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- To take full advantage of the unit, you should be familiar with the engine.
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Safety Precautions and Warnings

To prevent personal injury or damage to vehicles and/or the tool, please read this user's manual first carefully and observe the following safety precautions at a minimum whenever working on a vehicle:

- There are no user serviceable parts. Have the device serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the device is maintained. Disassembling the device will void the warranty right.
- This product is not a toy. Do not allow children to play with or near this item.
- Do not expose the device to rain or wet conditions.
- Do not place the device on any unstable surface.

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- Handle the device with care. If the device is dropped, check for breakage and any other conditions that may affect its operation.
- Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or heavy dust.
- Keep the tool dry, clean, and free of oil, water, or grease. Use a mild detergent to lightly dampen a clean cloth, and clean the enclosure of the tool when necessary.
- People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
- Always perform automotive testing in a safe environment.
- Do not attempt to operate or observe the tool while driving a vehicle. Operating or observing the tool will cause driver distraction and could cause a fatal accident.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, and other objects away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area. Exhaust gases are poisonous.
- Chock drive wheels and never leave the vehicle unattended while running tests.
- Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Put the transmission in P (for A/T) or N (for M/T) and make sure the parking brake is engaged.
- Keep a fire extinguisher suitable for gasoline, chemical, and electrical fires within the work area.
- Don't connect or disconnect any test equipment while the ignition is on or the engine is running.

Compliance Information

FCC ID: XUJCRP123V3ARM

The correspondence for Product Model/IC/HVIN is shown in the table below:

Product Model	IC	HVIN
Creader Professional 123 V3	29886-CRP123V3ARM	Creader Professional 123 V3
Creader VII+ V3		Creader VII+ V3

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

This device complies with Innovation, Science and Economic Development Canada's licence-exempt RSSs and part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference; and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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

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

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

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

The device for operation in the band 5150-5250MHz is only for indoor use.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or

more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Specific Absorption Rate (SAR) information

This product meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.

RF Exposure Information and Statement

The SAR limit is 1.6 W/kg averaged over one gram of tissue. This device has also been tested against this SAR limit. This device was tested for typical body-worn operations 0mm from the body. To maintain compliance with RF exposure requirements, use accessories that maintain a 0mm separation distance between the user's body.

Body-worn Operation

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 0mm must be maintained between the user's body, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.

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

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

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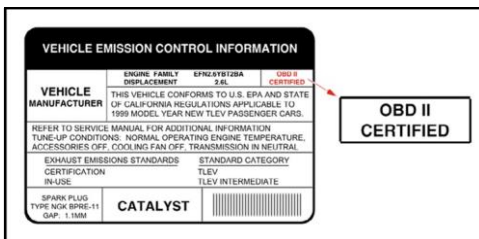
1 Overview

1.1 Vehicle Coverage

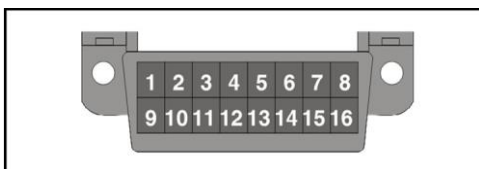
This diagnostic tool is specially designed to work with all OBD II compliant vehicles, including Controller Area Network (CAN).

A small number of 1994 and 1995 model year gasoline vehicles are OBD II compliant. To verify if a 1994 or 1995 vehicle is OBD II compliant, check the following:

1. **Vehicle Emissions Control Information (VECI) Label.** It is located under the hood or by the radiator of most vehicles. If the vehicle is OBD II compliant, the label will designate **OBD II Certified**.



2. Government regulations mandate that all OBD II compliant vehicles **must** have a "common" 16-pin **Data Link Connector (DLC)**.



Note: Some 1994 and 1995 vehicles have 16-pin connectors but are not OBD II compliant. Only those vehicles with a Vehicle Emissions Control Label stating **OBD II Certified** are OBD II compliant.

1.2 On-Board Diagnostics (OBD) II

The OBD II system is designed to monitor emission control systems and key engine components by performing either continuous or periodic tests of

specific components and vehicle conditions, which will offer three pieces of such valuable information:

- Whether the Malfunction Indicator Light (MIL) is commanded “on” or “off”;
- Which, if any, Diagnostic Trouble Codes (DTCs) are stored;
- Readiness Monitor status.

1.3 OBD II Definitions

The following terms and their definitions are related to OBD II systems. Read and reference this list as needed to aid in the understanding of OBDII systems.

EOBD - European On-Board Diagnostics. Essentially the same as OBD II, with the same Data Link Connector and Communication Protocols.

Communication Protocols - Allows different systems and sensors in a vehicle to communicate. There are currently five protocols:

- CAN Bus
- J1850 VPW
- ISO 9141-2
- J1850 PWM
- ISO 14230 KWP

PCM - Powertrain Control Module. The PCM is the OBD II accepted term for the vehicle’s “on-board computer.” In addition to controlling the engine management and emissions systems, the PCM also participates in controlling the powertrain (transmission) operation. Most PCMs also have the ability to communicate with other computers on the vehicle (ABS, ride control, body, etc.).

DLC - Data Link Connector. The 16-cavity connector on the vehicle that allows communication between the computer system and the diagnostic tool.

MIL - Malfunction Indicator Light. The vehicle’s “Check Engine” warning light that activates when a DTC is stored.

DTC - Diagnostic Trouble Code. A code stored in the computer system’s memory, which helps to identify the fault condition that is causing the MIL to activate.

Freeze Frame Data - Operating conditions that are stored when a DTC is stored.

PID - Parameter Identification Data. Data returned by the vehicle's control modules to the diagnostic tool.

Monitors - Monitors are "diagnostic routines" programmed into the PCM. The PCM utilizes these programs to run diagnostic tests, and to monitor operation of the vehicle's emissions-related components or systems to ensure they are operating correctly and within the vehicle's manufacturer specifications.

Enabling Criteria - Also termed Enabling Conditions. They are the vehicle- specific events or conditions that must occur within the engine before the various monitors will set, or run. Some monitors require the vehicle to follow a prescribed "drive cycle" routine as part of the enabling criteria. Drive cycles vary among vehicles and for each monitor in any particular vehicle. Please refer to the vehicle's factory service manual for specific enabling procedures.

Drive Cycle - A specific mode of vehicle operation that provides conditions required to set all the readiness monitors applicable to the vehicle to the "ready" condition. The purpose of completing an OBD II drive cycle is to force the vehicle to run its onboard diagnostics. Some form of a drive cycle needs to be performed after DTCs have been erased from the PCM's memory or after the battery has been disconnected. Running through a vehicle's complete drive cycle will "set" the readiness monitors so that future faults can be detected. Drive cycles vary depending on the vehicle and the monitor that needs to be reset. For vehicle specific drive cycle, consult the service manual.

FT - Fuel Trim. Feedback adjustments to the base fuel schedule. Short-term fuel trim refers to dynamic or instantaneous adjustments. Long-term fuel trim refers to much more gradual adjustments to the fuel calibration schedule than short-term trim adjustments. These long-term adjustments compensate for vehicle differences and gradual changes that occur over time.

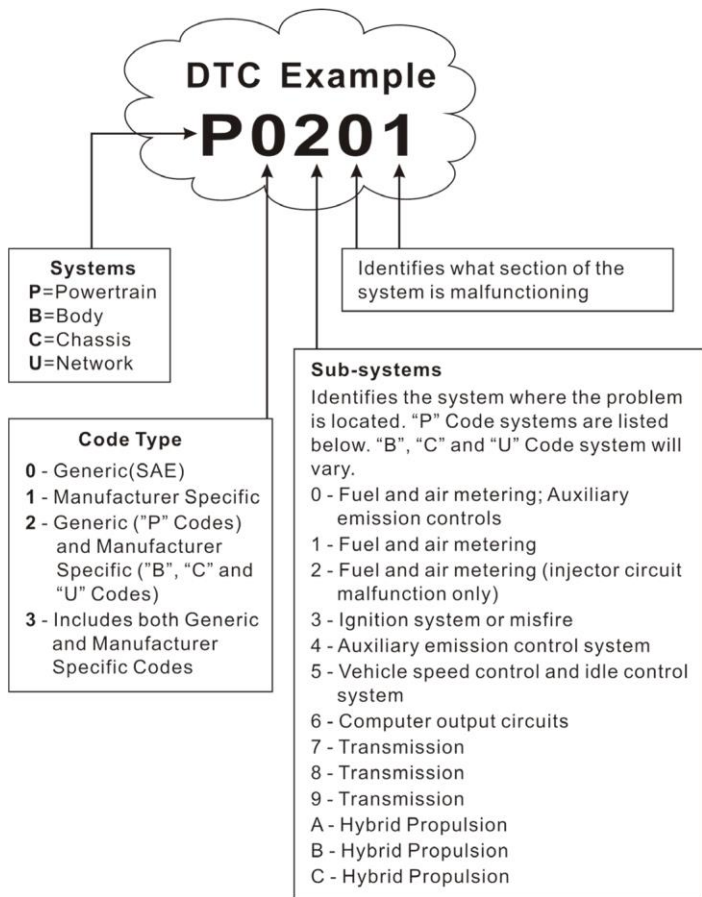
1.4 Diagnostic Trouble Codes (DTCs)

A DTC is a five digit alphanumeric identifier for a fault condition identified by the OBD II system. There are three types of DTCs:

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1. **Pending** – when a fault condition is identified during a Drive Cycle, but does not meet enough criteria to activate the MIL.
2. **Stored** - A DTC is stored when a fault condition has occurred that meets enough criteria to activate the MIL.
3. **Permanent** - A stored DTC that can only be cleared by the OBD II system, after repairs are made, and a set number of Driving Cycles have been completed.

The first character, a letter, identifies which control system sets the code. The second character, a number, 0-3; other three characters, a hex character, 0-9 or A-F provide additional information on where the DTC originated and the operating conditions that caused it to set. Here below is an example to illustrate the structure of the digits:



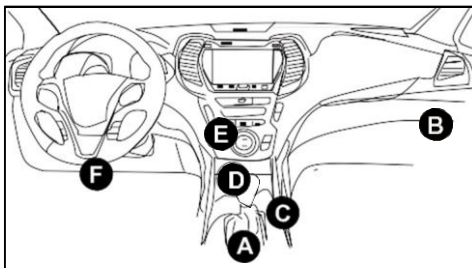
P0201 - Injector circuit malfunction, Cylinder 1

1.5 Location of the Data Link Connector (DLC)

The DLC is typically a 16-pin connector where diagnostic code readers interface with the vehicle's on-board computer. It is usually located 12 inches from the center of the instrument panel, under or around the driver's side for most vehicles. For some vehicles with special designs,

the DLC location may vary.

Refer to the following figure for location.



A - Opel, Volkswagen, Audi

B – Honda

C – Volkswagen

D - Opel, Volkswagen, Citroen

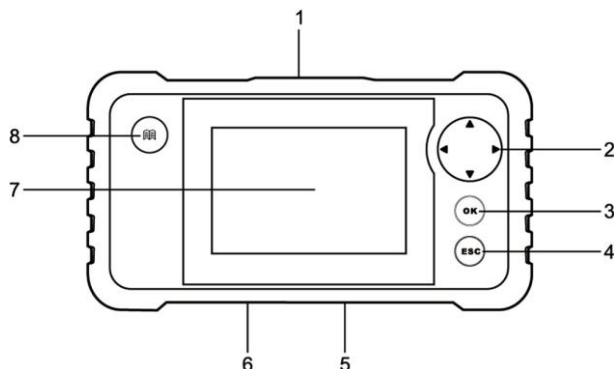
E - Changan

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

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

2 Product Descriptions

2.1 Components & Controls



1. DB-15 diagnostic connector

Connect the tool to vehicle's DLC by using the diagnostic cable.

2. Selection buttons



Move cursor up and down for selection.



Move cursor left or right for selection; Or turn page up and down when more than one page is displayed.

3. OK button

Confirm a selection (or an action) from a menu list.

4. ESC button

Exit the current program or return to the previous screen.

5. Power-up port

Connect to the USB type-C cable only for powering up and turning on the tool.

6. Memory card slot

Store the memory card.

7. LCD screen

Indicate test results.

8. DTC lookup button

Retrieve the DTCs in the database.

2.2 Technical Specifications

- Screen: 4.0" TFT LCD display
- OBDII input voltage range: 9~18V
- USB type-C cable: DC 5V 0.5A
- Net weight: <450g
- Operating temperature: 0 to 50°C (32 to 122°F)
- Storage temperature: -20 to 70°C (-4 to 158°F)

Note: The operating temperature refers to the temperature at which the device works normally in non-charging status.

2.3 Packing List

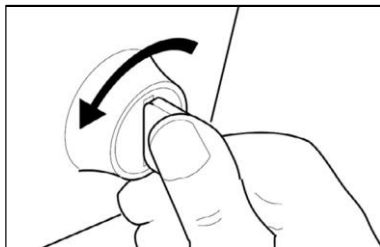
The following packing list is for reference only. For different destinations, the accessories may vary. For details, consult your local dealer or check the packing list supplied with the tool.

1. Diagnostic tool x 1
2. Diagnostic cable x 1
3. Memory card x 1
4. USB type-C cable x 1
5. Quick start guide x 1
6. User manual x 1
7. GPSR safety warning x 1

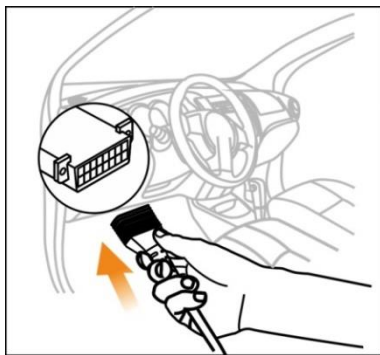
3 Initial Use

3.1 Connection

- 1). Make sure that the ignition is turned off and the vehicle battery is 9-18V.



- 2). Locate the vehicle's 16-pin Data Link Connector (DLC). Refer to Chapter 1.5.
- 3). Plug one end of the diagnostic cable into the vehicle's DLC port, and the other end to the DB-15 diagnostic connector of the tool, and then tighten the captive screws.



Notes:

- A plastic DLC cover may be found for some vehicles and you need to remove it before plugging the diagnostic cable.
- The cable connector is keyed and will only fit one way. If you have problems connecting the cable connector to the DLC, rotate the connector 180° and try again.

- 4). Turn the ignition on. The engine can be off or running.
- 5). Then the system starts initializing. After initialization, the system will enter the main menu screen.

Caution: Don't connect or disconnect any test equipment with the ignition on or engine running.

3.2 Settings

This option allows you to make some system settings of the tool.

Select [Settings] in the main menu and press the [OK] button, the system will enter the following screen:

Tool Setup
Language
Unit of Measure
Beeper
Record Mode
1/4

1). Language

This option enables you to set the language of the system.

Note: Due to continuous software upgrade, the supported language may differ from different software versions.

2). Unit of Measure

This option allows you to set the measurement unit.

3). Beeper

It is used to set the buzzer on or off.

4). Record Mode

It is used to turn on or off the recording function. All recorded files are saved under "Diagnose" -> "Review".

4 Diagnostics

4.1 OBDII/EOBD Diagnostics

This option presents a quick way to check for DTCs, isolate the cause of the illuminated Malfunction Indicator Lamp (MIL), check monitor status prior to emissions certification testing, verify repairs, and perform a number of other services that are emission-related.

After the tool is properly connected to the vehicle's DLC, select [OBDII/EOBD] on the Diagnose screen and press the [OK] button. The tool will automatically start a check of the vehicle's computer to determine which type of communication protocol it is using. When the tool identifies the computer's communication protocol, a communication link is established and then the screen will display the Monitor Status.

Monitor Status	
MIL Status	OFF
DTCs in this ECU	108
Readiness Completed	5
Readiness Not Completed	2
Readiness Not Supported	3
Datastream Supported	119
Ignition	Spark
OK - Confirm	

Press [OK] to enter the diagnostic function selection screen.

Diagnostic Menu
Read Codes
Erase Codes
I/M Readiness
Data Stream
Freeze Frame
O2 Sensor Test
On-Board Monitoring
1/9

It mainly includes the following functions:

1. Read Codes

This function can identify which section of the emission control system has malfunctioned.

2. Erase Codes

This function erases the codes from the vehicle, after retrieving codes from the vehicle and certain repairs have been carried out.

Make sure the vehicle's ignition key is in the ON position with the engine off before the operation.

3. I/M Readiness

This function checks whether or not the various emissions-related systems on the vehicle are operating properly, and are ready for Inspection and Maintenance testing.

It can also be used to check the Monitor Run Status, and to confirm if the repair of a car fault has been performed correctly.

4. Data Stream

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

5. View Freeze Frame

This function takes the snapshot of the operating conditions when an emission-related fault occurs.

Note: If DTCs were erased, Freeze Data may not be stored in vehicle memory depending on vehicle's make, model and year.

6. O₂ Sensor Test

This function retrieves O₂ sensor monitor test results of the most recently completed tests from the vehicle's on-board computer.

7. On-board Monitoring

This function retrieves test results for emission-related powertrain components and systems that are not continuously monitored. The test's availability is determined by the vehicle manufacturer.

8. EVAP System Test

This function lets you initiate a leak test for the vehicle's EVAP system. Refer to the vehicle's service manual to determine the procedures

necessary to stop the test.

9. Vehicle Info

This function retrieves a list of information (provided by the vehicle manufacturer) from the vehicle's on-board computer.

This information may include:

- **VIN** (Vehicle identification Number).
- **CID** (Calibration ID).
- **CVN** (Calibration Verification Number).

4.2 System Diagnostics (Scan)

This function is specially designed to diagnose electronic control system of single vehicle model.

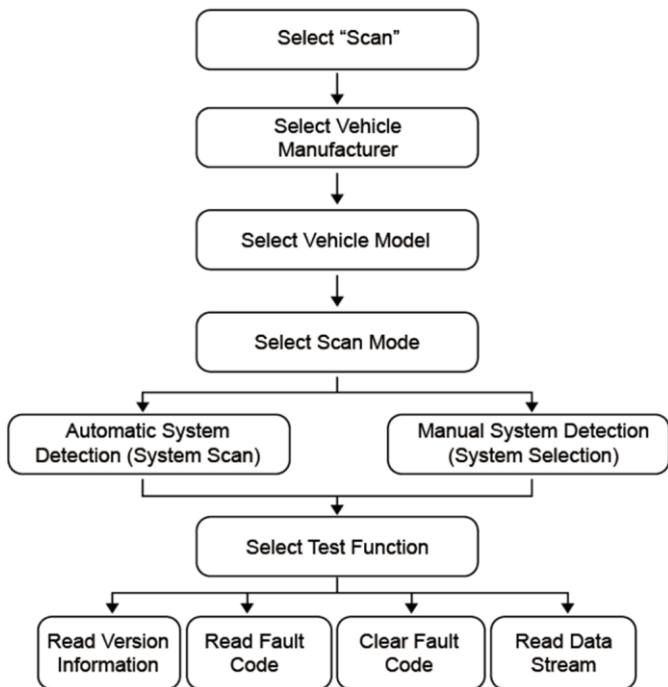
For Creader Professional 123 V3, only four vehicle systems with basic diagnostic functions are supported.

For Creader Professional 123 V3 PLUS, all vehicle systems with basic diagnostic functions are supported.

Notes:

- Before diagnosing, make sure the diagnostic program corresponding to certain vehicle model has been installed on your tool.
- For vehicles manufactured by different vendors, it may have different diagnostic menus. For details, please follow the instructions on the screen to proceed.

Refer to the flowchart illustrated as below to diagnose a vehicle:



4.3 Review

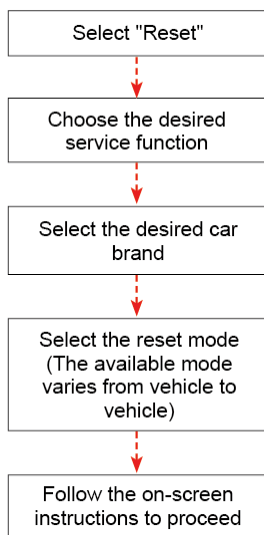
This function is used to review or delete the recorded DTC, Data Streams and Freeze Frame.

5 Reset

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

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

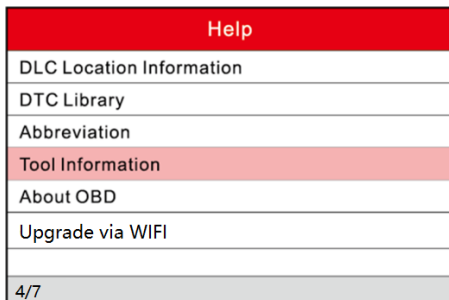
Follow the flowchart shown as below to perform resetting.



6 Help

This function allows you to get DLC location, retrieve detailed descriptions of certain DTC from the DTC library, view device information, OBD introduction and upgrade information, etc.

In main menu, select [Help] and press the [OK] button to enter the following screen.

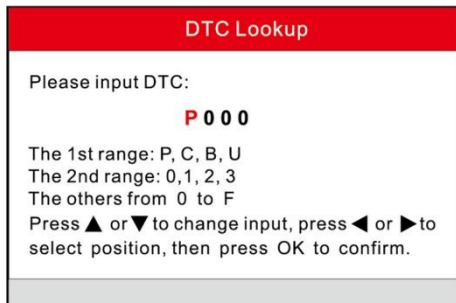


6.1 DLC Location Information

This option helps you to find the location of the vehicle's DLC.

6.2 DTC Library

This function helps you to get the details of the DTC, which will greatly help simplify the diagnostic process.



Press the [Left] or [Right] button to move the highlight bar to different position. Press the [Up] or [Down] button to alter the value. Then press the [OK] button, and the screen will display the definition of the DTC.

6.3 Abbreviation

This option allows you to view the full name and detailed explanation of the automotive glossary abbreviations.

6.4 Tool Information

This option allows you to view the hardware and product information of the tool.

Note: It is strongly recommended to write down the Serial Number and Register Code shown in the tool information since the two items are required while you register your tool.

6.5 About OBD

This option allows you to have a general knowledge of OBD.

6.6 Upgrade via WIFI

You can upgrade the diagnostic software via WIFI in this module.

6.7 Service Information

This option offers you the email information for technical support.

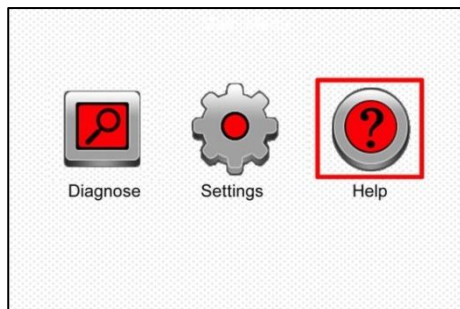
7 Software Update

Software update is required if you encounter the following problems:

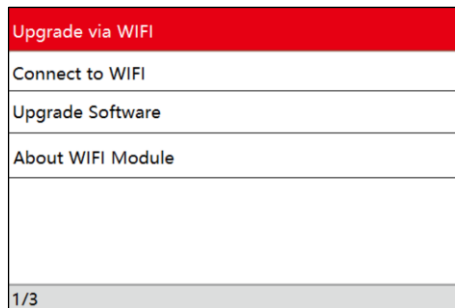
1. The tool fails to work on your vehicle.
2. It is slow to load all menus.
3. You need the latest software version.

The tool can be updated only via WIFI. Follow the steps below to update the software:

1. Connect the tool to the computer via the supplied USB type-C cable.
2. After the tool is powered on, move the cursor to [Help] and press the [OK] button.



3. Select [Upgrade via WIFI], and press the [OK] button to enter the software upgrade screen.



4. Select [Connect to WIFI], press the [OK] button, and the tool starts searching for all available WIFI hotspots. Choose the desired WIFI hotspot to connect to the network.
 - If the selected network is open, you can connect it directly.
 - If the selected network is encrypted, you have to enter the right security key (network password).
5. After the network is successfully connected, select [Upgrade software] on the software upgrade screen, and press the [OK] button to show a list of upgrade software.

Notes:

- Software update requires a stable network connection.
 - You can enter the [About WIFI module] screen to view the connected WIFI hotspot and the current WIFI module version.
6. Select the target software, and press the [DTC lookup] button to start upgrading the software.
 7. Wait until the software upgrade is complete. The upgrade progress will be displayed on the screen.

8 FAQ

Here are some frequently asked questions and answers relating to the tool.

1. Question: System halts when reading data stream. What is the reason?

Answer: It may be caused by a slackened connector. Please turn off the tool, firmly connect the connector, and switch it on again.

2. Question: Why the downloaded installation package is .RAR file instead of executable file like some other devices?

Answer: Click to open the compressed file and click the program inside to follow the steps to install it, you can get the upgrade tool available.

3. Question: The installed software does not work?

Answer: If there is a bug in your software during operation, please uninstall the original program and reinstall it.

4. Question: Screen of the main unit flashes at engine ignition start.

Answer: Caused by electromagnetic disturbing, and this is normal phenomenon.

5. Question: There is no response when communicating with on-board computer.

Answer: Please confirm the proper voltage of power supply and check if the throttle has been closed, the transmission is in the neutral position, and the water is in proper temperature.

6. Question: Why are there so many fault codes?

Answer: Usually, it's caused by poor connection or fault circuit grounding.

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 (12 months) 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.

Order Information

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

1. Quantity
2. Part number
3. Item description

Customer Service

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

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

Tel: +86 755 8455 7891

Email: overseas.service@cnlaunch.com

To resolve your problems quickly and efficiently, clearly indicate the **Serial Number** of your product when giving issue feedback.