KONNWEI® KW460

2.8" TFT COLOR SCREEN

User's Manual

OBD2/EOBD SCANNER

KONNWEI® KW460

OBDII	for BENZ	ECM
Oil Reset	PTS	ESP
TCM	Settings	LOG

No fault code
Pending fault code
Permanent fault code

ESC **I/M** **?**

▲ ◄ **OK** ► ▼

BEN-Z +OBDII + EOBD

Fully Compatible with Mercedes Benz All Systems Scanner

Table of Contents

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:

1) Always perform automotive testing in a safe environment.

2) Wear safety eye protection that meets ANSI standards.

3) Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.

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

5) Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests.

6) 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.

7) Put the transmission in **PARK** (for automatic transmission) or **NEUTRAL** (for manual transmission) and make sure the parking brake is engaged.

8) Keep a fire extinguisher any test equipment while the ignition is on or the engine is running.

9）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. Description

BEN -Z + OBDII + EOBD
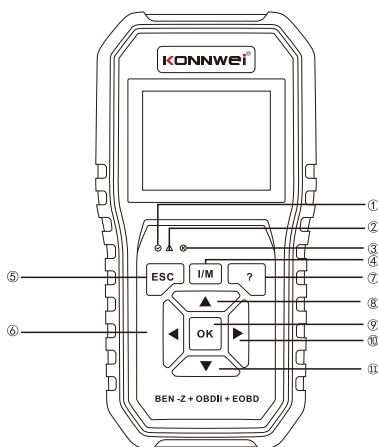
1) **OBD II CONNECTOR** - Connects the scan tool to the vehicle's Data Link Connector(DLC).
2) **LCD DISPLAY** - Displays menus and test results.

① **GREEN LED** - Indicates that engine systems are running normally (The number of monitors on the vehicle which are active and performing their diagnostic testing is in the allowed limit, and no DTC is present).

② **YELLOW LED** - Indicates there is a possible problem.A "pending" DTC is present and/or some of the vehicle's emission monitors have not run their diagnostic testing.

③ **RED LED**-Indicates there is a problem in one or more of the vehicle's systems. The red LED is also used to show that DTC are present. DTC are shown on the Scan Tool's emission monitors have not run their diagnostic testing.

④ **One - Click I/M Readiness Key**- Quick-checks State Emissions readiness and drive cycle verification.

⑤ **ESC BUTTON** - Returns to previous menu.

⑥ **LEFT SCROLL BUTTON** - Move cursor left for selection,or turn page up when more than one page is displayed.

⑦ **HELP BUTTON** - Provides help information and Code Breaker function.

⑧ **UP SCROLL BUTTON**-Move cursor up for selection.

⑨ **OK BUTTON** - Confirm a selection(or action)from a menu list.

⑩ **RIGHT SCROLL BUTTON**-Move cursor right for selection, or turn page down when more than one page is displayed.

⑪ **DOWN SCROLL BUTTON** - Move cursor down for selection.

USB CONNECTOR - Connects the scan tool to the PC for printing and upgrading.

3. 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 : 8.0 to 18.0V power provided via vehicle battery
5)Dimensions:

Length	Width	Height
199mm (7.83)	104. 5mm(4. 11")	37. 5mm(l. 48;,)

6)   weight: 0. 28kg(without wire)   0.484kg(with wire)

4. Connection and Settings

4.1 Location of the Data Link Connector(DLC)

The DLC (Data Link Connector or Diagnostic Link Connector) is typically a 16-pin connector where diagnostic code readers interface with the vehicle's on-board computer. The DLC is usually located 12 inches from the center of the instrument panel(dash), under or around the driver's side for most of the vehicle. If Data Link Connector is not located under the dashboard, a label should be there to tell it's the location. For some Asian and European vehicles, the DLC is located behind the ashtray and the ashtray must be removed to access the connector. If the DLC cannot be found, refer to the vehicle's service manual for the location.
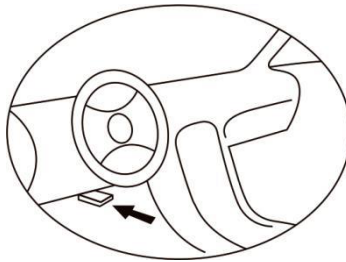

Figure 3-1

4.2 Setting

1) Tum the ignition off.

2) Locate the vehicle's 16-pin Data Link Connector(DLC)

3) Plug the OBD 11 cable into the vehicle's DLC.

4) Turn on the ignition and engine fully

5) After finishing, press **ESC** button enter Main Menu as following

CAUTION: **Don't** connect or **disconnect** any test equipment with ignition on or engine running.
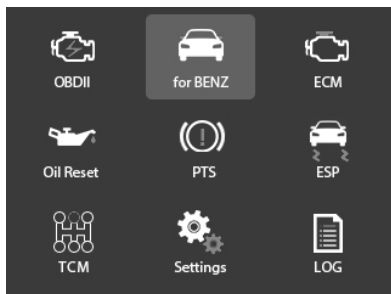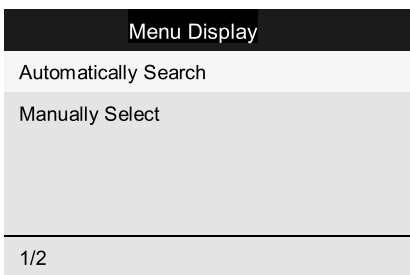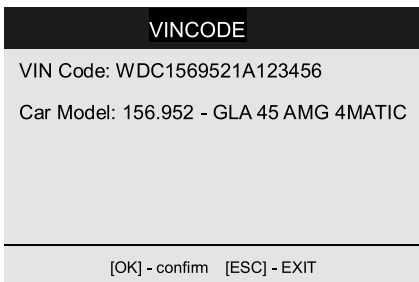
5. for Mercedes Benz Diagnose

Figure5-1

In Figure5-1, select 【for Benz】 and press [OK] , the system will display following screen:

Menu Display
Automatically Search
Manually Select
1/2

5.1.1 Automatically search

The Machine will automatically search your car data.

VINCODE
VIN Code: WDC1569521A123456
Car Model: 156.952 - GLA 45 AMG 4MATIC
[OK] - confirm   [ESC] - EXIT

Then follow the instruction on the screen if confirm, then it will show as following
This function is specially designed to diagnose all the Benz car system Fault

code and erase it. Including

1. Drive,

2. Chassis,

3. Driver Assistance system,

4. Body,

5. Information and communication,

6. Seats and Doors,

7. Air conditioning.

156.952
Drive
Chassis
Driver   Assistance   System
Body
Information   And   Communicate
Seats   And   Doors
1/7

156.952
Air   Conditioning
7/7

And then choose the system you want to check and move on

5.1.2 Manually select

You can also select your car information from the database. Others are the same as the above procedure.

You can also have some quick key to access the following 5 systems.

5.2-- 5 Systems support special function

5.2.1) ECM --Engine system

Choose this you can check all your engine

  A. **Version Information,**

  B. **Read codes,**

C. **Erase codes,**

D. **Data stream,**

E. **Special functions**

Sometimes the D&E is not showing that is because your car is not supported these data to be tested. See image as below

Diagnostics
Version   Info
Read   Codes Erase   Codes
Data stream
Special   function
1/5
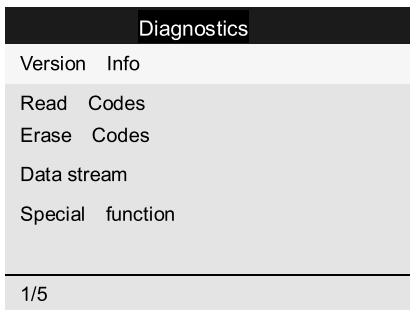
And choose the function as you want.

Others systems are the same procedure.

5.2.2) Oil Reset

5.2.3)   PTS -- Electric main steering system

5.2.4)   ESP -- Electronic brake system

5.2.5)   TCM --- Gearbox system

6   OBDII/EOBD Engine System Diagnostics
6.1 Vehicle Coverage

The scan tool is specially designed to work with all OBD II compliant vehicles, including 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 American, Asian and European vehicles.

A small number of 1994 and 1995 model year gasoline vehicles are OBD and 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 the vehicle to be OBD II compliant is 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 .

6.2 OBDII Diagnostic Menu

This option presents a quick way to check for DTC, isolate the cause of the illuminated Malfunction Indicator Lamp(MIL), check monitor status prior to emissions certification testing, verify repairs, and perform a number of other services that are emission-related.

Select [Diagnostics] and then press [OK], the system will enter the following screen:

OBD II
OBD   Diagnosis
DTC   Lookup
Review
Print   DATA
BAT   check
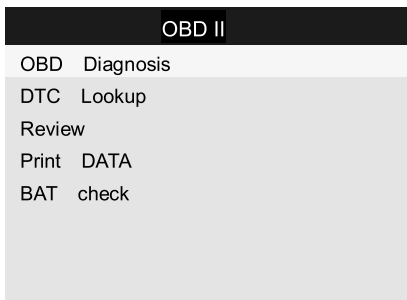
When connected to the car ECU communication, the system will enter the following screen:

Diagnostic Menu
Read Codes
Erase Codes
I/M Readiness
Data Stream
Freeze Frame
O2 Sensor Test
On-Board Monitoring
EVAP System(Mode$8)

6.3 Function:

It mainly includes the following functions:

1)   Read Codes

This option is used to identify which section of the emission control system has malfunctioned.

2)   Erase Codes

After reading the retrieved codes from the vehicle and certain repairs have been carried out, you can use this function to erase the codes from the vehicle. Before performing this function, please be sure the vehicle's ignition key is in the ON position with the engine off.

NOTES:

A. Before performing this function, make sure to retrieve and record the trouble codes.

B. After clearing, you should retrieve trouble codes once more or turn the ignition on and retrieve codes again. If there are still some trouble codes in the system, please troubleshoot the code using a factory diagnosis guide, then clear the code and recheck.

3)   Live Data

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

4)   View Freeze Frame

When an emission-related fault occurs, certain vehicle conditions are recorded by the on-board computer. This information is referred to as freeze frame data. Freeze Data is a snapshot of the operating conditions at the time of an emission-related fault.

Note: If DTC were erased, Freeze Data may not be stored in vehicle memory depending on the vehicle.

5) I/M Readiness

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

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

I/M Readiness Monitor Status function also can be used(after repair of a fault has been performed) to confirm that the repair has been performed correctly, and/or to check for Monitor Run Status.

6) O2 Monitor Test

The results of the O2 sensor test are not live values but instead the results of the ECU' s last O2 sensor test, for live O2 sensor readings.

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

7) On-Board Monitor Test

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

8) Component Test

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

9) Vehicle Info

This option displays the vehicle information, such as VIN(Vehicle Identification

Number), CID(Calibration ID) and CVN(Calibration Verification Number).

10) BAT Check
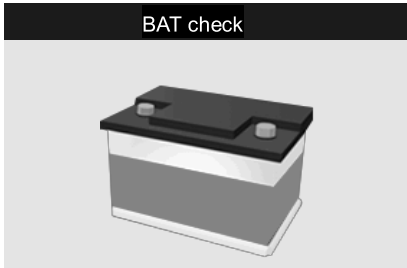
11) Modules Present

This option displays the vehicle communication protocol type.

12) DTC Lookup

This option you can enter the fault code and view the detailed description.

13)   Review Data

This option can replay failures that store records.

7.   Update & Upgrade

7.1 This function allows you to update the tool software. To update your tool, you need the following items.

1.   scan tool

2.   A PC or laptop with USB ports

3.   USB cable

1) Download the application UPlink.exe from our website: www.konnwei.com

2) Run UPlink.exe in your computer(Mac iOS and Linux does not compatible)

3) Press any button until the USB cable is connected with computer and release it after the tool display a message"Update mode"

4) Open the UPlink software, click "Check Update" button, will download the upgrade file from the internet then update to tester tool

5) Wait for few minutes until update succeed

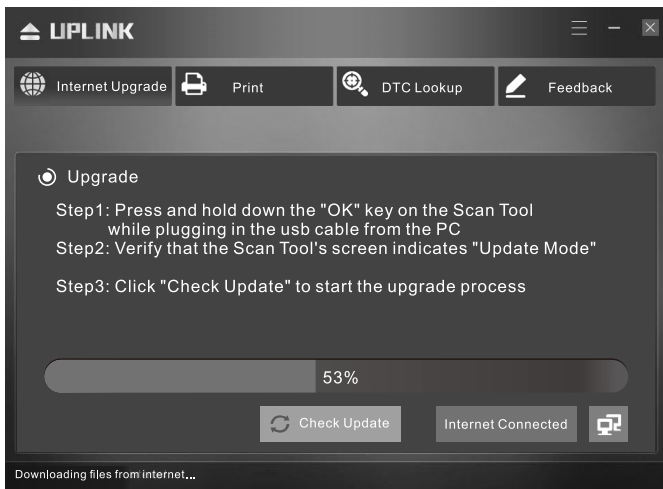6) After the update is completed, restart tester tool finish the whole update See bellow:

Figure 7 1

NOTE: when you made a wrong choice and the tool is unable to work properly, you may need to update the programs. Keep holding any key on the tool for a long time, and then Connect the tool to the computer via a USB at the same time, USB cable will force the tool into update mode to refresh the program.

7.2 Service Procedures

If you have any questions, please contact your local store, distributor or visit our website at www.konnwei.com If it becomes necessary to return the tool for repair, contact your local distributor for more information.