KONNWEI®

KW350

User's Manual

Table of Contents

1. Safety Precautions and Warnings - 1

2. Description - 2

2.1 Specifications

2.2 Package Included

3. Connection and Settings - 3

3.1 Location of the Data Link Connector(DLC)

3.2 Connection

3.3 Settings

4. Diagnose - 5

4.1 OBDII/EOBD Diagnostics

4.2 DTC Lookup

4.3 Review Data

4.4 Print Data

5. VW/AUDI/SEAT/SKODA Diagnose - 9

5.1 Common control Unit

5.2 All Control Unit

5.3 System Scan

5.4 Gateway Scan

5.5 Special function

6. Tool Information - 11

7. Update Mode - 12

7.1 This function allows you to update the tool software.

7.2 To update your tool, you need the following items.

8.Service Procedures - 13

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.

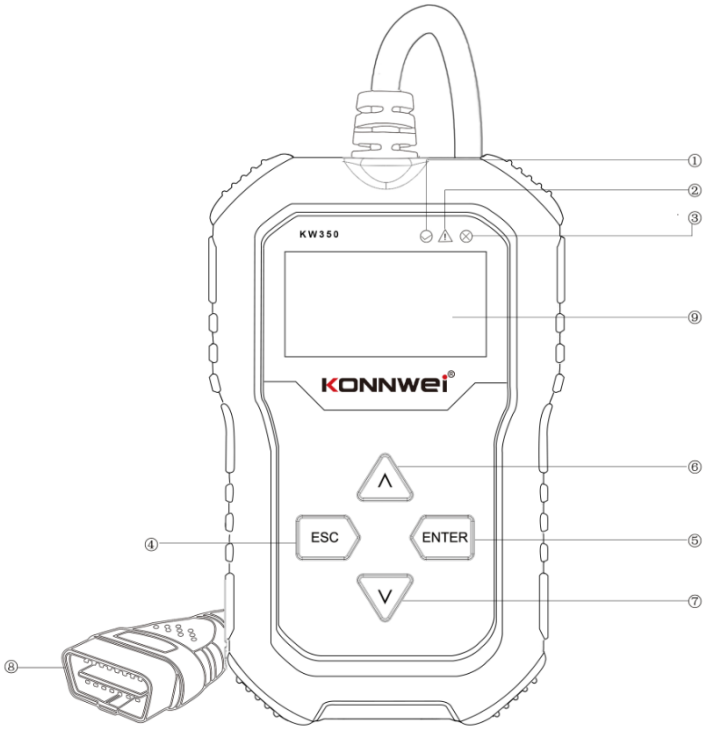
6) Use extreme caution when working around the ignition coil, distributor cap, ignition wires, and spark plugs. These components create hazardous voltages when the engine is running.

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



①: Green light indicates no fault code

②: Yellow light indicates pending fault code

③: Red light indicates permanent fault code

④: ESC Exit the current program or return to the previous menu

⑤: ENTER Confirms a selection(or action) from a menu list.

⑥: UP Move cursor up selection.

⑦: DOWN Move cursor down selection.

⑧: DB-15 CONNECTOR To connect the tool to the vehicle's DLC(Data Link Connector) via the diagnostic cable.

⑨: LCD Indicates test results.

2.1 Specifications

1) Display: Backlit 128 x 64 pixel display with contrast adjustment
2) Operating Temperature: -10 to 50℃(14 to 122℉)
3) Storage Temperature: -20 to 70℃(-4 to 158℉)
4) External Power: 8.0 to 18.0V Power provided via vehicle battery
5) Dimensions:

Length	Width	Height
127mm(5’)	78mm(3’)	21mm(0.8’)

6) NW: 0.23kg(0.50 lb), GW: 0.34kg(0.74 lb)

2.2 Package Included:

1) Scan Tool
2) User Manual
3) USB Cable
4) Nylon Bag

3. Connection and Settings

3.1 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.

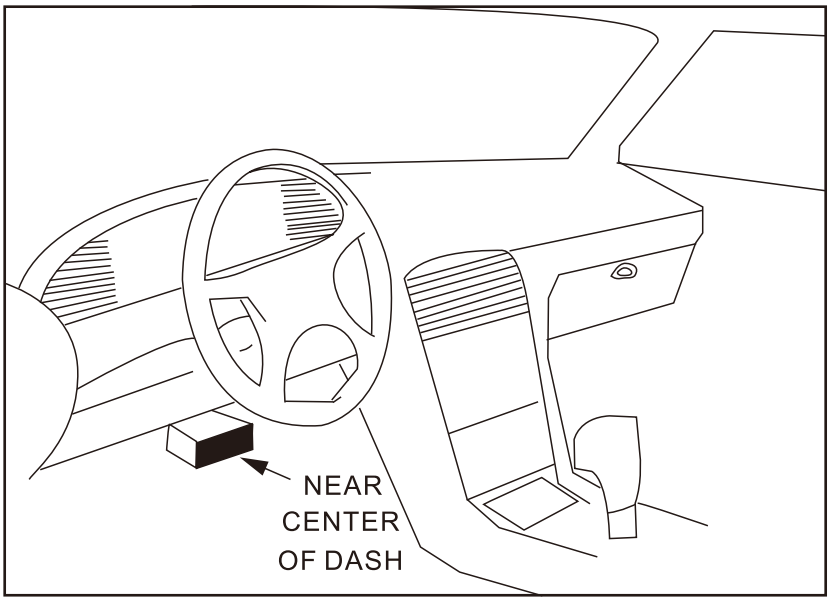


Figure 3-1

3.2 Connection

1)Turn the ignition off.

2)Locate the vehicle's DLC socket: Refer to Fig. 3-1 for the location. If no DLC is found, please refer to Automobile Repair Manual.

3)Plug one end of the diagnostic cable into the DB15 connector of the tool, and connect the other end of the diagnostic cable into the vehicle's DLC.

4)Turn the ignition on. The engine can be off or running.

5)The system starts initializing and then automatically enters the main menu interface.

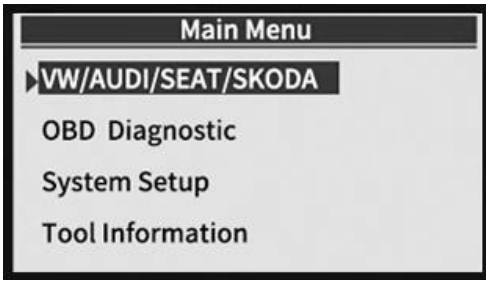


Figure 3-2

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

3.3 Settings

Select [System Setup] in the **Main Menu** and press [ENTER], the system will enter the following screen:

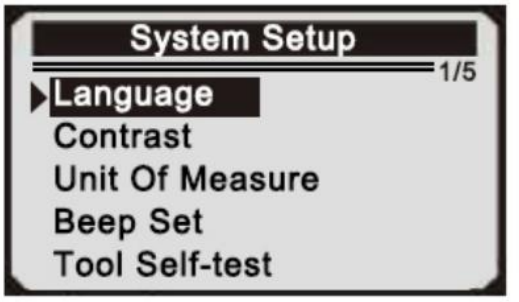


Figure 3-3

1) Language

This option enables you to set the user interface language.

2) Contrast

It is used to set LCD contrast.

3) Unit of measure

This option allows you to set the measurement unit.

4) Beep Set

It is used to set On/Off the buzzer.

5) Tool Self-test

This option allows you to test tools.

4. Diagnose

Select [OBD Diagnostics] in the **Main Menu** and press [ENTER], the system will display "**loading program,please wait**", then enter the following screen:

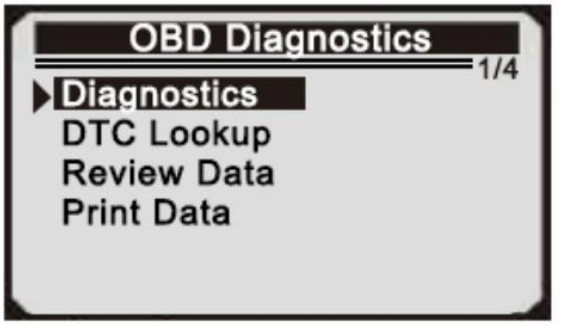


Figure 3-4

4.1 OBDII/EOBD Diagnostics

This option presents a quick way to check for DTCs, 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.

In Figure 3-4, Select [Diagnostics] and then press [ENTER], the system will enter the following screen:

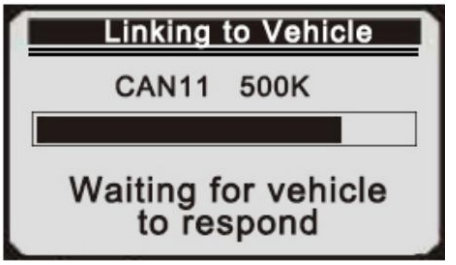


Figure 3-5

When connected to the car ECU communication, the system will enter the following screen:

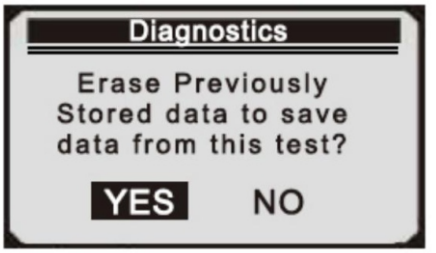


Figure 3-6

In Figure 3-6, select [YES] Erase previously stored data, select [NO] do not erase previously stored data. the system will enter the following screen:

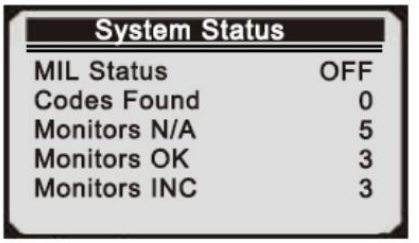


Figure 3-6

Display a moment, a screen similar to Figure 3-7 will appear:

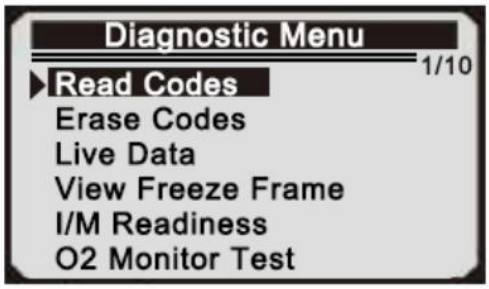


Figure 3-7

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 DTCs 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) **Modules Present**

This option displays the vehicle communication protocol type.

4.2 DTC Lookup

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

4.3 Review Data

This option can replay failures that store records.

4.4 Print Data

This option can upload the stored fault code to the computer.

5. VW/AUDI/SEAT/SKODA Diagnose

This function is specially designed to diagnose the 101 electronic control systems of a single vehicle model.

In Figure 3-2, select[VW/AUDI/SEAT/SKODA], and press[ENTER], the system will display "**loading program, please wait**", then enter the following screen:

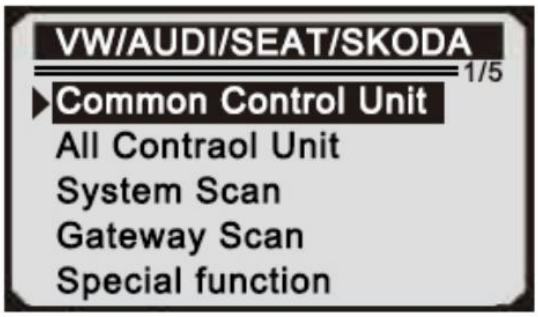


Figure 5-1

5.1 Common control Unit

This function is a common control system fault code and version reading, and clear fault code.

5.2 All Control Unit

This function is all control system fault code and version reading, and clear fault code.

5.3 System Scan

This function is to scan the common system one by one and read if there is a fault and display.

5.4 Gateway Scan

The gateway can quickly scan the ECU of the vehicle(some vehicles have their own gateway system, Tool can get the ECU information of the vehicle by talking with the gateway – which ECU is supported and whether there are a fault)

5.4 Special function

1) Auto oil reset

This function allows you to perform reset for the engine oil life system, which calculates an optimal oil life change interval depending on the vehicle driving conditions and climate.

This function can be performed in the following cases:

1. If the service lamp is on, you must provide service for the car. After service, you need to reset the driving mileage or driving time so that the service lamp turns off and the system enables the new service cycle.

2. After changing engine oil or electric appliances that monitor oil life. You need to reset the service lamp.

2) Throttle Learning

This function enables you to make initial settings to throttle actuators and returns the "learned" values stored one ECU to the default state. Doing so can accurately control the actions of regulating throttle(or idle engine) to adjust the amount of air intake.

3) Electronic Parking Brake

1. If the brake pad wears the brake pad sense line, the brake pad sense line sends a signal sense line to the on-board computer to replace the brake pad. After replacing the brake pad, you must reset the brake pad. Otherwise, the car alarms.

2. Reset must be performed in the following cases:

   a) The brake pad and brake pad wear sensor are replaced.

   b) The brake pad indicator lamp is on.

   c) The brake pad sensor circuit is short, which is recovered.

   d) The servo motor is replaced.

4) Battery Matching

This function enables you to perform a resetting operation on the monitoring unit of vehicle battery, in which the original low battery fault information will be cleared and battery matching will be done.

Battery matching must be performed in the following cases:

a) The main battery is replaced. Battery matching must be performed to clear original low battery information and prevent the related control module from detecting false information. If the related control module detects false information, it will invalidate some electric auxiliary functions, such as automatic start & stop function, sunroof without one-key trigger function, power window without automatic function.

b) Battery monitoring sensor. Battery matching is performed to re-match the control module and motoring sensor to detect battery power usage more accurately, which can avoid an error message displaying on the instrument panel.

6. Tool Information

In Figure 3-2, select[Tool Information], and press[ENTER], the system will enter the following screen:

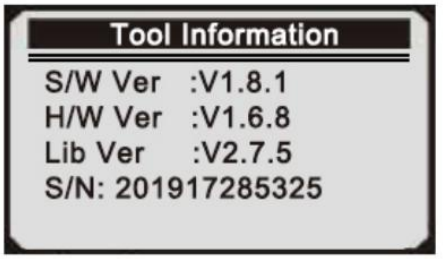


Figure 6-1

7. Update Mode

7.1 This function allows you to update the tool software.

7.2 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.

8.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.

RoHS