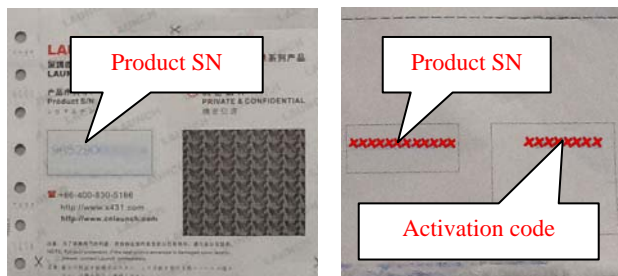


Fig. 4-5

Note: To exit and activate it later, tap “Skip”. In this case, you can activate your connector by tapping “Activate Connector” in “Profile”. For details, please refer to Chapter 4.8.2 Activate Connector.

Tap “Activate” to finish your registration. See Fig. 4-6.

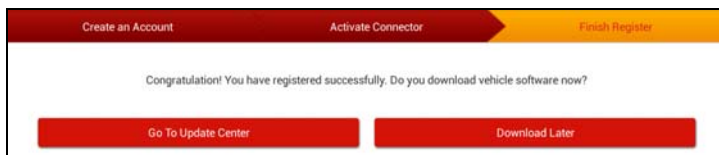


Fig. 4-6

To download the diagnostic software, tap “Go to Update Center”. See Fig. 4-7.
Tap “Download Later” to download and install it later.

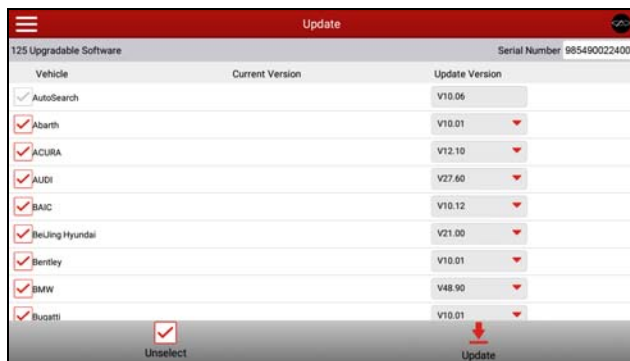



Fig. 4-7

In Fig. 4-7, 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.


 **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.

2. 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.


4.2.2 Diagnostic software layout



Fig. 4-8

- 1 Tap  to unfold the function menu. Refer to “**Chapter 4.2.3 Function menu**” for details.
- 2 VINSKAN button: Tap it to scan the Vehicle Identification Number (VIN) code of your vehicle. OBD VIN and INPUT VIN are included.
Note: Before using this function, the corresponding diagnostic software needs to be downloaded on your tool first.
- 3 Vehicle diagnosis software logo: To start diagnosing a vehicle, you have to download the corresponding diagnostic software.
- 4 Vehicle region buttons: Tap different buttons to switch to corresponding vehicles.
- 5 History tab: Generally once a vehicle diagnosis is performed, the system will record the 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.
- 6 Login button/User image: Tap it to login or register the diagnostic system. Once users have logged in successfully, it will change to your username or photo.

4.2.3 Function menu

Tap  to unfold function menu, it mainly includes the following items:

Name	Description
Diagnostic	Configures X-431 V+ to operate as a diagnostic tool.
Data	Provides abundant automotive technology handbook and repair case for your reference.
Update	To update vehicle diagnostic software.
Profile	To manage My Connector, My Report, Change Password and Logout etc.
Settings	Allows you to configure system settings and feed back the diagnostic reports.

4.3 Connections

4.3.1 Preparation

Normal testing conditions

- Turn on the vehicle power supply.
- Throttle should be closed at its close position.

Select the diagnostic connector

If X-431 V+ is testing vehicles equipped with universal OBD II 16 PIN diagnostic socket, please use the included diagnostic connector. (For vehicles with non-OBD II 16 PIN diagnostic socket, a non-16 PIN connector is required.)

4.3.2 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 Data Link Connector 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.

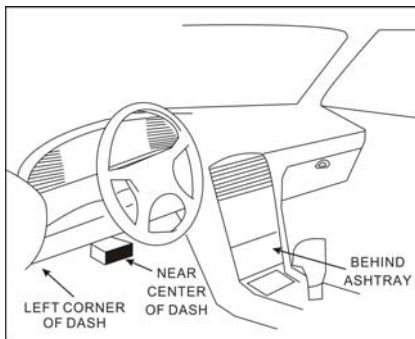


Fig. 4-9

4.3.3 Vehicle connection

The method used to connect the diagnostic connector 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 diagnostic connector into the vehicle's DLC socket (It is suggested to use the OBD II extension cable to connect the diagnostic connector and DLC socket.).

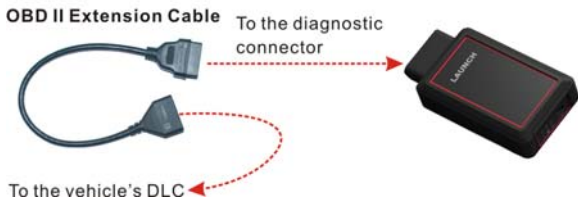


Fig. 4-10

3. Choose one of the two ways to obtain power from:
 - A. Power adaptor: Connect one end of the included power adaptor to DC IN port of X-431 V+ tablet, and the other end to AC outlet.

B. Internal battery pack

For non-OBDII vehicle, proceed as follows:

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 diagnostic connector.
5. To supply power to OBD I adaptor from:

A. Cigarette Lighter: 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.



Fig. 4-11

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



Fig. 4-12

4.4 Bluetooth Setting

Enter X-431 V+ Bluetooth setting screen ("Settings" --> "Bluetooth"), slide the Bluetooth switch to ON and X-431 V+ will start searching available Bluetooth

device, tap the desired connector to pair and match.

By default, the Bluetooth name is 98559****00 (where **** stands for 5 digits.).

Note: In case no Bluetooth setting is done before diagnostic software is launched, you can also configure it while using the software.

4.5 Start Diagnosing

Tap  --> “Diagnostic” to enter the vehicle selection page.

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

1. VINSCAN enables you to access it more quickly.

In this case, automatic scan (OBD VIN) and manual input (INPUT VIN) are available.



Fig. 4-13

OBD VIN: In this mode, the diagnostic connector should be plugged into the vehicle's DLC first, and then a Bluetooth communication should be established between X-431 V+ and the vehicle.

Tap “OBD VIN” to scan the vehicle identification number of the vehicle. Once scanning is complete and successful, X-431 V+ will enter the diagnostic software of the vehicle.

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

INPUT VIN: In this mode, you need to input the VIN manually. 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.

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 “INPUT VIN” and a screen similar to Fig. 4-14 will appear:

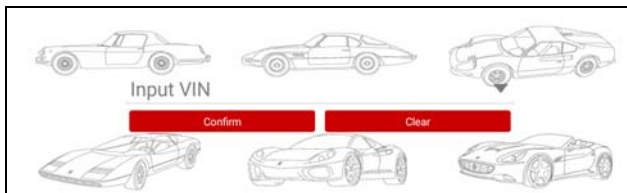


Fig. 4-14

Input the VIN, and tap “Confirm” to enter the diagnostic software of the vehicle.

2. 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). Tap the “DEMO”, the following dialog box appears:

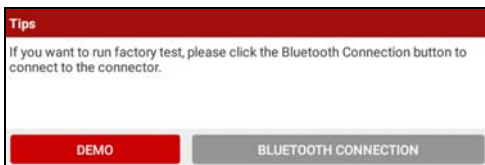


Fig. 4-15

- 2). Tap “DEMO” to ignore Bluetooth connection and jump to the DEMO system selection screen. (Note: No Bluetooth connection is required for DEMO program.)

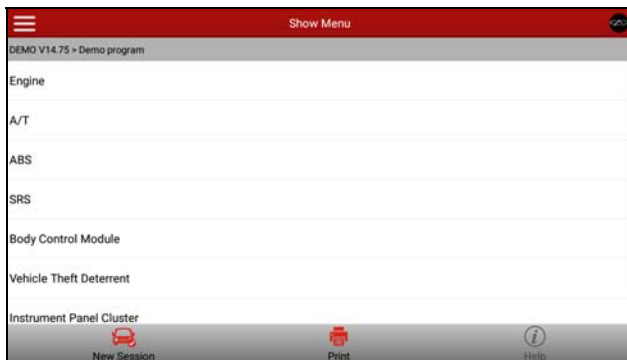


Fig. 4-16

- 3). Tap “Engine”, the system will jump to the function menu. See Fig. 4-17.

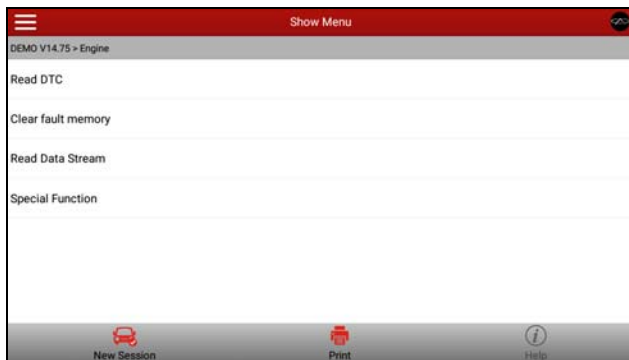


Fig. 4-17

4.5.1 Read DTC

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

Tap "Read DTC" in function menu, the screen will display the diagnostic result.



Fig. 4-18

On-screen Buttons:

New Session: Tap it to return to the home screen.

Search: Highlight a certain DTC item, and then tap it to search the definition of the selected DTC online.

Report: To save the current data in text format. All reports are saved under the tab "Diagnostic Report" in "My Report" from "Profile" menu. For details on report

operations, please refer to Chapter 4.8.4 “My Report”.

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 it to view the help information.

4.5.2 Clear fault memory

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.

Tap “Clear Trouble Code” in function menu, the system will automatically delete the currently existing trouble code.

Note: The trouble code will not disappear until the trouble was completely cleared.

4.5.3 Read data stream

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

Tap “Read Data Stream” in function menu, the system will display data stream items.

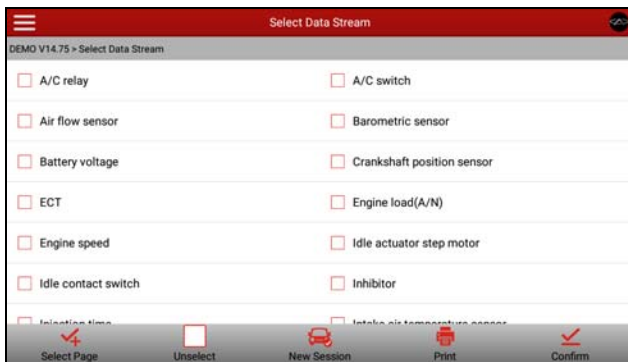


Fig. 4-19

On-screen Buttons:

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

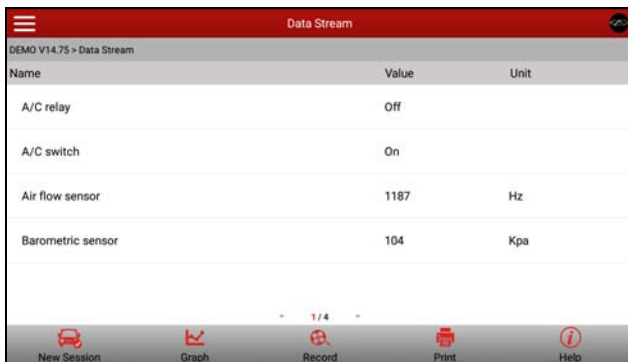
Unselect: Tap it to deselect all data stream items.

New Session: Tap it to return to the home screen.

Print: Tap it to print the current screen. To perform printing, you need to purchase a Wi-Fi printer manufactured by LAUNCH separately.

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

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



The screenshot shows the 'Data Stream' interface for 'DEMO V14.75'. It displays a table with the following data:

Name	Value	Unit
A/C relay	Off	
A/C switch	On	
Air flow sensor	1187	Hz
Barometric sensor	104	Kpa

At the bottom of the screen, there are five navigation buttons: 'New Session', 'Graph', 'Record', 'Print', and 'Help'.

Fig. 4-20

On-screen Buttons:

New Session: Tap to return to the home screen.

Graph: After selecting, tap it to view the waveform. There are 3 types of display modes available for data viewing, allowing you to view various types of parameters in the most suitable way.

✓ **Graph** – displays the parameters in waveform graphs. Refer to Fig. 4-21.

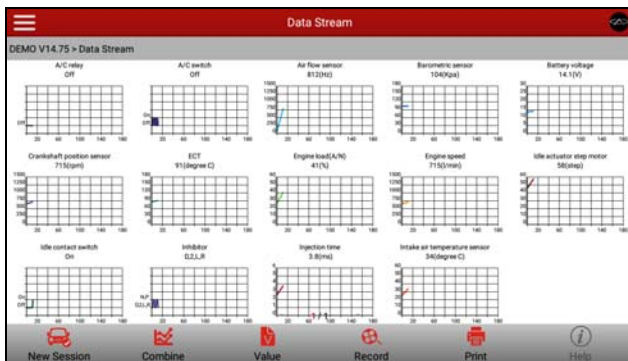


Fig. 4-21

- ✓ **Value** – this is the default mode which displays the parameters in texts and shows in list format.
- ✓ **Combine** – this option is mostly used in graph merge status for data comparison. In this case, different items are marked in different colors. See Fig. 4-22.

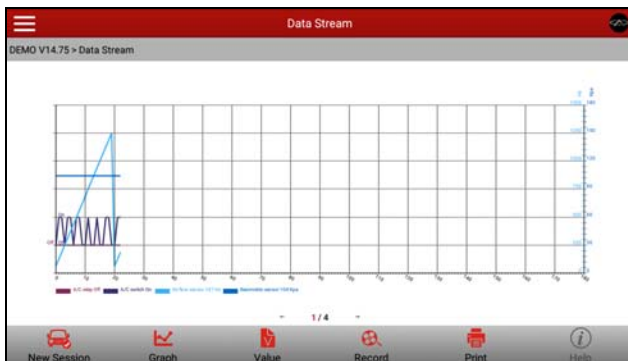


Fig. 4-22

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 “Profile” menu. For details on playback operations, please refer to Chapter 4.8.4 “My Report”.

To stop reading the data stream, tap before the recording progress bar.

Print: Tap to print the content of current screen. An additional Wi-Fi printer is required.

Help: Tap to view the help information.

If more than one page of data stream items is displayed, an icon similar to 1/4 appears. Swipe the screen from right to left to switch to the next page.

4.5.4 Special function

This option allows you to detect whether the system parameters are normal or not. It mainly includes: Injector test, fuel pump test, purge control solenoid and so on.

4.5.5 How to view History?

Generally once a vehicle diagnosis is performed, X-431 V+ will record the every

details of diagnostic process. The History function provides a quick access to the tested vehicles and users can resume from the last operation, without the necessity of starting from scratch.

1. Tap “History”, all diagnostic records will be listed on the screen in date sequence.

Where the box with light blue background indicates that no DTCs are found on this vehicle and the light yellow box indicates that the vehicle has DTCs.

2. Tap a certain box to enter the history records.
3. Tap “Restore” to directly jump to the system selection screen.
4. Tap the desired system to enter and follow the instructions on the screen to proceed.

4.5.6 Reset Service

In addition to amazing & powerful diagnostic function, X-431 V+ also features various service functions. The most commonly performed service functions contain:

- Oil Reset Service
- Steering Angle Calibration
- Electronic Parking Brake Reset
- Battery Register / Battery Maintenance
- ABS Bleeding
- Electronic Throttle Position Reset / Learn
- Diesel Particulate Filter (DPF) Regeneration
- Tire Pressure Monitor System Reset

Oil Reset Service

This function can be performed in the following cases:

1. 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.

Steering Angle Calibration

1. 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.
2. 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.

Electronic Parking Brake Reset

1. 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.

Electronic Throttle Position Reset/Learn

This function enables you to initialize the throttle actuators so that the “learned” values stored on ECU are returned to the default state. Doing so can accurately regulate throttle (or idle engine) operations to control the amount of air intake.

Throttle matching must be performed in the following cases:

- a) The ECU is replaced and the ECU does not yet store throttle working features.
- b) The ECU is disconnected from power and the ECU memory is lost.
- c) The throttle assembly is replaced.
- d) The intake pipe is replaced or removed, which affects idle speed control by ECU and throttle body.
- e) The throttle is cleaned. Although the idle throttle potentiometer features remains unchanged, with the same throttle opening, the air inflow has changed and idle speed control features have changed.

Battery Register/Battery Maintenance

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.

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.
2. 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.

Tire Pressure Monitor System Reset

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.

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.

4.6 Repair Data

This option provides abundant repair case and automotive technology handbook for your reference.

Tap "Data" and follow the on-screen instructions to proceed.

4.7 Update


 **Note:** To make sure the X-431 V+ is running the latest available software, it is advisable to check for updates on a frequent basis. When checking for updates it is

important to make sure X-431 V+ has a strong Wi-Fi connection.

Before diagnosing a vehicle, you have to download the corresponding vehicle diagnosis software.

Tap  --> “Update” to enter.

Tap the serial number and a list of diagnostic software will pop up on the screen.

 **Note:** If no several connectors are activated, please ignore this step.

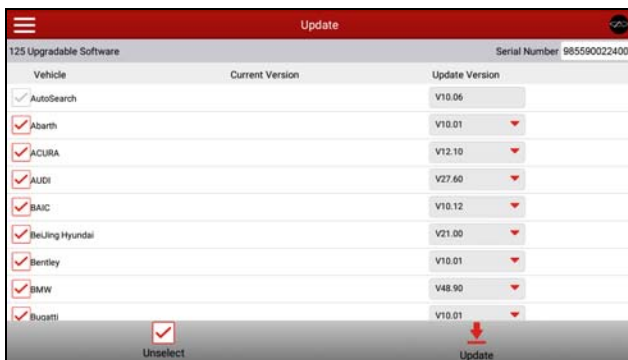


Fig. 4-23

By default, all diagnostic software is selected. To select certain software, tap “Unselect”, and then uncheck the box next to car make.

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

4.8 Profile

This function allows users to manage your personal information.

4.8.1 My connector

This option is used to manage all your activated connectors.

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

4.8.2 Activate connector

It is used to activate your diagnostic connector.

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

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

4.8.3 Firmware fix

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

4.8.4 My report

This option is used to view the diagnostic report generated in process of vehicle diagnosis. Additionally, delete, share operations are also supported.

Tap “**My Report**”, there are total 2 options available.

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

In case the DTC result is saved on Read Trouble Code page, .pdf or .jpg files will be listed under **Diagnostic Report** tab.

4.8.5 Profile

Use this item to view and configure personal information.

4.8.6 Change password

This item allows you to modify your login password.

4.8.7 Help

FAQ, Quick Start Guide and User Manual are included.

4.8.8 Log out

This option allows you to logout the system. To logout the current user ID, tap “Log Out”.

4.9 Settings

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

4.9.1 Units of measurement

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

4.9.2 Orientation

This option is used to set the display mode of the application.

4.9.3 Print information

This option lets you define your print information. It mainly includes Workshop,

Address, Telephone, Fax and License Plate. After inputting, tap “Save”.

4.9.4 Launch wireless printer connection

This option is designed to establish a wireless connection between X-431 V+ and the Wi-Fi printer (sold separately) while performing printing operations.

Follow the steps below to connect the printer.

1. Tap “Launch Wireless Printer Connection”;

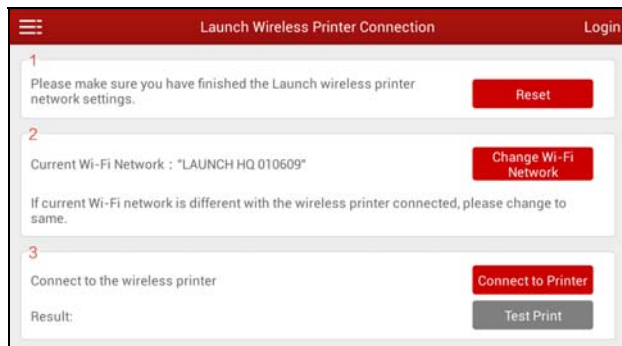


Fig. 4-24

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

2. 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...

3. Tap “Reset” to configure Wi-Fi printer.

Step 1: Connect the printer:

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

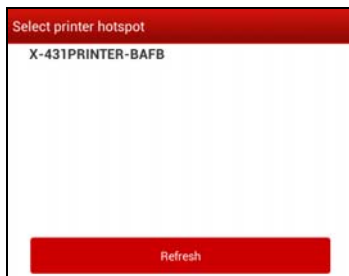


Fig. 4-25

Step 2: Join the Wi-Fi printer into LAN:

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

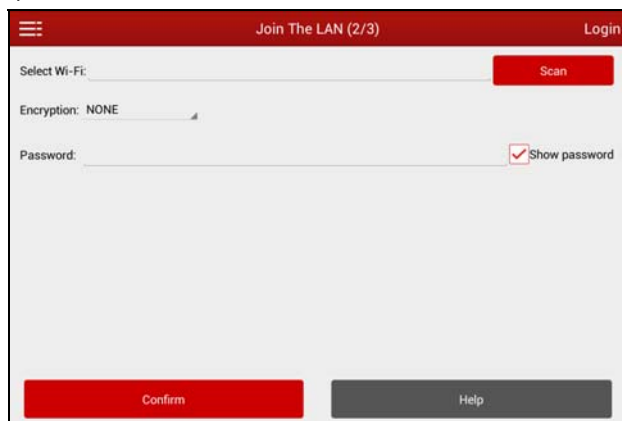


Fig. 4-26

4. Once the Wi-Fi network of the printer is connected and the printer is found, tap “Printing test” to test the printing.



Fig. 4-27

Now you can use the Wi-Fi 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 Wi-Fi 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 Wi-Fi printer.

4.9.5 Diagnostic feedback

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

4.9.6 Network test

It enables you to test whether the current network environment is good or not. It is normal that you may encounter a logout while testing.

4.9.7 About

The software version information and disclaimer are included.

5 X-431 HD Module (Optional)

X-431 V+ provides an optional function of X-431 Heavy-duty module, which is specifically designed to diagnose diesel and gas-fueled heavy-duty vehicle models of 12V & 24V voltage.

5.1 Knowledge of X-431 HD Module







5.1.1 Features

1. Applicable to diesel vehicle of 12V & 24V voltage; no need for battery conversion when testing 24V trucks;
2. Supports a wide range of vehicle models covering Asian, American and European etc;
3. Powerful testing function enables you to diagnose all electronic control system;
4. International design to meet all diagnostic sockets.

5.1.2 Ports & indicators of X-431 HD Module



Fig. 5-1 Ports and indicators of X-431 HD module

No.	Name	Notes
1	Indicators (from left to right)	
	 Power indicator	It lights up when X-431 HD module is powered up.
	 Communication indicator of X-431 V+	It lights up when X-431 HD module is communicating with X-431 V+.
	 Communication indicator of Vehicle	It lights up when X-431 HD module is connected to vehicle's DLC.
	 Communication indicator of PC	It illuminates when X-431 HD module is connected to PC via serial port cable. (Currently disabled and applied for subsequent function extension.)
	 USB status indicator	It illuminates blue after USB cable is properly connected to X-431 HD module. (Currently disabled and applied for subsequent function extension)
	 Bluetooth indicator	It lights up when X-431 HD module is communicating with vehicle's DLC.
2	PC communication port	To connect to the serial port of PC. (Currently disabled and applied for subsequent function extension)
3	USB port	To connect the B-shaped terminal of USB cable. (Currently disabled and only applied for subsequent function extension)
4	Diagnostic socket	To connect the diagnostic cable.
5	Power jack	To connect the power adaptor of X-431 HD module.

5.1.3 Technical Parameters

- ◆ Working voltage: 9~36V
- ◆ Working temperature: -15°C ~ 60°C
- ◆ Storage temperature: -20°C ~ 70°C
- ◆ Relative humidity: 10% ~ 80%
- ◆ Dimension: 110 mm * 178 mm * 50 mm

5.2 Connections

5.2.1 How to connect OBD II vehicle

Follow the steps described below to proceed:

1. Locate the vehicle's DLC socket. The DLC is usually located the driver's cab. If the DLC cannot be found, refer to the vehicle's service manual for the location.
2. Connect one end of the diagnostic cable to the diagnostic socket, and then connect other end to the vehicle's DLC (For non-16 pin DLC, you need to choose the corresponding diagnostic connector). See Fig. 5-2.

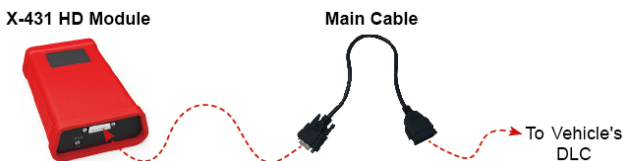


Fig. 5-2

5.2.2 How to connect non-OBD II vehicle

Choose one of the following to connect non-OBD II vehicle:

1. Via Cigarette Lighter

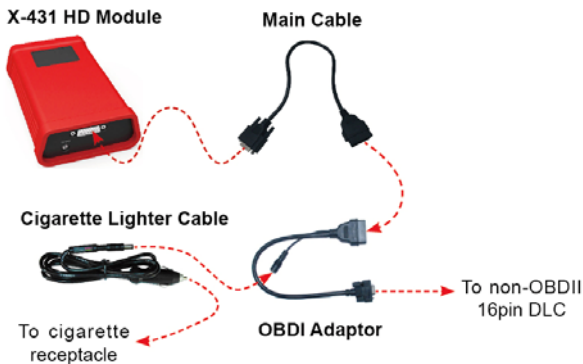


Fig. 5-3

2. Via Battery Clamps Cable

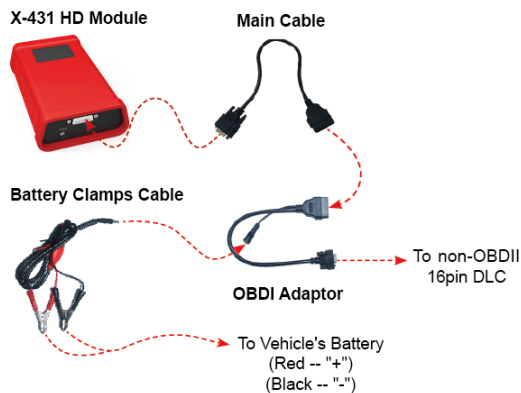



Fig. 5-4

5.3 Activate X-431 HD Module



After purchasing X-431 HD module, you have to activate it before use.

Follow the steps below to proceed:

1. Launch the application, and tap ;
2. Tap "Profile" from the pull-down menu, and then tap "Activate Connector";
3. Input the Serial Number and Activation Code, which can be found in the included password envelope. Tap "Activate".
4. If the module is successfully activated, a "Heavy-duty" icon will appear on the vehicle region selection bar.

5.4 Download Diagnostic Software

Before diagnosing heavy-duty trucks, you have to download the diagnostic software.

1. Tap  --> "Profile" to choose the serial number for X-431 HD module;
2. Tap  --> "Update" to enter diagnostic software download page;
3. Tap "Update" to start downloading and installing.

5.5 How to diagnose


Diagnosing a heavy-duty truck has same operation procedures as DEMO program. For details, please refer to Chapter 4.5 "Start Diagnosing".

6 Others


6.1 Email

The function allows you to send and receive email.

6.1.1 Configure an email account

 Note: Before sending or receiving email, you have to set up an email account. In addition, this function required a stable network connection.

1. On the home screen, tap **Email**.
2. Choose the desired email account type.
3. Input email address and password, tap “Next”.

 Note: If “Manual setup” is selected, please consult your email service provider for detailed parameter setting.

4. Follow the on-screen instructions to proceed until the system prompts you that the account setup has been finished.

6.1.2 Add an email account

1. Tap **Settings** --> **Accounts**.
2. Tap **Add account**.
3. Choose the desired account type.

6.2 Browser

6.2.1 Open browser

On the home screen, tap **Browser** to launch the browser. You can choose the desired homepage or input the website address to browse.

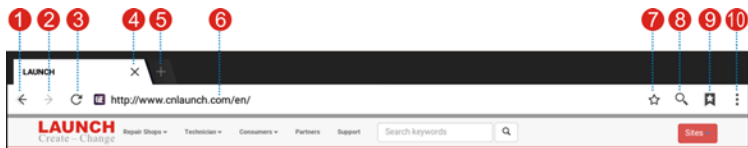


Fig. 6-1

- 1 Return to the previous page.
- 2 Advance to the recently visited page.
- 3 Refresh the current page.

4	Close the current page.
5	Create a new tab.
6	Input a web address.
7	Add the current page as bookmark.
8	Open search bar.
9	Open bookmark list.
10	View more options.

6.2.2 Download files

Files, pictures, and applications can be downloaded from the website in browser. For example:

Tap and hold a picture, then choose “Save image” from pop-up menu to download it.

To download a link, tap and hold it, and then choose “Save link”.

To protect your X-431 V+ and personal data, please download applications from trusted sources. To configure it, tap **Settings > Security**, and then slide the Unknown sources switch to off.

6.3 Synchronization

You can transfer media files and APK between the PC and X-431 V+.

6.3.1 Connect to PC

1. Use the USB cable to connect the X-431 V+ to your PC.
2. Swipe from the top, a message “Connected as a media device” appears.

6.3.2 Run on PC

Perform the following steps:

- Locate the new disc.
- Copy the files.

6.3.3 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.

6.4 Camera

This option allows you to use the built-in camera to take pictures and record videos.

On the home screen, tap **Camera**.

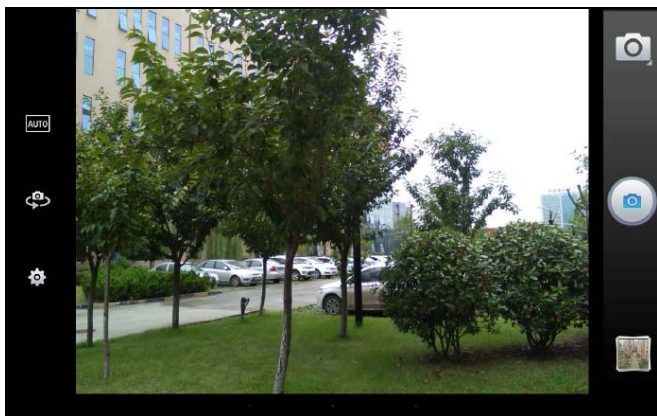







Fig. 6-2

6.4.1 How to take photos and record a video?

- Tap  to select the camera mode.
- Tap  to take a picture.
- Tap  to set the scene mode.
- Tap  to toggle between the front and rear camera.
- Tap  to make other settings, such as store location, picture size and shutter sound etc.

6.4.2 How to capture the screen?

Tap and hold the POWER and VOLUME- key to capture the screen.

6.4.3 How to browse a picture or video?


All pictures and videos are stored on the internal storage; you can use one of the following methods to view it.

- In camera mode, tap “Preview”;
- Go to Gallery.

To view the screenshots, go to “Gallery”.

6.5 Clear Cache

Doing so clears all browsing records and accounts and enables X-431 V+ 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.


7 FAQ

1. How to save power?

- Please turn off the screen while X-431 V+ 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. What should I do in case I forgot the screen lock?

You can set screen lock as pattern or password. If you forgot the password, please consult your device provider or reset your device.

 Warning: Resetting may cause data loss. Before use, please make sure important data has been backed up.

3. How to do if the system runs slow?

In this case, please do the followings:

> Check all running applications and stop the unnecessary applications (Steps: Settings --> Apps --> Running --> Tap the desired application and then tap "Stop").


> Check all installed applications, remove the unnecessary applications (Steps: Settings --> Apps --> Downloaded --> Tap the desired application and then tap "Uninstall").


If all steps mentioned above are finished and the system still works slowly. Please try to close the system and reboot your X-431 V+.

4. How to handle when you encounter "Insufficient storage space"?


If this happens while downloading the diagnostic software, please proceed as follows:

1. Get your X-431 V+ username and password ready. If you forgot the password, please dial our hotline to retrieve it with the product serial number 98559*****.
2. Reset the X-431 V+ to the default factory settings (For details, please refer to Item 5 in this Chapter).
3. Tap "Settings" --> "WLAN", choose the desired WLAN network to connect.

4. Open the browser and visit www.dbscar.com to download and install the latest App.
5. After the installation is complete, launch the application and login with your username and password.
6. Tap  --> "Update" to download the diagnostic software.

 Note: For new App, the software structure and storage space occupied by the vehicle softwares have been optimized so as to avoid the occurrence of insufficient storage.

5. How to reset X-431 V+?

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

Do the following to reset X-431 V+:

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.

6. Why some videos on the website can be not played?

It possibly results from:

1. The current browser does not support Flash playing;
 2. Flash player does not support this video.
- Try to use other browsers to watch it or install other Flash player.

7. The date and time of X-431 V+ can not be set.

It is because Automatic date & time is set on your X-431 V+. Tap "Settings" --> "Date & time", deselect "Automatic date & time" and then set the date and time manually.

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:

LAUNCH reserves the rights to make any change to product designs and specifications without notice. The actual object may differ a little from the descriptions in the manual in physical appearance, color and configuration. We have tried our best to make the descriptions and illustrations in the manual as accurate as possible, and defects are inevitable, if you have any question, please contact local dealer or after-sale service center of LAUNCH, LAUNCH does not bear any responsibility arising from misunderstandings.