EVORIA

YM319

USER MANUAL

OBD-II/EOBD Diagnostic Scanner



ENGLISH (CANADA)

Diagnostics • Battery • Reports • Settings

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1 Precautions

To avoid personal injury or damage to the vehicles, read this instruction manual and observe the following safety precautions whenever working on a vehicle:

➢Be sure to test your vehicle in a safe environment.

➢Wear ANSI-compliant eye protection tools.

➢Keep clothing, hair, hands, tools and test equipment away from all operating or hot engine parts.

➢Operate the vehicle in a well-ventilated work area: Exhaust gases are poisonous.

➢Place blocks in front of the drive wheels and never leave the vehicle unattended while running tests.

➢Extreme caution must be exercised when working around ignition coils, distributor caps, ignition wires and spark plugs. These components generate dangerous voltages while the engine is running.

➢Put the transmission into "PARK"(for automatic transmission) or "NEUTRAL"(for manual transmission) and make sure the parking brake is activated.

➢Keep an applicable fire extinguisher near the hazard area.

➢Don't connect or disconnect any test equipment while the ignition is on or the engine is running.

➢Keep test tools dry, clean and free of oil or grease. Use a mild detergent on a clean cloth to clean the outside of the vehicle professional scan tool, when necessary.

2 Using The Vehicle Professional Scan Tool

2.1 Tool Description

1. **LCD DISPLAY**-Indicates test results.
2. **Green LED Display** -Indicates no DTC are found or the fault code has been cleared.
3. **Yellow LED Display** -Indicates pending DTC exist.
4. **Red LED Display** -Indicates here are some problems in one or more of the vehicle's systems.



5. **BAT button** BAT -Enter battery test screen.
6. **Custom buttons** F1 F2 -Editable shortcut keys.

7. **EXIT button** EXIT -Cancel the operation or exit.
8. **OK button** ok -Confirms a selection(or action) from a menu list.
9. **UP button** ∧ -Roll up the menu and sub menu in menu screen.
10. **LEFT button** < -Moves left the menu and sub menu in menu screen.
11. **DOWN button** ∨ -Roll down the menu and sub menu in menu screen.
12. **RIGHT button** > -Moves right the menu and sub menu in menu screen.
13. **OBD II CONNECTOR** -Connects the vehicle professional scan tool to the vehicle's Data Link Connector(DLC).

2.2 Specifications

1. Display: 2.4-inch, 320×240 pixel IPS display
2. Operating: Temperature:0℃ to 60℃(32°F to 140 °F)
3. Storage Temperature:-20℃ to 70℃(-4°F to 158°F)
4. Power: 5.0V to 20.0V provided via vehicle battery
5. Dimensions(LxWxH):137mm(5.4")x76mm(3.0") x24mm(0.9")
6. Net Weight: 188g(0.32lb)

2.3 Accessories Included

1. **QR code** --On the back of the product for User's Manual download - Instructions on tool operations.
2. **OBD II cable** --Provides power to tool and communicates between tool and vehicle.

2.4 Navigation Characters

Characters used to help navigate the vehicle professional scan tool are:

1. **" ► "**--indicates current selection.
2. " **Pd "**--Identifies a pending DTC when viewing DTC.
3. " **$ "**--Identifies the control module number from which the data is retrieved.

2.5 Vehicle Power

The power of the vehicle professional scan tool is provided via the vehicle Data Link Connector (DLC). Follow the steps below to turn on the vehicle professional scan tool:

1. Connect the OBD II cable to the vehicle professional scan tool.
2. Find DLC on vehicle.

   A plastic DLC cover may be found for some vehicles and you need to remove it before plugging the OBD II cable.
3. Plug OBD II cable to the vehicle's DLC.

2.6 Vehicle Coverage

This OBD II/EOBD vehicle professional scan tool is specially designed to work with all OBD II compliant vehicles, including those equipped with the next-generation protocol-Control Area Network (CAN). It is required by EPA that all 1996 and newer vehicles (cars and light trucks) sold in the United States must be OBD II compliant and this includes all Domestic, Asian and European vehicles.

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 Vehicle Emissions Control Information (VECI) Label which 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**" .

Additionally, Government regulations mandate that all OBD II compliant vehicles must have a "**common**" sixteen-pin Data Link Connector(DLC). For your vehicle to be OBD II compliant it must have a 16-pin DLC (Data Link Connector) under the dash and the Vehicle Emission Control Information Label must state that the vehicle is OBD II compliant.

3 OBD II Diagnostics

3.1 OBD II Diagnostics

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

1. Turn the ignition off.
2. Locate the vehicle's 16-pin Data Link Connector (DLC).
3. Plug into the OBD II cable to the vehicle's DLC.
4. Turn the ignition on.Engine can be off or running.

5. Use **UP/DOWN/LEFT/RIGHT** button select OBD II from the **Main Screen**, Press **OK** button to enter **Diagnostic Menu**. The tool will display OBD II protocols and the vehicle information until it has detected the vehicle's communication protocol.

➢ *If the vehicle professional scan tool fails to communicate with the vehicle's ECU (Engine Control Unit), a "**LINKING ERROR!**" message shows up on the display.*

■Verify that the ignition is ON.

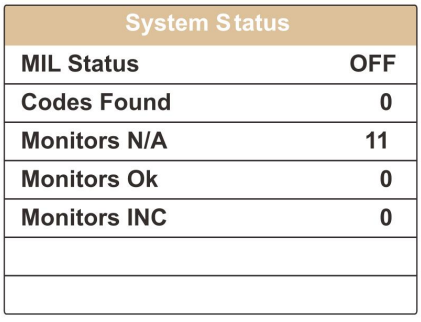
■Check if the vehicle professional scan tool OBD II connector is securely connected to the vehicle's DLC.

■Verify that the vehicle is OBD II compliant.

■Turn the ignition off and wait for about 10 seconds.Turn the ignition back to on and repeat the procedure from step 5.

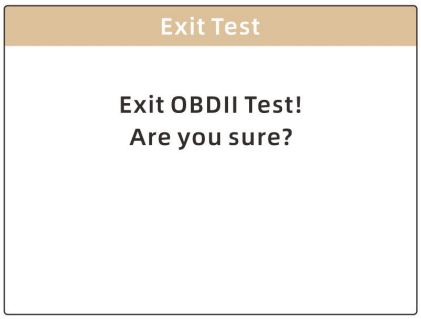
➢ *If the "**LINKING ERROR**" message continues to display, then there might be problems for the vehicle professional scan tool to communicate with the vehicle. Contact your local distributor or the manufacturer's customer service department for assistance.*

6. After the system status is displayed (MIL status, DTC counts, Monitor status), wait a few seconds or press any key for **Diagnostic Menu** to come up.



Exiting OBD II Test

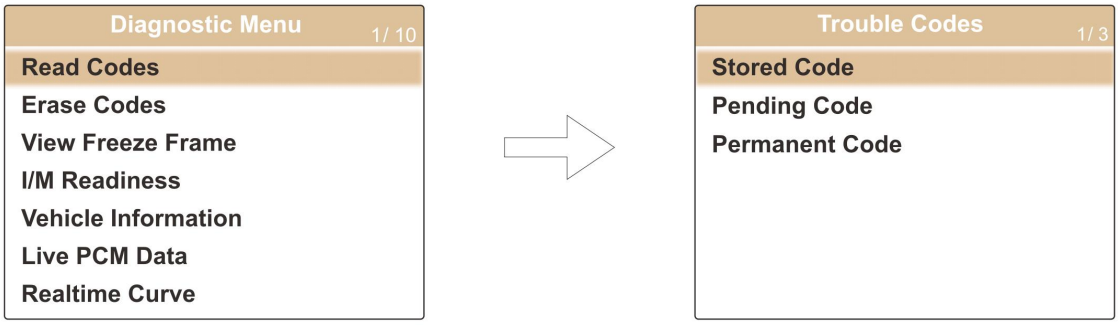
1. To exit OBD II test, press **EXIT** button in **Diagnostic Menu**.



2. A warning message comes up asking your confirmation.
3. If you do want to exit OBD II test, press **OK** button.
   ➢ *If you do not want to exit, press **EXIT** button to return.*

3.2 Reading Codes

1.Use **UP/DOWN** button to select **Read Codes** from **Diagnostic Menu** and press **OK** button.



2.From Trouble Codes menu, use **UP/DOWN** button to select the type of trouble codes, press **OK** button.

3.View DTC and their definitions on screen.
   ➢ *The control module number, sequence of the DTC, total number of codes detected and type of codes (Generic or Manufacturer specific, Stored or Pending codes) on the upper right comer of the display*



4.If more than one DTC is found,use **UP/DOWN** button, as necessary, until all the codes have been shown up.
   ➢If no codes are detected, a "No codes are stored in the module!" message displays on the screen.
   ➢If retrieved DTC contain any manufacturer specific or enhanced codes, the display Indicates "Manufacture Control".

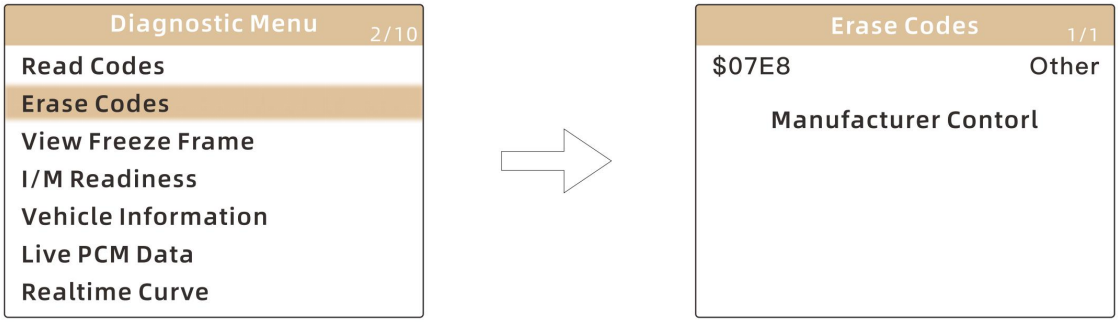
5.Press **EXIT** button to return to previous menu.

3.3 Erasing Codes

CAUTION: Erasing the Diagnostic Trouble Codes may allow the vehicle

professional scan tool to delete not only the codes from the vehicle's on-board computer, but also "**Freeze Frame**" data and manufacturer enhanced data. Further, the **I/M Readiness** Monitor Status for all vehicle monitors is reset to Not Ready or Not Complete status. Do not erase the codes before the system has been checked completely by a technician. *This function is performed with key on engine off (KOEO).Do not start the engine.*

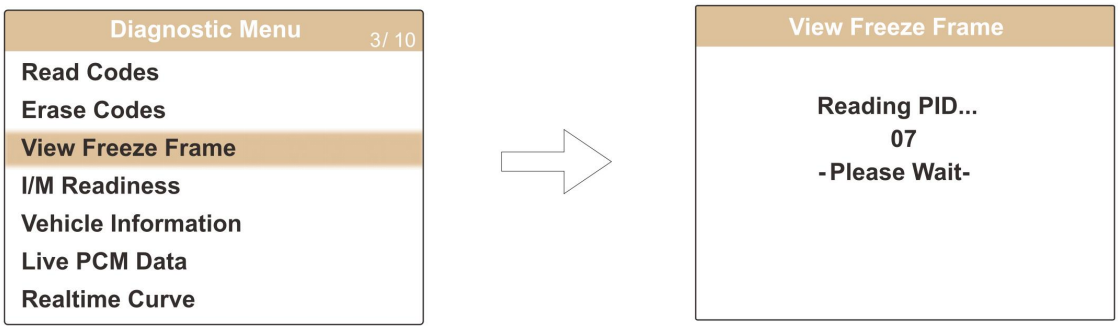
1. If you decide to erase the DTC, use **UP/DOWN** button to select **Erase. Codes** from **Diagnostics Menu** and press **OK** button.
2. A warning message comes up asking for your confirmation.



3. If you want to proceed with erasing the codes, press **OK** button to erase.
   - *If the codes are cleared successfully, an **"Erase Done!"** message shows up.*
   - *If the codes are not cleared, then an **"Erase Failure.Turn Key on with Engine off!"** message displays.*
4. Wait a few seconds or press any key to return to **Diagnostic Menu**.
   - *If you don't want to erase the codes, then press **EXIT** button.A **"Command Canceled"** message shows up. Press any key or wait a few seconds to return to **Diagnostic Menu**.*

3.4 Viewing Freeze Frame Data

1. To **View Freeze Frame**, use **UP/DOWN** button to select **View Freeze Frame** from **Diagnostic Menu** and press **OK** button.
2. Wait a few seconds while the vehicle professional scan tool validates the PID MAP.



3. If the retrieved information covers more than one screen use **UP/DOWN** button, as necessary, until all data have been shown up.

View Freeze Frame	1/2
DTCRFRZF	b0090
LOAD_PCT(%)	92.9
ECT(°F)	352
MAP(/inHg)	64
RPM(/min)	8245
Vss(/mph)	0
MAF(lb/min)	80.54

*the number **"x/x"** to the upper right comer of the screen indicates total number of screens the retrieved freeze frame covers and sequence of currently displayed data.*

•If there is no freeze frame data available, an advisory message "**No Freeze Frame Data Stored!**" shows on the display.

4. Press **EXIT** button to return to **Diagnostic Menu**.

3.5 Retrieving I/M Readiness Status

I/M Readiness function is used to check the operations of the Emission System on OBD II compliant vehicles. It is an excellent function to use prior to having a vehicle inspected for compliance to a state emissions program. Some latest vehicle models may support two types of **I/M Readiness** tests:

- **Since DTC Cleared** -- indicates status of the monitors since the DTC are erased.
- **This Drive Cycle** -- indicates status of monitors since the beginning of the current drive cycle.

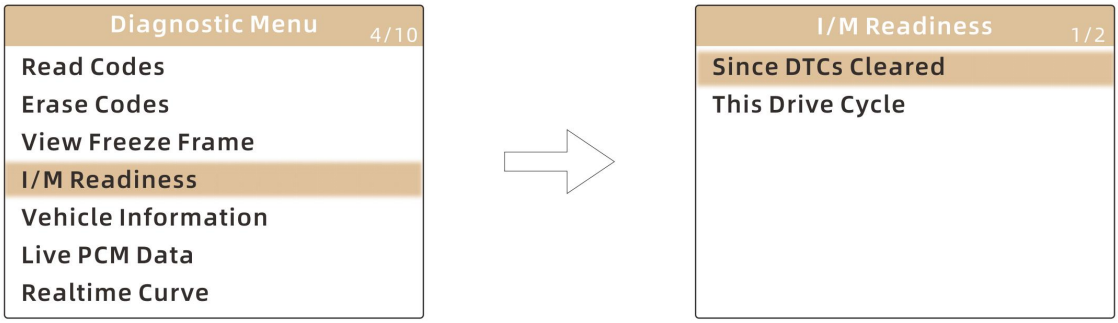
An **I/M Readiness** Status result of "**NO**" does not necessarily indicate that the vehicle being tested will fail the state I/M inspection. For some states, one or more such monitors may be allowed to be **"Not Ready"** to pass the emissions inspection.

➢**OK** -- Indicates that a particular monitor being checked has completed its diagnostic testing.

➢**INC** -- Indicates that a particular monitor being checked has not completed its diagnostic testing.

➢**N/A** -- The monitor is not supported on that vehicle.

1. Use **UP/DOWN** button to select **I/M Readiness** from **Diagnostic Menu** and press **OK** button.



2. If the vehicle supports both types of tests, then both types shows on the screen for selection.
3. Use **UP/DOWN** button to view the status of the MIL light("**ON**" or "**OFF**") and the following monitors:

Since DTCs Clear	1/2
MIL Status	OFF
Misfire Monitor	N/A
Fuel System Mon.	N/A
Comp.Component	N/A
Catalyst Mon.	N/A
HTD Catalyst	N/A
EVAP System Mon.	N/A

This Drive Cycle	1/2
MIL Status	OFF
Misfire Monitor	N/A
Fuel System Mon.	N/A
Comp.Component	OK
Catalyst Mon.	N/A
HTD Catalyst	N/A
EVAP System Mon.	N/A

➢**Misfire monitor** -- Misfire monitor

➢**Fuel System Mon.** -- Fuel System Monitor

➢**Comp.Component** -- Comprehensive Components Monitor

➢**Catalyst Mon.** -- Catalyst Monitor

➢**HTD Catalyst** -- Heated Catalyst Monitor

➢**EVAP System Mon.** -- Evaporation System Monitor

➢**Sec.Air System** -- Secondary Air Monitor

➢**A/C Refrigeration Mon.** -- A/C system Monitor

➢**Oxygen Sens Mon.** -- O2 Sensors Monitor

➢**Oxygen Sens Heater** -- O2 Sensor Heater Monitor

➢**EGR** -- Exhaust Gas Recirculation System Monitor

4. If the vehicle supports readiness test of "**This Drive Cycle**", a screen of the following will be displayed:

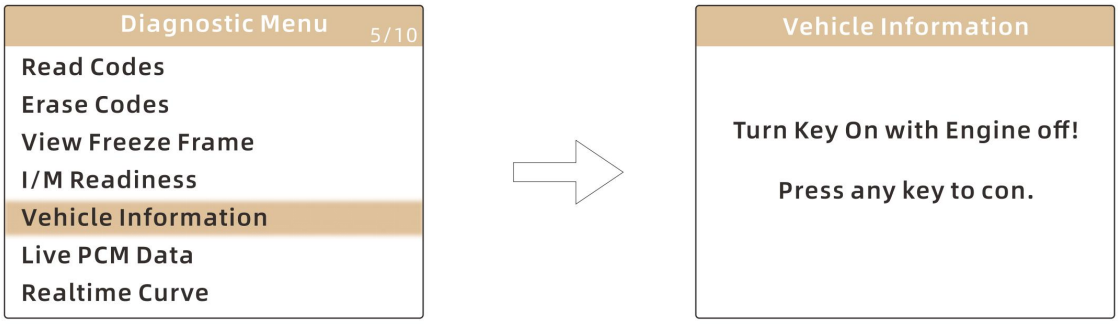
*The number **"x/x"** to the upper right comer of the screen indicates total number of screens the retrieved data cover and sequence of currently displayed data*.

5. Press **EXIT** button to return to previous menu.

3.6 Viewing Vehicle Information

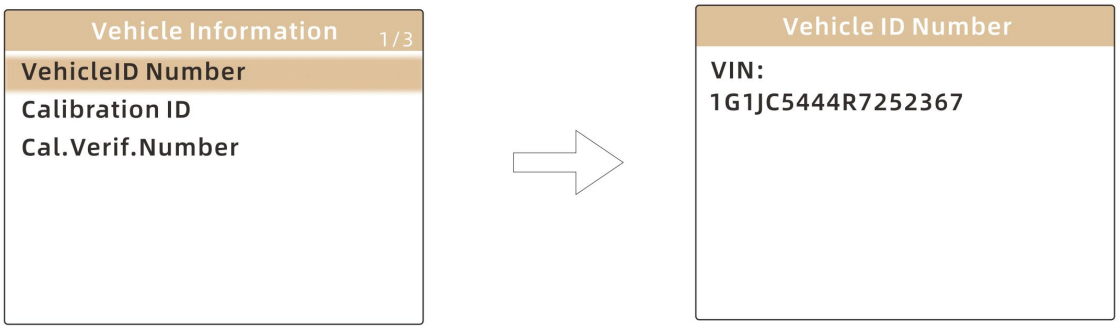
The vehicle Info function enables retrieval of the vehicle Identification No.(VIN), Calibration ID(s), Calibration Verification Nos.(CVNs) and In-use Performance Tracking on 2000 and newer vehicles that support Mode 9.

1. Use **UP/DOWN** button to select **Vehicle information**, from **Diagnostic Menu** and press **OK** button.
2. Wait a few seconds or press **OK** button to continue.



*If the vehicle does not support this mode, a "**The selected mode is not supported!**" message shows on the display.*

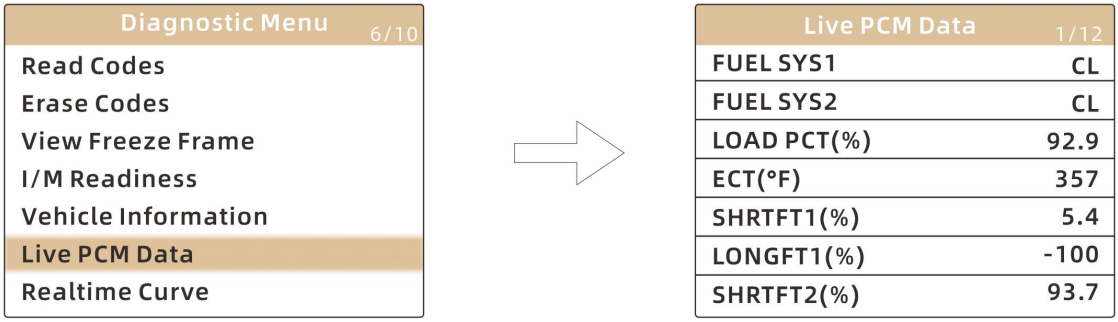
3. From **Vehicle information,** menu, use **UP/DOWN** button to select an available item to view and press **OK** button.
4. View retrieved **vehicle information** on the screen.



5. Press **EXIT** button to return to previous menu.

3.7 Live PCM Data

The **Live PCM Data** function can retrieve vehicle realtime data of **Mode 1**.

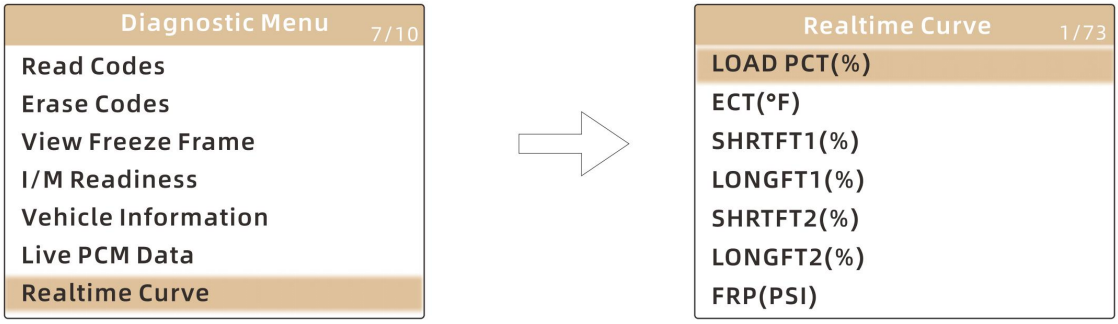


1. Use **UP/DOWN** button to select **Live PCM Data** from **Diagnostic Menu** and press **OK** button.
2. Use **UP/DOWN** button to change page in **Live PCM Data** interface.
3. Press **EXIT** button to return to the previous menu.

3.8 Realtime Curve

The **Realtime Curve** function can retrieve vehicle Real-time data of **Mode 1** and displays it in a curved fashion.

1. Use **UP/DOWN** button to select **Realtime Curve** from **Diagnostic Menu** and press **OK** button.
2. Use **UP/DOWN** button to select the item that need to be displayed.



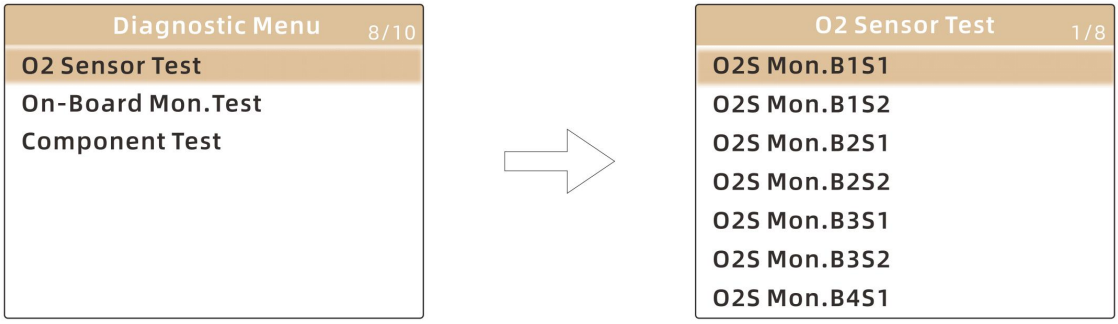
3. In the **Realtime curve** screen, Use **UP/DOWN** button to change the update speed of the curve.
4. Press **EXIT** button to return to the previous menu.

3.9 O2 Sensor Test

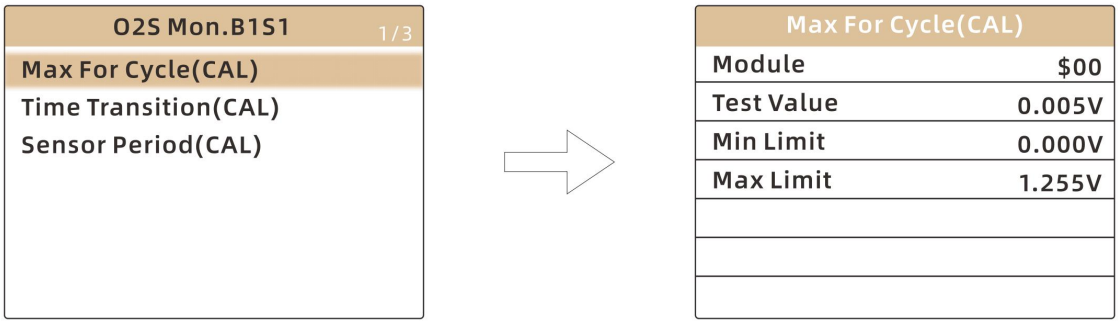
The **O2S Monitor Test** function allows retrieval and viewing of O2 sensor monitor test results for the most recently performed tests from the vehicle's on-board computer.

1. Use **UP/DOWN** button to select **O2 Sensor Test** from **Diagnostic Menu** and press **OK** button.

2. Wait until the scan tool validates the PID MAP.



3. Use **UP/DOWN** button to select **O2 sensor** from **O2S Monitor Test** menu and press **OK** button.
4. Use **UP/DOWN** button to select test result and press **OK** button to view additional data.

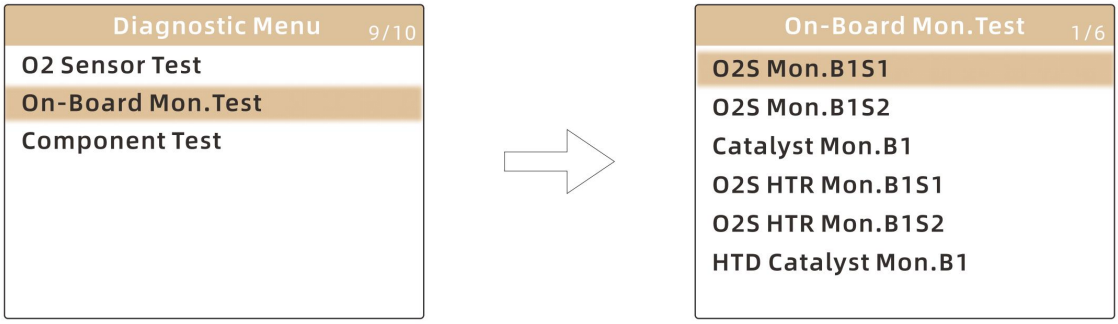


5. Press **EXIT** button to return to the previous menu.

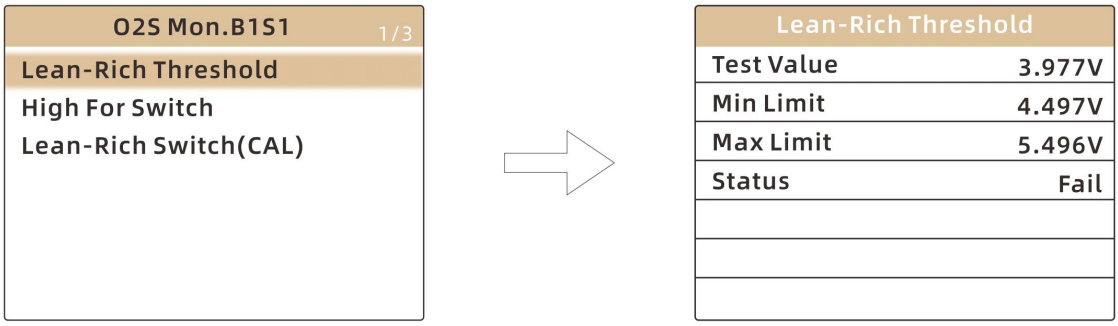
3.10 On-Board Mon.Test

The **On-Board Mon.Test** function retrieves and displays test results for emission-related power train components and systems that are not continuously monitored.

1. Use **UP/DOWN** button to select **On-Board Mon.Test** from **Diagnostic Menu** and press **OK** button.



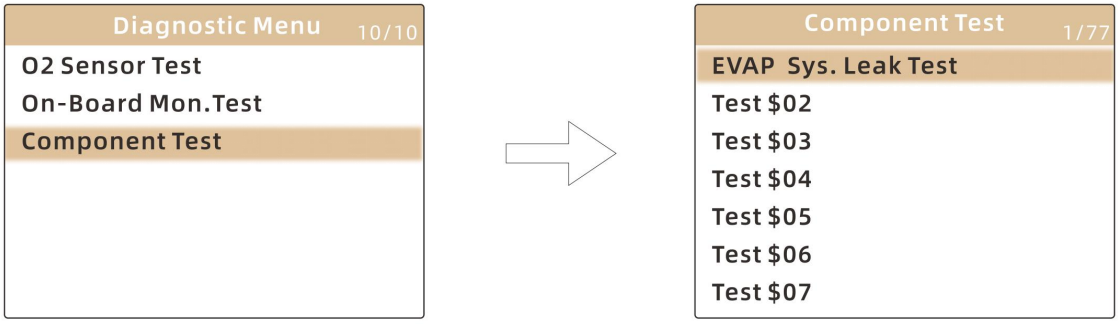
2. Wait until the scan tool validates the PID MAP.



3. Use **UP/DOWN** button to select the monitor to view and press **OK** button.
4. Use **UP/DOWN** button to select test result and press **OK** button view additional data.
5. Press **EXIT** button to return to the previous menu.

3.11 Component Test

The **Component Test** initiates a leak test for the vehicle's EVAP system. The scan tool itself does not perform the leak test, but commands the vehicle's on-board computer to start the test. Different vehicle manufacturers might use different criteria and methods for stopping the test once it has been started. Before starting the **Component Test**, refer to the vehicle service manual for instructions to stop the test.



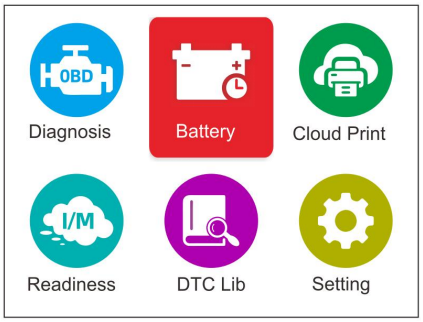
1. Use **UP/DOWN** button to select **Component Test** from **Diagnostic Menu** and press **OK** button.
2. Wait for the scan tool to display the **Component Test** menu.
3. Press **OK** button to send command.
4. Wait a few seconds or press any key to return to previous screen.

4 Battery Test

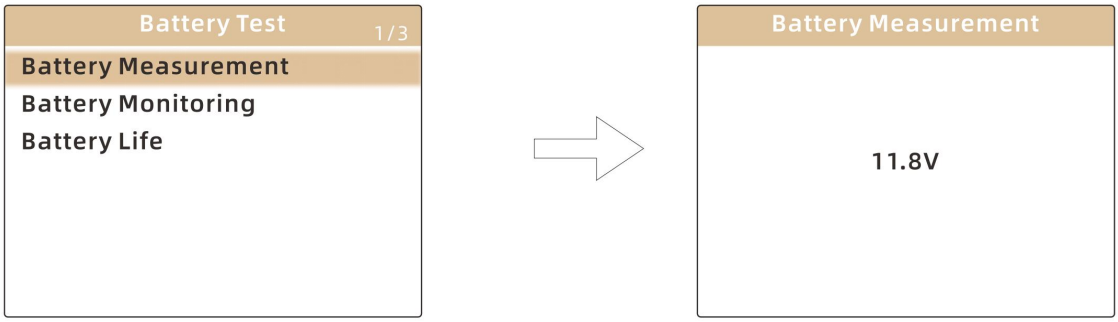
The **Battery Test** function can measure the battery voltage, view the battery voltage curve and test the battery life.

To enter the **Battery Test** menu

Use **UP/DOWN/LEFT/RIGHT** button to select **Battery Test** from **Main Screen** and press **OK** button.

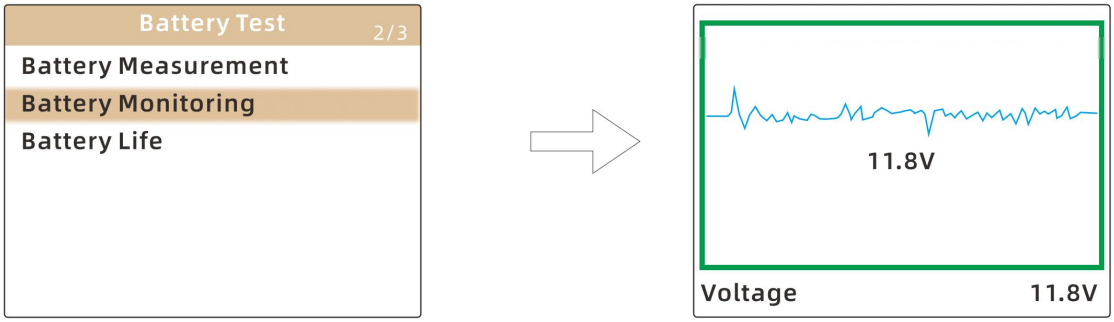


4.1 Battery measurement



1. From **Battery Test** menu, use **UP/DOWN** button to select **Battery Measurement**, and press **OK** button.
2. Press **EXIT** button to return to the previous menu.

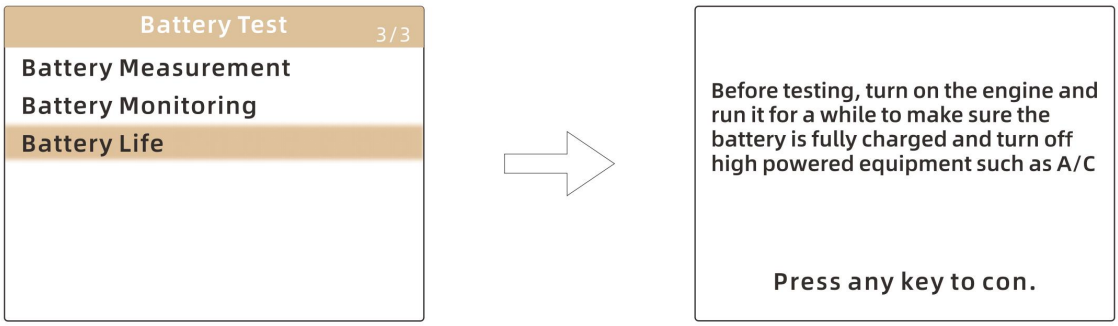
4.2 Battery monitoring



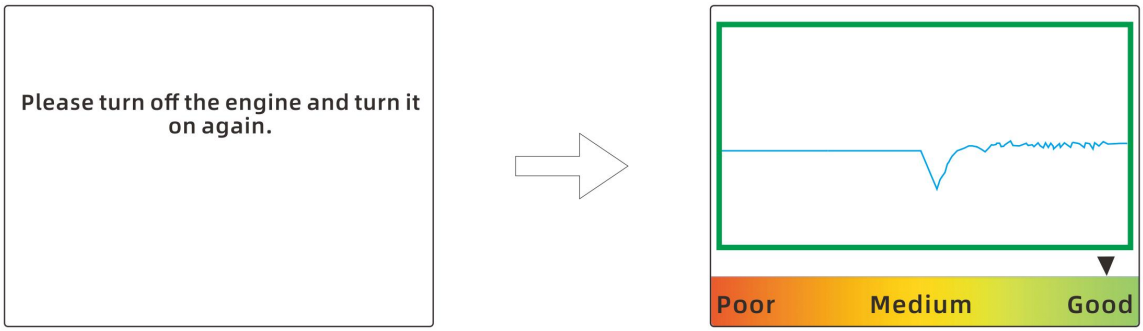
1. From **Battery Test** menu, use **UP/DOWN** button to select **Battery Monitoring**, and press **OK** button.
2. Press **EXIT** button to return to the previous menu.

4.3 Battery life

1. From **Battery Test** menu, use **UP/DOWN** button to select **Battery Life**, and press **OK** button.



2. There will be some prompts for the steps on the screen, in order to get accurate test results, please be sure to follow the prompts.

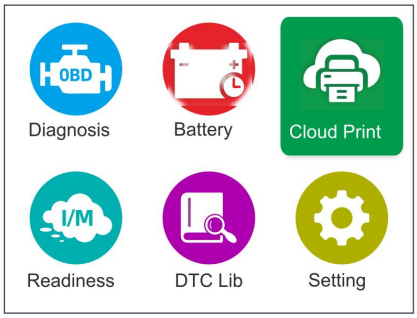


3. Follow the tips above, Turn off the engine, wait a moment and turn it on again. After the test is completed, the process of changing the battery voltage during ignition is displayed on the screen, and the arrow at the bottom indicates the health status of the battery.
4. Press **EXIT** button to return to the previous menu.

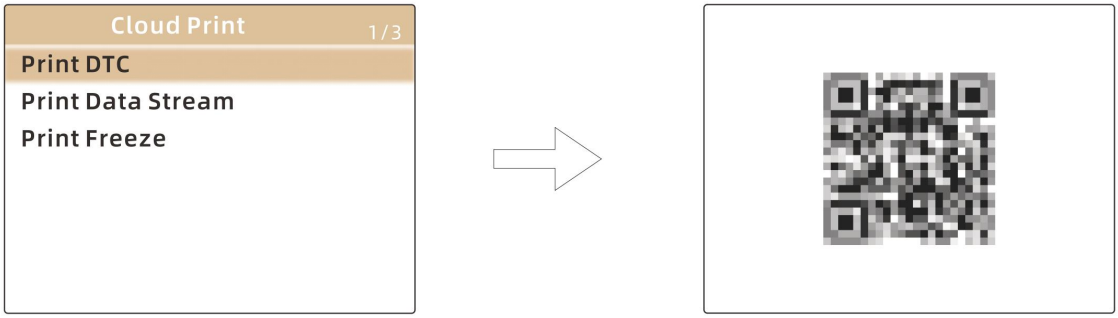
5 Cloud Print

This function is to generate a QR code for the diagnostic data, and then scan it with the mobile browser, and the diagnostic data can be displayed on the mobile phone. You can save the diagnostic results by taking a screenshot and print them out or send them to a professional repairer.

1. Use **UP/DOWN/LEFT/RIGHT** button to select **Cloud Print** from **Main Screen** and press **OK** button.



2. From **Cloud Print** menu, use **UP/DOWN** button to select the item you want to print and press **OK** button.
3. Then a QR code will be generated, scan it with the mobile browser.

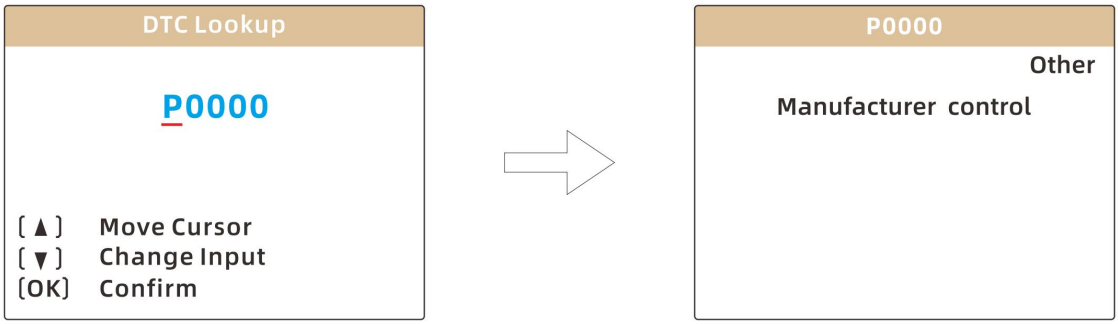


6 DTC Lookup

The **DTC Lookup** function is used to search for definitions of DTCs stored in the DTC library and for DTC Guide information.

1. Use **UP/DOWN/LEFT/RIGHT** button to select **DTC Lookup** from **Main Screen** and press **OK** button.
2. From **DTC Lookup** screen, use the **LEFT/RIGHT** button to move to the desired digit/character, use the **UP/DOWN** button to change selected digit/character and press **OK** button to confirm

   View the data trouble code definition on screen.



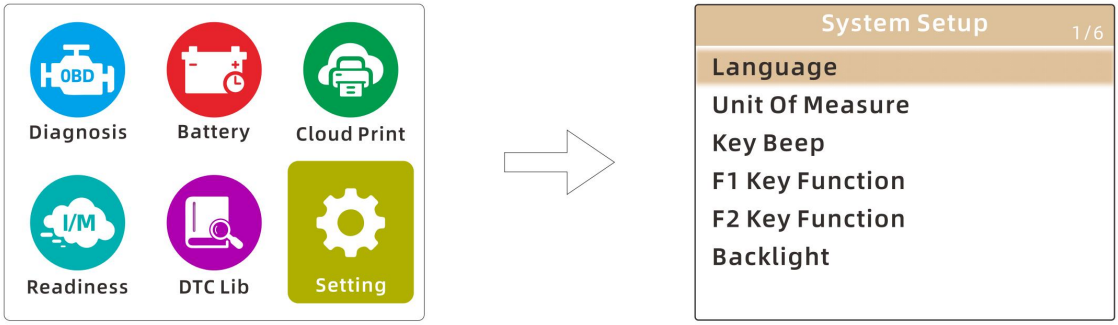
3. To enter another DTC, the **EXIT** button to return to previous screen.
4. To exit to **Main Screen**, press the **EXIT** button.

7 System Setup

The vehicle professional scan tool allows you to make the following adjustments and settings:

1. **Language:** Selects desired language.
2. **Unit of measure:** Sets the unit of measure to **English** or **Metric**.
3. **Key Beep:** Adjust the sound of key.
4. **F1 Key Function:**Customize the shortcut key F1 function
5. **F2 Key Function:** Customize the shortcut key F2 function
6. **Backlight:** Adjusts the backlight of the LCD display.

To enter the **System Setup** menu

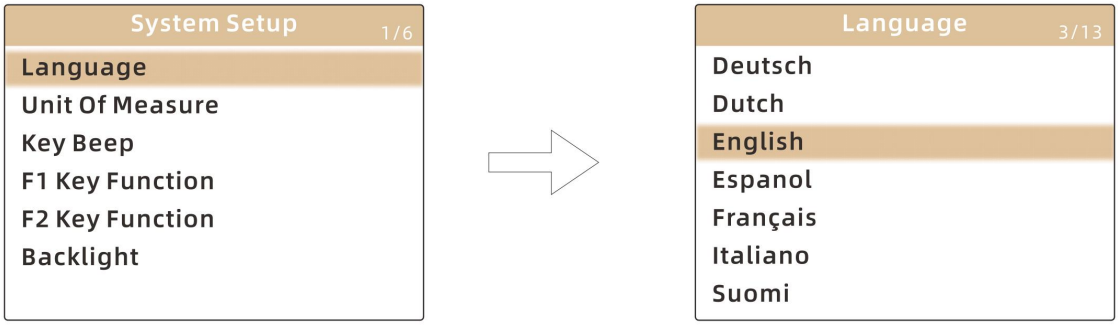


From the **Main Screen**, press **UP/DOWN/LEFT/RIGHT** button to select the setup icon, press **OK** button enter **System Setup** menu. Follow the instructions to make adjustments and settings as described in the following setup options.

*The number "**x/x**" to the upper right comer of the screen indicates total number of items under the menu and sequence of currently selected item.*

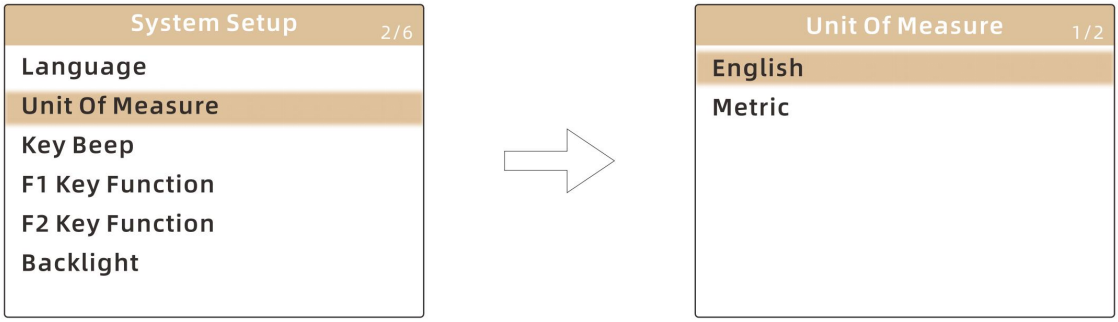
Press **EXIT** button to return to **Main Screen**.

7.1 Language



1. From **System Setup** menu, use **UP/DOWN** button to select **Language**, and press **OK** button.
2. Use **UP/DOWN** button to select the desired language and press **OK** button to save your selection and return to previous menu.

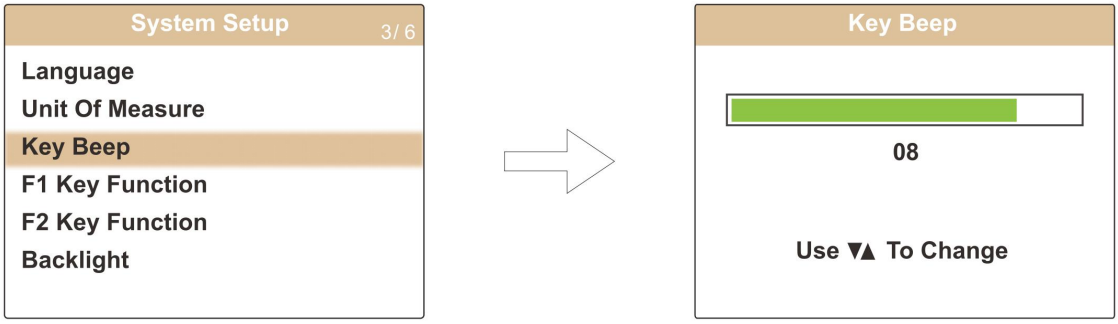
7.2 Unit Of Measurement



1. From **System Setup** menu, use **UP/DOWN** button to select **Unit of Measure** and press **OK** button.
2. Use **UP/DOWN** button to select the desired unit of measurement and press **OK** button to save your selection and return to previous menu.

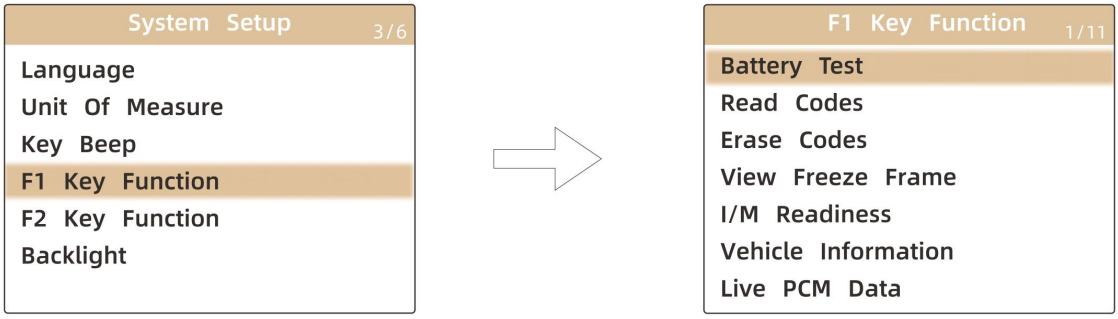
7.3 Key Beep

1. From **System Setup** menu, use **UP/DOWN** button to select **Key Beep**, and press **OK** button.



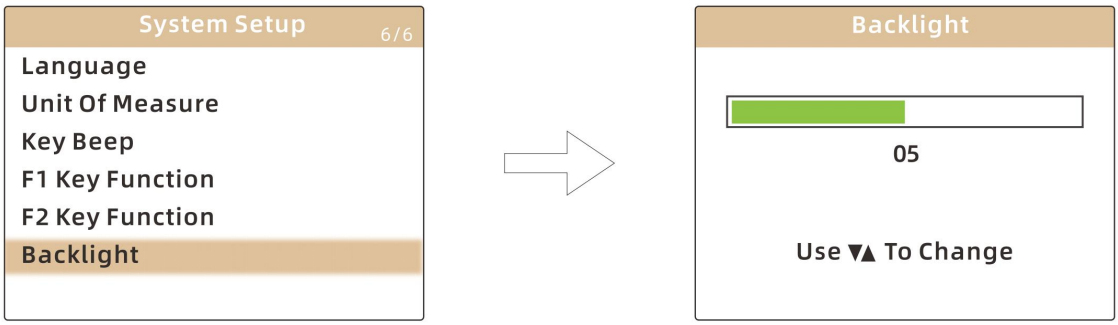
2. In the adjustment interface, use **UP/DOWN** button to Adjust the sound.
3. Press **OK** button to save your settings and return to previous menu.

7.4 F1/F2 Key Function



From **System Setup** menu, use **UP/DOWN** button to select **F1 Key Function**, and press **OK** button

7.5 Backlight



1. From **System Setup** menu, use **UP/DOWN** button to select **Backlight**, and press **OK** button.
2. In the adjustment interface, use the **UP/DOWN** button to adjust the backlight brightness.
3. Press **OK** button to save your settings and return to previous menu.

8 Warranty And Service

8.1 Limited One Year Warranty

This product will be free from all defects in materials and workmanship for a period of one(1) year from the date of the original purchase,subject to the following terms and conditions:

1. The sole responsibility of us under the Warranty is limited to either the repair or, at the option of us, replacement of the vehicle professional scan tool at no charge with Proof of Purchase. The sales receipt may be used for this purpose.
2. This warranty does not apply to damages caused by improper use, accident, flood, lightning, or if the product was altered or repaired by anyone other than the Manufacturer's Service Center.
3. We shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the vehicle professional scan tool. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.
4. All information in this manual is based on the latest information available at the time of publication and no warranty can be made for its accuracy or completeness. We reserves the right to make changes at any time without notice.

8.2 Service Procedures

If you have any questions, please contact your local store, distributor. If it becomes necessary to return the vehicle professional scan tool for repair, contact your local distributor for more information.