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KONNWEI TLB460

KONNWEI KW460 OBD2 Diagnostic Scanner for Mercedes-Benz and Smart Vehicles - User Manual

Model: KW460

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1. INTRODUCTION

The KONNWEI KW460 is a specialized OBD2 diagnostic scanner designed for Mercedes-Benz and Smart vehicles. This tool provides comprehensive system diagnostics, various reset functions, and full OBD2 functionality to assist in identifying and resolving vehicle issues. It is intended for use with gasoline vehicles equipped with 12V batteries. Heavy diesel trucks, electric vehicles, and MPVs are not supported.



Figure 1.1: KONNWEI KW460 OBD2 Diagnostic Scanner and included carrying case.

This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your KW460 device. Please read this manual thoroughly before using the device to ensure proper and safe operation.

2. SETUP

2.1 Package Contents

Upon opening the package, verify that all items are present:

- KONNWEI KW460 Diagnostic Tool
- 16-pin OBD2 Cable
- USB Data Cable
- Storage Bag
- User Manual (this document)



Figure 2.1: Contents of the KONNWEI KW460 product package.

2.2 Connecting the Device

To begin using the KW460, connect it to your vehicle's OBD2 port:

1. Locate the vehicle's 16-pin Data Link Connector (DLC). This port is typically found under the dashboard on the driver's side.

2. Ensure the vehicle's ignition is in the OFF position.
3. Connect the 16-pin OBD2 cable from the KW460 scanner to the vehicle's DLC. Ensure a secure connection.
4. Turn the vehicle's ignition to the ON position (engine off). The scanner will power on automatically.



Figure 2.2: Overview of the KW460 device, including connection points and button layout.

The device features indicator lights:

- **Green LED:** Indicates the engine systems are running normally.
- **Yellow LED:** Indicates a possible problem in one or more of the vehicle's systems.
- **Red LED:** Indicates a serious problem requiring immediate attention.

3. OPERATION

3.1 Navigating the Interface

The KW460 features a 2.8-inch color screen and a user-friendly button layout for navigation:

- **ESC Button:** Returns to the previous screen.

- **I/M Button:** Provides quick access to I/M readiness status.
- **? (Help) Button:** Provides detailed descriptions or tips for diagnoses.
- **OK Button:** Confirms the current operation or selection.
- **Directional Buttons (Up/Down/Left/Right):** Used to select different items or navigate through pages.

3.2 Full System Diagnostics

The KW460 can perform comprehensive diagnostics on up to 102 systems within compatible Mercedes-Benz and Smart vehicles. This includes key components such as the engine, transmission, ABS, SAS, SRS, ESP, airbags, immobilizer, and battery systems.



Figure 3.1: Full system diagnostic capabilities of the KW460.

To perform a full system scan:

1. From the main menu, select the 'Diagnostics' or 'Full System Scan' option.
2. The scanner will automatically identify the vehicle and begin scanning all supported systems.
3. Once the scan is complete, a report will display any detected fault codes and system statuses.
4. You can then select specific systems to view detailed information or clear fault codes after repairs.

3.3 OBD2 Functions

The KW460 supports all standard OBD2 functions, allowing for basic engine and emission-related diagnostics:



Figure 3.2: Overview of full OBD2 functions available.

- **Read Trouble Codes (DTCs):** Displays current, pending, and permanent diagnostic trouble codes.
- **Clear Trouble Codes:** Erases DTCs from the vehicle's computer after repairs.
- **Live Data:** Displays real-time data stream from the vehicle's sensors.
- **Freeze Frame Data:** Shows a snapshot of operating conditions when an emission-related fault occurred.
- **I/M Readiness:** Checks the status of emission-related monitors to determine if the vehicle is ready for an inspection/maintenance test.
- **O2 Sensor Test:** Retrieves O2 sensor monitor test results.
- **On-Board Monitor Test:** Retrieves results for emission-related powertrain components and systems.
- **EVAP System Test:** Initiates a test of the Evaporative Emission Control System.
- **Vehicle Information:** Retrieves the Vehicle Identification Number (VIN), Calibration ID (CALID), and Calibration Verification Number (CVN).

3.4 One-Click Emission Test (I/M Readiness)

The I/M Readiness function allows for a quick check of your vehicle's exhaust status, indicating if it is ready for an emissions test.



Figure 3.3: I/M Readiness screen for emission testing.

To perform an I/M Readiness test, press the dedicated I/M button on the device. The screen will display the status of various emission monitors.

3.5 Multiple Auto Reset Functions

The KW460 offers several specialized reset functions for common maintenance tasks:

FULL RESET FUNCTIONS



Protocols and unique systems/ECUs vary by vehicle model, please note: Due to vehicle model differences, not all services listed may be available. Please contact us prior to purchase to confirm compatibility of specific features.

Figure 3.4: Available reset functions on the KW460.

- **Oil Reset:** Resets the oil service light after an oil change.
- **Battery Detection:** Monitors battery voltage and health.
- **ETC Reset:** Electronic Throttle Control reset.
- **ABS Reset:** Anti-lock Braking System reset.
- **DPF Reset:** Diesel Particulate Filter regeneration reset (if applicable to vehicle).
- **EPB Reset:** Electronic Parking Brake reset.
- **SAS Reset:** Steering Angle Sensor calibration.
- **Injector Coding:** Programs new injector compensation values.
- **Lamp Adjust:** Adjusts lighting parameters.
- **Throttle Match:** Performs throttle body relearn procedures.
- **Suspension Adjustment:** Resets or calibrates suspension systems.

Note: The availability of specific reset functions may vary depending on the vehicle model and year. Consult your vehicle's service manual or contact technical support for compatibility details.

4. MAINTENANCE

4.1 Software Updates

The KW460 offers lifetime free software updates to ensure compatibility with new vehicle models and to address any software enhancements or bug fixes. Updates are performed via a computer running Windows 7/8/10/11.



Figure 4.1: Software update and printing functionality.

To update the software:

1. Download the update tool from the official KONNWEI website.
2. Connect the KW460 to your computer using the provided USB data cable.
3. Launch the update tool on your computer.
4. Follow the on-screen instructions to check for and install available updates.

4.2 Cleaning

To maintain the device, wipe the screen and exterior with a soft, damp cloth. Avoid using abrasive cleaners or

solvents that could damage the device.

5. TROUBLESHOOTING

If you encounter issues with your KW460, refer to the following common troubleshooting steps:

- **Device does not power on:** Ensure the OBD2 cable is securely connected to the vehicle's DLC and the vehicle's ignition is in the ON position. Check the vehicle's battery voltage.
- **Communication error:** Verify the vehicle supports the OBD2 protocol. Ensure the cable connection is stable. Try connecting to a different compatible vehicle if possible to rule out a vehicle-specific issue.
- **Screen frozen or unresponsive:** Disconnect the device from the vehicle, wait a few seconds, and reconnect it. If the issue persists, perform a software update.
- **Incorrect readings or functions not working:** Ensure the software is up to date. Verify the vehicle's compatibility with the specific function you are attempting to use.

For persistent issues or specific error codes not covered here, please contact KONNWEI technical support.

6. SPECIFICATIONS

Feature	Description
Model	KW460 (TLB460)
Display	2.8 inch Color Screen
Operating System	Linux
Vehicle Compatibility	Mercedes-Benz and Smart vehicles (1996-2022) with 12V gasoline engines and 16-pin OBD2 interface. Not compatible with 38-pin interface or new models after 2020.
Dimensions	3.94"L x 1.38"W x 7.83"H (10 x 3.5 x 19.9 cm)
Item Weight	1.36 pounds (0.62 kg)
Update Method	Lifetime free software updates via Windows PC (Windows 7/8/10/11)

6.1 Vehicle Compatibility Details

The KW460 is designed for specific Mercedes-Benz and Smart models. Below is a general compatibility overview for special functions. Always verify specific function compatibility for your exact vehicle model and year.

BRAND	CHASSIS NO.	HOT SPECIAL FUNCTIONS COMPATIBILITY									
		Oil	ABS	EPB	BMS	TCM	D-P-F	Suspension	SAS	Thottle	SRS
Fit for Mercedes	CLK(208)								✓	✓	
	CLK(209)					✓	✓		✓	✓	✓
	CLS(218)	✓	✓			✓	✓	✓	✓	✓	✓
	CLS(219)	✓	✓			✓	✓		✓	✓	✓
	CLS(257)	✓	✓	✓	✓	✓	✓		✓	✓	✓
	CL(215)	✓				✓			✓	✓	✓
	CL(216)	✓		✓		✓			✓	✓	✓
	SLK(170)								✓	✓	
	SLK(171)	✓				✓			✓	✓	✓
	SLC/SLK(172)	✓		✓		✓	✓	✓		✓	✓
	SL(129)										
SL(230)	✓	✓			✓			✓	✓	✓	

Figure 6.1: Special functions compatibility for various Mercedes-Benz chassis numbers (Part 1).

BRAND	CHASSIS NO.	HOT SPECIAL FUNCTIONS COMPATIBILITY									
		Oil	ABS	EPB	BMS	TCM	D-P-F	Suspension	SAS	Thottle	SRS
Fit for Mercedes	E(210)								✓	✓	
	E(211)	✓	✓			✓	✓	✓	✓	✓	✓
	E(212)	✓	✓			✓	✓	✓	✓	✓	✓
	E(213)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	E(238)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	S(140)										
	S(217)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	S(220)	✓				✓	✓	✓	✓	✓	✓
	S(221)	✓		✓		✓	✓	✓	✓	✓	✓
	S(222)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	CLA(117)	✓	✓	✓	✓		✓	✓	✓	✓	✓
	CLA(118)	✓	✓	✓			✓	✓	✓	✓	✓

Figure 6.2: Special functions compatibility for various Mercedes-Benz chassis numbers (Part 2).

BRAND	CHASSIS NO.	HOT SPECIAL FUNCTIONS COMPATIBILITY									
		Oil	ABS	EPB	BMS	TCM	D-P-F	Suspension	SAS	Thottle	SRS
Fit for Mercedes	SL(231)	✓	✓	✓		✓		✓	✓	✓	✓
	X 290 AMG										
	AMG GT(190)	✓	✓	✓						✓	✓
	SLS(197)	✓	✓	✓							✓
	M/GLE(166)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	GLE(167)	✓	✓	✓	✓	✓		✓	✓	✓	✓
	GLE(292)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	M(163)								✓		
	M(164)	✓				✓	✓		✓	✓	✓
GL(164)	✓				✓	✓		✓	✓	✓	

*** Contact us to know more functions compatibility**

Figure 6.3: Special functions compatibility for various Mercedes-Benz chassis numbers (Part 3).

7. WARRANTY & SUPPORT

7.1 Product Warranty

The KONNWEI KW460 comes with a 2-year warranty from the date of purchase, covering manufacturing defects and malfunctions under normal use. This warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

7.2 Technical Support

KONNWEI provides lifetime technical support for the KW460 diagnostic scanner. If you encounter any compatibility issues, operational problems, or require assistance with software updates, please contact our technical support team. Support is available 24/7.

For support, please refer to the contact information provided on the official KONNWEI website or your product packaging.