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VIHELM KW309

KW309 Portable Multiple Languages OBD Diagnostic Tool

User Manual

Model: KW309 | Brand: VIHELM

1. Product Overview

The VIHELM KW309 is a portable On-Board Diagnostics (OBD) diagnostic tool designed to help users identify and troubleshoot issues with their vehicle's engine system. It supports multiple languages and provides essential diagnostic functions for various car models.

What's in the Box:

- KW309 Diagnostic Tool (x1)



Figure 1: The VIHELM KW309 OBD Diagnostic Tool, featuring a compact red casing and an integrated OBD-II connector cable.

2. Key Features

- **Multi-Language Support:** The KW309 supports various languages, making it accessible to a wider range of users.
- **DTC Error Code Display:** Directly displays Diagnostic Trouble Codes (DTCs) and their meanings, eliminating the need for online searches.
- **Comprehensive OBDII/EOBD Functions:** Includes functions such as Check Engine Light status, Read Codes, Erase Codes, I/M Readiness, O2 Sensor Test, Emission Check, Freeze Frame data, and Live Data stream.
- **Trouble Code Clearing:** Allows for reading and clearing of both generic and manufacturer-specific check engine light codes, and resets monitor status.



Figure 2: The KW309's display showing the multi-language selection menu, including English, French, Spanish, German, Russian, Dutch, and Portuguese.



Figure 3: The KW309 displaying a DTC error code and its corresponding meaning, simplifying vehicle diagnostics.



Figure 4: An overview of the KW309's OBDII/EOBD engine diagnosis functions, including Check, Read Codes, Erase Codes, I/M Readiness, O2 Sensor Test, Emission Check, Freeze Frame, and Live Data.



Figure 5: The KW309 displaying the "Erase trouble codes!" prompt, indicating its ability to clear diagnostic trouble codes and reset the check engine light.

3. Setup

To begin using the KW309 diagnostic tool, follow these simple steps:

1. Locate your vehicle's 16-pin OBD2 port. This port is typically found under the dashboard on the driver's side.
2. Ensure your vehicle's ignition is in the "ON" position (engine can be off or running, depending on the test).
3. Plug the KW309's OBD2 connector firmly into the vehicle's OBD2 port. The device will power on automatically.



Figure 6: A user connecting the KW309 diagnostic tool to a vehicle's 16-pin OBD2 port, demonstrating the simple plug-and-play setup.

4. Operating Instructions

The KW309 features intuitive navigation with ESC, ENTER, and arrow keys. Once connected, the main menu will appear.

- **Read Codes:** Select "Read Codes" from the main menu to retrieve Diagnostic Trouble Codes (DTCs) stored in the vehicle's computer. The tool will display the code and a brief description.
- **Erase Codes:** After addressing the issue, select "Erase Codes" to clear the DTCs and turn off the Check Engine Light. Confirm the action when prompted.
- **I/M Readiness:** Check the status of the vehicle's emission-related monitors to determine if they are ready for an emissions test.
- **Live Data:** View real-time sensor data from the vehicle's engine, such as engine RPM, vehicle speed, oxygen sensor readings, and more.
- **Freeze Frame:** Access a snapshot of sensor data recorded at the moment a DTC was set, providing valuable information for diagnosis.
- **System Information:** View vehicle information such as VIN (Vehicle Identification Number), Calibration ID, and Calibration Verification Numbers (CVN).

5. Vehicle Compatibility

The KW309 is designed to be compatible with most OBD2 compliant vehicles. OBD2 protocols became standard for

vehicles manufactured in the following regions and years:

European Vehicles

Standard EOBD protocols (after 2003 year)

For Abarth

For Alfa Romeo

For Aston Martin

For Audi

For Bentley

For BMW

For Bugatti

For Citroen

For Dacia

For Ferrari

For Fiat

For EU FORD

For Jaguar

For Lamborghini

For Land Rover

For Maserati

For Mini

For Opel

For Peugeot

For Porsche

For Renault

For SAAB

For Seat

For Skoda

For Smart

For VAUXHALL

For Volvo

For VW

Asian Vehicles

Standard OBD2 protocols (after 2007 year)

For Acura

For Asia GM

For Daewoo

For Daihatsu

For Honda

For Hyundai

For Infiniti

For Isuzu

For KIA

For Lexus

For MAZDA

For Mitsubishi

For Nissan

For Ssangyong

For Subaru

For Suzuki

For Toyota

American & Australian Vehicles

Standard OBD2 protocols (after 1996 year)

For Chrysler

For US Ford

For GM

For Jeep

For Scion

For Chevrolet

For Cadillac

For Lincoln

For Dodge

For Buick

For Holden

For AU FORD

Chinese Vehicles

Standard OBD2 protocols (after 2009 year)

For BYD

For Changan

For Changhe

For Chery

For Emgrand

For Englon

For Foton

For Geely

For Gleagle

For GWM

For HBSH

For Huachen

For Lifan

For Wuling

For Yuan



Figure 7: The KW309 displaying its main menu alongside a comprehensive list of compatible vehicle brands and their respective OBD2 protocol adoption years.

Important Note: While compatible with most cars, some vehicles may not support the OBD2 protocol at certain times, or specific car designs may limit compatibility. This device primarily offers OBD2 functions and does not include advanced features like ABS Reset or Airbag Reset. For specific compatibility concerns, especially with Japanese and Korean cars, please consult your vehicle's manual or contact the manufacturer.

Specific Compatibility Warnings:

- Not supported: Lada/VAZ/UAZ cars manufactured before 2012.
- Not supported: Ssangyong cars manufactured before 2008.
- Not supported: Renault Dacia Logan models manufactured before 2010.
- Not supported: Electric cars and Hybrid cars.
- Not supported: 24V trucks.
- Not supported: Nissan Leaf and similar models.
- Not supported: Renault/Chevrolet Skoda car models.
- Not supported with specific protocols: Ssangyong Actyon from 2009 to 2017 years; Ssangyong Korando, 2.0 TD Diesel, from 2013 to 2017 years; Ssangyong Kyron, 2.0 Diesel, from 2010 to 2017 years; Ssangyong Rexton, 2011 to 2017 years.
- Not supported: Opel Corsa C 2004 1.3 CDTI.
- Not supported: Citroen C4 2005.
- Not supported: Chevrolet cars.
- Not supported: Renault Logan/Megane.
- Not supported: Skoda Fabia, Skoda Octavia.

6. Troubleshooting Vehicle Issues with KW309

The KW309 is designed to assist in diagnosing common vehicle problems indicated by the Check Engine Light. It helps identify the root cause of issues such as:

- **Ignition Difficulties:** The tool can read codes related to ignition system malfunctions.
- **Fault Light Blinking:** A blinking fault light often indicates a severe misfire; the KW309 can help pinpoint the cylinder or component causing it.
- **Excessive Exhaust Emissions:** By checking O2 sensor data and emission monitor status, the tool can indicate issues contributing to high emissions.
- **Large Fuel Consumption:** Diagnostic codes related to fuel system, oxygen sensors, or engine performance can be read to identify causes of poor fuel economy.
- **Liquid Leakage:** While the tool doesn't directly detect leaks, related sensor failures or system malfunctions that might be a symptom of a leak could trigger codes that the KW309 can read.



Figure 8: The KW309 positioned next to visual representations of common vehicle problems like ignition difficulty, fault light blinking, exhaust emission exceedance, large fuel consumption, and liquid leakage, illustrating the types of issues the tool helps diagnose.

If the tool itself is not functioning as expected, ensure it is properly connected to the OBD2 port and that your vehicle's ignition is on. If issues persist, refer to the "Warranty and Support" section.

7. Maintenance

To ensure the longevity and optimal performance of your KW309 diagnostic tool, follow these maintenance guidelines:

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the tool in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts. Do not pull the cable forcefully when disconnecting from the vehicle.
- **Cable Care:** Inspect the OBD2 cable regularly for any signs of damage, such as cuts or frayed wires. Replace if necessary.

8. Specifications

Specification	Detail
Model	KW309
Brand	VIHELM
ASIN	B0BZCN55WD
UPC	797427713308
Manufacturer	VIHELM
Package Dimensions	3 x 2 x 1 inches; 1 Pounds
Date First Available	March 23, 2023

9. Warranty and Support

Specific warranty details for the VIHELM KW309 diagnostic tool are typically provided with the product packaging or can be found on the manufacturer's official website. Please retain your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or inquiries regarding product functionality, please refer to the contact information provided by the seller or manufacturer at the time of purchase. Online resources and FAQs may also be available on the VIHELM website.

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