

KONNWEI® KW890



User's Manual



**Car Diagnostic Scanner
Car Battery Tester
Oil Service Light Reset**

1. Product Profile:

KW890 Car OBDII Dianostic Tool & Car Battery Tester & Oil Service Light Reset 3 in 1.

KW890 car obd2 diagnostic scanner can work on all 1996 and newer 12V gasoline and diesel that are OBD II compliant.

It can identify the cause of your CHECK ENGINE and perhaps fix it without going to see your dealer. It assists you in easily passing annual emissions tests and SMOG CHECK. It covers full OBDII/ EOBD diagnostic functions for engine system. O2 sensor test, EVAP systems test, and board monitoring test give you full control of your vehicle's running status, while a graphical and numeric live data stream display will help you to find out the faulty sensor readings.

KW890 battery tester can test all automotive cranking lead acid battery, including ordinary lead acid battery, AGM flat plate battery, AGM spiral battery, and gel battery, lithium battery etc. it adopts the state-of-the-art conductance testing technology in the world to easily, quickly and accurately measure the actual cold cranking amps capability of the vehicle starting battery, healthy state of the battery itself, and common fault of the vehicle starting system and charging system, which can help maintenance personnel to find the problem quickly and accurately, thus to achieve quick vehicle repair.

KW890 Oil Service Light Reset allows you to reset the service lamps on the instrument cluster. The Service Indicator System is designed to alert the driver when the vehicle is due for a service. Tips: Oil service reset function is determined by the actual condition of the vehicle.

It support multi-languages, customer can select different language which includes English, French, Spanish, German, Russian, Italian, Polish.

2 Technical Parameters:

Voltage Measurement Range 6-16V DC.

Cold Craning Amps Measurement Range

Measurement Standard	Measurement Range
CCA	100 - 2000
BCI	100 - 2000
CA	100 - 2000
MCA	100 - 2000
JIS	26A17 - 245H2
DIN	100 - 1400
IEC	100 - 1400
EN	100 - 2000
SAE	100 - 2000

3 . Main Menu Description:

- OBDII Diagnostic Menu
- Car Battery Tester Menu
- Oil Service Light Reset



4. OBDII Diagnostic Menu:

Choose “Diagnostic” For OBDII Diagnosis.

Monitor Status	
MIL Status	OFF
DTCs in this ECU	0
Readiness Completed	0
Readiness Not Completed	0
Readiness Not Supported	10
Datastream Supported	114
Ignition	Spark
Protocol Type	CAN

Diagnostic Menu

Read Codes
Erase Codes
I/M Readiness
Data Stream
Freeze Frame
O2 Sensor Test
On-Board Monitoring
Evap System(mode\$8)

Diagnostic Menu

Vehicle Information

4.2 Read Codes:

Check The Car Fault Problem: Select [Read Codes] and press OK button in Diagnostic Menu. If there are some codes, the screen will display the codes as shown below:

Read Codes

Current DTCs(\$03)
Pending DTCs(\$07)
Permanent DTCs(\$0A)
Record DTC

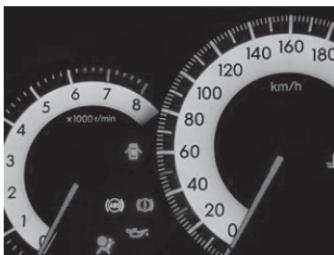
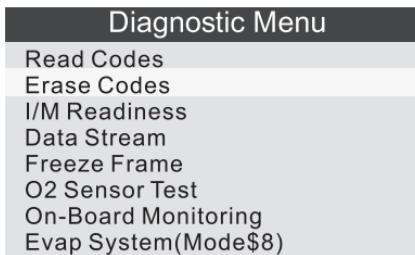
P0010

1/11

A camshaft Position Actuator
Circuit/Open Bank 1

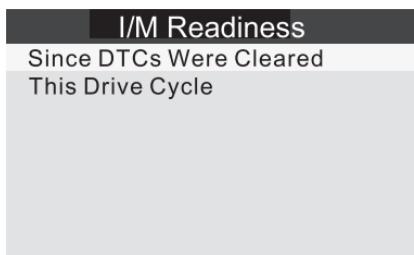
4.3 Erase Codes:

Select [Erase Codes], Until The Emission-Related Diagnostic Information has been Cleared!



4.4 I/M Readiness:

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



MIL	IGN	Spark
DTC	Pd DTC	
✓	✗	
✓	✗	
✓	✗	
✗	✗	
✗	✗	

4.5 Data Stream:

Press UP or DOWN button to select data stream in main menu interface and then press OK button to confirm , the screen will display the interface as shown below:

Datastream	1/17
Fuel system 1 status	CL
Calculated LOAD Value	CL
Calculated LOAD Value	9.0%
Engine Coolant Temperature	158°F
Short Term Fuel Trim - Bank 1	-24.2%

View Graphic Items					
Max	9.0	158	-24.2	-89.2	
Max	9.0	158	-24.2	-89.2	
■ LOAD_PCT=9.0%	■ ECT=158°F				
■ SHRTFT1=24.2%	■ LONGFT1=89.1%				

4.6 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.

Diagnostic Menu	Freeze Frame
Read Codes	Freeze Frame
Erase Codes	Record Freeze
I/M Readiness	
Data Stream	
Freeze Frame	
O2 Sensor Test	

4.7 O2 sensor Test:

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

Diagnostic Menu	Select O2 Sensor
Read Codes	Bank1 - Sensor1
Erase Codes	Bank1 - Sensor2
I/M Readiness	
Data Stream	
Freeze Frame	
O2 Sensor Test	
On-Board Monitoring	
Evap System(mode\$8)	

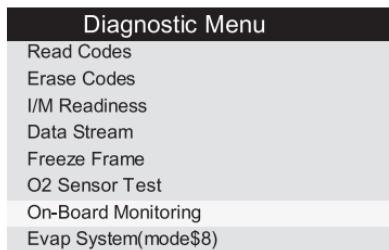
4.8 On-board monitoring:

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

Diagnostic Menu	On- Board Monitoring
Read Codes	Catalyst Monitor B1
Erase Codes	Sensor Heater B1 - S1
I/M Readiness	Sensor Heater B1 - S2
Data Stream	
Freeze Frame	
O2 Sensor Test	
On-Board Monitoring	
Evap System(mode\$8)	

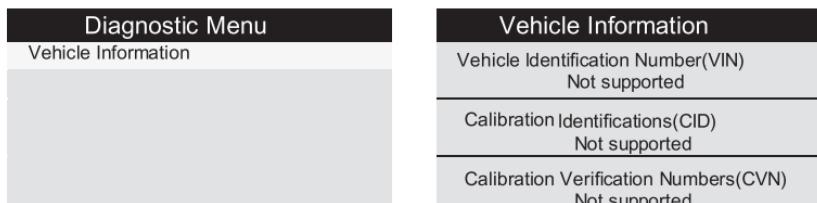
4.9 Evap System:

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



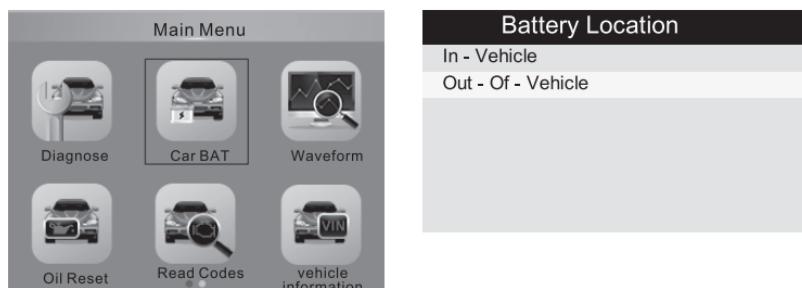
4.10 Vehicle Information:

Select [Vehicle Information] and press OK, the screen will display the information



5 Car Battery Menu:

After entering car battery test program, tester displays Main Menu, Tester Battery “In-vehicle” or “Out-of-Vehicle”, Press UP/DOWN key to select the battery location, in vehicle or out of vehicle, then press ENTER key to



- For Example ,Select “Battery Test”, “ Out-of- vehicle”, Then show below data.

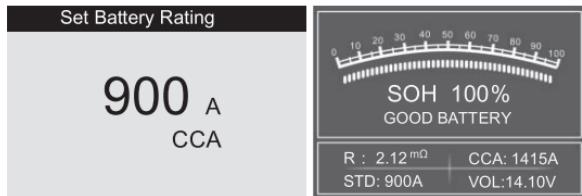
Select Type	Select Standard
Regular Flooded	CCA
AGM Flat Plate	IEC
AGM Spiral	EN
GEL	DIN
EFB	CA
Lithium	BCI

Below is -Cold Cranking Amps Measurement Range :

Measurement Standard	Measurement Range
CCA	100 - 2000
BCI	100 - 2000
CA	100 - 2000
MCA	100 - 2000
JIS	26A17 - 245H2
DIN	100 - 1400
IEC	100 - 1400
EN	100 - 2000
SAE	100 - 2000

1. CCA: Cold Cranking Amps, specified by SAE&BCI,
most frequently used value for starting battery at 0°F(-18 °C) ;
2. BCI: Battery Council international standard;
3. CA: Cranking Amps standard, effective starting current value at 0°C;4. MCA:
Marine Cranking Amps standard, effective starting current valueat 0°C;
5. JIS: Japan Industrial Standard, displayed on the battery as combination of
the numbers and letters, e.g. 55D23, 80D26 ;
6. DIN: German Auto Industry Committee Standard;
7. IEC: Internal Electron technical Commission Standard;
8. EN: European Automobile Industry Association Standard ;
9. SAE: Society of Automotive Engineers Standard.

Now Select one of them (CCA,IEC,EN, DIN, CA, BCI, MCA, SAE, JIS)
(Please check your own battery standard). The test result will be showed as
below , Press the up and down keys to switch between SOH and SOC.



The battery test result will show different type: (Good Battery / Good, Recharge / Replace / Bad cell, Replace / Charge, Retest)

● For Example, Select "Battery in- vehicle" , Then show below data

Battery Location	In- Vehicle
	Out - Of - Vehicle

In- Vehicle
Battery Test
Cranking Test
Charging Test

● For example , Select "Battery Test" , The current health status of the battery can be directly detected.

Battery Test
1.Check surface charge, Turn Lights on.
2.Take headlights on about 10 seconds.
3.Turn lights off.

There will be a prompt after entering, please proceed to the next step according to the prompt.

- For example , Select “ Cranking Test”, the data will be showed as below :

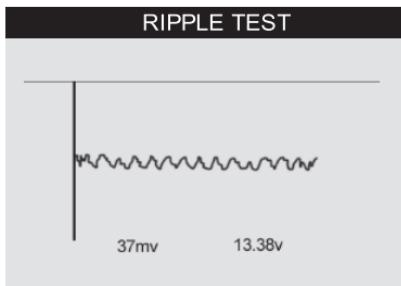
In - Vehicle
Battery Test
Cranking Test
Charging Test

Cranking Test
Please turn off the engine before pressing Enter to enter the test

Cranking Test
START ENGINE

Cranking Test
TIME: 580ms
MAX: 12.69V
MIN: 10.26V
CRANKING NORMAL

In - Vehicle
Battery Test
Cranking Test
Charging Test



Charging Test

Increase RPM to 2500 r/min and keep it 10 seconds, Press ENTER

Charging Test

Loaded 14.44V
Unloaded 14.0V
Ripple 153mV

There will be a prompt after entering, please proceed to the next step according to the prompt.

6 Oil Service Light Reset Menu:



Oil Reset Service allows you to perform reset for the Engine Oil Life system, which calculates an optimal oil life change interval depend on the vehicle driving conditions and climate.

Oil Service Light Reset

FUNCTION INTRODUCTION

ACURA

AUDI

BENTLEY

BMW

BUGATTI

Oil Service Light Reset

BORGWARD

CHRYSLER/JEEP/GODGE

CITROEN

DACIA

DAEWOO

FERRARI

7/53

Oil Service Light Reset

FIAT/ALFA ROMEO/LANCIA

FORD

GM

HOLDEN

HONDA

INFINITI

13/53

Oil Service Light Reset

LANDROVER

LEXUS

MASERATI

MAYBACH

MAZDA

MG

25/53

Oil Service Light Reset

ISUZU

INDIA (Indian Cars)

JAGURA

KIA

LAMBORGHINI

LANCIA

19/53

Oil Service Light Reset

MERCEDES-BENZ

MINI

MITSUBISHI

NISSAN

OPEL

PEUEGOT

31/53

Oil Service Light Reset

PORSCHE

PORTON

RENAULT

ROLLS-ROYCE

ROMEO/ALFA ROMEO

ROVER

37/53

Oil Service Light Reset

SAAB

SCION

SEAT

SKODA

SMART

SUBARU

43/53

Oil Service Light Reset

SUZUKI

TOYOTA

VAUXHALL

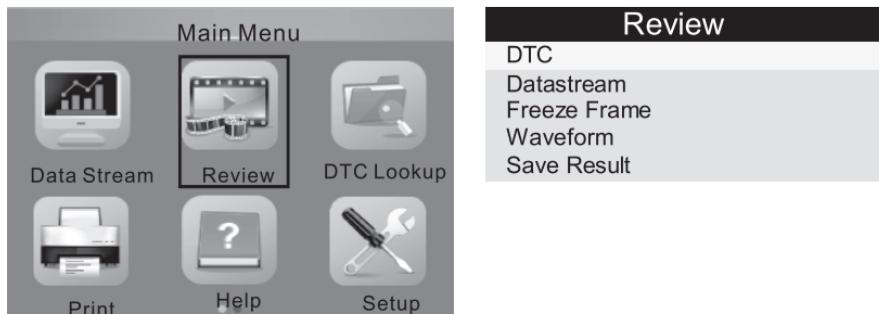
VOLVO

VW

49/53

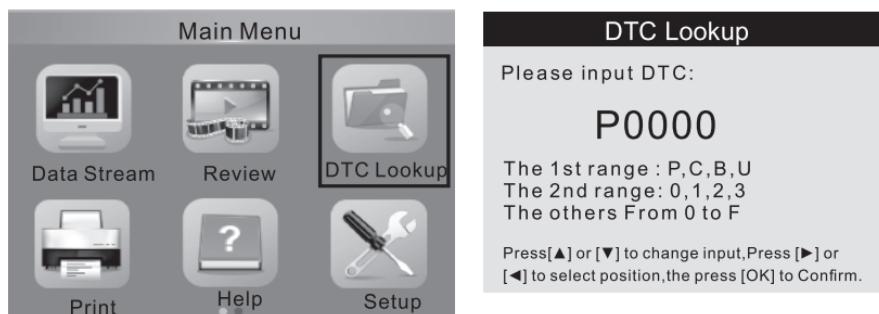
7 Review :

From the startup screen, or press ESC button to enter Main Menu
Press UP/DOWN button to select the [Review] function in the Main Menu
and press ENTER button, The screen will display the interface as shown below



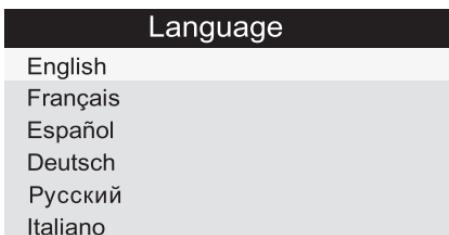
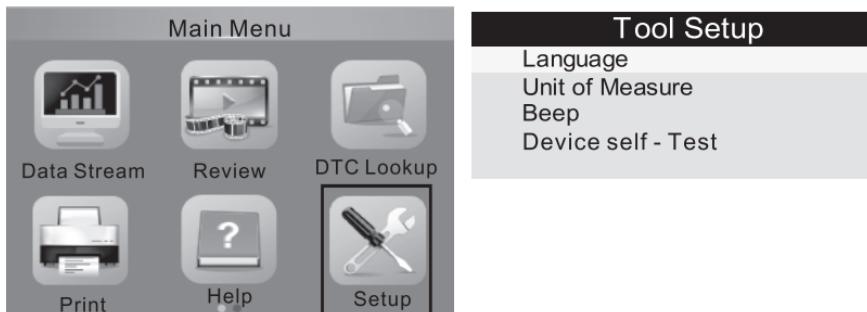
8 DTC Lookup:

It can Check all test result

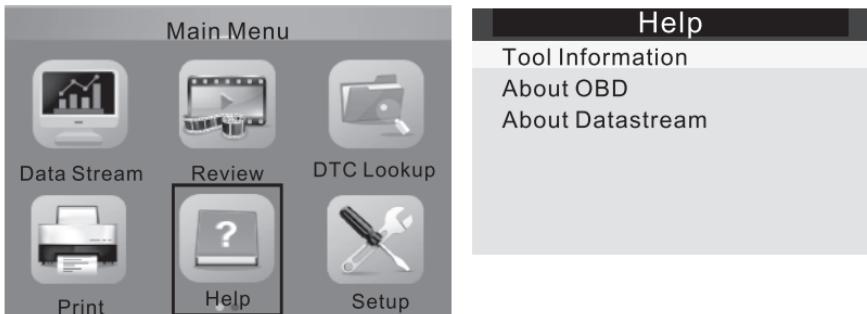


9 Setup:

Select language: English, French, Spanish, German, Russian, Italian.



10 Help:



11 . Print & Update:

This function allows you to update and print the tool software through a computer .To update and print your tool, you need the following items :

1. tester tool
2. A PC or laptop with USB ports
3. USB cable

Step:

- 1) Downloading the applications from our website www.konnwei.com.
- 2) Run uplink.exe in your computer(Mac OS and linux does not compatible).
- 3) Press and hold 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 internet then update to tester tool.
- 5) Wait for few minutes until update succeed.
- 6) During the update procedure.
- 7) Restart tester tool finish the whole update.



5. 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.

