

General Notice

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- There is a possibility that this unit is inapplicable to some of the vehicle models or systems listed in the diagnosis section due to different countries, areas, and/or years. Do not hesitate to contact LAUNCH if you come across such questions. We are to help you solve the problem as soon as possible.

Disclaimer

- To take full advantage of the unit, you should be familiar with the engine.
- All information, illustrations, and specifications contained in this manual are based on the latest information available at the time of publication. The right is reserved to make change at any time without notice.
- Neither LAUNCH nor its affiliates shall be liable to the purchaser of this unit or third parties for damages, losses, costs or expenses incurred by purchaser or third parties as a result of: accident, misuse, or abuse of this unit, or unauthorized modifications, repairs, or alterations to this unit, or failure to strictly comply with LAUNCH operating and maintenance instructions.
- LAUNCH shall not be liable for any damages or problems arising from the use of any options or any consumable products other than those designated as Original LAUNCH Products or LAUNCH Approved Products by LAUNCH.

Safety Precautions and Warnings

To prevent personal injury or damage to vehicles and/or the CRP123, please read this user's manual first carefully and observe the following safety precautions at a minimum whenever working on a vehicle:

- 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, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area: Exhaust gases are poisonous.
- Put blocks in front of 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.
- Keep the CRP123 dry, clean, free from oil/water or grease. Use a mild detergent on a clean cloth to clean the outside of the CRP123, when necessary.

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1. Introduction

The Creader Professional CRP123 is specially developed by LAUNCH, which supports all 10 modes of OBD II test for a complete diagnosis. Featuring the 3.5" TFT color display, it enables users to read/clear DTCs, record, save and playback data in live graphic display. The CRP123 is also very easy to use. With built-in help menus and code definitions, diagnosing and repairing that dreaded Check Engine Light is now easier than ever!

Moreover, CRP123 also features the following bi-directional "special tests": EVAP, O2 Sensor, I/M Readiness, MIL Status, VIN Info, and On-board monitors testing.

It can be connected to PC through the USB cable for upgrade to keep updated with the latest software version.

Notice: CRP123 may automatically reset while being disturbed by strong static electricity. THIS IS A NORMAL REACTION.

2. General Information

2.1 On-Board Diagnostics (OBD) II

The first generation of On-Board Diagnostics (called OBD I) was developed by the California Air Resources Board (ARB) and implemented in 1988 to monitor some of the emission control components on vehicles. As technology evolved and the desire to improve the On-Board Diagnostic system increased, a new generation of On-Board Diagnostic system was developed. This second generation of On-Board Diagnostic regulations is called "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. When a problem is detected, the OBD II system turns on a warning lamp (MIL) on the vehicle instrument panel to alert the driver typically by the phrase of "Check Engine" or "Service Engine Soon". The system will also store important information about the detected malfunction so that a technician can accurately find and fix the problem. Here below follow three pieces of such valuable information:

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

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

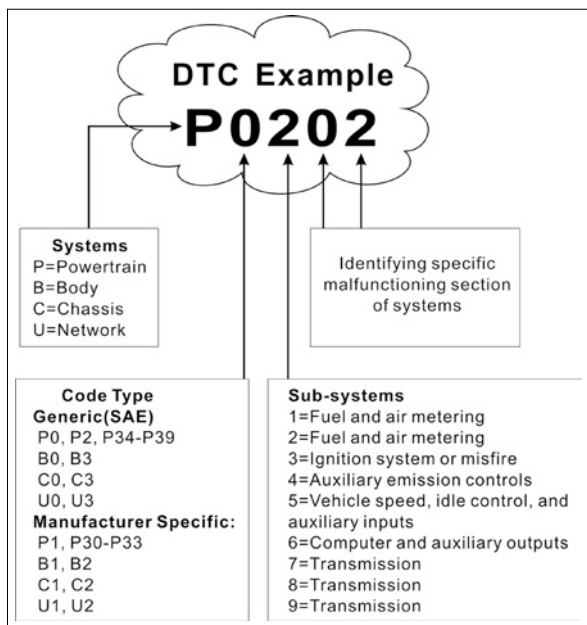


Figure 2-1

2.3 Location of the Data Link Connector (DLC)

The DLC (Data Link Connector or Diagnostic Link Connector) is the standardized 16-cavity 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.

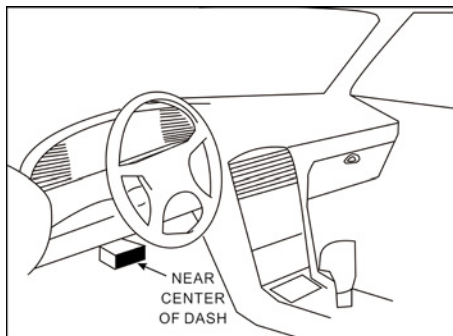


Figure 2-2

2.4 OBD II Readiness Monitors

An important part of a vehicle's OBD II system is the Readiness Monitors, which are indicators used to find out if all of the emissions components have been evaluated by the OBD II system. They are running periodic tests on specific systems and components to ensure that they are performing within allowable limits.

Currently, there are eleven OBD II Readiness Monitors (or I/M Monitors) defined by the U.S. Environmental Protection Agency (EPA). Not all monitors are supported in every vehicle and the exact number of monitors in any vehicle depends on the motor vehicle manufacturer's emissions control strategy.

Continuous Monitors -- Some of the vehicle components or systems are continuously tested by the vehicle's OBD II system, while others are tested only under specific vehicle operating conditions. The continuously monitored components listed below are always ready:

1. Misfire
2. Fuel System
3. Comprehensive Components (CCM)

Once the vehicle is running, the OBD II system is continuously checking the above components, monitoring key engine sensors, watching for engine misfire,

and monitoring fuel demands.

Non-Continuous Monitors -- Unlike the continuous monitors, many emissions and engine system components require the vehicle to be operated under specific conditions before the monitor is ready. These monitors are termed non-continuous monitors and are listed below:

- 1) EGR System
- 2) O2 Sensors
- 3) Catalyst
- 4) Evaporative System
- 5) O2 Sensor Heater
- 6) Secondary air Injection
- 7) Heated Catalyst
- 8) A/C system

2.5 OBD II Monitor Readiness Status

OBD II systems must indicate whether or not the vehicle's PCM's monitor system has completed testing on each component. Components that have been tested will be reported as "Ready", or "Complete", meaning they have been tested by the OBD II system. The purpose of recording readiness status is to allow inspectors to determine if the vehicle's OBD II system has tested all the components and/or systems.

The powertrain control module (PCM) sets a monitor to "Ready" or "Complete" after an appropriate drive cycle has been performed. The drive cycle that enables a monitor and sets readiness codes to "Ready" varies for each individual monitor. Once a monitor is set as "Ready" or "Complete", it will remain in this state. A number of factors, including erasing of diagnostic trouble codes (DTCs) with a code reader or a disconnected battery, can result in Readiness Monitors being set to "Not Ready". Since the three continuous monitors are constantly evaluating, they will be reported as "Ready" all of the time. If testing of a particular supported non-continuous monitor has not been completed, the monitor status will be reported as "Not Complete" or "Not Ready."

In order for the OBD monitor system to become ready, the vehicle should be driven under a variety of normal operating conditions. These operating conditions may include a mix of highway driving and stop and go, city type driving, and at least one overnight-off period. For specific information on getting your vehicle's OBD monitor system ready, please consult your vehicle owner's manual.

2.6 OBD II Definitions

Powertrain Control Module (PCM) -- OBD II terminology for the on-board

computer that controls engine and drive train.

Malfunction Indicator Light (MIL) -- Malfunction Indicator Light (Service Engine Soon, Check Engine) is a term used for the light on the instrument panel. It is to alert the driver and/or the repair technician that there is a problem with one or more of vehicle's systems and may cause emissions to exceed federal standards. If the MIL illuminates with a steady light, it indicates that a problem has been detected and the vehicle should be serviced as soon as possible. Under certain conditions, the dashboard light will blink or flash. This indicates a severe problem and flashing is intended to discourage vehicle operation. The vehicle onboard diagnostic system cannot turn the MIL off until the necessary repairs are completed or the condition no longer exists.

DTC -- Diagnostic Trouble Codes (DTC) that identifies which section of the emission control system has malfunctioned.

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.

OBD II 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.

Freeze Frame Data -- When an emissions related fault occurs, the OBD II system not only sets a code but also records a snapshot of the vehicle operating parameters to help in identifying the problem. This set of values is referred to as Freeze Frame Data and may include important engine parameters such as engine RPM, vehicle speed, air flow, engine load, fuel pressure, fuel trim value, engine coolant temperature, ignition timing advance, or closed loop status.

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.

3. Product Descriptions

3.1 Outline of CRP123



Figure 3-1

No.	Name	Descriptions
1	Power indicator	It will light up while CRP123 is energized.
2	Communication indicator	It will flash when CRP123 is communicating with ECU.
3	LCD	Indicates test results.

4		Move cursor up or down for selection.
		Move cursor left or right for selection; Or turn page up or down when more than one page is displayed.
		Confirms a selection (or action) from a menu list.
		Exit the current program or return to the previous screen.
		To retrieve the DTCs in the database.
5	USB port	To connect to PC to upload data or print test results.
6	TF card slot	Insert the TF card into it to read or write the data/file stored in TF card.
7	OBD-16 connector	To connect to vehicle's DLC(Data Link Connector) via diagnostic cable.

3.2 Specifications

- Screen: 3.5" TFT LCD display
- Working voltage: 8~18V
- Working current: <600mA
- Working temperature: -0 to 50°C (32 to 122 F°)
- Storage temperature: -20 to 70°C (-4 to 158 F°)
- Working humidity: 10%~90%
- Storage humidity: <80%

3.3 Accessories Included

1. User's Manual
2. TF card
3. TF card reader
4. USB cable

4. Connection

4.1 Preparation

1. Normal testing conditions

- Turn on the vehicle power supply.
- Vehicle battery voltage range should be 11-14V and working voltage of CRP123 is 12V.
- Throttle should be closed at its close position.
- Ignition timing and idle speed should be within specified range; water and transmission oil temperature are within normal working range (water temperature is 90-110°C and transmission oil temperature is 50-80°C).

2. Select testing connectors

If CRP123 is testing vehicles equipped with universal OBD II 16 PIN diagnostic socket, please use the included DBScar diagnostic connector. (For vehicles with non-OBD II 16 PIN diagnostic socket, a non-16 PIN connector is required.)

4.2 Install TF card

- 1) Take out the TF card from package box.
- 2) Insert the TF card into the CRP123 TF card slot perpendicularly. Make sure is fully inserted in the right place with the "micro" label facing upward.

Note: You can hear a clicking sound if you insert the TF card in the right place. Press the card slightly, it will be ejected automatically.

4.3 Connect CRP123

1. Turn the ignition off.
2. Locate vehicle's DLC socket: it provides standard 16 pins and is generally located on driver's side, about 12 inch away from the center of dashboard. See Figure 2-2. If DLC is not equipped under dashboard, an label indicating its position will be given. In case no DLC is found, please refer to Automobile Repair Manual.
3. Select the desired diagnostic adaptor according to your vehicle's DLC. Plug one end the diagnostic cable into the OBD II 16 pin connector of CRP123, and connect the other end to the vehicle's DLC.

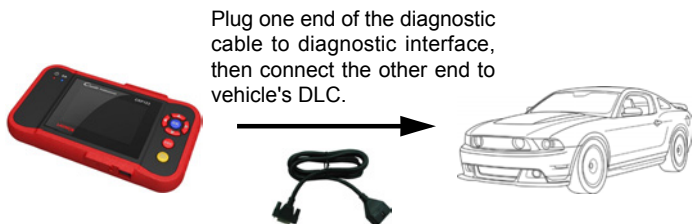


Figure 4-1

4. Turn the ignition on. Engine can be off or running.
5. After finishing, the system will start initializing. After initialization, the system will enter the main menu interface. See Figure 4-2 & Figure 4-3.

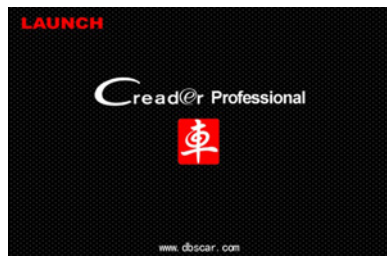


Figure 4-2



Figure 4-3

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

5. Diagnose

Select [Diagnose] in Main Menu and press **[OK]**, the screen will display Monitor Status interface as following figure 5-1:

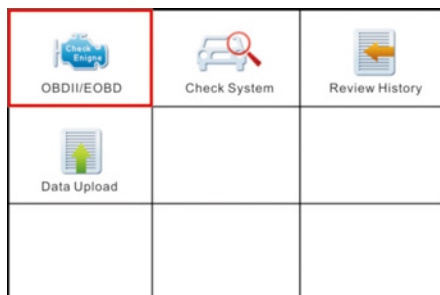


Figure 5-1

5.1 OBDII/EOBD Diagnosing

In Figure 5-1, press **[OK]** to enter system, the screen will display as following figure 5-2:

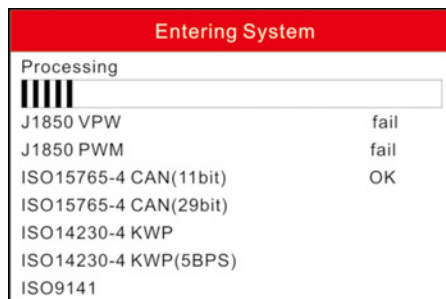


Figure 5-2

After entering, the screen will automatically enter the screen as shown in figure 5-3:

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	

Figure 5-3

Press [OK], a screen similar to Figure 5-4 will appear:

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

Figure 5-4

If it fails to enter the system, a prompt message box will appear:



Figure 5-5

Follow the on-screen instructions to check the possible cause and retry it.

5.1.1 Read Codes

Select [Read Codes] and press [OK]. A dialog box similar to Figure 5-6 will pop up:

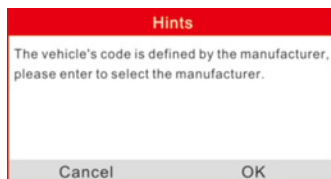


Figure 5-6

Press [OK] to enter to select the manufacturer. Figure 5-7 will be shown on the screen. Press [▼]/[▲] to select different items; press [▶]/[◀] to turn to next or previous page. After selecting the desired one, and then press [OK] to confirm.



Figure 5-7

If some DTCs are found, the system will enter a screen similar to figure 5-8 will appear:

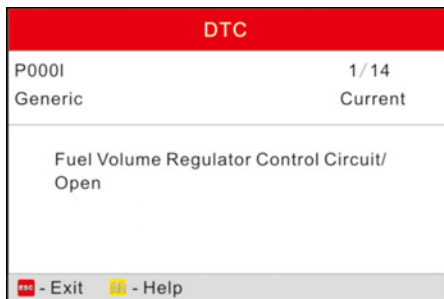


Figure 5-8

1/14 indicates there are 14 codes total and now P0001 is the first code to

display. The screen will also show the detailed description of the current DTC.

You can use  key to view the next code.

If the DTC can not be found, a screen similar to figure 5-9 will appear:

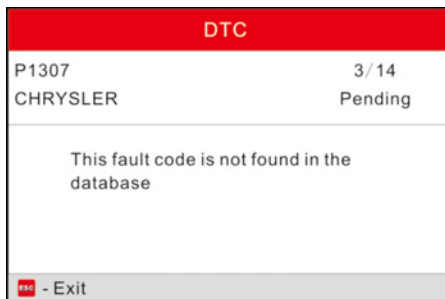


Figure 5-9

After viewing all the codes, press , a message box will appear on the box:

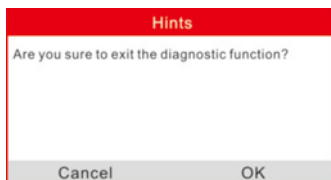


Figure 5-10

Press  to cancel; press  to exit diagnostic function.

5.1.2 Erase Codes

Select [Erase Codes], the screen will display the interface as shown below:

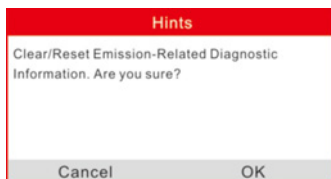


Figure 5-11

Press  to cancel; press  to erase DTC's, and the screen will display the

interface as shown in Figure 5-12:

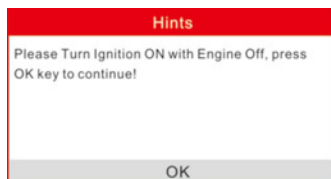


Figure 5-12

According to the above figure, press [OK] to clear the DTC. If successful, figure 5-13 will appear on the screen.

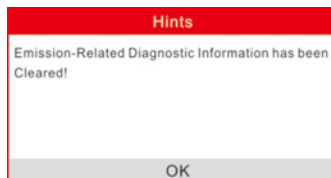


Figure 5-13

Notes:

- Before performing this function, make sure to retrieve and record the trouble codes.
- After clearing, you should retrieve trouble codes once more or turn ignition on and retrieve codes again. If there are still some trouble codes in the system, please troubleshoot the code using a factory diagnosis guide, then clear the code and recheck.

5.1.3 I/M Readiness

I/M refers to Inspection and Maintenance that is legislated by the Government to meet federal clean-air standards. I/M Readiness indicates whether or not the various emissions-related systems on the vehicle are operating properly and are ready for Inspection and Maintenance testing.

The purpose of the I/M Readiness Monitor Status is to indicate which of the vehicle's Monitors have run and completed their diagnosis and testing (as described in Chapter 2.5), and which ones have not yet run and completed testing and diagnosis of their designated sections of the vehicle's emissions system.

The I/M Readiness Monitor Status function also can be used (after repair of

a fault has been performed) to confirm that the repair has been performed correctly, and/or to check for Monitor Run Status.

Select [I/M Readiness] and press [OK], the screen will display the interface as shown below:

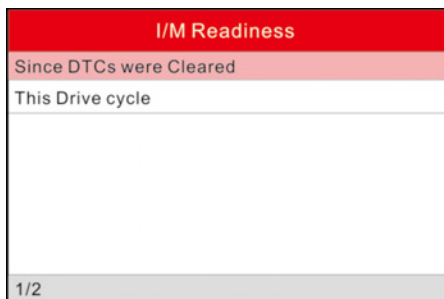


Figure 5-14

Press [▼]/[▲] to select and press [OK], the screen will display the interface as shown below:

I/M Readiness	
Misfire Monitor	N/A
Fuel system monitor	OK
Comprehensive component monitor	INC
Catalyst monitor	N/A
1~4/10	

Figure 5-15

Press [▶]/[◀] button to view other data of vehicle.

Press [ESC] to return to Diagnostic Menu.

N/A means not available on this vehicle; INC means incomplete or not ready and OK means Completed or Monitor Ok.

5.1.4 Data Stream

Press [▶]/[▲] button to select Data Stream in Main Menu interface and

then press [OK] button to confirm, the screen will display the interface as shown in figure 5-16:

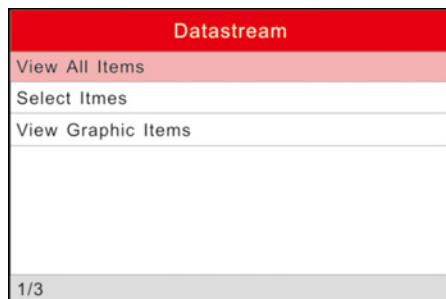


Figure 5-16

Select [View All Items] and press [OK] button, the screen will display the interface as shown below:

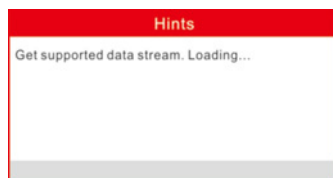


Figure 5-17

A screen similar to figure 5-18 will appear.

Datastream	
Fuel system 1 status	---
Fuel system 2 status	---
Calculated LOAD Value	52.9%
Engine Coolant Temperature	54°C
1~4/87	

Figure 5-18

Press [Left]/[Right] button to view other data streams.

Press [ESC] to return to Diagnostic Menu.

Select [Select Items] in Datastream menu and press [OK], the screen will display the interface as shown below:

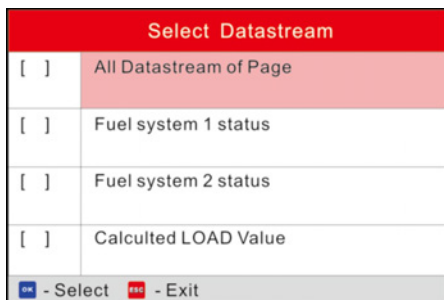


Figure 5-19

Press [▼]/[▲] button to select datastream items, and press [↔]/[↔] button to turn page.

After selecting items, press [OK], the screen will display the selected datastream items.

To select all datastream of the current page, highlight the first line and then press [OK], ✓ will appear before all items. To deselect all, just press [OK] again.

Press [ESC] to return to Diagnostic Menu.

If [View Graphic Items] is selected in Datastream menu and press [OK] to enter the graphic items selection screen.

Press [▼]/[▲] button to select single data stream items, and press [OK] button, the screen will display the selected items of live graphic data.

Press [ESC] to return to Diagnostic Menu.

5.1.5 View 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 Data is a snapshot of the operating conditions at the time of an emission-related fault.

Note: if DTCs were erased, Freeze Data may not be stored in vehicle memory depending on vehicle.

Select [Freeze Frame] in Diagnostic menu and press [OK], the screen will display the interface as shown below:

Freeze Frame	
DTC that caused required freeze frame data storage	C2E3D
Short Term Fuel Trim - Bank 1	35.2%
Long Term Fuel Trim - Bank 1	-68.8%
Short Term Fuel Trim - Bank 2	35.9%
1~4/14	

Figure 5-20

Press [→]/[←] button to view the data.

Press [ESC] to return to Diagnostic Menu.

5.1.6 O2 sensor test

The results of O2 sensor test are not live values but instead the results of the ECU's last O2 sensor test. For live O2 sensor readings, refer to any of the live sensor screens such as Graph Screen.

Not all test values are applicable to all vehicles. Therefore, the list generated will vary depending on vehicle. In addition, not all vehicles support the Oxygen Sensors screen.

For results of latest mandated on-board oxygen sensor monitoring test, see Figure 5-21.

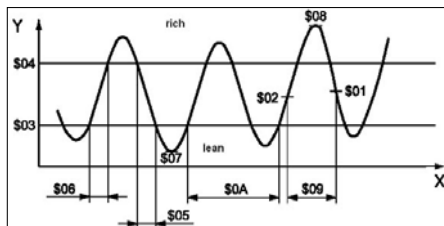


Figure 5-21

Select [O2 Sensor Test] in Diagnostic menu and press [OK] and the screen will display as shown below:

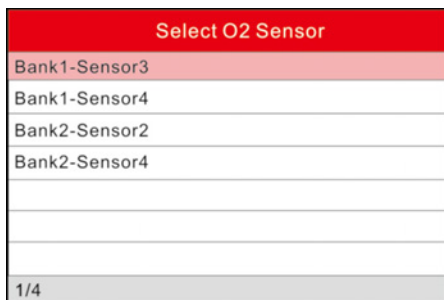


Figure 5-22

Press []/[] button to turn to next or previous page. Press []/[] button to select the desired items, then press [] button, the screen will display as shown below:

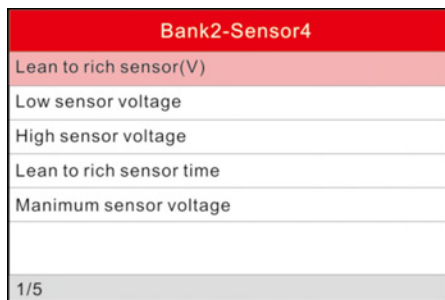


Figure 5-23

Press []/[] button to select an item and press [], the screen will display the test result.

Press [] to return to Diagnostic Menu.

5.1.7 On-board monitor test

This function can be utilized to read the results of on-board diagnostic monitoring tests for specific components/systems.

Select [On-board Monitoring] in main menu and press [] and the screen will display as shown below:

On-Board Monitoring	
Catalyst Monitor B1	
Catalyst Monitor B2	
Catalyst Monitor B3	
Catalyst Monitor B4	
EGR Monitor Bank 1	
EGR Monitor Bank 2	
EGR Monitor Bank 3	
1/41	

Figure 5-24

Press []/[] button to turn to next or previous page. Press []/[] button to select the desired items, then press [] button, the screen will display as shown below:

Catalyst Monitor B1	
Component ID	\$01
Limit Type	Min&Max
Test Value	0.009
Minimum Limit	0.008
Maximum Limit	0.024
Status	Pass
 - Exit	

Figure 5-25

Press [] to return to Diagnostic Menu.

5.1.8 EVAP System Test

The EVAP test function lets you initiate a leak test for the vehicle's EVAP system. The CReaderVI does not perform the leak test, but signals to vehicle's on-board computer to initiate the test. Before using the system test function, refer to the vehicle's service repair manual to determine the procedures necessary to stop the test.

Select [EVAP System Test] and press [], the screen will display the relative information about EVAP system. Some vehicle manufacturers do not allow

external devices to control vehicle system. If the car supports this function, it will display as below:

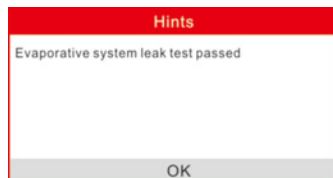


Figure 5-26

5.1.9 Vehicle Info

Select [Vehicle Info] and press [OK], the screen will display the information, such as VIN (Vehicle identification Number), CID (Calibration ID) and CVN (Calibration verification number), as shown below:



Figure 5-27

Press [ESC] to return to Diagnostic Menu.

5.2 System Diagnosing

This function is specially designed to diagnose electronic control system of single vehicle model which includes the following systems:

- Engine
- ABS(Anti-lock Brake System)
- AT(Automatic Transmission)
- SRS(Supplemental Restraint System)

Notes:

- Before diagnosing, please make sure the diagnostic program corresponding to certain vehicle model has been installed on your CRP123.
- For vehicles manufactured by different vendors, it is possible that it has different diagnostic menus. For details, please follow the instructions on the screen to proceed.

In main menu, select [Diagnose] and press **[OK]** to confirm, the screen will display as figure 5-28.

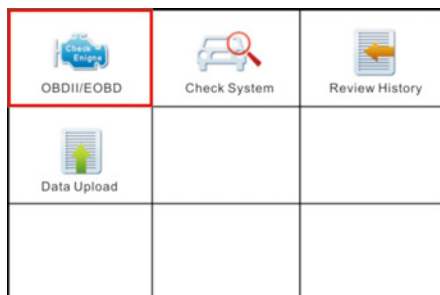


Figure 5-28

Press **[>]/[<]** button to highlight [Check System] and press **[OK]**, the system will enter vehicle system selection interface. See Fig. 5-29.

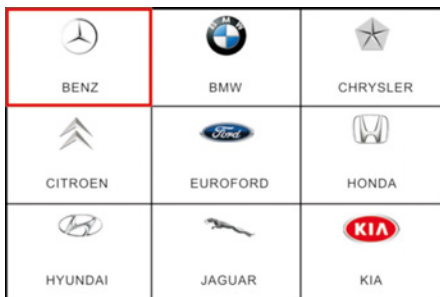


Figure 5-29

Press **[ESC]** to return to Diagnose main menu.

Press **[>]/[<]** button to highlight the desired vehicle and press **[OK]**, the system will enter vehicle system selection interface.

Take VW for example. Select [VW] and press [OK], the screen will display as Fig. 5-30.

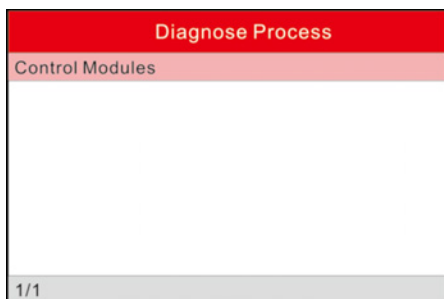


Figure 5-30

Press [Left Arrow]/[Right Arrow] button to select the desired item, then press [OK] button.

Choose [Manually Select] and press [OK] button, the screen will display as figure 5-31:

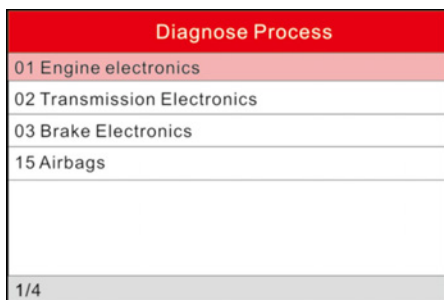


Figure 5-31

Press [Left Arrow]/[Right Arrow] button to turn to next or previous page. Press [Left Arrow]/[Right Arrow] button to select the desired items, then press [OK] button, the screen will display communication process, as indicated in figure 5-32:



Figure 5-32

After communication is complete, the system will start diagnosing the selected item.

If communication failed, a dialog box prompting you communication failure will appear as shown on Fig. 5-33.

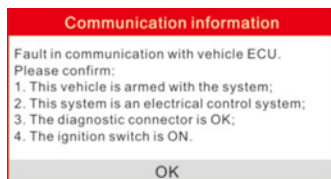


Figure 5-33

5.3 Review History

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

5.4 Data Upload

This function allows you to upload your recorded data to your PC via USB cable.

6 Settings

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

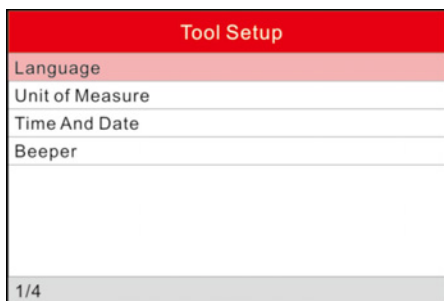


Figure 6-1

6.1 Language

This option enables you to set the user interface language.

Choose [Language] and press [, the screen will enter the language selection interface. Use the []/[] button to choose the desired one and press [] to save your change.



Figure 6-2

6.2 Set units

This option allows you to set measurement unit.

Choose [Unit of Measure] and press [OK] to confirm, the screen will enter the unit setting interface. Use the [↵]/[⏮] button to choose the desired one and press [OK] to save your change.

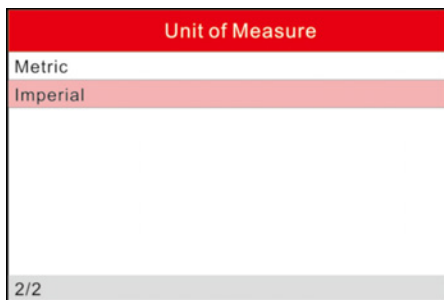


Figure 6-3

6.3 Time and date

This item is used to set the system date and time.

Choose [Time And Date] and press [OK] to enter the setting interface, as indicated on Fig. 6-4. Follow the on-screen instructions to finish your setting.

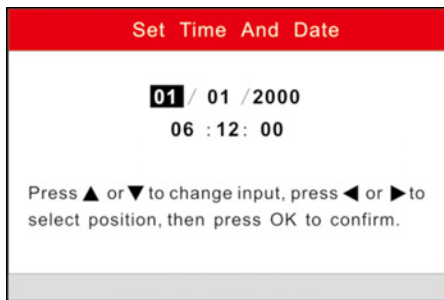


Figure 6-4

6.4 Beeper

It is used to set On/Off of the buzzer.

Choose [Beeper] and press [OK] to confirm, the screen enters Fig. 6-5. Press [OK] to switch between on and off.



Figure 6-5

7. Help

This menu enables you to view device information and OBD introduction.

In main menu, select [Help] and press  to enter Figure 7-1.

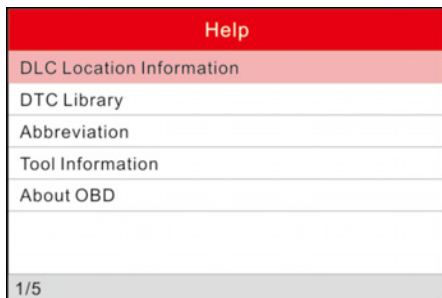


Figure 7-1

7.1 DLC Location Information

In Figure 7-1, select [DLC Location Information] and press  to view the location of vehicle's DLC.

7.2 DTC Library

In Figure 7-1, select [DTC Library] and press  to enter the following screen.

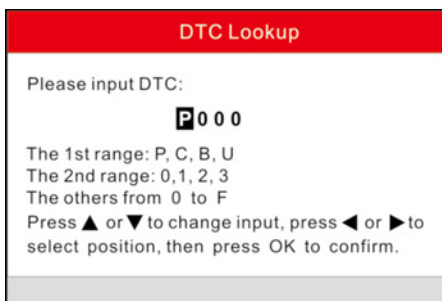


Figure 7-2

Press /[>] button to move the highlight bar to different position. Press [] button to alter the value, then press  button, the screen will display

definition of the DTC, as indicated in figure 7-3:

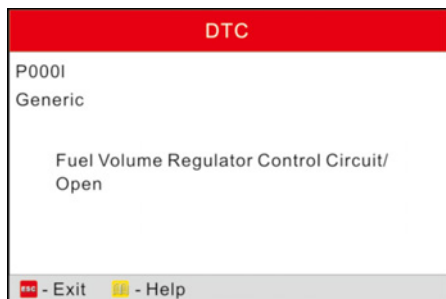


Figure 7-3

Press [ESC] to return to the previous screen.

7.3 Abbreviation

In Figure 7-1, select [Abbreviation] and press [OK] to enter the abbreviation word list.

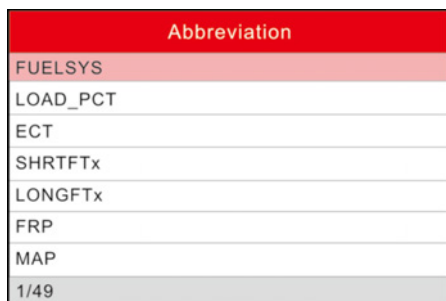


Figure 7-4

Press [Left]/[Right] button to turn to next or previous page. Press [Up]/[Down] button to highlight different items, then press [OK] button, the screen will display as shown on Figure 7-5.

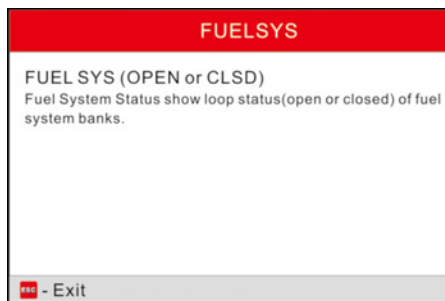


Figure 7-5

Press **[ESC]** to return to the previous screen.

7.4 Tool Information

In Figure 7-1, select [Tool Information] and press **[OK]** to view the related information of CRP123.

Tool Information	
Boot version:	V02.01
Display program version:	V02.00
Diagnostic program version:	V10.50
Diagnostic library version:	V02.24
Serial Number:	000000000000
Register Code:	270025000247
ESC - Exit	

Figure 7-6

Note: You are strongly recommended to note down the Serial Number and Register Code in Figure 7-6 since these 2 pieces of information are required while registering your CRP123.

Press **[ESC]** to return to the previous screen.

7.5 About OBD

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

8. Update

Hardware Requirement:

1. A computer that can access the Internet.
2. A CF card reader/writer and a CF card that need to be updated.

8.1 User Registration

Log on mycar.dbscar. A screen as shown on figure 8-1 will appear:

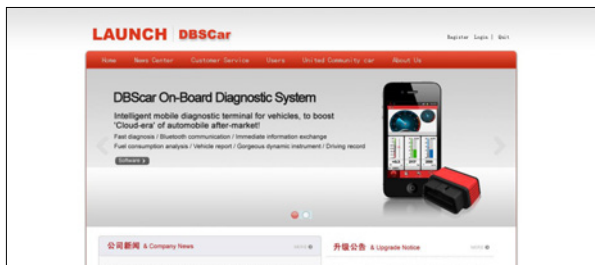


Figure 8-1

8.2 Register a passport

If you have not registered a passport, please follow the steps described as below:

Click [Register] to enter the user registration interface as indicated on figure 8-2.

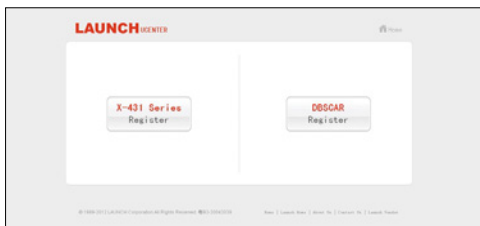


Figure 8-2

Click on “X-431 Series Register” to enter, a screen similar to the following will appear:

LAUNCH user registration

* Username:

* Password:

* Email (for receiving CC Mail):

* Confirmation Password:

Mobile:

Office Phone:

Company Name:

Location: Please Select Please Select Country Please Select Province

Address:

* Verification Code:

Please check the verification code carefully! Click on the picture to change number

Figure 8-3

Fill in your information (items with * can not be blank and must be entered). After filling, click [Confirm & Agree Next Terms] to register a passport. The system will send a CC number to your email immediately.

If you are a registered member, input your CC number or user name and password, then click [login] to enter product registration screen. See Figure 8-5.

LAUNCH USER CENTER

Welcome to visit

Username: CC Number or Email

Password:

☐ Auto Login [Forgot password?](#)

Not yet registered passport? [Register now](#)

Figure 8-5

8.3 Fill in Product Information

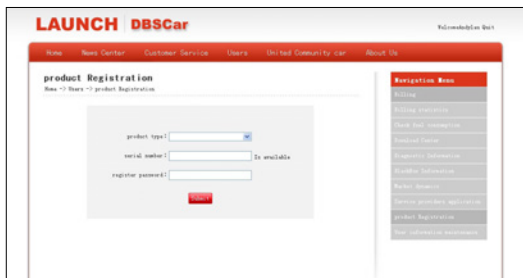


Figure 8-5

Choose the desired product type from the pull-down list. The serial No. and register password can be found from the [Tool Information] in "Help" (See Chapter 7. Help). Dealer code can be obtained from dealer.

After the information is filled, click "Submit" to register your product.

Note: If the filled serial No. or registration No. is invalid, the screen will display a wrong message. Click "OK" button to return to the previous interface to re-fill the correct numbers.

8.4 Software Download

Note: Only the registered user can download and update the software.

Click [Download center] to enter download center page after logging in successfully.

Notes:

1. Software update of charge free will be provided by LAUNCH for one year. The free period is from the registration date on the website, not the purchase date. That is, during one year after the registration, users could download the corresponding software for free.
2. If there is not the latest version in the download center or the latest version can not meet the needs of the users as they are released by other companies, users could buy the version in the purchase center or in the update center (see "Purchase Software"). In the purchase center, users can buy the software that doesn't install in the download center. In the update center, users can buy the software that is beyond the free download period. After purchase successfully, the purchased software will be added to the download center list automatically.

It's better for users to create a new folder named "Creader Pro update", to include all the downloaded software according to the following procedures.

8.5 Software Update

Connect card reader with TF card to PC and install drive program.

Connections

- a) Insert the TF card into the card reader;
- b) Connect one end of the USB cable to the card reader, and the other end to the USB port of the computer.

Install TF Card Reader Drive Program

You don't need to install the drive program if the operating system of your computer is Windows Me/2000/XP, Mac OS 9.x/Mac OS X or Linux 2.4.x, but have to install if the operating system is Windows98.

Interruption may be caused for the following reasons during the update process. Please try again after solving the problem.

- 1) TF card reader is poor connected to the computer or the drive program of the TF card is installed incorrectly;
- 2) Space on TF is not enough;
- 3) Other reasons.

Begin to Update Software

1. After you successfully copy the latest software version into TF card, unplug the USB cable from your PC.
2. Remove the TF card from the TF card reader and insert it into the TF card slot of CRP123.
3. Once a updated version is found, a message box prompting you to update will pop up on the screen after CRP123 is turned on.
4. Click "OK" to start updating and a progress bar will appear. It may takes several minutes to finish update if your upgrade package file is too large, please wait.

8.6 Purchase Software

If users can't find the software they needed in download center, they should buy the software in the purchase center or updated in the update center.

Click [Buying center], then you can tick box before the serial number to choose the software. To uncheck it, just click it again.

Click [Order] to add the selected software to your shopping cart.

Click [Pay] to buy the software. The bought software will be automatically added to the user's download center. Click [Clear] to empty the shopping cart. Click [Purchase other] to buy other software.

9. FAQ

Here we list some frequently asked questions and answers relating to CRP123.

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

Answer: It may be caused by a slackened connector. Please turn off the CRP123, firmly connect the connector, and switch on it again.

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

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

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.

Question: Why are there so many fault codes?

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