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Safety Precautions and Warnings

To prevent personal injury or damage to vehicles and/or the tool, 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.
- Caution: This tool contains an internal Lithium Polymer battery. The

battery can burst or explode, releasing hazardous chemicals. To reduce the risk of fire or burns, do not disassemble, crush, pierce or dispose of the battery in fire or water.

- 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.
- Never leave the device unattended during charging process. The device must be placed on a non-flammable surface during charging.
- 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 on a clean cloth to clean the enclosure of the device 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 the 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/electrical fires nearby.
- Don't connect or disconnect any test equipment while the ignition is on or the engine is running.

Compliance Information

FCC ID: XUJCRP123XV3

IC: 29886-C123XV3

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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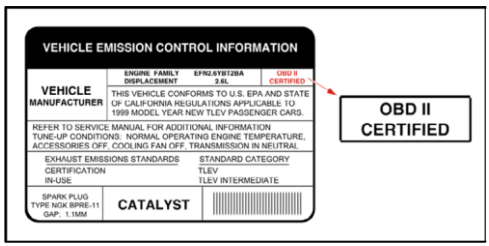
1 Overview

1.1 Vehicle Coverage

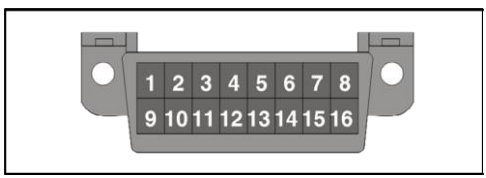
This diagnostic tool is specially designed to work with all OBD II compliant vehicles, including Controller Area Network (CAN).

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 OBD II 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. Refer to the vehicle's factory service manual for specific enabling procedures.

Trip - A Trip for a particular Monitor requires that the vehicle is being driven in such a way that all the required "Enabling Criteria" for the Monitor to run and complete its diagnostic testing are met. The "Trip Drive Cycle" for a particular Monitor begins when the ignition key is turned "On." It is successfully completed when all the "Enabling Criteria" for the Monitor to run and complete its diagnostic testing are met by the time the ignition key is turned "Off." Since each of the fifteen monitors is designed to run diagnostics and testing on a different part of the engine or emissions system, the "Trip Drive Cycle" needed for each individual Monitor to run and complete varies.

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.

*Note: Do not confuse a "Trip" Drive Cycle with an OBD II Drive Cycle. A "Trip" Drive Cycle provides the "Enabling Criteria" for one specific Monitor to run and complete its diagnostic testing. An OBD II Drive Cycle must meet the "Enabling Criteria" for all Monitors on a particular vehicle to run and complete their diagnostic testing.

Warm-up Cycle - Vehicle operation after an engine off period where engine temperature rises at least 40°F (22°C) from its temperature before starting, and reaches at least 160°F (70°C). The PCM uses warm-up cycles as a counter to automatically erase a specific code and related data from its memory. When no faults related to the original problem are detected within a specified number of warm-up cycles, the code is erased automatically.

Fuel Trim (FT) - 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)

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.

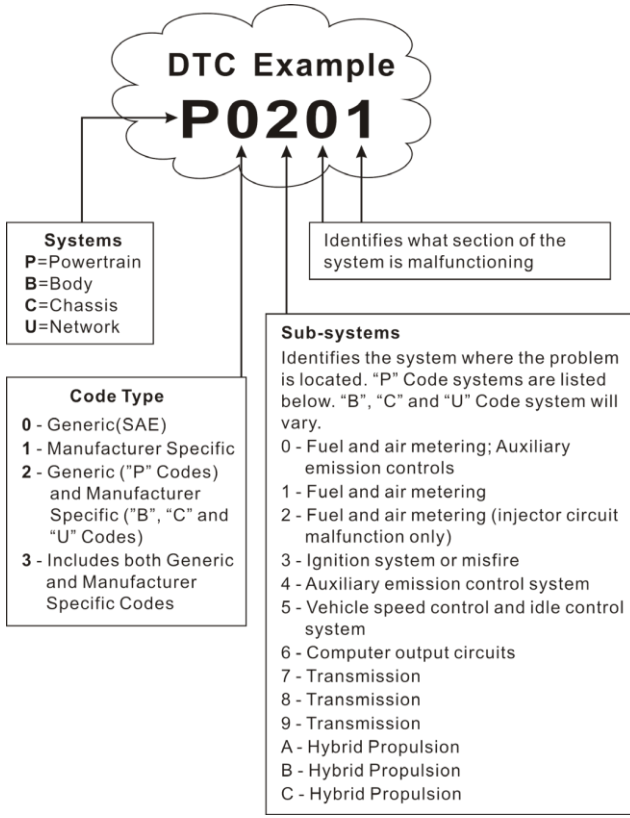
- The 1st character is a **letter** (B, C, P or U). It identifies the **main system** where the fault occurred (Body, Chassis, Powertrain, or Network).
- The 2nd character is a **numeric digit** (0 thru 3). It identifies the **type** of code (Generic or Manufacturer-Specific).

*Note: 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.

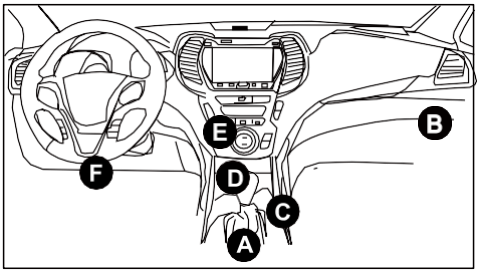


P0201 - Injector circuit malfunction, Cylinder 1

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

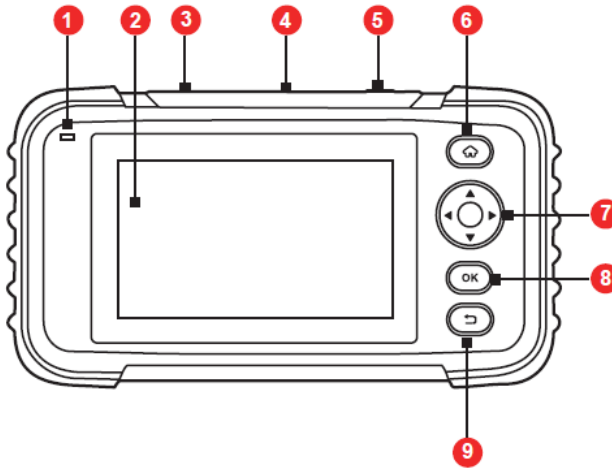
E- Changan

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. Charging LED

Red means Charging and Green means Fully Charged.

2. LCD

Indicate test results.

3. USB Type-C port

Connect to the charging cable to charge the tool.

4. DB-15 Diagnostic Connector

Connect the tool to the vehicle's DLC.

5. Power Button

Turn on or off the tool.

6. HOME Button

Navigate to the Job Menu screen.

7. 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.

8. OK Button

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

9. Return Button

Exit the current program or return to the previous screen.

2.2 Technical Specifications

- Screen: 5” touch screen
- RAM: 2 GB
- Storage: 32 GB
- OBDII input voltage range: 9~18V
- Charging via:
  - DC 5V 2A charging cable, or
  - Diagnostic cable through connection to vehicle’s DLC
- Dimensions: 228 mm x 125 mm x 34 mm
- Operating temperature: 0°C to 50°C (32°F to 122°F)
- Storage temperature: -20°C to 70°C (-4°F to 158°F)
- Charging temperature: 0°C to 40°C (32°F to 104°F)

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

2.3 Packing List

The following packing list is for reference only. For details, consult the seller or check the packing list supplied with this tool together.

1. Diagnostic tool x 1
2. OBD II diagnostic cable x 1
3. Charging cable x 1
4. User manual x 1
5. Carrying bag x 1

3 Initial Use

3.1 Charging the Tool

There are two charging methods available:

Via Charging Cable: Plug one end of the included charging cable into the Type-C port of the tool, and the other end to the external power supply device.

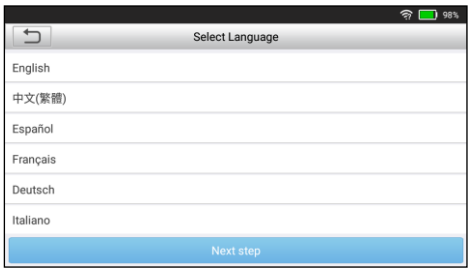
Via Diagnostic Cable: Insert one end of the diagnostic cable into the DB-15 connector of the tool, and the other end to the vehicle's DLC.

Once the charging LED illuminates solid green, it indicates that the battery is fully charged.

3.2 Getting Started

If it is the first time you have used this tool, you need to make some system settings.

1. Press the power button to power it on.
2. The screen displays a welcome page. Tap **Start** to go to next step.
3. Choose the desired system language, and tap **Next step**.



4. Choose the desired time zone, and tap **Next step** to enter the WLAN setup screen.
5. Slide the switch to ON, the system starts searching for all available wireless LANs. Choose the desired WLAN access point / 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).

6. After the network connection is done, tap **Next step** to configure workshop information. Input the required information, and tap **Next step** to go to next step.

   *Note: After you configured it, the system will append it on the report every time a report is successfully generated.

7. Carefully read all terms and conditions of the user agreement, check the box before the **Agree to all the above terms**, and tap **OK** to finish the sign-up process and navigate to Job Menu.

3.3 Job Menu

The main menu screen includes the following function modules:

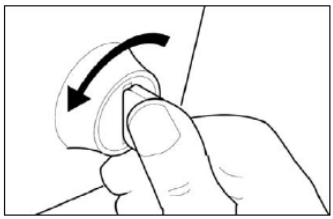
Local Diagnose	Configure it as a professional diagnostic tool.
Service Function	Offer coding, reset, relearn and more service functions, to help vehicles get back to functional status after repair or replacement.
Other Modules	Include some add-on modules, which can extend the functionalities of the diagnostic tool.
Upgrade	Update vehicle diagnostic software and APK. *Note: This function requires a stable network connection.

Mall	To subscribe extra vehicle diagnostic software or reset software that is not included within the tool.
Know Your Customer	Assist repair shops in business analysis, customer management, diagnosis statistics and service ranking.
Mine	Check saved reports, order information and make some system settings.
Toolbox	Some practical add-on modules are available, including battery voltage, diagnostic software clear, firmware fix, DTC library, diagnostic record, DLC lookup, feedback, image, user manual, etc.
More	Include Online support and LAUNCH Academy.

4 Diagnose

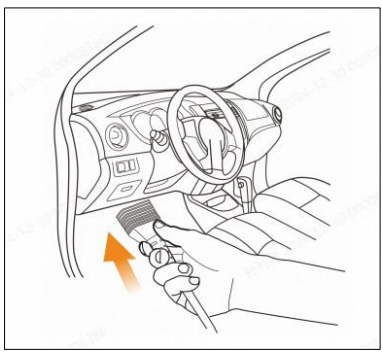
4.1 Connection

1). Turn the ignition off.



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. Engine can be off or running.

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

5). Press the power button for several seconds to turn the tool on and enter the Job Menu.

4.2 System Diagnostics

This function is specially designed to diagnose electronic control systems of single vehicle model. Supported vehicle systems and diagnostic functions vary depending on product configurations.

4.2.1 Smart Diagnosis (Auto-Detect)

This function allows you to quickly access the electronic control systems of the vehicle via decoding the VIN, without manual step-by-step menu selection.

Tap **Mine -> Settings** to set the **Automatic detection on connect** to On. After connection, turn the ignition key on and the system enters auto-detect mode.

Alternatively, you can also tap **Local Diagnose -> AutoDetect** to start the smart diagnosis manually if the **Automatic detection on connect** is Off.

*Notes:

- A highly stable and solid network connection is recommended for successful VIN access.
- If the automatic detection cannot identify the vehicle, try to connect to the network. Not all cars support the Auto-Detect function due to auto manufacturers' settings.

A. Once the system successfully obtains the VIN (Vehicle Identification Number) information of the currently identified vehicle, confirm the VIN information and tap **OK** to start diagnosing all available systems. After the diagnosis is completed, a diagnostic report will be automatically generated.

B. If the tool failed to access the VIN information, the following screen will appear:



Input the VIN, and tap **OK**, the system will decode the VIN data automatically, and continue the Smart Diagnosis procedure if success. Otherwise, the system will enter the Manual Diagnosis mode.

*Notes:

- 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.
- 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.

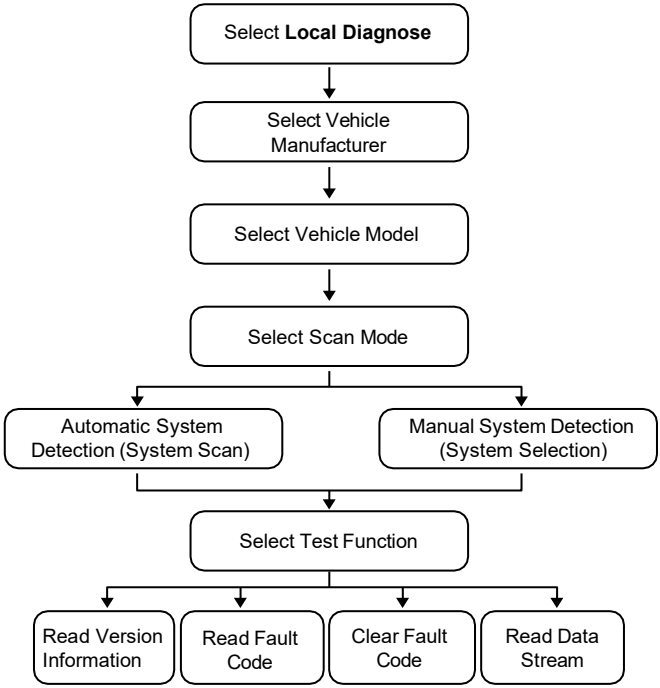
4.2.2 Manual Diagnosis

If the tool cannot obtain or analyze the VIN information, you can also perform vehicle diagnosis manually. In this mode, you need to execute the menu-driven command and then follow the on-screen instruction to proceed.

*Notes:

- Before diagnosing, make sure the corresponding vehicle manufacturer software has been installed in your tool.
- The diagnostic menu may vary by the vehicle's make, model and year.

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



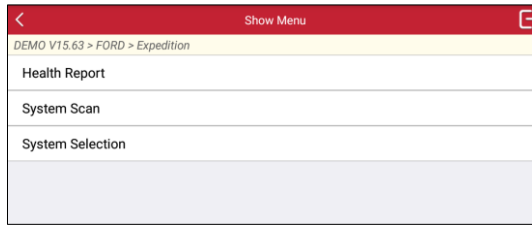
Take DEMO as an example to demonstrate how to diagnose a vehicle.

*Note: Illustrations used in this manual are samples, the actual testing screen may vary for each vehicle being tested. The following illustrations are based on the DEMO with basic functions. Vehicle diagnostic software with full systems and full functions can be purchased in the Mall.

1). Select diagnostic software version: Tap “DEMO” to go to Step 2.

2). Select vehicle model (varies with different versions): Select the desired vehicle model.

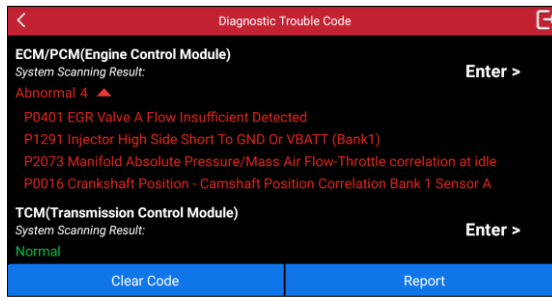
3). Select test item: Select the desired test item to proceed.



4.2.2.1 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.

Tap **Health Report** on the test item selection screen, the system starts scanning the ECUs. Once the scanning is complete, the following screen will appear:



In above figure, the tested system with fault code appears in red and the normally working system is displayed **Normal** in green.

On-Screen Buttons:

Enter: Tap to select other test functions. For detailed operations, refer to Chapter **4.2.2.3 System Selection**.

Report: Tap to save the diagnostic result as a diagnostic report. All diagnostic reports can be accessed from **Mine -> My Report**.

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

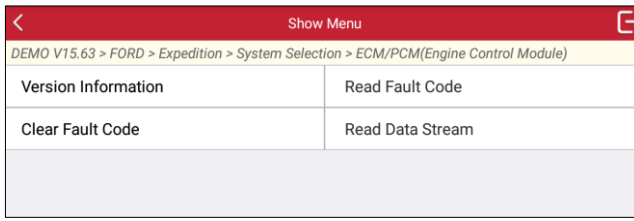
4.2.2.2 System Scan

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

4.2.2.3 System Selection

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

Tap **System Selection** on the test item selection screen, and tap the desired system (take Engine System for example) to enter the test function selection screen.



*Note: Different vehicle may have 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.

Tap **Read Fault Code** on the test function selection screen; the screen will display the diagnostic result.

*Note: 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-Screen Buttons:

Help: Tap to view the help information.

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

Report: To save the current data in text format. All diagnostic reports can be accessed from **Mine -> 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, make sure the vehicle's ignition key is in the ON position with the engine off.

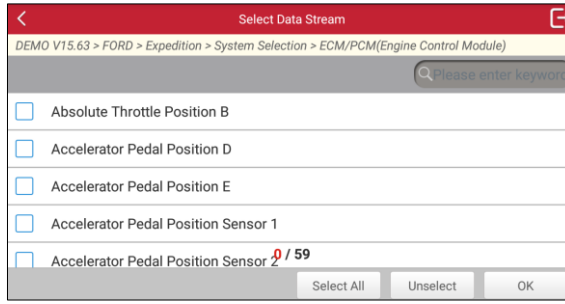
*Notes:

- If you plan to take the vehicle to a Service Center for repair, DO NOT erase the codes from the vehicle's computer. If data is erased, valuable information that might help the technician troubleshoot the problem will also be erased.
- 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.

D. Read Data Stream

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

Tap **Read Data Stream** on the test function selection screen; the system will display data stream items.



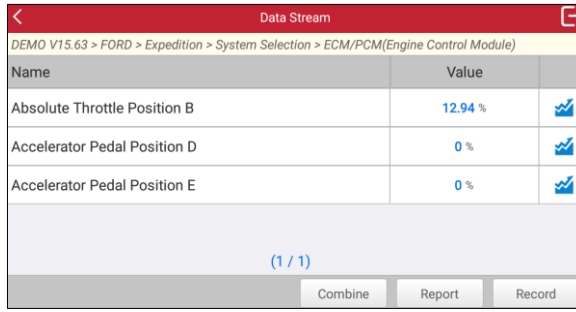
On-Screen Buttons:

Select All: Tap it to select all items of the current page. 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 **OK** to enter the data stream reading page.



*Notes:

- 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).
- The indicator 1/X shown on the bottom of the screen stands for the current page / total

page number. Swipe the screen from the right / left to advance /return to the next / previous page.

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

- Value – Displays the parameters with numbers and lists.
- Graph – Displays the parameters with wave patterns.
- Combine – The graphs can be merged for easier comparisons.

On-Screen Buttons:

: Tap it to view the waveform graph of the current data stream item.

Combine: Tap to merge values in waveforms for easier comparisons. Maximus 8 data stream items can be selected at the same time.

Report: Tap to save the current data as a diagnostic report. All diagnostic reports can be accessed from **Mine -> My Report**.

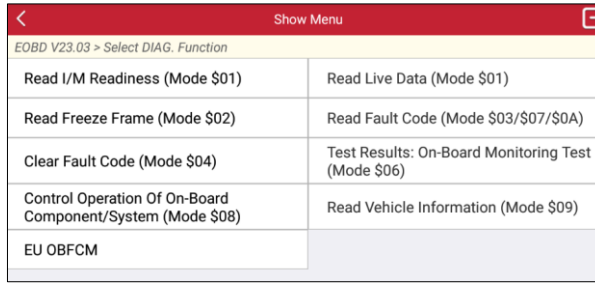
Record: Tap to record and save the Live Data as valuable information to help troubleshoot and diagnose. All diagnostic records can be accessed from **Toolbox -> Diagnostic Record**.

4.3 OBDII 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, tap **OBD II** on the **Local Diagnose** screen. 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.

Tap **OK**, the following function list appears.



1. Read 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.

2. Read Live Data

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

3. Read Freeze Frame

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

4. Read Fault Code

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

5. Clear Fault Code

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.

6. Test Results: On-Board Monitoring Test

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.

7. Control Operation of On-Board Component/System

This function is used to access vehicle-specific subsystem and component tests. Available tests vary by vehicle manufacturer, year, and model.

8. Read Vehicle Information

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

This information may include: This information may include: Vehicle Identification Number (VIN), Calibration ID (CID) and Calibration Verification Number (CVN).

9. EU OBFCM

The On-Board Fuel Consumption Monitoring (OBFCM) data, which collects fuel and energy consumption data of the vehicle to check whether the CO_2 emissions and fuel or energy consumption comply with EU regulations.

4.4 I/M

This function provides a quick access to the I/M Readiness diagnostics.

4.5 History

Generally, once a vehicle diagnosis is performed, the tool will record every detail of the diagnostic session. The **History** function provides direct access to the previously tested vehicles. You can resume from the last operation rather than starting a new test.

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

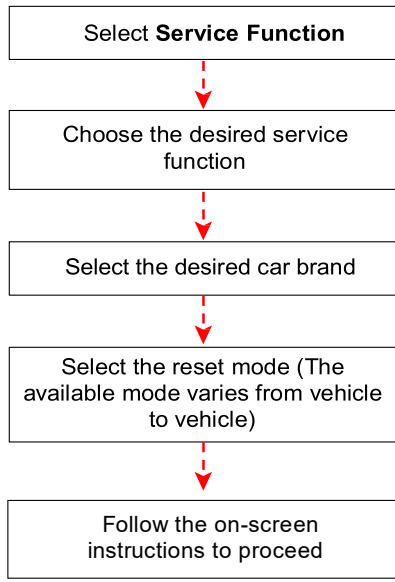
5 Service Function

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

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

There are two methods to perform resetting operations: 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.

Follow the flowchart shown as below to perform resetting.



6 Toolbox

6.1 Battery Voltage

This option can measure the current voltage of the vehicle's battery.

6.2 Diagnostic Software Clear

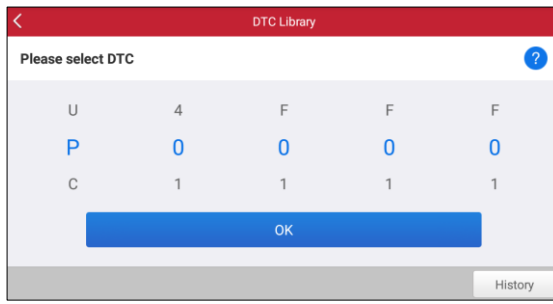
This item allows you to delete the diagnostic software that is not frequently used.

6.3 Firmware Fix

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

6.4 DTC Library

This option allows you to retrieve the detailed descriptions of certain DTC from the DTC database.



Swipe the screen upwards/downwards to alter the value, then press **OK** button, the screen will display definition of the DTC.

6.5 Diagnostic Record

This module stores the running parameters or waveform graphs the user records.

Tap **Diagnostic Record** to enter and select the desired data stream items and

tap **OK** to jump to the playback page.

On-screen Buttons:

Graph – Displays the parameters in waveform graphs.

Combine – Merge graphs for data comparison. Items are marked in different colors.

Value (default) – Displays the parameters as texts in a list format.

Auto Playback – Automatic playback of the selected data stream items. When in Auto Playback mode, this bar will change to **Auto Playback**.

6.6 DLC

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

6.7 Feedback

This module allows you to send the feedback of your diagnostic problems to us for further analysis and troubleshooting.

6.8 FAQ

This module lists some frequently asked questions and answers related to this tool.

6.9 Image

This module allows you to manage or share the screenshots.

6.10 Product Manual

A detailed operation manual is integrated in the tool for quick reference.

7 Upgrade

If some new software or APK can be updated, a numeric indicator will display on the **Upgrade** module on the Job menu. In this case, you may use this option to keep it synchronized with the latest version.

Notes:

- To enjoy more functions and better service, you are strongly suggested to update it on regular basis.
- This function requires a stable network connection.

Tap **Upgrade** on the Job menu to enter the update center.

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, 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.

The free subscription of the default software can be viewed on the device by checking the expiration date, and needs to be renewed after expiration. When the renewal prompt pops up, you can tap **Renew** and renew the configured software pack in the Mall. Without the Subscription, the new diagnostic software and new software version, excepting from the downloaded software, are restricted to download.

8 Mall

This function allows you to subscribe other vehicle diagnostic software and reset software that are not pre-installed on the tool.

All diagnostic software in the mall covers full systems and full functions (excluding online programming and coding, etc.). Different vehicle software is tagged with different price.

Tap **Mall** to open the online software mall. Select the target software and follow the on-screen instructions to finish the transaction

*Note: The software service belongs to the virtual goods. It becomes immediately effective from the date of the successful transaction and it does not accept the refund. When making payment, double check the order information.

The subscribed software can be free to use for one year. After it expires, it will become disabled and user needs to renew the subscription to activate it.

9 Mine

9.1 My Report

This option allows you to check and manage your saved reports.

All the diagnostic reports are sorted by Date and Make. If there are too many reports stored, tap search icon to filter and quickly locate it.

9.2 My Order

This option allows you to check order information.

9.3 Settings

This module allows you to make some system settings to your preference.

9.3.1 Units of measurement

This option can set the measurement unit. Metric System and English System are available.

9.3.2 Screen capture

This option can set the Screen Capture icon to be shown or not on the screen. When set as ON, a screenshot icon will float on upper right corner of the screen. Tap it to capture the screen.

9.3.3 Automatic detection on connect

This option enables you to determine whether to start an automatic VIN detection once the tool is properly connected to the vehicle's DLC.

9.3.4 Display/Brightness

This option allows you to set the standby time and screen brightness.

*Note: Reducing the brightness of the screen is helpful to conserve the power of the handset.

9.3.5 Sound

This option lets you adjust the volume and other sound settings.

9.3.6 Network

The built-in WLAN module allows you to register the tool, update diagnostic software & APK, and send email on a wireless network.

9.3.7 Time zone

This option allows you to set the time zone.

9.3.8 Language

The tool supports multiple languages. You can use this option to change the system language to the target language.

9.3.9 Workshop information

This option allows you to configure the workshop information.

*Note: After you configured it, the system will append it on the report every time a report is successfully generated.

9.3.10 Recovery

This option can reset this tool to the default factory setting.

Warning: Resetting may cause data loss. Be careful to perform this operation.

9.3.11 Clean up

This option allows you to clear some cache files and free up the storage space.

9.3.12 About

This option displays the hardware configuration information of the tool and license agreement.

10 Other Modules

It includes some add-on modules, which can extend the functionalities of the diagnostic tool. For now, only BTS test is available. This module allows you to fix battery detection faster and easier. It needs to work with the specific Bluetooth battery tester (sold separately).

Due to continuing improvements, the available add-on modules are subject to change at any time. To enjoy more functions, it is suggested to check for updates on a regular basis.

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 andworkmanship 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 incidentaldamages.

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, contact the seller, or contact LAUNCH TECH Service Center:

Website: https://en.cnlaunch.com

Phone: +86 755 8455 7891

Email: overseas.service@cnlaunch.com