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AUTOPHIX OM123

AUTOPHIX OM123 OBD2 Scanner User Manual

Enhanced Automotive Engine Fault Code Reader

INTRODUCTION

This user manual provides detailed instructions for the proper use and maintenance of your AUTOPHIX OM123 OBD2 Scanner. The OM123 is a universal automotive diagnostic scan tool designed to read and clear engine fault codes, view live data, and retrieve vehicle information for OBDII/EOBD+CAN compliant vehicles. Please read this manual thoroughly before operating the device.

PRODUCT OVERVIEW

The AUTOPHIX OM123 OBD2 Scanner is a compact and user-friendly diagnostic tool. It features a large LCD display with backlight for clear readability and intuitive navigation buttons.

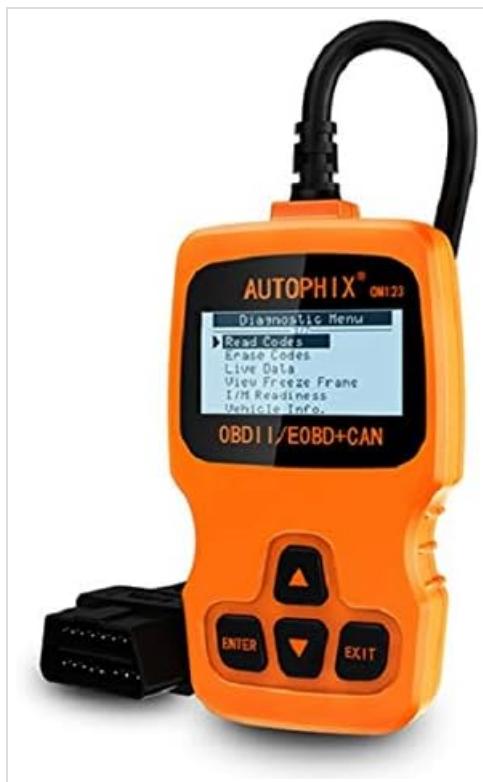


Figure 1: Front view of the AUTOPHIX OM123 OBD2 Scanner, showing the display and control buttons.

Key Features:

- **Diagnostic Functions:** Reads and clears Diagnostic Trouble Codes (DTCs), turns off the Malfunction Indicator Lamp (MIL), views live data streams, and displays freeze frame data.
- **I/M Readiness:** Checks the status of emission-related monitors to ensure vehicle readiness for emissions testing.
- **Vehicle Information Retrieval:** Accesses Vehicle Identification Number (VIN), Calibration ID (CIN), and Calibration Verification Number (CVN).
- **Broad Compatibility:** Supports all OBDII protocols, including CAN, J1850 PWM, J1850 VPW, ISO9141, and KWP2000. Compatible with most vehicles manufactured from 1996 onwards.
- **User-Friendly Interface:** Features a large 128 x 64 pixel LCD display with white backlight and contrast adjustment. Built-in OBD2 fault code definitions eliminate the need for external lookup.
- **No Batteries Required:** Powered directly via the detachable OBDII cable from the vehicle's OBDII port.
- **Multi-language Support:** Available in English, French, German, Spanish, Dutch, Finnish, Portuguese, and Russian.

OM123

OBDII SCANNER

Read Codes
Erase Codes
Live Data
View Freeze Frame
I/M Readiness
Vehicle Info.



Figure 2: The OM123 scanner's display showing the main diagnostic menu options: Read Codes, Erase Codes, Live Data, View Freeze Frame, I/M Readiness, and Vehicle Info.

Device Dimensions:



Figure 3: Dimensions of the AUTOPHIX OM123 scanner: approximately 125mm (height), 70mm (width), and 22mm (thickness).

SETUP

- Locate the OBDII Port:** The OBDII port is typically located under the dashboard on the driver's side of the vehicle. Refer to your vehicle's owner's manual for the exact location.
- Connect the Scanner:** With the vehicle's ignition off, firmly plug the OM123 scanner's OBDII connector into the vehicle's OBDII port.
- Power On:** Turn the vehicle's ignition to the "ON" position (do not start the engine). The scanner will automatically power on and display the main menu.
- Language Selection (if needed):** If the device is not in your preferred language, navigate to the "Settings" or "System Setup" menu (if available) to select the desired language.

OPERATING INSTRUCTIONS

Once the scanner is connected and powered on, use the **UP** and **DOWN** arrow buttons to navigate through the menu options, the **ENTER** button to confirm a selection, and the **EXIT** button to return to the previous screen.

1. Read Codes

This function retrieves Diagnostic Trouble Codes (DTCs) from the vehicle's computer. These codes indicate specific issues detected by the vehicle's onboard diagnostic system.

1. From the main menu, select "**Read Codes**" and press **ENTER**.
2. The scanner will communicate with the vehicle and display any stored DTCs.
3. Use the **UP** and **DOWN** buttons to scroll through multiple codes if present. The built-in DTC library provides definitions for common codes.

2. Erase Codes

This function clears all Diagnostic Trouble Codes (DTCs) from the vehicle's computer and turns off the Malfunction Indicator Lamp (MIL), also known as the "Check Engine" light. Ensure any underlying issues are resolved before clearing codes, as they may reappear if the problem persists.

1. From the main menu, select "**Erase Codes**" and press **ENTER**.
2. Confirm your selection when prompted.
3. The scanner will clear the codes and the MIL should turn off.

3. Live Data

This function displays real-time operational parameters from the vehicle's sensors and modules. This data can be useful for diagnosing intermittent problems or verifying repairs.

1. From the main menu, select "**Live Data**" and press **ENTER**.
2. The scanner will display a list of available data parameters.
3. Use the **UP** and **DOWN** buttons to scroll through the data.

4. View Freeze Frame

When an emission-related fault occurs, the vehicle's computer stores a "freeze frame" of data, capturing the engine conditions at the moment the fault was detected. This snapshot can help in diagnosing the cause of the problem.

1. From the main menu, select "**View Freeze Frame**" and press **ENTER**.
2. The scanner will display the stored freeze frame data.

5. I/M Readiness

I/M Readiness (Inspection/Maintenance Readiness) indicates whether the various emission-related systems on the vehicle are functioning correctly and have completed their self-tests. This is crucial for emissions testing.

1. From the main menu, select "**I/M Readiness**" and press **ENTER**.
2. The scanner will display the status of various monitors (e.g., Catalyst Monitor, O2 Sensor Monitor). "OK" or "Complete" indicates the test has passed; "INC" or "Not Complete" indicates the test has not yet run or failed.

6. Vehicle Information

This function allows you to retrieve important vehicle identification information.

1. From the main menu, select "**Vehicle Info.**" and press **ENTER**.
2. The scanner will display information such as VIN (Vehicle Identification Number), CIN (Calibration Identification Number), and CVN (Calibration Verification Number).

MAINTENANCE

- Cleaning:** Use a soft, dry cloth to clean the scanner's casing and screen. Avoid using abrasive cleaners or solvents.
- Storage:** Store the device in a clean, dry environment, away from extreme temperatures and direct sunlight.
- Cable Care:** Ensure the OBDII cable is not kinked or damaged. Always grasp the connector when plugging or unplugging, not the cable itself.
- Software Updates:** Check the manufacturer's website periodically for any available software updates to ensure optimal performance and compatibility.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Scanner does not power on or screen is blank.	<ul style="list-style-type: none">Loose connection to OBDII port.Vehicle ignition not in "ON" position.Vehicle's OBDII port fuse is blown.Vehicle is not OBDII compliant.	<ul style="list-style-type: none">Ensure the scanner is firmly plugged into the OBDII port.Turn the vehicle's ignition to the "ON" position (engine off).Check the vehicle's fuse box for a blown fuse related to the OBDII port (often labeled "Cigar," "Accessory," or "OBD"). Replace if necessary.Verify your vehicle is OBDII compliant (generally 1996 and newer for US vehicles).
Communication error with vehicle.	<ul style="list-style-type: none">Incorrect protocol detected.Faulty connection.Vehicle's ECU is not responding.	<ul style="list-style-type: none">Ensure the vehicle is OBDII compliant.Check the connection to the OBDII port.Try connecting to a different OBDII compliant vehicle to rule out scanner malfunction.Consult a professional mechanic if the issue persists.
Codes cannot be cleared.	<ul style="list-style-type: none">Underlying fault still present.Ignition not in "ON" position.	<ul style="list-style-type: none">Address the root cause of the DTCs before attempting to clear them.Ensure the vehicle's ignition is in the "ON" position (engine off) when clearing codes.

SPECIFICATIONS

Feature	Detail
Model Number	OM123
Display	128 x 64 pixel LCD with white backlight and contrast adjustment
Operating Voltage	9-16V (via OBDII port)

Feature	Detail
Supported Protocols	CAN, J1850 PWM, J1850 VPW, ISO9141, KWP2000
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Dimensions	Approx. 125mm x 70mm x 22mm
Weight	Approx. 10.4 ounces (295 grams)
Certifications	FCC, CE, RoHS

WARRANTY AND SUPPORT

The AUTOPHIX OM123 OBD2 Scanner comes with a one-year warranty from the date of purchase, covering manufacturing defects. For technical support, warranty claims, or further assistance, please contact AUTOPHIX customer service through their official website or the retailer where the product was purchased. For more information, visit the official [AUTOPHIX Store](#).