

Table of Contents

1.	SAFETY PRECAUTIONS AND WARNINGS.....	1
2.	GENERAL INFORMATION.....	2
2.1	ON-BOARD DIAGNOSTICS (OBD) II	2
2.2	DIAGNOSTIC TROUBLE CODES (DTCs)	2
2.3	LOCATION OF THE DATA LINK CONNECTOR (DLC)	3
2.4	OBD II READINESS MONITORS	4
2.5	OBD II MONITOR READINESS STATUS	5
2.6	OBD II DEFINITIONS	6
3.	USING THE SCAN TOOL.....	8
3.1	TOOL DESCRIPTION	8
3.2	SPECIFICATIONS.....	10
3.3	ACCESSORIES INCLUDED.....	10
3.4	KEYBOARD	10
3.5	POWER	10
3.6	SYSTEM SETUP	11
3.7	VEHICLE COVERAGE	15
3.8	PRODUCT TROUBLESHOOTING.....	16
4.	PLAYBACK DATA	17
4.1	REVIEWING DATA	17
4.2	DELETING DATA	18
4.3	PRINTING DATA	18
5.	OBDII DIAGNOSTICS	19
5.1	READ CODES	20
5.2	ERASING CODES.....	23
5.3	LIVE DATA	25
5.4	FREEZE FRAME.....	31
5.5	RETRIEVING I/M READINESS STATUS.....	32
5.6	O2 MONITOR TEST	35

5.7	ON-BOARD MONITOR TEST	36
5.8	COMPONENT TEST	39
5.9	VIEWING VEHICLE INFORMATION	40
5.10	MODULES PRESENT	42
5.11	DTC LOOKUP	43
6.	PRINT AND UPDATE.....	19
6.1.	PRINT DATA	45
6.2.	SOFTWARE UPDATE	46
7.	OIL RESET	52
7.1	GENERAL INFORMATION	52
7.2	RESET OPERATION.....	52
8.	WARRANTY AND SERVICE.....	61
8.1.	LIMITED ONE YEAR WARRANTY	61
8.2.	SERVICE PROCEDURES.....	61

1. Safety Precautions and Warnings

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

- Always perform automotive testing in a safe environment.
- 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 PARK (for automatic transmission) or NEUTRAL (for manual transmission) 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 scan tool dry, clean, free from oil/water or grease. Use a mild detergent on a clean cloth to clean the outside of the scan tool, when necessary.

2. General Information

2.1 On-Board Diagnostics (OBD) II

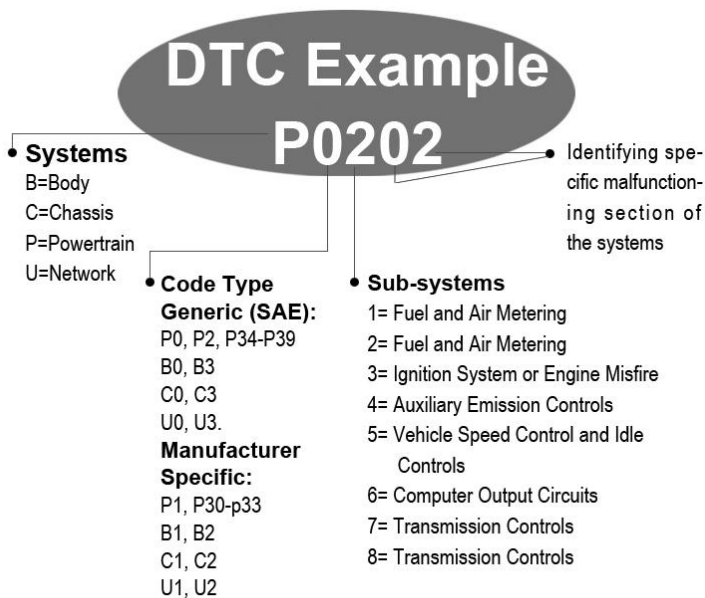
The first generation of On-Board Diagnostics (called OBD I) was developed by the California Air Resources Board (ARB) and implemented in 1988 to monitor some of the emission control components on vehicles. As technology evolved and the desire to improve the On-Board Diagnostic system increased, a new 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.**

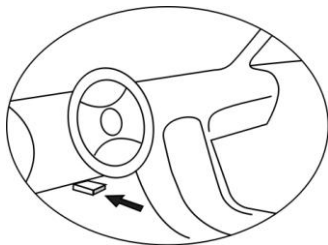
2.2 Diagnostic Trouble Codes (DTCs)

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 consists of a five-digit alphanumeric code. The first character, a letter, identifies which control system sets the code. The other four characters, all numbers, 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:



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 scan tools 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.



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 by all vehicles 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. For different ignition type engines, the available monitors are different too.

The following monitors are to be used for spark ignition engines only:

- 1) **EGR System**
- 2) **O2 Sensors**
- 3) **Catalyst**
- 4) **Evaporative System**
- 5) **O2 Sensor Heater**
- 6) **Secondary air**
- 7) **Heated Catalyst**

The following monitors are to be used for compression ignition engines only:

- 1) **EGR System**
- 2) **NMHC Catalyst**
- 3) **NOx aftertreatment**
- 4) **Boost pressure system**
- 5) **Exhaust gas sensor**
- 6) **PM filter**

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 power-train 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 scan tool 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

Power-train 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 can not turn the MIL off until necessary repairs are completed or the condition no longer exists.

DTC -- Diagnostic Trouble Codes (DTC) that identify 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.

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 vehicle’s Owner’s 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.

3. Using the Scan Tool

3.1 Tool Description



- 1) **CONNECTOR** -- Connects the scan tool to the vehicle's Data Link Connector (DLC).
- 2) **LCD DISPLAY** -- Indicates test results. TFT color display (320 x 240 dpi).
- 3) **FUNCTION BUTTON** – Corresponds with “buttons” on screen for executing commands.

- 4)  **ESC BUTTON** -- Cancels a selection (or action) from a menu or returns to the previous screen.
- 5)  **LEFT SCROLL BUTTON** -- When look up DTC definitions, moves to previous character and views additional information on previous screens if DTC definition covers more than one screen; views previous screen or previous frames of recorded data. It is also used to view previous trouble code when viewing DTCs.
- 6)  **HELP BUTTON** -- Provides help information and Code Breaker function.
- 7)  **DOWN SCROLL BUTTON** -- Moves down through menu and submenu items in menu mode. When more than one screen of data is retrieved, moves down through the current screen to next screens for additional data. When looking up DTC, it is used to change value of selected character.
- 8)  **RIGHT SCROLL BUTTON** -- When look up DTC definitions, moves to next character and view additional information on next screens if DTC definition covers more than one screen; views next screen or next frames of recorded data.. It is also used to view next trouble code when viewing DTCs.
- 9)  **OK BUTTON** -- Confirms a selection (or action) from a menu.
- 10)  **UP SCROLL BUTTON** -- Moves up through menu and submenu items in menu mode. When more than one screen of data is retrieved, moves up through the current screen to the previous screens for additional data. When looking up DTC, it is used to change value of selected character.
- 11) **USB CONNECTOR** -- Connects the scan tool to the PC for printing.
- 12) **MICRO SD CARD SLOT** – Holds the Micro SD card.

3.2 Specifications

- 1) Display: TFT color display (320 x 240 dpi)
- 2) Operating Temperature: 0 to 60 °C (32 to 140 °F)
- 3) Storage Temperature: -20 to 70 °C (-4 to 158 °F)
- 4) External Power: 12.0 to 18.0 V power provided via vehicle battery.
- 5) Dimensions:

Length	Width	Height
199 mm (7.83")	104.5 mm (4.11")	37.5 mm (1.48")
- 6) Weight: 0.28kg(without wire) 0.484kg(with wire)

3.3 Accessories Included

- 1) **User's Manual** -- Instructions on tool operations.
- 2) **CD** -- Includes user's manual, PC Suit software, and etc.
- 3) **OBD2 cable** -- Provides power to tool and communicates between tool and vehicle.
- 4) **USB cable** -- Used to print retrieved data.
- 5) **Micro SD card** -- Used to store the data and to upgrade the scan tool
- 6) **Protective nylon case** -- Used to store the scan tool when not in use.

3.4 Keyboard

No solvents such as alcohol are allowed to clean the keypad or display. Use a mild nonabrasive detergent and a soft cotton cloth. Do not soak the keypad as the keypad is not waterproof.

3.5 Power

During vehicle testing, power for the scan tool is usually provided through the OBDII cable connecting to vehicle Data Link Connector (DLC). Just follow the steps below to turn on the scan tool:

- 1) Connect the Cable to 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 OBD2 cable.*
- 3) Plug the cable to the vehicle's DLC.
- 4) Power up the scan tool , and wait for the **Main Screen** to appear.(Figure 3.1)

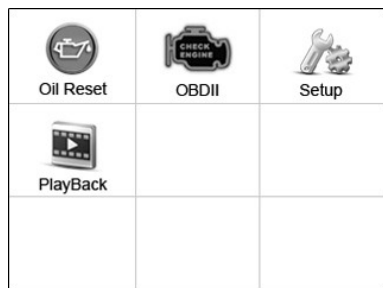


Figure 3.1

3.6 System Setup

The System Setup functions allow you to adjust default settings and view information about the scan tool.

- 1) **Language:** Selects the desired language.
 - 2) **Unit of measure:** Sets the unit of measure to English or Metric.
 - 3) **Beep Set:** Turns on/off beep.
 - 4) **LCD Test:** Checks if the LCD display is working properly.
 - 5) **Key Test:** Checks if the keyboard is working properly.
 - 6) **About:** Provides information of the scan tool.
- *Settings of the unit will remain until change to the existing settings is made.*

To enter the Setup menu

From the **Main Screen**: Use **LEFT/RIGHT** scroll button and **UP/DOWN** scroll button to select **Setup**, and press the **OK** button. Following the instructions to do adjustments and settings could make your diagnosis more conveniently and easily. (Figure 3.2)

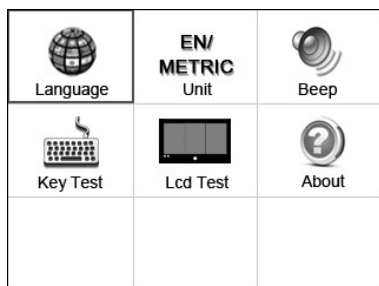


Figure 3.2

Language Setup

- *English is the default language.*
- 1) From **System Setup** screen, use the **UP/DOWN** scroll button and **LEFT/RIGHT** scroll button to select **Language**, and press the **OK** button.
 - 2) Use the **UP/DOWN** scroll button to select the desired language and press the **OK** button to save your selection and return to previous screen. (Figure 3.3)



Figure 3.3

Unit of Measure

- *Metric is the default measurement unit.*
- 1) From **System Setup** screen, use the **LEFT/RIGHT** scroll button to select **EN/METRIC** and press the **OK** button.
 - 2) From **Unit of Measure** screen, use the **LEFT/RIGHT** scroll button to select the desired unit of measurement. (Figure 3.4)

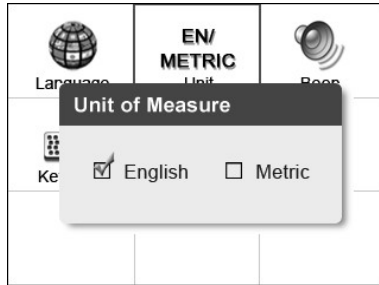


Figure 3.4

- 3) Press the **OK** button to save your selection and return to previous menu. Or, press the **ESC** button to exit without saving.

Beep Set

- *The default setting is Beep On.*
- 1) From **System Setup** screen, use the **UP/DOWN** scroll button and **LEFT/RIGHT** scroll button to select **Beep** and press the **OK** button.
 - 2) From **Beep Set** menu, use the **LEFT/RIGHT** scroll button to select ON or OFF to turn on/off the beep. (Figure 3.5)
 - 3) Press the **OK** button to save your selection and return to previous menu. Or, press the **ESC** button to exit without saving.

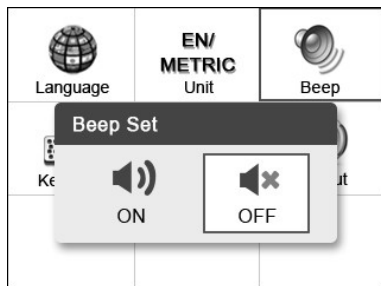


Figure 3.5

Key Test

The Key Test function checks if the keyboard is working properly.

- 1) From **System Setup** screen, use the **UP/DOWN** scroll button and **LEFT/RIGHT** scroll button to select **Key Test**, and press the **OK** button.
- 2) Press any key to start test. When you press a key, the edge around corresponding key on the screen should turn to red. Otherwise, the key is not functioning properly.
- 3) Double press **ESC** to return to previous menu.

LCD Test

The **LCD Test** function checks if the LCD display is working normally.

- 1) From **System Setup** screen, use the **UP/DOWN** scroll button and **LEFT/RIGHT** scroll button to select **LCD Test**, and press the **OK** button.
- 2) Look for missing spots in the red, green, blue, black and white LCD display.
- 3) When completed, press the **ESC** button to exit.

About

The **About** function allows viewing of some important information such as serial number and software version number of the scanner.

- 1) From **System Setup** screen, use the **UP/DOWN** scroll button and **LEFT/RIGHT** scroll button to select **About** and press the **OK** button; wait for the **About** screen to appear.
- 2) View tool information on screen. (Figure 3.6) Press the **ESC** button to exit without saving.



Figure 3.6

3.7 Vehicle Coverage

The MaxiService[®] OLS301 Scanner is specially designed to work with all OBD II compliant vehicles, including those equipped with universal 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.

3.8 Product Troubleshooting

Vehicle Linking Error

A communication error occurs if the scan tool fails to communicate with the vehicle's ECU (Engine Control Unit). You need to do the following to check up:

- ✓ Verify that the ignition is ON.
- ✓ Check if the scan tool's connector is securely connected to the vehicle's DLC.
- ✓ Turn the ignition off and wait for about 10 seconds. Turn the ignition back to on and continue the testing.
- ✓ Verify the control module is not defective.

Operating Error

If the scan tool freezes, then an exception occurs or the vehicle's ECU (Engine Control Unit) is too slow to respond to requests. You need to do the following to reset the tool:

- ✓ Reset the scan tool.
- ✓ Turn the ignition off and wait for about 10 seconds. Turn the ignition back to on and continue the testing.

Scan tool doesn't power up

If the scan tool won't power up or operates incorrectly in any other way, you need to do the following to check up:

- ✓ Check if the scan tool's connector is securely connected to the vehicle's DLC;
- ✓ Check if the DLC pins are bent or broken. Clean the DLC pins if necessary.
- ✓ Check vehicle battery to make sure it is still good with at least 8.0 volts.

4. Playback Data

The **Playback Data** function allows viewing data from last test recorded by the scan tool.

4.1 Reviewing Data

- 1) Use the **UP/DOWN** scroll button and **LEFT/RIGHT** scroll button to select **Playback** from **Main Screen** (Figure 3.1), and press the **OK** button. Wait for the **Review data** screen to appear.



Figure 4.1

- 2) To review data saved in the scan function, select **Scan** in the **Review data** menu. To review data saved in the Oil Reset function, select **OilReset** in the **Review data** menu. Then press **OK** button to continue.
- 3) Use the **UP/DOWN** scroll button to select the desired item from **Scan** menu or **Oil Reset** menu, and press the **OK** button.

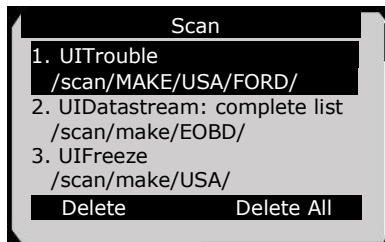


Figure 4.2

- If no data from previously tested vehicle is recorded, a message “**No data available!**” shows on the screen.
- 4) Review selected data on screen.

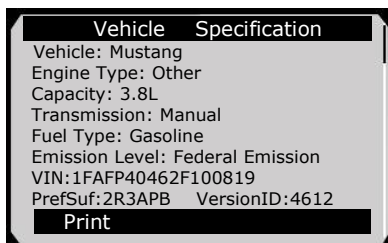


Figure 4.3

4.2 Deleting Data

By selecting **Delete** on the **Scan/ OilReset** screen, you are allowed to erase the selected data on the scan tool. Review the recordings thoroughly before erasing. You could also erase all recordings by select **Delete All**.

NOTE: *Don't use **Delete All** unless you are definitely sure what you are going to proceed.*

4.3 Printing Data

Print option allows you to print the recorded files to your computer and then to the printer.

For more details, please refer to chapter **6.1 Print Data**.

5. OBDII Diagnostics

The OBD II Diagnostics function is a fast-access option that allows you to carry out a quick test on the engine system of OBD II vehicles.

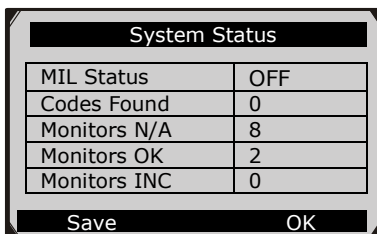
When more than one vehicle control module is detected by the scan tool, you will be prompted to select the module where the data may be retrieved. The most often to be selected are the Power-train Control Module [PCM] and Transmission Control Module [TCM].

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 the scan tool cable connector into the vehicle's DLC.
 - 4) Turn the ignition on. Engine can be off or running.
 - 5) Turn on the scan tool. Select **OBDII** from the **Main Screen**. (Figure 3.1)
 - 6) Press the **OK** button to wait for the Menu to appear. A sequence of messages displaying the OBDII protocols will be observed on the display until the vehicle protocol is detected.
- ***If the scan tool fails to communicate with the vehicle's ECU (Engine Control Unit) more than three times, a "LINKING ERROR!" message shows up on the display.***
 - ✓ Verify that the ignition is ON.
 - ✓ Check if the scan tool's OBD II connector is securely connected to the vehicle's DLC.
 - ✓ Verify that the vehicle is OBD2 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 does not go away, then there might be problems for the scan tool to communicate with***

the vehicle. Contact your local distributor or the manufacturer's customer service department for assistance.

- 7) View a summary of system status (MIL status, DTC counts, Monitor status) on screen. (Figure 5.1) Press **ESC** button for **Diagnostic Menu** (Figure 5.3) to come up.

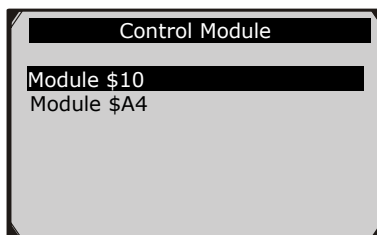


System Status	
MIL Status	OFF
Codes Found	0
Monitors N/A	8
Monitors OK	2
Monitors INC	0

Save OK

Figure 5.1

- If more than one module is detected, you will be prompted to select a module before testing. (Figure 5.2)



Control Module	
Module \$10	
Module \$A4	

Figure 5.2

- Use the **UP/DOWN** scroll button to select a module and press the **OK** button.

5.1 Read Codes

- ◆ *Reading Codes can be done with the key on engine off (KOEO) or with the key on engine running (KOER).*
- ◆ *Stored Codes are also known as “hard codes”, which are fault codes, or trouble codes that have been stored in the vehicle computer memory because the faults have reoccurred for*

more than a specified amount of key-cycles. These codes will cause the control module to illuminate the malfunction indicator light (MIL) when emission-related fault occurs.

- ◆ *Pending Codes are also referred to as “maturing codes” or “continuous monitor codes”. They indicate problems that the control module has detected during the current or last driving cycle but are not considered serious yet. Pending Codes will not turn on the malfunction indicator lamp (MIL). If the fault does not occur within a certain number of warm-up cycles, the code clears from memory.*
 - ◆ *Permanent Codes are DTCs that are "confirmed" and are retained in the non-volatile memory of the computer until the appropriate monitor for each DTC has determined that the malfunction is no longer present and is not commanding the MIL on. Permanent DTC shall be stored in non-volatile memory and may not be erased by any diagnostic services or by disconnecting power to ECU.*
- 1) Use **UP/DOWN** scroll button to select **Read Codes** from **Diagnostic Menu** and press **OK** button. (Figure 5.3)

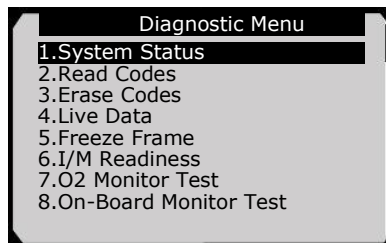


Figure 5.3

- 2) Use the **UP/DOWN** scroll button to select **Stored Codes**, **Pending Codes** or **Permanent Codes** from the **Read Codes** menu and press the **OK** button. (Figure 5.4)

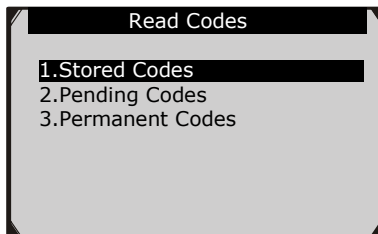


Figure 5.4

- If there is not any Diagnostic Trouble Code, the display indicates “**No (pending) codes are stored in the module!**” Wait a few seconds or press any key to return to previous screen.
- ✎ **NOTE: Permanent Codes function is available for merely vehicles supporting the CAN protocols.**
- 3) View DTCs and their definitions on screen.
- 4) If more than one DTC is found, use the **UP/DOWN** scroll button to check all the codes.
- If retrieved DTCs contain any manufacturer specific or enhanced codes, a “Manufacturer specific codes are found! Press any key to select vehicle make!” message comes up prompting you to select vehicle manufacturer to view DTC definitions. Use **UP/DOWN** scroll button to select manufacturer and then press **OK** button to confirm.

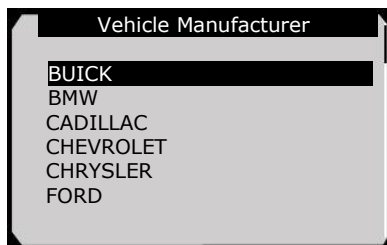


Figure 5.5

- If the manufacturer of your vehicle is not listed, use the **UP/DOWN** scroll button to select **Other** and press the **OK** button.

5.2 Erase Codes

CAUTION: Erasing the Diagnostic Trouble Codes may allow the scan tool to delete not only the codes from the vehicle's on-board computer, but also "Freeze Frame" data and manufacturer specific 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.

- ✎ **NOTE:** Erasing codes does not mean that trouble codes in ECU have been eliminated completely. As long as there is fault with the vehicle, the trouble codes keeps on presenting.
- ◆ This function is performed with key on engine off (KOEO). Do not start the engine.

- 1) Use the **UP/DOWN** scroll buttons to select **Erase Codes** from **Diagnostics Menu** and press the **OK** button. (Figure 5.3)
- 2) After you have pressed **OK** button, a message will come up asking you to check the ignition and engine status. (Figure 5.6)

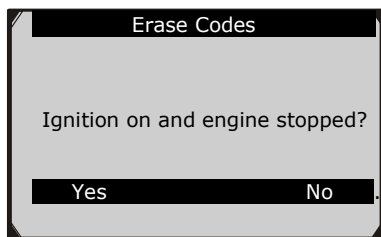


Figure 5.6

- 3) If you press **Yes** function key or **OK** button, a warning message will come up asking your confirmation. (Figure 5.7)

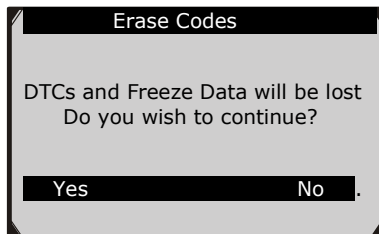


Figure 5.7

- If you do not want to proceed with erasing codes, press **ESC** button or select **NO** to exit and return to previous screen.
- 3) Press the **OK** button to confirm.
- If the codes are cleared successfully, an “Erase Done!” confirmation message shows on the display.(Figure 5.7)

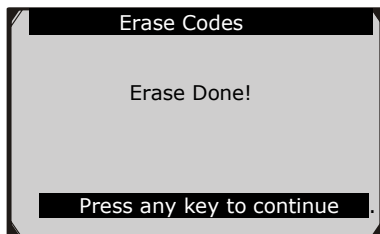


Figure 5.7

- If the codes are not cleared, then an “Erase Failure. Turn Key on with Engine off!” message appears. (Figure 5.8)

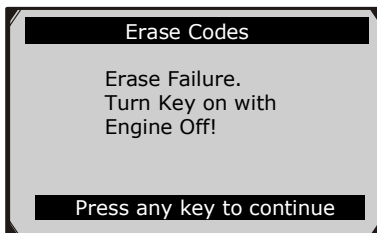


Figure 5.8

- 4) Press any button to return to **Diagnostic Menu**.

5.3 Live Data

In this function, you can not only read the live data but also record data for later review.

Viewing Data

The View Data function allows viewing of live or real time PID data of vehicle's computer module(s).

- 1) To view live data, use the **UP/DOWN** scroll button to select **Live Data** from **Diagnostic Menu** and press the **OK** button. (Figure 5.3)
- 2) Wait a few seconds while the scan tool validates the PID MAP. (Figure 5.9)

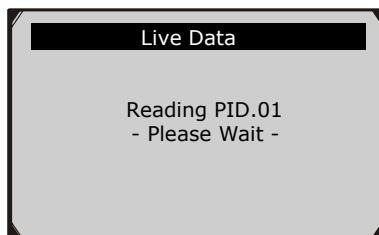


Figure 5.9

A. Viewing Complete List

- 1) To view complete set of data, use **UP/DOWN** scroll button to select **Complete List** from **Live Data** menu and press the **OK** button. (Figure 5.10)

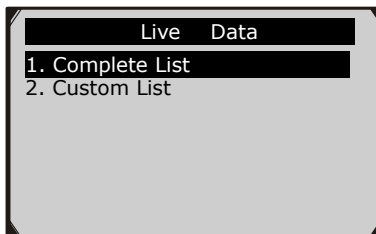


Figure 5.10

- 2) View live PIDs on the screen. Use the **UP/DOWN** scroll button for more PIDs if additional information is available on more than one page.(Figure 5.11)

 A screenshot of a handheld device's 'Complete List' screen. The title 'Complete List' is at the top. Below it is a table with three columns. The first column contains parameter names, the second column contains values, and the third column contains units. At the bottom, there are three buttons: 'Pause', 'Graphics', and 'Save'.

Complete List		
Numbers of DTCs	0	
Fuel system 1 status	OL	
Fuel system 2 status	--	
Calculated load value	0.0	%
Engine coolant temperature	-40	°C
Pause Graphics Save		

Figure 5.11

- If the “**Graphics**” on the bottom appears when a PID is highlighted, graphic information is available. Select **Graphics** to view graph. (Figure 5.12). PID name, current value, maximum and minimum values are displayed on the screen.

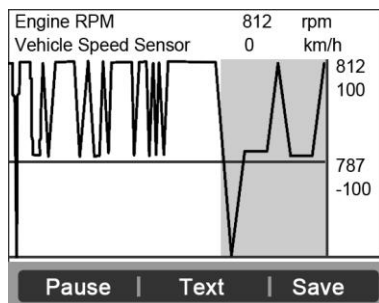


Figure 5.12

- If the “**Merge Graph**” on the bottom appears when a PID is selected to view, merged graph information is available. (Figure 5.13)
- ☑ **NOTE:** *Merge Graph* can be used to compare two related parameters in graphic mode, which is especially convenient in the **Custom List** option where you could select two interacted parameter to merge and see their relationship.

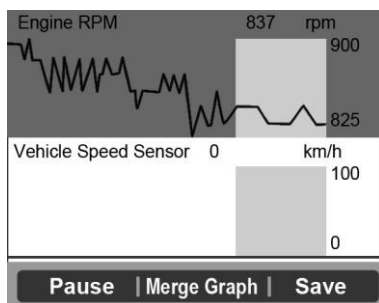


Figure 5.13

- Select **Text** to return to text viewing of PID data.
- Select **Save** to record retrieved live data and PID graphs.

- Select **Pause** to suspend viewing. You could resume the viewing process again by selecting **Start**.

3) Press the **ESC** button to return to previous menu.

B. Viewing Custom List

- 1) To view customized PID data, use the **UP/DOWN** scroll button to select **Custom List** from **Live Data** menu and press the **OK** button.(Figure 5.10)
- 2) Use the **UP/DOWN** scroll button to move up and down to the desired items and click **Select** button to confirm. The selected parameters are marked with solid squares.(Figure 5.14)

Custom List		
<input checked="" type="checkbox"/>	Numbers of DTCs	1
<input checked="" type="checkbox"/>	Fuel system 1 status	2
<input type="checkbox"/>	Fuel system 2 status	
<input type="checkbox"/>	Calculated load value	
<input type="checkbox"/>	Engine coolant temp	
Select All Clear Clear all		

Figure 5.14

- The number to the right of selected item indicates sequence of this item.
 - If you want to deselect the item, press **Clear** button.
 - To select all the items on the screen, press **Select All** button. To clear all the selected items on the screen, press **Clear All** button.
- 3) Press the **OK** button to view selected PIDs on screen.

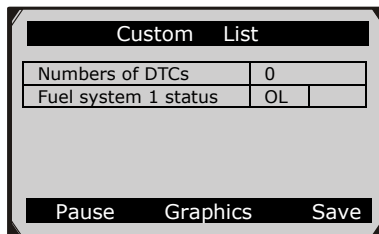


Figure 5.15

- 4) Use the ESC button to return to previous menu.

Recording Data

The Record Data function allows recording vehicle modules' Parameter Identification (PID) data to help diagnose intermittent vehicle problems. You could save data files to the SD card and then use the Playback function to view the saved files.

NOTE: The length of time for each frame varies per vehicle. Generally, one frame of data is about 1/4 second, or 4 frames per second.

- 1) To record live data, with the live data screen displaying, select **Save** on the bottom. The scan tool will start timing to record retrieved live data and PID graphs.
 - If you record live data under text mode, following screen shows:

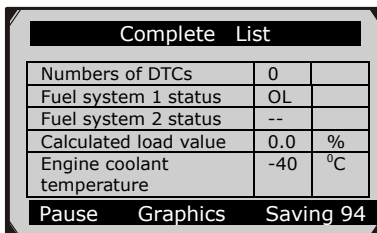


Figure 5.16

- If you record live data under graph mode, following screen shows:

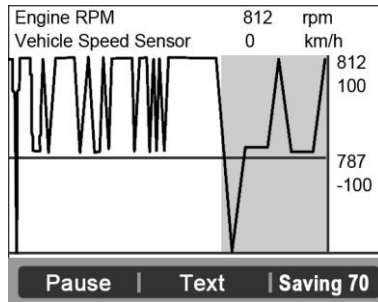


Figure 5.17

NOTE: The scan tool can only playback text data even though the data is saved in graphic mode.

- 2) When there is not enough memory space, a warning message prompting to delete previously recorded data.

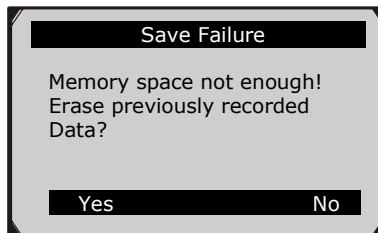


Figure 5.18

- If you wish to delete the data, select **Yes** and save currently retrieved data in the SD card.
- If you do not wish to delete the data, select **No** to return to previous screen.

- 3) Select **Pause** to suspend recording. You could resume the recording process again by selecting **Start**.
- 4) You may review the saved data in **Playback** function.
- 5) Press **ESC** button to exit.

5.4 Freeze Frame

Freeze Frame Data allows the technician to view the vehicle’s operating parameters at the moment a **DTC (Diagnostic Trouble Code)** is detected. For example, the parameters may include engine speed (RPM), engine coolant temperature (ECT), or vehicle speed sensor (VSS) etc. This information will aid the technician by allowing the parameters to be duplicated for diagnostic and repair purposes.

- 1) To view freeze frame data, use the **UP/DOWN** scroll button to select **Freeze Frame** from **Diagnostic Menu** and press the **OK** button. (Figure 5.3)
- 2) Wait a few seconds while the scan tool validates the PID MAP.
- 3) If retrieved information covers more than one screen, use the **DOWN** scroll button, as necessary, until all the data have been shown up. (Figure 5.19)

Freeze Frame		
DTC that caused required freeze frame data storage	P0193	
Fuel system 1 status	OL	
Fuel system 2 status	--	
Calculated load value	0.0	%
Engine coolant temperature	-40	°C
Save		

Figure 5.19

- If there is no available freeze frame data, an advisory message “**No freeze frame data stored!**” shows on the display.

- 4) Select **Save** to record freeze frame. A confirming message “**Save success!**” shows on the display and scan tool return to previous menu.
- 5) If you don't want to save the freeze frame data, press **ESC** button to return to previous screen.

5.5 Retrieving I/M Readiness Status

I/M Readiness function is used to check the operations of the Emission System on OBD2 compliant vehicles. It is an excellent function to use prior to having a vehicle inspected for compliance to a state emissions program.

CAUTION - By clearing trouble codes you also clear the readiness status for the individual emission system readiness tests. In order to reset these monitors, the vehicle must be driven through a complete drive cycle with no trouble codes in memory. Times for reset vary depending on vehicle.

Some latest vehicle models may support two types of **I/M Readiness** tests:

- A. ***Since DTCs Cleared*** - indicates status of the monitors since the DTCs are erased.
- B. ***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 the **UP/DOWN** scroll button to select **I/M Readiness** from **Diagnostic Menu** and press **OK** button. (Figure 5.3)
- 2) Wait a few seconds while the scan tool validates the PID MAP.
- 3) If the vehicle supports both types of tests, then both types will be shown on the screen for selection. (Figure 5.20)

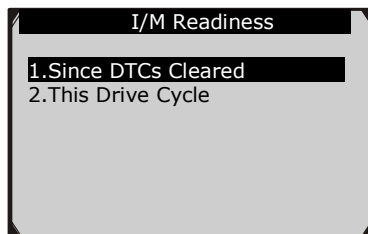


Figure 5.20

- 4) Use the **UP/DOWN** scroll button, as necessary, to view the status of the MIL light (“**ON**” or “**OFF**”) and the following monitors:

For spark ignition engines:

- **MIS** -- Misfire Monitor
- **FUEL** -- Fuel System Monitor
- **CCM** -- Comprehensive Component Monitor
- **EGR** – EGR System Monitor
- **O2S** -- O2 Sensors Monitor
- **CAT** -- Catalyst Monitor
- **EVAP** -- Evaporative System Monitor
- **HTR** -- O2 Sensor Heater Monitor
- **AIR** -- Secondary Air Monitor
- **HCAT** -- Heated Catalyst Monitor

For compression ignition engines:

- **MIS** -- Misfire Monitor

- **FUEL** -- Fuel System Monitor
- **CCM** -- Comprehensive Component Monitor
- **EGR** – EGR System Monitor
- **HCCAT** -- NMHC Catalyst Monitor
- **NCAT** -- NOx Aftertreatment Monitor
- **BP** -- Boost Pressure System Monitor
- **EGS** -- Exhaust Gas Sensor Monitor
- **PM** -- PM Filter Monitor

Since DTCs cleared		
MIL Status	OFF	
Misfire Monitoring	N/A	
Fuel system monitoring	OK	
Comprehensive component monitoring	OK	
Catalyst monitoring	N/A	
Heated catalyst monitor	N/A	

Figure 5.21

- 5) If the vehicle supports readiness test of “**This Drive Cycle**”, a screen of the following displays: (Figure 5.22)

This Drive Cycle		
MIL Status	OFF	
Misfire Monitoring	N/A	
Fuel system monitoring	OK	
Comprehensive component monitoring	OK	

Figure 5.22

- 6) Use the **UP/DOWN** scroll button for more PIDs if additional information is available on more than one page. Or use the **LEFT/RIGHT** scroll button to view PIDs in the previous/next page.

- 7) Press the **ESC** button to return to **Diagnostic Menu**.

5.6 O2 Monitor Test

OBD2 regulations set by SAE require that relevant vehicles monitor and tests on the oxygen (O2) sensors to identify problems related to fuel efficiency and vehicle emissions. These tests are not on-demand tests and they are done automatically when engine operating conditions are within specified limits. These test results are saved in the on-board computer's memory.

The O2 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.

The O2 Monitor Test function is not supported by vehicles which communicate using a controller area network (CAN). For O2 Monitor Test results of CAN-equipped vehicles, see chapter “On-Board Mon. Test”.

- 1) Use the **UP/DOWN** scroll button to select **O2 Monitor Test** from **Diagnostic Menu** and press **OK** button. (Figure 5.3)
- 2) Wait a few seconds while the scan tool validates the PID MAP.
- 3) Use the **UP/DOWN** scroll button to select O2 sensor from **O2 Monitor Test** menu and press **OK** button. (Figure 5.23)

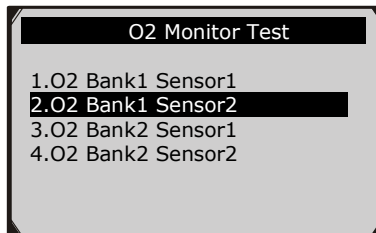


Figure 5.23

- If the vehicle does not support the mode, an advisory message will be displayed on the screen. (Figure 5.24)

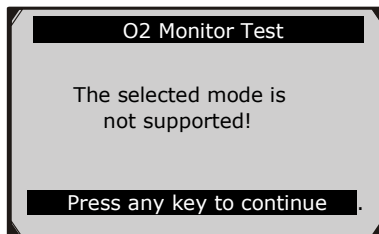


Figure 5.24

- 4) View test results of selected O2 sensor. (Figure 5.25)

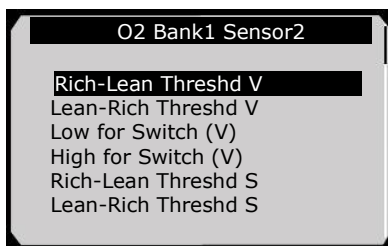


Figure 5.25

- 5) Use the **UP/DOWN** scroll button to view more screens of data if additional information is available in more than one page.
- 6) Press the **ESC** button to return to the previous menu.

5.7 On-Board Monitor Test

The On-Board Monitor Test is useful after servicing or after erasing a vehicle's control module memory. The On-Board Monitor Test for non-CAN-equipped vehicles retrieves and displays test results for emission-related power train components and systems that are not continuously monitored. The On-Board Monitor Test for CAN-equipped vehicles retrieves and displays test results for emission-related power train components and systems that are and are not continuously monitored. Test and components IDs are determined by the vehicle manufacturer.

In this test, there are typically a minimum value, a maximum value,

and a current value for each monitor. By comparing the current value with the minimum and maximum value, the scan tool will determine if it is OK.

- 1) Use the **UP/DOWN** scroll button to select **On-Board Monitor Test** from **Diagnostic Menu** and press the **OK** button. (Figure 5.3)
- 2) Wait a few seconds while the scan tool validates the PID MAP.
- 3) The scan tool will prompt you to select the vehicle make. (If you have selected the vehicle before, the **Vehicle Manufacturer** screen would not appear again)

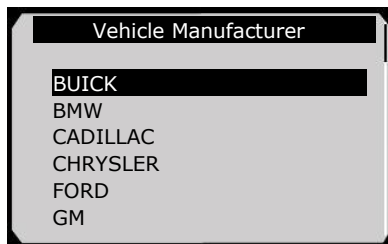


Figure 5.26

- 4) After you select the vehicle manufacturer, the scan tool shows the On-Board Monitors tests for specific monitoring systems.
- 5) From **On-Board Monitor Test** menu, use the **UP/DOWN** scroll button to select a test to view and press the **OK** button. (Figure 5.27)

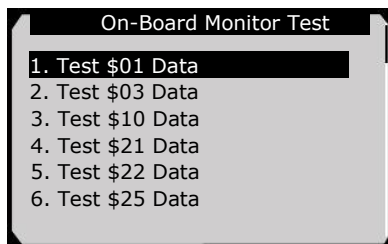


Figure 5.27

- If the vehicle under test does not support the mode, an advisory message will be displayed on the screen. (Figure 5.28)

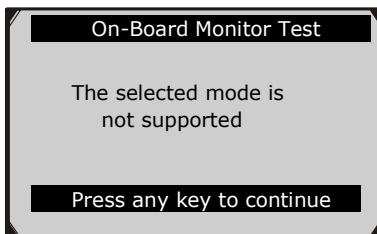


Figure 5.28

- For CAN-equipped vehicles, test selections can be as below:

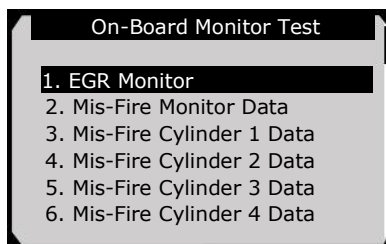


Figure 5.29

- 6) Use the **UP/DOWN** scroll button to select the desired monitor from **On-Board Monitor Test** menu and press the **OK** button.
- 7) View test data on screen.

Test \$01 Data		
ID	11	
Module	\$10	
Test Value	0400	
Min Limit	0200	
Max Limit	----	
Status	OK	

Figure 5.30

- For CAN-equipped vehicles, test results displayed can be as below:

Flow Test		
ID	11	
Module	\$10	
Test Value	0.10	%
Min Limit	0.00	%
Max Limit	95.0	%
Status	OK	

Figure 5.30

- 8) Press **ESC** button to return to the previous menus.

5.8 Component Test

The **Component Test** function allows initiating 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 have 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 the **UP/DOWN** scroll button to select **Component Test** from **Diagnostic Menu** and press the **OK** button. (Figure 5.3)
- 2) Wait for the scan tool to display the **Component Test** menu.

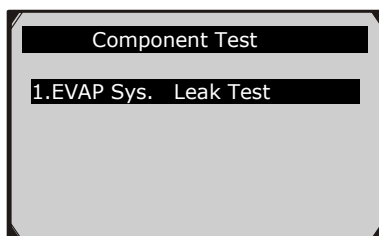


Figure 5.32

- 3) If the test has been initiated by the vehicle, a confirmation message will be displayed on the screen.

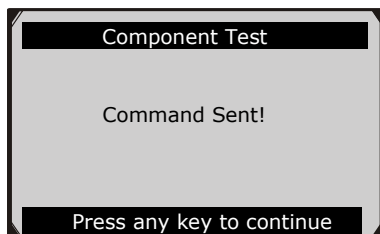


Figure 5.33

- Some vehicles do not allow scan tools to control vehicle systems or components. If the vehicle under test does not support the EVAP Leak Test, an advisory message is displayed on the screen.

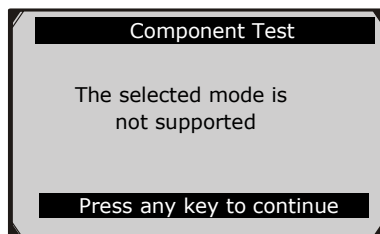


Figure 5.34

- 4) Wait a few seconds or press any key to return to previous screen.

5.9 Viewing Vehicle Information

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

- 1) Use **UP/DOWN** scroll button to select **Vehicle Info.** from the **Diagnostic Menu** and press **OK** button. (Figure 5.3)

- 2) An advisory message comes up to remind you. Wait a few seconds or press any key to continue.



Figure 5.35

- 3) Wait for the scan tool to display the **Vehicle Info.** menu.

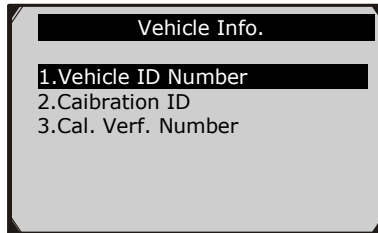


Figure 5.36

- If the vehicle does not support this mode, a message shows on the display warning that the mode is not supported.
- 4) From **Vehicle Info.** menu, use the **UP/DOWN** scroll button to select an available item to view and press the **OK** button.
 - 5) View retrieved vehicle information on screen.

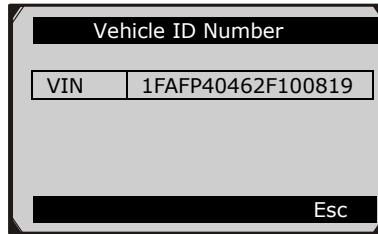


Figure 5.37

- 6) Press the **ESC** button to return previous menu

5.10 Modules Present

The Modules Present function allows viewing of the module IDs and communication protocols for OBD2 modules in the vehicle.

- 1) Use the **UP/DOWN** scroll button to select **Modules Present** from **Diagnostic Menu** and press **OK** button. (Figure 5.3)
- 2) View modules present with their IDs and communication protocols.

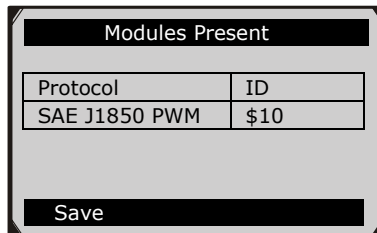


Figure 5.38

- 3) Select **Save** to save the modules data and return to previous menu. Or press **ESC** button to exit.

5.11 DTC Lookup

The **DTC Lookup** function allows user to search definitions of **DTC** stored in built-in **DTC** library.

- 1) Use the **UP/DOWN** scroll button to select **DTC Lookup** from **Diagnostic Menu** and press **OK** button. (Figure 5.3)
- 2) Wait for the scan tool to display the **DTC Lookup** screen.

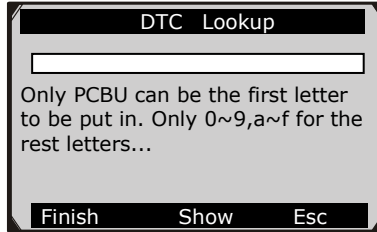


Figure 5.39

- 3) Select **Show** and a soft keyboard will pop up. Use **LEFT/RIGHT** button and **UP/DOWN** button to move to the desired character, then press **OK** button to confirm.
- 4) After you input the DTC code, select **Finish** and the scan tool will display this code's definition on screen.

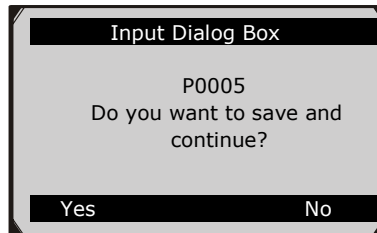


Figure 5.40

- 5) Press **Yes** or **OK** button to proceed. The scan tool will display DTC definition as below.

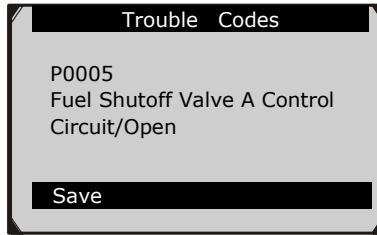


Figure 5.41

- Use the **LEFT/RIGHT** scroll button to view the previous / next DTC.
 - Select **Save** to record code definition.
 - For manufacturer specific codes, you need to select a vehicle make on an additional screen to look for DTC definitions.
 - If definition could not be found (SAE or Manufacturer Specific), the scan tool displays “**Please refer to vehicle service manual!**”
- 6) Press **No** or **ESC** button to return to previous menu.

6. Print and Update

6.1. Print Data

The **Print Data** function allows printing out diagnostic data recorded by the scan tool or customized test reports by connecting the scan tool to a PC or laptop with the USB cable supplied.

- *To print out retrieved data, you need the following tools:*

MaxiService[®]OLS301 scan tool

A PC or laptop with USB ports

A USB cable

- 1) Install **PC Suit** through the included CD, or download the applications in our website: www.auteltech.com or our distributors' site.
- 2) Connect the scanner to computer with the USB cable supplied.
- 3) Run **Printer** software on computer.
- 4) Select **Playback** function in **Main Screen** of the scan tool. In **Scan** screen, use the **UP/DOWN** scroll button to select the files you want to print. Wait for the reviewing window to display (Figure 4.2), then select **Print** function on the bottom. The selected file will be uploaded to your computer. For more detailed instructions, please refer to **4. Playback Data**.
- 5) The **Printer** will show as below.



Figure 6.1

- 6) The selected data will display on the textbox of **Printer**. By selecting the function keys on the right, you could execute the following operations:
- **Print** – Print all data in the textbox to a printer connected to your computer.
 - **Edit** – Once clicked, the software will automatically open an NOTEPAD window with all recorded data showing on.
 - **Copy** – Copy all data in the textbox to the clipboard.
 - **Clear** – Delete all data in the textbox.
 - **Exit** – Quit the operation.
- 7) You are also allowed to edit, copy, and delete the data in the **Printer** window.
- ✍ *NOTE: The scan tool can only print text data even though the data is saved in graphic mode.*

6.2. Software update

This function allows you to update the scan tool software through a computer.

◆ Register the Tool

User would update the scan tool **ONLY** after you had registered the tool on our website: www.maxidas.com. Then you could download software, update online, retrieve information and get warranty service.

✍ *NOTE: Prior to registration, please confirm your network is working properly.*

1. Log on the website www.maxidas.com.
2. Click on the **Update** tool bar at the top of the screen, and then

select **User Register**. Or,

Click on the **Updates** column in the lower right corner of the screen, and select **Register**.

3. The screen of Register Information appears. Please read through the instructions, and click on **Agree** to continue.
4. Put in the Product Serial No. and Register Password, and click on **Next**. (Figure 6.2)
5. Follow the instructions on screen to finish the registration.

NOTE: Please use the *About* function to find out the Product Serial No. and Register Password. For details, please refer to the Section 3.6 System Setup.

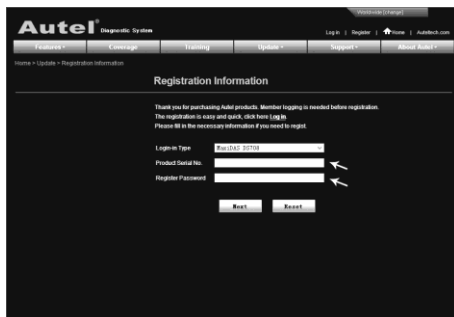


Figure 6.2

◆ Update Procedure

Autel frequently releases software updates that you can download. The Update feature makes it very easy to determine and get exactly what you need.

1. Install **PC Suit** through the included CD, or download the applications in our website: www.auteltech.com or our distributors' site.
2. Make sure that your computer is connected to the Internet.

3. Remove the Micro SD card from the scan tool.
4. Connect the Micro SD card to computer with a card reader
5. Run the update option in **PC Suit** software. Wait for the Log In window to pop up. (Figure 6.3)

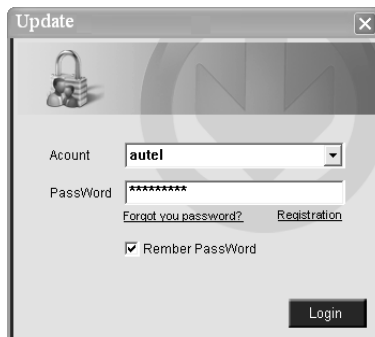


Figure 6.3

6. Put in the user name and password and wait for the Update window to display. If you forget your password unintentionally, you may always click the [**Forget your password?**] to link to our website and find your password back.
7. In the Update window, select the items you want to install. Usually, you should install all available updates.

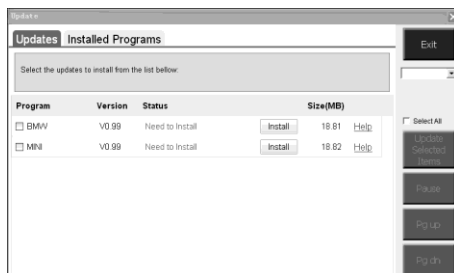


Figure 6.4

Generally, there are two ways to update programs:

Batch updating

- Select the programs that you would update by clicking on the check boxes next to those items. Then click the **Update Selected Items** button on the right side of screen.
- Or, click on the SELECT ALL checkbox on the right side of screen and all updatable items will be selected automatically. Then click the **Update Selected Items** button on the right side of screen.
- Check the updating process by observing the upper left progress bar [downloading] and upper right progress bar [installing]. You may also find progress information in the Status column of updated items.
- Anytime you could click the **Pause** button on the right side of screen to suspend all progresses, and the state of those suspended items would change to STOPPED.
- To resume updating process, you may need to select those suspended items again, then click the **Update Selected Items** button. The progress will resume from the break point.
- When the downloading is completed, the downloaded programs will be installed automatically. The new version will replace the old version.

Single updating

- Find the desired updating item and click the **INSTALL** button in the same line. With updating in progress, the **INSTALL** button changes to **STOP**.
- Check the updating process by observing the upper left progress bar [downloading] and upper right progress bar [installing]. You may also find progress information in the Status column of updated items.
- Anytime you could click the **Pause** button in the line to suspend this progress, and the state of this item would change to STOPPED.
- To resume updating process, click the **INSTALL** button in the

line again. The progress will resume from the break point.

- When the downloading is completed, the downloaded program will be installed automatically. The new version will replace the old version.
8. Insert the Micro SD card into the scan tool, and restart the scan tool to finish the whole update.

◆ View or Delete Programs

To view the list of installed programs or to delete an installed program, please follow these steps:

- Click on the Installed Programs tag entry and the page will show the list of programs installed.
- Select the program(s) that you would delete.
 - ✧ **Batch delete:** Select the programs that you would delete by clicking on the check boxes to the left of those items. Then click the **DELETE** button on the right side of screen.
 - ✧ **Single delete:** Click the **UNINSTALL** button in the line of your would-be-deleted program.
- A window asking “**Are you sure to delete the software?**” will pop up for your confirmation.

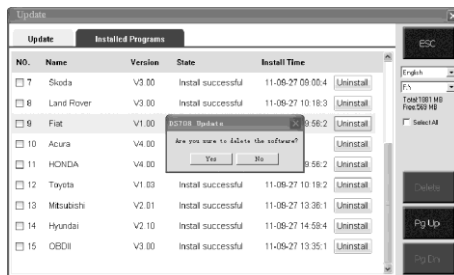


Figure 6.5

- Click on **Yes** to delete the program(s) selected, or on **No** to cancel the action.

- The deleted program will automatically add to the end of program list in the UPDATE page in case you would like to install again.

Theoretically, all programs in latest versions will be automatically compatible with the older versions, but if your scan tool do have a compatible problem and want to retrieve the older version for some programs, you may need to delete them first then install the older version again. Choose older version from the pull-down menu of program version.

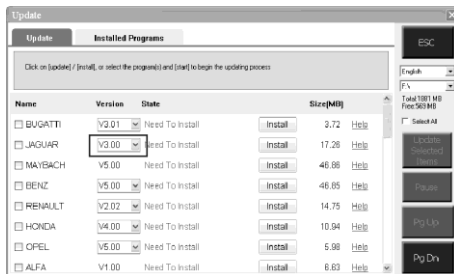


Figure 6.6

7. Oil Reset

7.1 General Information

The Engine Oil Life System calculates when to change the engine oil and filter based on vehicle use. An oil change is required whenever indicated by the display and according to the recommended maintenance schedule. Whenever the oil is changed, reset the system so it can calculate when the next oil change is required. If a situation occurs where the oil is changed prior to a service indicator being turned on, also reset the system.

i ***IMPORTANT:** Always reset the engine oil life to 100% after every oil change.*

🔧 ***NOTE:** All required work must be carried out before the service indicators are reset. Failure to do so may result in incorrect service values and cause DTCs to be stored by the relevant control module.*

🔧 ***NOTE:** For some vehicles, the scan tool can perform added functionality to reset additional service lights (maintenance cycle, service interval). Taking BMW as an example, its service reset function includes engine oil, spark plugs, front/rear brakes, coolant, particle filter, brake fluid, microfilter, vehicle inspection, exhaust emission inspection and vehicle check.*

All software screens shown in this manual are examples, actual test screens may vary for each vehicle being tested. Observe the menu titles and onscreen instructions to make correct option selections.

7.2 Reset Operation

1. Turn the ignition on but do not start the engine.
2. Turn on the scan tool and wait for the **Main Screen** to appear.

3. Select **Oil Reset** icon in the **Main Screen** (Figure 3.1) and wait for the vehicle manufacturer screen. Choose the correct vehicle make.

There are two ways to perform the reset service.

A. Manual Reset

Almost all Asian vehicles and most American and European vehicles can be reset manually by technicians.

NOTE: *In this manner, the scan tool will not communicate with the vehicle being tested.*

To finish this procedure, please follow these steps (Taking Ford as an example):

- 1) From the vehicle make screen, select Ford and press **OK** button.

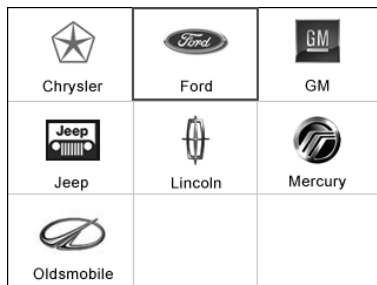


Figure 7.1

- 2) Step by step, select the right options for your vehicle according to each screen that appears.

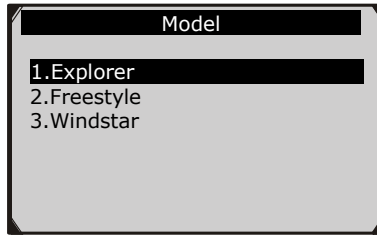


Figure 7.2

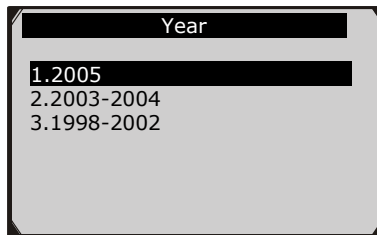


Figure 7.3

- 3) After entering the vehicle information, the scan tool displays manual reset message as below.

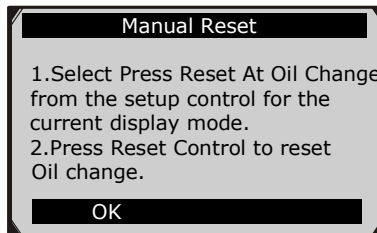


Figure 7.4

- 4) Follow the instructions to reset the service manually.
- 5) Press **ESC** button to exit.

B. Auto Reset

Most American and European vehicles can be reset automatically by the scan tool.

❏ **NOTE:** *In this manner, the scan tool will communicate with the vehicle being tested. If there is a linking error, please refer to 3.8 product troubleshooting.*

To finish this procedure, please follow these steps (Taking Volkswagen as an example):

- 1) From the vehicle make screen, select Volkswagen and press **OK** button.



Figure 7.5

- 2) From the Oil Reset menu, select **Auto Reset** option and press **OK** button.

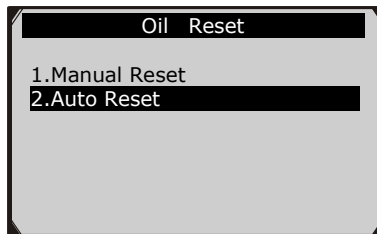


Figure 7.6

- 3) In the Auto Reset menu, there are two options for you to select: **SRI Reset** and **Adaptation**.
- **SRI Reset** function is used to reset the Service Reminder in vehicles so equipped. It will automatically access the Instrument Cluster and retrieve current values stored in the Cluster. It simplifies service reset process and turns off the reminder message or indication in the instrument cluster or on screen display. New values can be entered by the tool.
 - **Adaptation** gives an overview of ALL SRI-relevant Adaptation channels. You could review or enter new values for each individual item.
- 4) From Oil Reset menu (Figure 7.7), select **SRI Reset** function and press **OK** button. Then the screen shows as Figure 7.8.

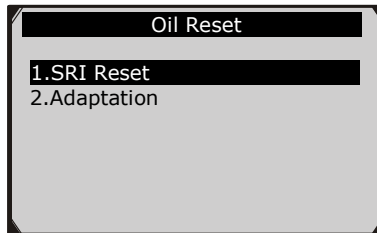


Figure 7.7

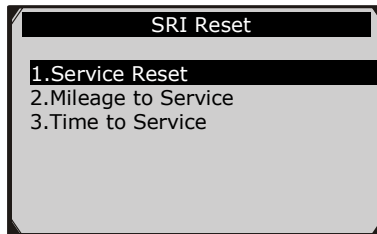
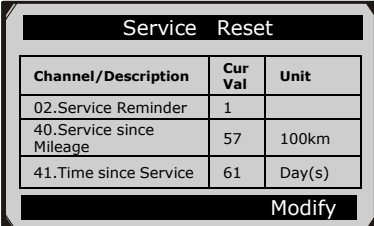


Figure 7.8

- A. From SRI Reset menu (Figure 7.8), select **Service Reset** function and press **OK** button. The screen will display the preset maintenance information of the vehicle. The information items vary with different vehicles.



Service Reset		
Channel/Description	Cur Val	Unit
02.Service Reminder	1	
40.Service since Mileage	57	100km
41.Time since Service	61	Day(s)

Modify

Figure 7.9

Press the corresponding function button for **Modify** to enter a new value for service reminder. Use the three function keys on the bottom of screen to change the value.

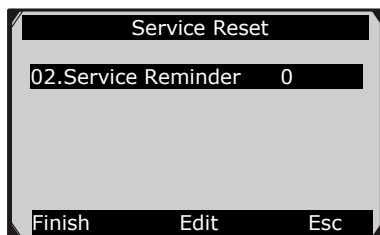


Figure 7.10

[**Finish**] : After entering a new value, use this key to save the value to the ECU.

[**Edit**] : Press this key to pop up a soft keyboard to facilitate your input. (Figure 7.11)

[**Esc**] : Press this key to exit.

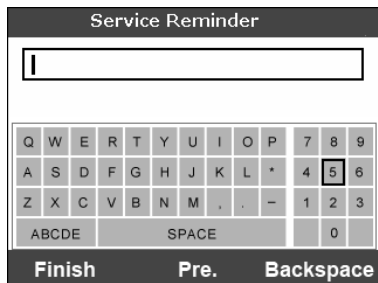


Figure 7.11

The three keyboard function keys work as below.

Finish --- When you finished the input, select this key to confirm your input and exit.

Pre. --- Moves a space to the left.

Backspace --- Uses this key to erase the previous digit or character when typing.

NOTE: *The data you input must be in the reasonable range, which is defined by the preset values in ECU. If you enter a data out of range, the tool will display a warning message.*

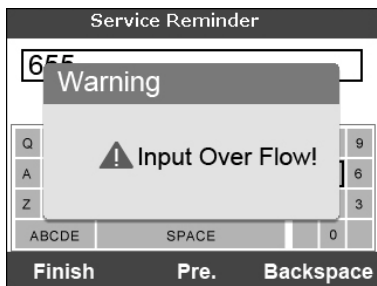


Figure 7.12

- B. From SRI Reset menu (Figure 7.8), select **Mileage to Service** function and press **OK** button. The screen will display the

preset maintenance information of the vehicle. The information items vary with different vehicles. (Figure 7.9)

Press the corresponding function button for **Modify** to enter a new value for service reminder. Use the three function keys on the bottom of screen to change the value.

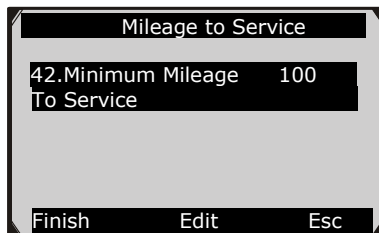


Figure 7.13

- C. From SRI Reset menu (Figure 7.8), select **Time to Service** function and press **OK** button. The screen will display the preset maintenance information of the vehicle. The information items vary with different vehicles. (Figure 7.9)

Press the corresponding function button for **Modify** to enter a new value for service reminder. Use the three function keys on the bottom of screen to change the value.

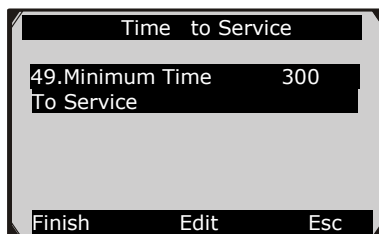


Figure 7.14

- 5) From Oil Reset menu (Figure 7.7), select **Adaptation** function and press **OK** button. Then the screen shows as Figure 7.15.

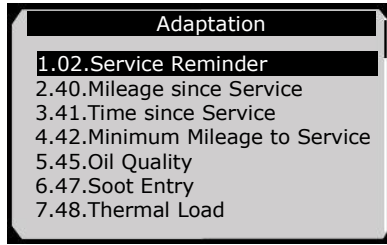


Figure 7.15

The **Adaptation** function lists ALL SRI-relevant Adaptation channels. By selecting individual item, you could review or enter new values as mentioned above.

- 6) After you have finished the service settings, turn the ignition off and on again to set vehicle service data in ECU.

8. Warranty and Service

8.1. Limited One Year Warranty

Autel warrants to its customers that 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 Autel under the Warranty is limited to either the repair or, at the option of Autel, replacement of the 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) Autel shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the 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. Autel 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 or visit our website at www.auteltech.com.

If it becomes necessary to return the scan tool for repair, contact your local distributor for more information.