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Foseal FO-01

Foseal OBD2 Code Reader FO-01 User Manual

Model: FO-01 | Brand: Foseal

1. INTRODUCTION AND OVERVIEW

The Foseal FO-01 OBD2 Code Reader is a professional diagnostic scan tool designed for automotive use. It allows users to quickly read and clear trouble codes, view live data, and perform various diagnostic tests on OBDII protocol compliant vehicles manufactured since 1996 (US-based) and 2000 (EU-based and Asian cars).

This device features a classic handheld design, ensuring ease of use for both professionals and beginners. Its large LCD display provides clear readability of test results.



Figure 1: Foseal FO-01 OBD2 Code Reader displaying the diagnostic menu.

2. PRODUCT FEATURES

- **Classic Handheld Design:** Plug and play operation for quick scanning and clearing of trouble codes.
- **Comprehensive Diagnostic Functions:** Reads and clears engine trouble codes, turns off Check Engine Light, performs I/M monitor readiness tests, views freeze frame data, and monitors engine coolant temperature.
- **Wide Vehicle Compatibility:** Works with most 1996 US-Based cars, SUVs, Light Trucks, and 2000 EU-Based and Asian cars supporting OBD2 protocols (CAN, ISO9141, J1850 VPW, J1850 PWM, KWP2000).
- **Clear Display:** Built-in 128 x 64 pixel LCD display with white backlight and contrast adjustment for direct reading of test results.
- **DTC Lookup:** Provides definitions for diagnostic trouble codes directly.
- **Multiple Language Support:** Supports 6 languages.



Figure 2: Overview of the Foseal FO-01's key functions.



Figure 3: Physical dimensions and labeled components of the Foseal FO-01.

3. SETUP AND CONNECTION

The Foseal FO-01 OBD2 Code Reader is designed for simple plug-and-play operation. No batteries or external power supply are required as the device draws power directly from the vehicle's OBDII port.

3.1 Locating the OBDII Port

The OBDII (On-Board Diagnostics II) port is typically located under the dashboard on the driver's side of the vehicle. It is a 16-pin trapezoidal connector.

3.2 Connection Procedure

1. Ensure the vehicle's ignition is in the "OFF" position.
2. Locate the vehicle's 16-pin OBDII Data Link Connector (DLC).
3. Firmly plug the Foseal FO-01's OBDII connector into the vehicle's DLC.
4. Turn the vehicle's ignition to the "ON" position (engine can be off or running, depending on the test). The scanner will automatically power on and establish communication with the vehicle's ECU.



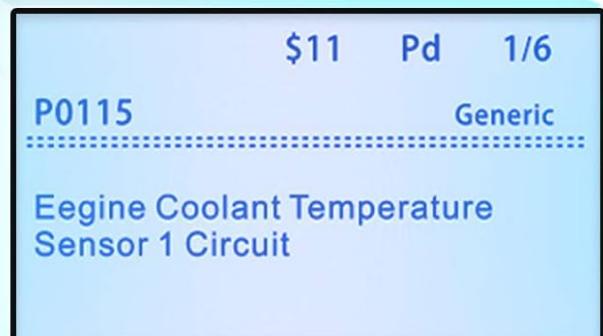
Figure 4: The Foseal FO-01 connected to a vehicle's OBDII port, displaying live data.

4. OPERATING INSTRUCTIONS

Once connected, the Foseal FO-01 will automatically power on and display the main diagnostic menu. Use the navigation buttons (UP/DOWN arrows, OK, RETURN) to navigate through the menus and select functions.

4.1 Reading Diagnostic Trouble Codes (DTCs)

1. From the main menu, select "Read Codes" and press "OK".
2. The scanner will display any stored DTCs (Pending, Confirmed, Permanent) along with their descriptions.
3. Use the UP/DOWN arrows to scroll through multiple codes if present.



DTC Data Pool

*Giving You Definition of the Codes Directly
You Can Also Use DTC Lookup Data Pool to
check DTC meaning for others*

Figure 5: The FO-01 displaying a Diagnostic Trouble Code (DTC) and its corresponding definition.

4.2 Erasing Diagnostic Trouble Codes (DTCs)

Warning: Clearing DTCs will also clear the Freeze Frame data and reset the I/M Readiness Monitor Status. Ensure any underlying issues are resolved before clearing codes.

1. From the main menu, select "Erase Codes" and press "OK".
2. Confirm your selection when prompted.
3. The scanner will attempt to clear all stored DTCs and turn off the Check Engine Light.

4.3 Viewing Freeze Frame Data

Freeze Frame Data records the vehicle's operating conditions at the moment a Diagnostic Trouble Code (DTC) is set. This information can help in diagnosing the cause of the fault.

1. From the main menu, select "View Freeze Frame" and press "OK".
2. The scanner will display various parameters such as engine RPM, vehicle speed, coolant temperature, fuel system status, etc., recorded at the time of the fault.

4.4 I/M Readiness Monitor Status

I/M Readiness Monitors are tests performed by the vehicle's onboard computer to ensure emissions-related components are functioning correctly. This function indicates if the monitors have run and completed their diagnostic testing.

1. From the main menu, select "I/M Readiness" and press "OK".
2. The display will show the status of various monitors (e.g., Misfire Monitor, Fuel System Monitor, Comprehensive Component Monitor) as "OK" (completed) or "INC" (incomplete).



Figure 6: The FO-01 displaying I/M Readiness status and a real-time data curve example.

4.5 Live Data Stream

The Live Data Stream function allows you to view real-time sensor data from the vehicle's engine control unit (ECU). This can be crucial for diagnosing intermittent problems or verifying repairs.

1. From the main menu, select "Data Stream" (or similar option) and press "OK".
2. The scanner will display a list of available live data parameters. Select the ones you wish to view.

3. Parameters may include engine RPM, vehicle speed, coolant temperature, oxygen sensor readings, fuel pressure, etc.

4.6 DTC Lookup

The built-in DTC Lookup feature provides direct definitions for generic and manufacturer-specific diagnostic trouble codes, eliminating the need to consult external resources.

1. From the main menu, select "DTC Lookup" and press "OK".
2. Enter the DTC code using the navigation buttons.
3. The scanner will display the definition of the entered code.

5. MAINTENANCE

The Foseal FO-01 OBD2 Code Reader requires minimal maintenance to ensure its longevity and proper functioning.

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners or solvents that could damage the casing or screen.
- **Storage:** Store the scanner in a clean, dry environment, away from extreme temperatures, direct sunlight, and excessive moisture.
- **Cable Care:** Do not bend or crimp the OBDII cable excessively. Always grasp the connector when plugging or unplugging, not the cable itself.
- **Software Updates:** Check the manufacturer's website periodically for any available firmware updates to ensure optimal performance and compatibility with newer vehicles.

6. TROUBLESHOOTING

If you encounter issues while using your Foseal FO-01 OBD2 Code Reader, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Scanner does not power on.	Loose connection to OBDII port. Vehicle ignition not "ON". Vehicle's OBDII port fuse blown.	Ensure the connector is firmly seated. Turn vehicle ignition to "ON" position. Check vehicle's fuse box for a blown fuse related to the OBDII port (consult vehicle manual).
"Link Error" or "Communication Error" message.	Vehicle not OBDII compliant. Loose connection. Ignition not "ON". Faulty vehicle ECU.	Verify vehicle is OBDII compliant (1996 US, 2000 EU/Asian). Check connection. Ensure ignition is "ON". Consult a professional mechanic if other steps fail.
Cannot clear codes.	Underlying fault still present. Ignition not "ON".	Codes cannot be cleared if the fault causing them is still active. Diagnose and repair the issue first. Ensure ignition is "ON" and engine is off.



Figure 7: The FO-01 assisting in diagnosing vehicle system status.

7. SPECIFICATIONS

Feature	Detail
Model Number	FO-01
Display	128 x 64 pixel LCD with backlight
Operating Voltage	9-16V (via vehicle OBDII port)
Supported Protocols	CAN, ISO9141, J1850 VPW, J1850 PWM, KWP2000
Dimensions (Approx.)	8.03 x 5.16 x 1.73 inches (Package Dimensions)
Item Weight	10.6 ounces
Cable Length	2.5 feet (approx. 0.76 meters)

Feature	Detail
Supported Languages	English, French, Spanish, Italian, Dutch, German



SUITABLE FOR OBDII PROTOCOLS

VEHICLES WORLD WIDE

Car code reader for code diagnosis supports 6 language settings





MULTIPLE LANGUAGE SETTINGS



English



French



Spanish



Italian



Dutch



German

Figure 8: The FO-01 supports multiple languages for global usability.

8. WARRANTY AND SUPPORT

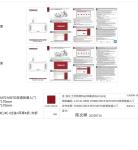
Foseal provides an 18-month quality insurance for the FO-01 OBD2 Code Reader. For any problems or inquiries, please contact Foseal customer support through the official channels or the retailer where the product was purchased.

For further assistance, you may refer to the official Foseal website or contact their customer service department.

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Related Documents - FO-01

 <p>Foseal Car WIFI OBD2 Scanner Check Engine Diagnostic Tool User Manual</p> <p>Works with iOS & Android Device</p>	<p>Foseal Car WIFI OBD2 Scanner User Manual: Diagnostic Tool for iOS & Android</p> <p>Comprehensive user manual for the Foseal Car WIFI OBD2 Scanner. Learn how to connect, use with iOS and Android apps, understand product specifications, and troubleshoot common issues for check engine diagnostics.</p>
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 <p>Foseal Car WiFi OBD2 Scanner Check Engine Diagnostic Tool User Manual Works with iOS & Android Device</p>	<p><u>Foseal Car WiFi OBD2 Scanner User Manual</u></p> <p>User manual for the Foseal Car WiFi OBD2 Scanner, a diagnostic tool that connects to your smartphone or tablet to read and clear engine trouble codes and monitor real-time performance.</p>
 <p>Trademarks FOXWELL is a trademark of Shenzhen Foxwell Technology Co., Ltd. All other marks are trademarks or registered trademarks of their respective holders. Copyright Information Copyright © 2018 Foxwell Technology Co., Ltd. All rights reserved. Disclaimer The information, specifications, and illustrations in this manual are based on the current knowledge and experience of Foxwell. Foxwell reserves the right to make changes, at any time without notice. www.foxwelltech.com For Technical Assistance, send us email at customerservice@foxwelltech.com</p>	<p><u>FOXWELL NT909 Premier Diagnostic Platform User Manual</u></p> <p>Comprehensive user manual for the FOXWELL NT909 Premier Diagnostic Platform, detailing its features, operation, maintenance, and advanced diagnostic capabilities for automotive professionals.</p>
	<p><u>THINKCHECK M70 MOTO Quick Start Manual - THINKCAR</u></p> <p>Concise guide to setting up and using the THINKCHECK M70 MOTO motorcycle diagnostic tool. Learn about connection, Wi-Fi setup, functions, settings, FAQs, and warranty information from THINKCAR.</p>
	<p><u>MUCAR Driverscan Quick Start Guide - Setup and Activation</u></p> <p>A concise guide to setting up and activating your MUCAR Driverscan device, including app download, device binding, initial steps, FAQ, and warranty information.</p>
	<p><u>Creader VII+ Upgrade Process Guide</u></p> <p>A step-by-step guide on how to upgrade the Creader VII+ diagnostic tool, including software download, installation, and the upgrade process.</p>