OBDResource FORD327

ELM327 USB Adapter OBD2 Scanner User Manual

Model: FORD327 | Brand: OBDResource

1. Introduction

The OBDResource ELM327 USB Adapter OBD2 Scanner is a diagnostic tool designed for use with Windows operating systems. It features an MS CAN and HS CAN toggle switch, allowing access to various vehicle modules for diagnostics and programming. This device supports all OBD2 protocols and is compatible with Ford, Lincoln, Mazda, and Mercury series vehicles manufactured after 1996.
This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your ELM327 USB Adapter.

2. Key Features

- **ELM327 Toggle Switch Design:** With MS CAN and HS CAN toggle switch, this OBD II interface is able to access and enable hidden modules, troubleshoot undesired features, and provide faster functionality.
- **ELM327 USB OBD2 Reader:** Features a reliable USB cable connection and V1.5 hardware version for stable performance. Supports all OBD2 protocols (J1850PWM, HS CAN, MS CAN, HS CAN2, HS CAN3).
- **Ford ELM327 Hidden Functions:** Discover Global Window feature, Bambi Mod, Secure idle, Perpendicular Park, Trailer Brake Controller, disabled Double Horn Honk, Disabled Door Ajar Chime, Reverse Tilt Mirrors, Tire Size Correction and many other features.
- **Wide Vehicle Compatibility:** Flawless in scanning, programming, and hiding modules for Ford F150, F250, F350, F450, Ranger, S-Max, C-Max, Transit, Mondeo, Fusion, Kuga, Mustang, Explorer, Edge and other Ford cars and light pickup trucks from 1996 onwards. Also works for Mazda, Lincoln and Mercury.
- **Software Compatibility:** Compatible with Elmconfig, FF2, FoCCCus, Scanmaster, and more.
- **Operating System Support:** Easy to use on all 32/64-bit Windows systems (XP, Vista, 7, 8, 10).

3. Setup Guide

Before connecting the ELM327 USB Adapter to your vehicle, ensure you have installed the necessary USB drivers and software on your Windows computer. If you do not have the software, please contact OBDResource for download channels.

3.1 Software and Driver Installation

1. **Download Software and Drivers:** Visit the official website (as provided in your product manual) to download the USB driver (CH340) and the required PC software (e.g., Elmconfig, FoCCCus).
2. **Install USB Driver:** Run the CH340 driver installer and follow the on-screen prompts to complete the installation.
3. **Install Diagnostic Software:** Install your preferred diagnostic software (e.g., Elmconfig, FoCCCus) by following its specific installation instructions.
4. **Windows 10 Compatibility (if needed):** If using Windows 10 and the adapter cannot work, close both antivirus and firewall. Right-click the software icon on your desktop, choose "Properties," then "Compatibility," select "Windows 7," and save. Then, right-click the icon again and choose "Run As Administrator."

3.2 Hardware Connection

1. **Connect USB to Computer:** Plug the USB end of the ELM327 adapter into an available USB port on your Windows computer.
2. **Connect OBD2 to Vehicle:** Locate the 16-pin OBD2 interface in your car (typically under the dashboard on the driver's side) and firmly plug in the adapter.
3. **Turn Vehicle Ignition ON:** Turn your vehicle's ignition to the "ON" position. Do not start the engine. For push-button start vehicles, press the "Start" button twice without pressing the brake pedal.



Figure 1: ELM327 USB Adapter connected to a laptop and a vehicle's OBD2 port. The image shows the USB cable plugged into a laptop and the OBD2 connector plugged into the vehicle's diagnostic port, illustrating the physical setup steps.



Figure 2: A visual guide showing four steps for setting up the ELM327 adapter: 1) Go to the website on the manual, 2) Download the CH340 USB driver and software, 3) Connect the adapter with the vehicle and computer, and 4) Turn ignition on.

4. Operating Instructions

Once the hardware is connected and the ignition is on, you can launch your diagnostic software to begin using the ELM327 USB Adapter.

4.1 Launching Software and Connecting

1. **Launch Application:** Open your chosen diagnostic software (e.g., FORScan, Elmconfig) on your computer.
2. **Connect to Adapter:** Within the software, locate the "Connect" button or similar option. Click it to establish a connection with the ELM327 adapter. The adapter's green LEDs should flash when communicating.
3. **Select CAN Bus (if prompted):** The software may prompt you to switch between HS-CAN and MS-CAN. Use the toggle switch on the ELM327 adapter as instructed by the software. Ensure you switch to the correct CAN bus position and click "OK" in the software.

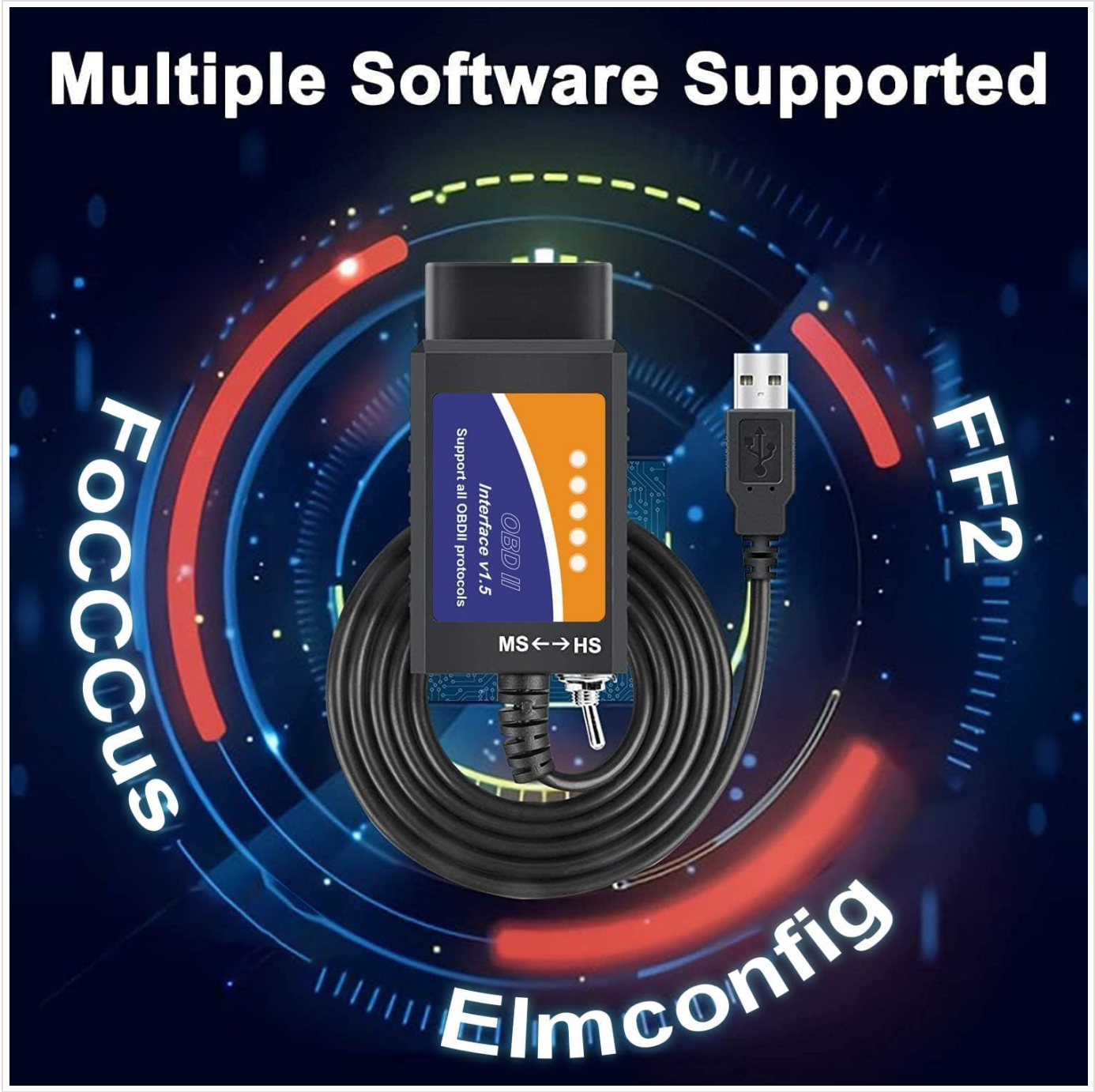


Figure 3: The ELM327 USB Adapter featuring a physical toggle switch to select between MS-CAN and HS-CAN protocols, essential for accessing different vehicle modules.

4.2 Performing Diagnostics and Programming

Once connected, you can perform various functions depending on the software used:

- **Read and Clear Trouble Codes:** Access the diagnostic trouble codes (DTCs) stored in your vehicle's modules and clear them after repairs.
- **Live Data Stream:** Monitor real-time sensor data and parameters from your vehicle, such as engine RPM, coolant temperature, fuel system status, and more.
- **Module Configuration/Programming:** Modify vehicle settings, enable or disable features (e.g., Global Window, Bambi Mod), and perform module programming. *Note: Some advanced functions may require an extended license for the software.*
- **Component Test:** Perform specific tests on various vehicle components.

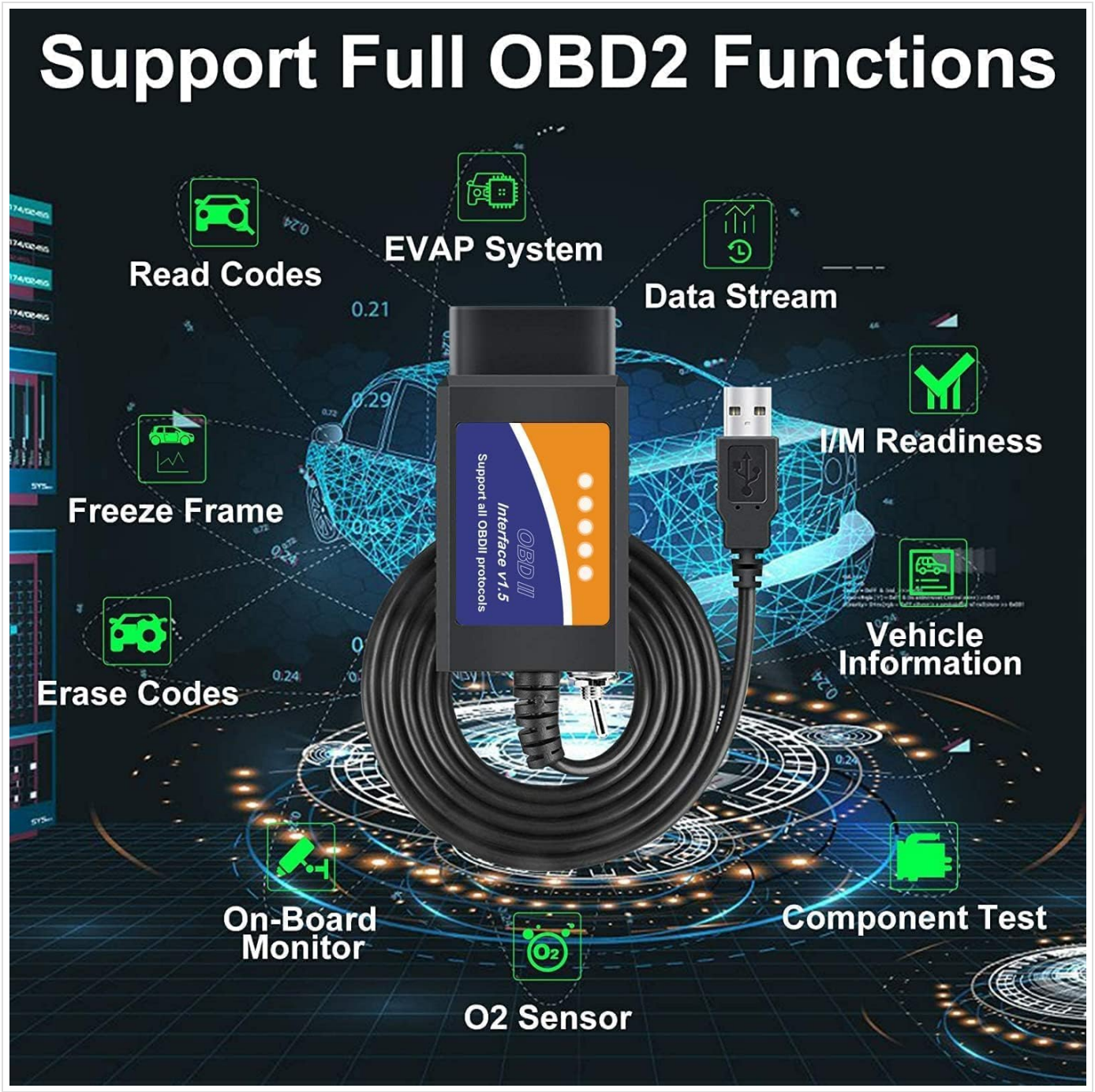


Figure 4: An illustration detailing the full range of OBD2 functions supported by the ELM327 adapter, including Read Codes, EVAP System, Data Stream, I/M Readiness, Freeze Frame, Erase Codes, On-Board Monitor, O2 Sensor, and Vehicle Information.



Figure 5: This diagram highlights various hidden functions that can be activated using the ELM327 adapter, such as Automatic Lock, Fixed Speed Cruise, Driving Computer, Multifunction Steering Wheel, Emergency Double Flash, Tire Pressure Monitoring, Turn on USB Reading, and Turn on Speakers.

4.3 Video Demonstrations

ELM327 USB SCANNER FOR SCAN ELMconfig FoCCCus FF2

Your browser does not support the video tag.

This video, provided by the seller, demonstrates the ELM327 USB scanner in action with FORScan, ELMconfig, and FoCCCus software, showcasing its diagnostic capabilities and interface. It provides a visual guide to the device's operation.

5. Maintenance

To ensure the longevity and optimal performance of your ELM327 USB Adapter, 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 adapter. Do not use liquid cleaners or solvents.
- **Cable Care:** Avoid bending or crimping the USB cable excessively. Always grasp the connector, not the cable, when plugging or unplugging.
- **Software Updates:** Regularly check for updates to your diagnostic software and drivers to ensure compatibility and access to the latest features and vehicle models.
- **Firmware Updates:** If firmware updates are available for the ELM327 adapter, follow the manufacturer's instructions carefully to perform the update.

6. Troubleshooting

If you encounter issues while using your ELM327 USB Adapter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Adapter not recognized by computer.	Missing or incorrect USB driver.	Ensure the CH340 USB driver is correctly installed. Reinstall if necessary.
Software cannot connect to the adapter.	Incorrect COM port selected, software compatibility issues, or adapter not properly connected.	Verify the correct COM port in Device Manager and select it in the software. Ensure the adapter is firmly plugged into both the computer and vehicle. Try running software in Windows 7 compatibility mode (for Win10 users).
Cannot access certain vehicle modules (e.g., MS-CAN).	Incorrect toggle switch position.	Ensure the MS CAN/HS CAN toggle switch on the adapter is in the correct position as required by the software for the module you are trying to access.
"Invalid Hardware Key" error.	Software licensing issue or incorrect adapter version for software.	Ensure you are using compatible software for your adapter version. Some advanced features may require an extended license; check the software provider's website.
No communication with vehicle.	Vehicle ignition not ON, faulty OBD2 port, or incompatible vehicle.	Confirm ignition is ON (not just accessory). Test the adapter on another compatible vehicle if possible. Verify your vehicle is supported (after 1996 for Ford/Lincoln/Mazda/Mercury).

For further assistance, please contact OBDResource customer support.

7. Specifications

Attribute	Detail
Brand	OBDResource
Model	FORD327
Power Source	Adapter

Attribute	Detail
Product Dimensions	8.43"L x 5.87"W x 1.65"H
Item Weight	3.17 ounces
Operating System Compatibility	Windows (XP, Vista, 7, 8, 10)
Supported Protocols	J1850PWM, HS CAN, MS CAN, HS CAN2, HS CAN3
Supported Software	Elmconfig, FF2, FoCCCus, Scanmaster, etc.
Vehicle Compatibility	Ford, Lincoln, Mazda, Mercury Series Vehicles (After 1996)

8. Warranty and Support

The product description mentions a "3 Year Warranty" and "Money Back Guarantee" on the product image. Additionally, it states: "Please check the product description carefully before purchasing to make sure our tool is suitable for your car. If you are not sure if our tool is compatible with your car, please feel free to contact us by email."
For specific warranty details, claims, or technical support, please refer to the contact information provided with your product packaging or visit the official OBDResource website.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question