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› PARANNIC ELM327 USB OBD2 Adapter User Manual

PARANNIC elm327 usb switch

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Model: elm327 usb switch

PRODUCT OVERVIEW

The PARANNIC ELM327 USB OBD2 Adapter is a diagnostic and programming tool designed for use with compatible vehicles, primarily Ford, Lincoln, Mazda, and Mercury models. This adapter features a built-in MS-CAN/HS-CAN switch, allowing it to access various vehicle modules and perform a wide range of functions, from reading and clearing diagnostic trouble codes to activating hidden vehicle features. It connects to a computer via USB and requires specific software for operation.



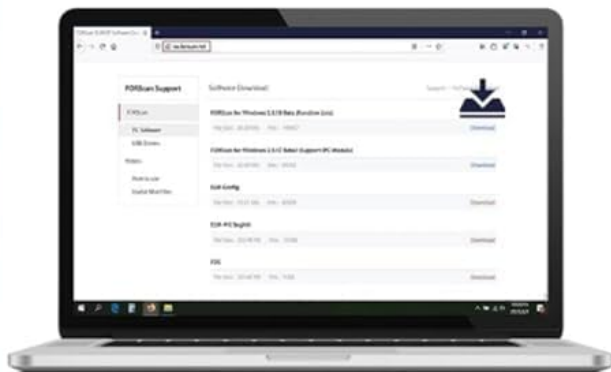
Image: The PARANNIC ELM327 USB OBD2 Adapter, showing its OBD2 connector, USB cable, and the MS/HS CAN switch on the side. The device has indicator lights and is labeled "ELM 327 Interface v1.5 Supports all OBDII protocols."

SETUP AND INSTALLATION

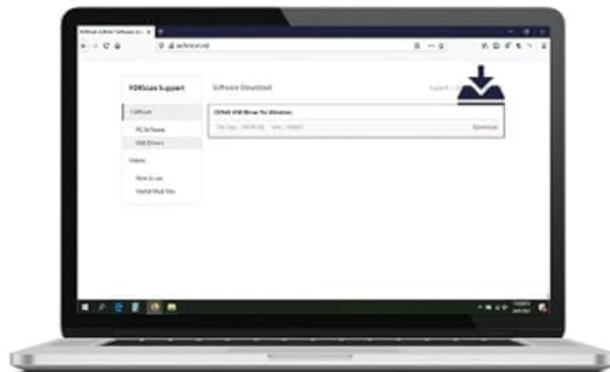
Before using the ELM327 USB adapter, it is essential to install the necessary drivers and software on your computer. This adapter is compatible with Windows operating systems (XP, Vista, 7, 8, 10).

1. **Download Software and Drivers:** Navigate to the official FORScan website (sw.forscan.net) to download the FORScan software and the required CH340T USB driver. Ensure you download the correct versions for your Windows operating system.
2. **Install Drivers:** Install the CH340T USB driver on your computer. This driver enables your computer to recognize the ELM327 adapter when connected.
3. **Install FORScan Software:** Install the FORScan application on your computer.
4. **Connect Adapter to Vehicle:** Locate your vehicle's OBD2 port, typically found under the dashboard on the driver's side. Plug the ELM327 USB adapter into the OBD2 port.
5. **Connect Adapter to Computer:** Connect the USB end of the adapter cable to an available USB port on your Windows computer.
6. **Turn Ignition On:** Turn your vehicle's ignition to the "ON" position (engine does not need to be running, but accessories should be powered).
7. **Launch Software:** Open the FORScan software on your computer and follow the on-screen prompts to establish a connection with the vehicle.

EASY TO USE



1 Go to sw.forscan.net



2 Download the CH340 USB driver and software



3 Connect this adapter with vehicle and computer



4 Turn ignition on

Image: A visual guide illustrating the four steps for setting up the ELM327 adapter: 1. Go to sw.forscan.net, 2. Download CH340 USB driver and software, 3. Connect adapter to vehicle and computer, 4. Turn ignition on.

OPERATING INSTRUCTIONS

Vehicle Compatibility

The ELM327 USB adapter is broadly compatible with various vehicle makes and models. It is specifically designed for use with:

- **Ford:** F150, F250, Cars & F-series Trucks (12V)
- **Lincoln**
- **Mazda** (after 1996, excluding new 2019+ Mazda 3 and CX-30)
- **Mercury** (after 1996)

It supports all OBD2 protocols, functioning as a standard OBD-II/EOBD/CAN car code reader on all supported vehicles.



Image: Diagram showing the ELM327 adapter connected to a computer, with lines pointing to various compatible vehicles: Ford (F150), Mazda, Lincoln, and Mercury.

HS-CAN and MS-CAN Switch

The adapter features a physical toggle switch to select between High-Speed CAN (HS-CAN) and Medium-Speed CAN (MS-CAN) protocols. This switch is crucial for accessing different modules within your vehicle's network.

- **HS-CAN:** Typically used for powertrain control modules (PCM), transmission control modules (TCM), and other critical systems.
- **MS-CAN:** Used for body control modules (BCM), infotainment systems, and other comfort/convenience features.

Refer to your specific vehicle's wiring diagrams or FORScan documentation to determine which CAN bus is required for the module you wish to access or modify. The switch position determines which network the adapter communicates with.

BOTH HS-CAN & MS-CAN



HS CAN: PCM TCM APIM DCDC PAM HCM and many others

MS CAN: BCMII SODR SODL FCIM TRM RGTM RTM PDM
DDM HSWM GPSM DSM

HS CAN2: FDSM ABS RCM PSCM SCCM GWM IPMA

Image: A close-up of the ELM327 adapter connected to a laptop, highlighting the physical toggle switch on the side. Labels indicate "MS" and "HS" for the switch positions, along with examples of modules accessible via each CAN bus type.

Special Functions for FORScan

When used with FORScan software, this adapter enables access to various special functions and vehicle customizations. Note that some advanced programming functions may require an extended license for FORScan.

- Global Window feature activation
- Bambi Mod (fog lights with high beams)
- Reverse tilt mirrors configuration
- Tire size correction
- Perpendicular Park assist activation
- Secure Idle setup
- Heated steering wheel activation
- Disabled double horn honk
- Disabled door ajar chime

- Automatic lock settings
- Multifunction steering wheel configuration
- Fixed speed Cruise control settings
- Emergency double flash activation
- Tire pressure monitoring system (TPMS) adjustments
- Driving computer settings
- Speaker activation
- USB reading activation

HIDDEN FUNCTIONS ACTIVATION



Automatic lock



Multifunction steering wheel



Fixed speed Cruise



Emergency double flash



Tire pressure monitoring



Driving computer



Turn on Speakers



Turn on USB reading

Note: Some programming functions require an extended licence, you can get free/paid extended licence on forscan software web.

Image: An illustration showing the ELM327 adapter and various icons representing hidden functions that can be activated via FORScan, such as automatic lock, multifunction steering wheel, fixed speed cruise, emergency double flash, tire pressure monitoring, driving computer, turn on speakers, and turn on USB reading.

Full OBD2 Functions

Beyond specialized FORScan functions, the adapter also operates as a full OBD2/EOBD/CAN compliant diagnostic tool, providing standard diagnostic capabilities for all supported vehicles.

- **Read Codes:** Retrieve Diagnostic Trouble Codes (DTCs), including generic and manufacturer-specific codes.
- **Clear Codes:** Erase DTCs from the vehicle's computer and turn off the Check Engine Light (MIL).
- **Freeze Frame Data:** View a snapshot of vehicle operating conditions at the time a fault code was set.
- **I/M Readiness:** Check the status of emission-related monitors to ensure the vehicle is ready for an emissions test.
- **Vehicle Information:** Retrieve vehicle identification number (VIN), calibration ID (CALID), and calibration verification number (CVN).
- **Data Streams:** Display real-time live data from various vehicle sensors in text or graph format.
- **Oxygen Sensor Testing:** Retrieve O2 sensor monitoring test results.
- **Mode 6 Inspection:** Access results of on-board diagnostic monitoring tests for specific components/systems.

FULL OBD2 FUNCTION

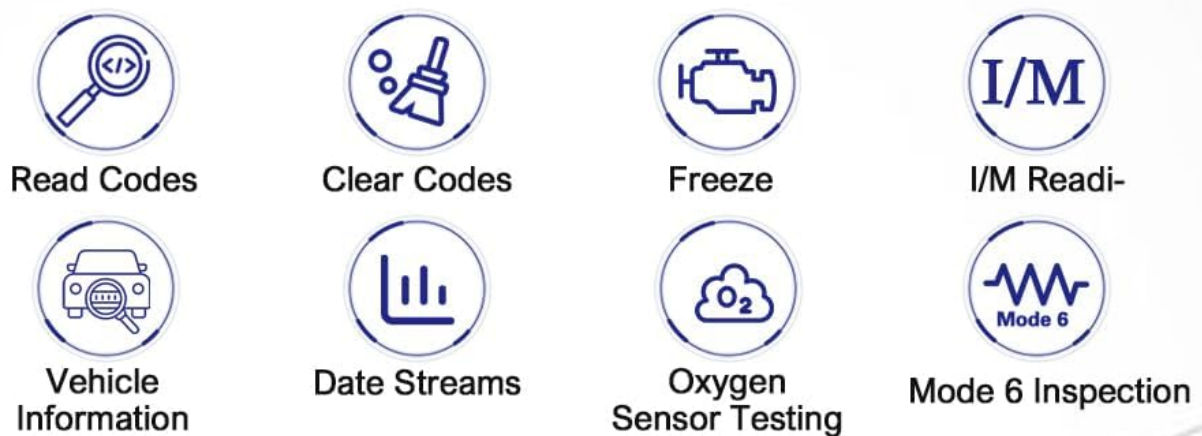


Image: An illustration showing the ELM327 adapter and icons representing its full OBD2 functions: Read Codes, Clear Codes, Freeze Frame, I/M Readiness, Vehicle Information, Data Streams, Oxygen Sensor Testing, and Mode 6 Inspection.

SUPPORTED SOFTWARE AND OPERATING SYSTEMS

The PARANNIC ELM327 USB adapter is compatible with a range of diagnostic and programming software, primarily designed for

Windows operating systems.

- **Supported Software:**

- FORScan
- ELMconfig
- FoCCCuS
- FF2

- **Supported Operating Systems:**

- Windows XP
- Windows Vista
- Windows 7
- Windows 8
- Windows 10

Note: This adapter does not work on MAC OS or Google Chrome OS.



Image: A graphic displaying a laptop screen with "Windows XP/Vista/7/8/8.1/10" and a list of supported software: FORScan, Elmconfig, FoCCcus, and FF2, indicating compatibility with the ELM327 adapter.

MAINTENANCE

To ensure the longevity and proper functioning of your ELM327 USB adapter, follow these general 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.
- **Handling:** Avoid dropping the adapter or subjecting it to strong impacts. Do not pull on the cable to disconnect it; always grasp the connector.
- **Cable Care:** Do not bend or crimp the USB cable excessively. Inspect the cable periodically for any signs of damage.

TROUBLESHOOTING

If you encounter issues while using the ELM327 USB adapter, consider the following troubleshooting steps:

- **Connection Issues:**

- Ensure the CH340T USB driver is correctly installed. Verify installation in your computer's Device Manager.
- Confirm the adapter is securely plugged into both the vehicle's OBD2 port and the computer's USB port.
- Ensure the vehicle's ignition is in the "ON" position.
- Try a different USB port on your computer.
- Restart your computer and the FORScan software.

- **Software Not Recognizing Adapter:**

- Verify that you are using a supported Windows operating system (XP, Vista, 7, 8, 10). This adapter is not compatible with macOS or Chrome OS.
- Check FORScan settings to ensure the correct COM port is selected for the adapter.
- Ensure you have the latest version of the FORScan software.

- **Limited Functionality / Module Access:**

- Confirm the MS-CAN/HS-CAN switch is in the correct position for the module you are trying to access. The switch is not labeled, so you may need to try both positions.
- Some advanced programming features in FORScan may require an extended license. Ensure your FORScan license supports the desired function.
- Newer vehicle models (e.g., 2019+ Mazda 3 and CX-30) may not be fully supported by this adapter.

- **"Reader not recommended" Message:**

- While the adapter is generally compatible, some specific vehicle models or FORScan versions might display this message. It may still read basic PCM data but might not access all modules.

If these steps do not resolve your issue, please contact PARANNIC customer support for further assistance.

SPECIFICATIONS

Feature	Detail
Brand	PARANNIC
Model Number	elm327 usb switch
Item Weight	5.6 ounces
Package Dimensions	5.55 x 5.12 x 1.65 inches
Connectivity	USB to OBD2
CAN Bus Support	HS-CAN, MS-CAN (with switch)
OBD2 Protocols	J1850PWM, HS-CAN, MS-CAN, HS-CAN2, HS-CAN3
Supported Operating Systems	Windows XP, Vista, 7, 8, 10
Supported Software	FORScan, ELMconfig, FoCCCus, FF2
UPC	787942695647

CUSTOMER SUPPORT

For any questions, technical assistance, or issues not covered in this manual, please contact PARANNIC customer support. We are committed to ensuring your satisfaction with our product.

While specific warranty details are not provided, the product typically adheres to standard return policies. For information regarding returns or replacements, please refer to your purchase platform's policies or contact the seller directly.