iCarsoft®

User's Manual
OBDII/EOBD&CAN Auto Diagnostic Tool i820

1. Product Descriptions

① LCD DISPLAY -- Indicates test results.
② BACK BUTTON -- Returns to previous menu.
③ UP BUTTON -- Moves cursor up for selection.
④ DOWN BUTTON -- Moves cursor down for selection.
⑤ LEFT BUTTON -- Moves cursor up for selection.
⑥ RIGHT BUTTON -- Moves cursor down for selection.
⑦ ENTER BUTTON -- Confirms a selection (or action) from a menu list.
⑧ I/M BUTTON -- Reads I/M functions.
⑨ Code BUTTON -- Reads Codes functions.
⑩ WAVEFORM BUTTON -- Draws Waveform for live data.
⑪ HELP BUTTON -- Shows help information for test results or user operation.

2. Specifications
   1) Display: 2.8" TFT LCD, 320*240 Pixels

2) Operation Temperature: 0°C ~ 50°C
3) Storage Temperature: -20°C ~ 70°C
4) Operating Voltage: 9 ~ 18V
5) Operating current: 150mA@12V(Typical)
6) Power consumption: 1.8W(Typical)
7) Dimension: 187.5*101*32 mm (L x W x H)
8) Weight: <600g (GW)

3. Accessories Included
1) User's Manual -- Instructions on tool operations.
2) USB Cable -- Allows easy update via a PC and an internet connection.
3) OBD Main Cable -- Connects tools with Vehicles to use.

4. Product Features
1) Works with all 1996 and newer cars & light trucks that are OBDII compliant (including the CAN, VPW, PWM, ISO and KWP2000 protocols).
2) Reads and clears generic and manufacturer specific Diagnostic Trouble Codes (DTCs) and turns off check engine light.
3) Supports multiple trouble code requests: generic codes, pending codes, permanent codes and manufacturer specific codes.
4) Reviews the emission readiness status of OBD monitors.
5) Retrieves VIN (Vehicle Identification Number) on 2002 and newer vehicle that support Mode 9.
6) Determines the malfunction indicator lamp (MIL) status.
7) DTC Library to lookup when user is operating this tool.
8) O2 Sensor test results for most recently performed tests from the vehicle's on-board computer.
9) Reads the results of on-board diagnostic monitoring tests for specific components/systems.
10) Evaporative System Test lets you initiate a leak test for the vehicle's evaporative system.
11) Saves and Reviews test results like I/M, Codes, Live Data and VIN.
12) Uploads and Prints saved data to PC.
13) Battery test shows the voltage of Data Link Connector(DLC), which is approximately the vehicle's battery status.
14) Easy to use with one plug-in; highly reliable and accurate.
15) Easy to read crystal-clear backlit by display.
16) Stand-alone unit with no need for an additional laptop computer to operate.
17) Safely communicates with the on-board computer.
18) No batteries needed-powered via detachable OBDII cable.

5. Vehicle Coverage
The Diagnostic Tool is specially designed to work on most OBDII compliant vehicles, including Controller 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 OBDII compliant and this includes all American, Asian and European vehicles.

A small number of 1994 and 1995 model year gasoline vehicles are OBDII compliant. To verify if a 1994 or 1995 vehicle is OBDII 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 OBDII compliant, the label will designate "OBDII Certified". Additionally, Government regulations mandate that all OBDII compliant vehicles must have a "common" 16-pin Data Link Connector (DLC).
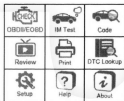
For the vehicle to be OBDII compliant it must have a 16-pin DLC (Data Link Connector) under the dash and the Vehicle Emission Control Information Label must state that the vehicle is OBDII compliant.

6. Operation
6.1 OBDII/ EOBD
Use the UP and DOWN button to select the OBDII/EOBD icon from the main screen, press ENTER.
On Monitor Overview, press ENTER to the Diagnostic Menu.

Read Codes

Erase Codes

I/M Readiness

Live Data

Freeze Frame

Vehicle Information

6.1.1 Read Codes
Enter Diagnostic Menu, use the DOWN button to select Read Codes, and press ENTER. (Or select the Code icon on the main screen and press ENTER; Or Press the CODE button to enter.)
On the Vehicle Manufacture page, choose vehicle manufacture you want and press ENTER to read the code.

Vehicle Manufacture	1/28
BENZ	
BMW	
CHRYSLER	
CITROEN	
DAEWOO	
DAIHATSU	

6.1.2 Erase Codes
Enter to Diagnostic Menu, select Erase Codes and press ENTER.
Press ENTER again to Erase Codes. Turn Ignition on with engine off according to the instruction. And then press ENTER to continue.

Erase Codes

Please Turn Ignition ON with Engine Off. Press enter key to continue!

6.1.3 I/M Readiness
Select I/M Readiness on the Diagnostic Menu, press ENTER. (Or select I/M Test icon on the main screen. Or press I/M button directly to I/M Readiness).

I/M Readiness	1-4/10
Misfire monitor	N/A
Fuel system	OK
Component monitor	INC
Catalyst monitor	N/A

6.1.4 Live Data
Select Live Data on the Diagnostic Menu, press ENTER button and select related option and press ENTER button to view data.

View Data	? /√	4/87
Fuel system 1 status		N/A
Fuel system 2 status		N/A
Calculated LOAD Value		28.5%
Engine Coolant Temperature		91°C

6.1.5 Freeze Frame
Select Freeze Frame on the Diagnostic Menu, press ENTER button and use DOWN button to see the next page.

Done	?	1/17
DTC that caused required freeze frame data storage		C2E3D
Fuel system 1 status		N/A
Fuel system 2 status		N/A
Calculated LOAD Value		31.5%

6.1.6 O2 Monitor Test
Use UP/DOWN button to select O2 Monitor Test from the Diagnostic Menu and press on ENTER button.
Use UP/DOWN button to select O2 sensor number and press ENTER button. View test results of selected O2 sensor and use UP/DOWN button to view more screens of data.

Diagnostic Menu	7/9
O2 Monitor Test	
On-Board Monitor	
Evap System(mode$8)	

Select O2 Sensor	1/4
Bank1-Sensor1	
Bank1-Sensor2	
Bank2-Sensor1	
Bank2-Sensor2	

6.1.7 On-Board Monitoring

Use the UP/DOWN button to select On-Board Monitor from Diagnostic Menu and press ENTER button.

Use the UP/DOWN button to select test data option on the On-Board Monitor Test menu and press ENTER button to see the detail of test data.

6.1.8 Evap System Test

Use the UP/DOWN button to select Evap System from Diagnostic Menu and press ENTER button.

6.2 Review

Use the UP and DOWN button to select the Review icon from the main screen, press ENTER. Select related option and press ENTER to review data.

6.3 Print

Use the UP and DOWN button to select the Print icon from the main screen, press ENTER. Select related option and press ENTER, and connect device to PC via USB cable to upload and print data.

6.4 DTC Lookup

Use the UP/DOWN button to select the DTC Lookup from the main screen, press ENTER. Press LEFT/RIGHT button to move the highlight bar to different position. Press UP/DOWN button to alter the value, and ENTER button, the screen will display definition of the DTC.

6.5 Setup
6.5.1 Language

Use UP and DOWN button to select Setup icon on the main screen, press ENTER. Select Language and press ENTER to set the language.

6.5.2 Unit of Measure

On Tool Setup, use DOWN button to select Unit of Measure and press ENTER, where you can choose Metric or Imperial.

6.5.3 Buzzer

On Tool Setup, use DOWN button to select Buzzer and press ENTER, where you can turn the buzzer ON or OFF.

6.6 Help

Use UP and DOWN button to select Help icon on the main screen, press ENTER.

6.6.1 Battery
On battery page, it shows the voltage of Data Link Connector(DLC), which is approximately the vehicle's battery status.

6.6.2 OBD II/EOBD
On the OBDII/EOBD page, there are following three catalogues. Press ENTER to see the introduction.
(1)WHAT IS OBD
(2)OBDII Modes
(3)Vehicle Coverage

OBDII/EOBD	1/1
WHAT IS OBD	
OBDII Modes	
Vehicle Coverage	

6.7 About

Use UP and DOWN button to select About icon on the main screen, press ENTER.

On the Tool Information page, there are software version, hardware version and product serial number.

Tool Information	
Software Version:	
	V1.01
Hardware Version:	
	V1.00
Serial Number	
iCarsoft Technology Inc.	

7.Warranty

7.1 Limited One Year Warranty
iCarsoft warrants to its customers that this product will be free from all defects in materials and workmanship for a period of one year from the data of the original purchase, subject to the following terms and conditions:
1) The sole responsibility of iCarsoft under the warranty is limited to either the repair or, at the option of iCarsoft, replacement of the Diagnostic 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) iCarsoft shall not be liable for any incidental or consequential damages arising from the use,

Issue, or mounting of the Diagnostic Tool. Some states don't allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

7.2 Service Procedures
If you have any questions, please contact your local store, distributor or visit our website www.icarsoftech.de. If it becomes necessary to return the Diagnostic Tool for repair, contact your local distributor for more information.

7.3 Software update
Please visit the official website www.icarsoftech.de to download the Update Applications, software and the detailed update instructions.