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KONNWEI KW680

KONNWEI KW680 OBD2/EOBD Car Diagnostic Scanner User Manual

Model: KW680

1. INTRODUCTION

The KONNWEI KW680 OBD2/EOBD Car Diagnostic Scanner is a professional tool designed to assist vehicle owners and DIY enthusiasts in diagnosing engine system issues. It enables users to quickly and efficiently check repairs, verify emission monitor status, and resolve basic engine problems. This manual provides comprehensive instructions for the proper use and maintenance of your KW680 scanner.

2. PRODUCT OVERVIEW AND FEATURES

The KW680 scanner offers a range of diagnostic functions to help you understand your vehicle's health.

- Universal Compatibility:** Works on most 1996 and newer US-based, EU, and Asian vehicles supporting all OBDII protocols.
- Trouble Code Management:** Reads and clears Diagnostic Trouble Codes (DTCs), turns off the Check Engine Light (CEL), and resets monitors.
- Live Data Stream:** Displays real-time PCM data in text and graph format, including vehicle speed, airflow, fuel trim, and engine coolant temperature.
- I/M Readiness Monitor:** Checks the operational status of the emission system components.
- Freeze Frame Data:** Captures vehicle parameters at the moment an emission-related fault occurs.
- O2 Sensor Test:** Monitors and adjusts the air/fuel mixture to identify efficiency and emission-related faults.
- EVAP System Test:** Initiates a leak test for the vehicle's fuel tank system.
- Battery Check (BAT Check):** Displays the current voltage status of the vehicle's battery.
- Vehicle Information:** Retrieves VIN (Vehicle Identification Number), CID (Calibration ID), and CVN (Calibration Verification Number).

- **DTC Lookup Library:** Built-in library for quick definition of trouble codes.
- **Data Recording and Review:** Supports recording and reviewing data streams, freeze frames, and DTCs.
- **Diagnostic Report Printing:** Allows printing of diagnostic reports via USB connection to a PC.



Figure 2.1: The KONNWEI KW680 OBD2 Scanner main unit, showing its color display and navigation buttons.

Multi-function Scanner



Read & Clear
Trouble Codes



Battery Check



Trouble Code Lookup



Live Datastream



Life-time Free Update



Oxygen Sensor Test



Figure 2.2: Overview of the KW680's multi-function capabilities, including Live Datastream, Read & Clear Trouble Codes, Battery Check, Lifetime Free Update, Oxygen Sensor Test, and Trouble Code Lookup.

3. SETUP

3.1 Package Contents

Before starting, ensure all items are present in the package:

- 1x KONNWEI KW680 OBD2 Scanner
- 1x OBDII Cable
- 1x USB Cable
- 1x User Manual



Figure 3.1: The complete package contents of the KONNWEI KW680 OBD2 Scanner.

3.2 Connecting the Scanner to Your Vehicle

1. Locate the 16-pin Data Link Connector (DLC) in your vehicle. This is usually located under the dashboard on the driver's side.
2. Ensure the vehicle's ignition is in the "ON" position, but the engine does not need to be running for most diagnostic functions.
3. Plug the OBDII cable from the KW680 scanner into the vehicle's DLC port. The scanner will power on automatically.

Important: Always keep the vehicle's ignition ON when performing diagnostic tests to ensure proper communication with the vehicle's ECU.

4. OPERATING INSTRUCTIONS

The KW680 features a user-friendly interface with a color screen and navigation buttons.



Figure 4.1: A detailed breakdown of the KW680's main menu and sub-menu options.

4.1 Navigating the Menus

- Use the **UP** and **DOWN** arrow buttons to scroll through menu options.
- Press the **ENTER** button to select an option or confirm an action.
- Press the **ESC** button to return to the previous screen or cancel an action.
- The **I/M** button provides quick access to I/M Readiness status.

4.2 Reading and Clearing Trouble Codes

1. From the Main Menu, select "Diagnostic" and press **ENTER**.
2. Select "Read Codes" to view current, pending, and permanent DTCs.
3. To clear codes, select "Erase Codes" and press **ENTER**. Confirm the action when prompted. This will turn off the Check Engine Light and reset emission monitors.

4.3 I/M Readiness Check

The I/M Readiness function checks if the various emission-related systems on the vehicle are operating correctly and are ready for inspection and maintenance testing.

1. Press the dedicated **I/M** button on the scanner or navigate to "Diagnostic" -> "I/M Readiness".
2. The screen will display the status of various monitors (e.g., Misfire, Fuel System, Comprehensive Component). A "PASS" or "OK" status indicates the monitor has completed its self-test.



Figure 4.2: The One-Key I/M Readiness function, showing the status of emission monitors for smog checks.

4.4 Battery Check (BAT Check)

This function allows you to quickly check the voltage status of your vehicle's battery.

1. From the Main Menu, select "BAT Check" and press **ENTER**.
2. The scanner will display the current battery voltage.

SCANNER +

KONNWEI KW680 Not only be capable of check engine.
but also check your car battery health anytime!



Figure 4.3: Performing a Battery Check with the KW680 scanner, showing the battery voltage.

5. MAINTENANCE

5.1 Software Updates

The KONNWEI KW680 scanner supports lifetime free software updates to ensure compatibility with newer vehicles and to enhance its diagnostic capabilities. Updates are performed via a PC connection.

1. Keep any button on the scanner pressed (except power button) and connect it to your PC using the provided USB cable.
2. The scanner screen will display a website address for software downloads. Visit this website.
3. Download and install the update software on your PC.
4. Follow the on-screen instructions in the update software to complete the update process. Ensure the device remains connected during the update.

Note: The update software is compatible with Windows XP, 7, 8, and 10. Mac OS is not supported for updates.

Life-time FREE Update Service

- * Download & install the update tool from official website,
- * Connect to PC with USB Cable (Not for MAC OS)
- * ONE-CLICK Update button, Update finished !



Figure 5.1: The process of updating the KW680 software and printing diagnostic reports.

5.2 Cleaning and Storage

- Clean the scanner's casing with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Store the device in a dry, cool environment, away from direct sunlight and extreme temperatures.
- Keep the OBDII and USB cables free from kinks or damage.

6. TROUBLESHOOTING

- **Scanner does not power on:**
 - Ensure the OBDII cable is securely connected to the vehicle's DLC port.
 - Verify the vehicle's ignition is in the "ON" position.
 - Check the vehicle's battery for sufficient charge.
- **"Link Error" or "Communication Error" message:**
 - Confirm the OBDII cable is properly connected.
 - Ensure the vehicle's ignition is ON.

- Verify that your vehicle is OBDII compliant (most vehicles from 1996 onwards). Some older or specific models may not be fully compatible.
- Try connecting the scanner to another OBDII compliant vehicle to rule out a scanner issue.

- **Unable to update software:**

- Ensure the USB cable is securely connected to both the scanner and the PC.
- Verify your PC's operating system is Windows XP, 7, 8, or 10. Mac OS is not supported.
- Temporarily disable any antivirus or firewall software that might interfere with the update process.

7. SPECIFICATIONS

Feature	Detail
Brand	KONNWEI
Model	KW680
Dimensions (L x W x H)	7.11 x 12.45 x 2.03 cm
Item Weight	249 grams
Operating Voltage	12 Volts
Power Source	Battery Powered (via OBDII port)
Screen Size	2.4 Inches
Supported OS for Updates	Windows 10, Windows 7, Windows 8, Windows XP
UPC	798881972652, 643858114637, 682698326268

8. WARRANTY AND SUPPORT

KONNWEI provides the following for your KW680 scanner:

- **Warranty:** 3-year full refund and return guarantee.
- **Software Updates:** Lifetime free update service for the scanner tool.

For technical support or warranty claims, please refer to the contact information provided on the official KONNWEI website or your purchase documentation.