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ELMCONFIG B402

ELMCONFIG ELM327 USB OBD2 Diagnostic Scan Tool (Model B402) User Manual

Comprehensive instructions for setup, operation, and maintenance of your ELMCONFIG ELM327 USB OBD2 Diagnostic Scan Tool.

Brand: ELMCONFIG | Model: B402

1. INTRODUCTION

The ELMCONFIG ELM327 USB OBD2 Diagnostic Scan Tool (Model B402) is designed to provide comprehensive diagnostic and programming capabilities for compatible vehicles. This adapter connects to your computer via USB and interfaces with your vehicle's On-Board Diagnostics II (OBD2) system, offering insights into vehicle performance and allowing for specific modifications.



Image: The ELMCONFIG ELM327 USB OBD2 Diagnostic Scan Tool (Model B402) with its USB cable.

2. COMPATIBILITY

This ELM327 OBD2 adapter is compatible with a wide range of vehicles, specifically designed for Ford, Lincoln, and Mercury series vehicles (12V). It supports approximately 99% of post-2000 models and 92% of post-1996 models from these manufacturers. The tool requires a Windows-based computer for operation, supporting Windows 2000/XP/Vista/7/8/8.1/10. **Note: This device is not compatible with Mac or Google**

WIDE RANGE OF COMPATIBILITY



▶ Supported Softwares:

Elmconfig / FF2 Focccus / Scanmaster / Plus more

▶ Applied System:

Windows 2000 / XP / Vista / 7 / 8 / 8.1 / 10

Image: A user operating the ELMCONFIG ELM327 USB OBD2 Diagnostic Scan Tool with a laptop inside a vehicle, demonstrating its application.

Especially for Ford, Mazda, Lincoln, Mercury

and Other OBD2/EOBD Universal Car Models After 1996



**Automatic
Switching**



Plug and Play

**Reading Fast
Speed**



Image: Various Ford, Mazda, Lincoln, and Mercury vehicle models, illustrating the broad compatibility of the ELMCONFIG OBD2 adapter.

3. SETUP INSTRUCTIONS

Follow these steps to set up your ELMCONFIG ELM327 USB OBD2 Diagnostic Scan Tool:

1. **Download Software and USB Driver:** Visit the provided website (e.g., obd2.cc) to download and install the necessary USB driver (CH340) and diagnostic software. Ensure you run the driver and software as an Administrator to grant proper authorization.
2. **Connect Adapter to PC:** Connect the ELM327 USB adapter to your Windows computer using the USB cable. A red LED on the adapter should light up after connection.
3. **Plug Adapter into Vehicle:** Locate your vehicle's OBD2 port, typically found under the driver's side dashboard. Plug the ELM327 adapter firmly into this port.
4. **Turn Vehicle Ignition ON:** Turn your vehicle's ignition to the "ON" position. For push-button start vehicles, press the "start" button twice without pressing the brake pedal.
5. **Launch Application:** Open the diagnostic software on your computer. In the application, click the "Connect" button. Your OBD2 adapter is now ready for use. Green LEDs will flash when communicating

with the vehicle.

4 STEPS TO USE

- 1 Enter the website according to the manual**
- 2 Download the CH340T USB driver and software**
- 3 Connect this adapter with vehicle and computer**
- 4 Turn ignition on**

Image: A visual guide detailing the four essential steps for setting up and connecting the ELMCONFIG OBD2 adapter.

Automatic Electronic Switching

This OBD2 ELM327 adapter features an automatic electronic switch, eliminating the need for manual switching between medium-speed (MS-CAN) and high-speed (HS-CAN) CAN protocols. This hardware design prevents data corruption and packet loss, ensuring a reliable connection for diagnostics and programming.



Image: Diagram illustrating the automatic electronic switching between HS-CAN and MS-CAN modes on the ELMCONFIG OBD2 adapter.

Your browser does not support the video tag.

Video: This video demonstrates the automatic switching functionality of the ELMCONFIG OBD2 to USB adapter, highlighting its ease of use for diagnostic tasks.

4. OPERATING INSTRUCTIONS

Basic Diagnostic Functions

Once connected, the diagnostic software allows you to perform various OBD2 functions:

- **Read Codes:** Retrieve Diagnostic Trouble Codes (DTCs) to identify vehicle issues.
- **Erase Codes:** Clear DTCs after repairs have been completed.
- **Data Stream:** View real-time sensor data from your vehicle.
- **I/M Readiness:** Check the status of emission-related monitoring systems.
- **O2 Sensor Test:** Monitor oxygen sensor performance.
- **On-Board Monitor Test:** Access results of on-board diagnostic monitoring tests.
- **Vehicle Information:** Retrieve vehicle identification number (VIN) and calibration IDs.
- **Component Test:** Perform tests on specific vehicle components.
- **EVAP System Test:** Check the evaporative emission control system.
- **Freeze Frame Data:** View a snapshot of vehicle conditions when a DTC was set.



Image: Icons illustrating the comprehensive OBD2 functions available with the ELMCONFIG diagnostic tool.

Special Modification Features

The OBDII Pro adapter enables advanced vehicle modifications and access to electronic control units (ECUs) such as the engine, transmission, ABS, airbags, and climate control. Specific features include:

- Disable dual horn honking.
- Enable automatic mirror folding.
- Reset Daytime Running Lights (DRL).
- Program new brake controllers.
- Activate automatic lock.
- Set fixed speed cruise.
- Monitor tire pressure.
- Adjust multifunction steering wheel settings.
- Enable emergency double flash.
- Turn on speakers.
- Access driving computer settings.

- Enable USB reading functions.

Note: Some advanced functions may require an extended license for the diagnostic software.

Hidden Functions Activation

Only work on Windows XP, Vista, 7, 8, 10 system (32/64 bite)



Automatic lock



Fixed speed Cruise



Tire pressure monitoring



Multifunction steering wheel



Emergency double flash



Turn on Speakers



Driving computer



Turn on USB reading



OBDII Adapter
HS/MS CAN AUTO SWITCH
All Protocols supported
PRO

Note: Some functions require an extended licence.

Image: Icons representing various hidden vehicle functions that can be activated using the ELMCONFIG OBD2 adapter.

5. MAINTENANCE

To ensure the longevity and optimal performance of your ELMCONFIG ELM327 USB OBD2 Diagnostic Scan Tool, follow these maintenance guidelines:

- **Storage:** Store the adapter in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using harsh chemicals or abrasive materials.
- **Cable Care:** Do not bend or crimp the USB cable excessively. Store it neatly to prevent damage.
- **Connection:** Always ensure the adapter is properly seated in the OBD2 port and USB port to prevent damage to the connectors.
- **Software Updates:** Regularly check for and install software and driver updates to ensure compatibility and access to the latest features and bug fixes.

6. TROUBLESHOOTING GUIDE

If you encounter issues while using your ELMCONFIG ELM327 USB OBD2 Diagnostic Scan Tool, refer to the following common problems and solutions:

- **No Connection with Vehicle:**

Solution: Ensure the USB driver and diagnostic software are correctly installed and run as Administrator. Verify that the adapter is securely plugged into both the PC and the vehicle's OBD2 port. Confirm the vehicle ignition is in the "ON" position. For Windows 10, if you receive a "NO CONNECTION WITH THE VEHICLE" error, right-click the repair software icon, select "Properties," then "Compatibility," and choose "Run the program in compatibility mode for Windows 7."

- **Adapter Not Recognized by PC:**

Solution: Reinstall the USB driver. Try connecting the adapter to a different USB port on your computer. Ensure your operating system is Windows (Mac/Chrome OS are not supported).

- **Software Settings Issue:**

Solution: In the repair software, navigate to "Settings" -> "Connection" -> select "MS-CAN Support" -> choose "RTS Relay." These changes will apply on the next connection to the vehicle.

- **Data Corruption or Packet Loss:**

Solution: The adapter is designed with automatic electronic switching to prevent these issues. Ensure the USB cable is not damaged and connections are secure.

- **Advanced Features Not Working:**

Solution: Verify if an extended license is required for the specific advanced function you are attempting to use. Ensure your software version is up to date.

7. PRODUCT SPECIFICATIONS

Feature	Detail
Brand	ELMCONFIG
Model	B402
Connectivity	USB
Operating System Compatibility	Windows 2000/XP/Vista/7/8/8.1/10
Vehicle Compatibility	Ford, Lincoln, Mercury (99% post-2000, 92% post-1996)
CAN Switching	Automatic HS/MS CAN
Item Weight	3.2 ounces
Power Source	Corded Electric
Included Components	USB OBD2 Adapter

8. WARRANTY AND SUPPORT

Warranty Information

This ELMCONFIG ELM327 USB OBD2 Diagnostic Scan Tool comes with a **3-year warranty**, ensuring

reliability and customer satisfaction.

Customer Support

For further assistance, technical support, or warranty claims, please refer to the contact information provided with your product packaging or visit the official ELMCONFIG website. You may also find additional resources at obdresource.cn.