

AUTOUTLET EFU127-V

AUTOUTLET OBD2 Diagnostic Tool User Manual

Model: EFU127-V

INTRODUCTION

This manual provides detailed instructions for the operation and maintenance of your AUTOUTLET OBD2 Diagnostic Tool. Please read this manual thoroughly before using the device to ensure proper function and safety. This tool is designed to assist in diagnosing vehicle issues by reading and clearing diagnostic trouble codes (DTCs), monitoring live data, and performing various system tests.

SAFETY PRECAUTIONS

Always observe the following safety guidelines to prevent personal injury or damage to the vehicle or the diagnostic tool:

- Ensure the vehicle is in a safe environment for testing.
- Do not connect or disconnect the tool when the ignition is on or the engine is running.
- Place the transmission in "PARK" (for automatic) or "NEUTRAL" (for manual) and ensure the parking brake is engaged.
- Keep the diagnostic tool dry, clean, and free from oil or grease. Use a mild detergent on a clean cloth to clean the exterior if necessary.
- Place blocks in front of the drive wheels and never leave the vehicle unattended while performing tests.
- Keep clothing, hair, hands, tools, and test equipment away from all moving or hot engine parts.

PRODUCT OVERVIEW

The AUTOUTLET OBD2 Diagnostic Tool offers a range of functions for comprehensive vehicle diagnostics.

MULTIFUNCTIONAL DIAGNOSTIC TOOL



Image: Overview of the diagnostic tool's multifunctional display, illustrating options like Read Codes, Erase Codes, Freeze Frame, I/M Readiness, Vehicle Information, Live PCM Data, Battery Test, On-Board Monitor Test, O2 Sensor Test, Component Test, and Bluetooth Upgrade.

The device features a 2.4-inch LCD display and intuitive button controls for navigation. It supports 10 OBDII diagnostic functions and 9 internationally used protocols, ensuring broad vehicle compatibility.

DEVICE LAYOUT AND CONTROLS

Familiarize yourself with the buttons and display of the diagnostic tool.



Image: Detailed diagram of the diagnostic tool showing the LCD Display, BT Button (Bluetooth mode switch), F1 Button (Customized button), Up Button, Down Button, EXIT (Cancel Button), and OK (Confirmation Button). The OBDII connector is also visible.

- **LCD Display:** Shows diagnostic information, menus, and results.
- **BT Button:** Activates or deactivates Bluetooth mode.
- **F1 Button:** A customizable function button.
- **Up/Down Buttons:** Navigate through menu options.
- **EXIT Button:** Cancels an operation or returns to the previous screen.
- **OK Button:** Confirms a selection or action.

SETUP AND CONNECTION

To begin using the AUTOUTLET OBD2 Diagnostic Tool, follow these steps:

1. Locate your vehicle's 16-pin Data Link Connector (DLC). This is usually located under the dashboard on the driver's side.
2. Ensure the vehicle's ignition is OFF.
3. Plug the diagnostic tool's OBDII connector firmly into the vehicle's DLC.
4. Turn the vehicle's ignition to the ON position (engine off). The diagnostic tool will power on automatically.

The device is powered directly from the vehicle's battery (5.0 V to 18.0 V).

OPERATING INSTRUCTIONS

The AUTOUTLET OBD2 Diagnostic Tool supports 10 OBDII diagnostic functions:

- **Read Codes:** Retrieves Diagnostic Trouble Codes (DTCs) from the vehicle's computer.
- **Erase Codes:** Clears DTCs from the vehicle's computer and turns off the Malfunction Indicator Lamp (MIL).
- **Live Data:** Displays real-time data stream from the vehicle's sensors. The tool can read up to 88 real-time data streams.
- **O2 Sensor Test:** Retrieves O2 sensor monitor test results.
- **Freeze Frame:** Displays a snapshot of operating conditions at the time of an emission-related fault.
- **Vehicle Information:** Retrieves vehicle identification number (VIN), calibration ID, and calibration verification number (CVN).
- **I/M Readiness Status:** Checks the readiness of the emission monitoring system.
- **Component Test:** Allows testing of specific components or systems.
- **On-Board Monitor Test:** Retrieves results for on-board diagnostic monitoring tests for specific components/systems.
- **Battery Detection:** Checks battery voltage, real-time voltage curve, and battery life. *Note: This function is only applicable to lead-acid batteries. It is not suitable for hybrid vehicles with non-lead-acid batteries. If the real-time monitoring curve does not change when the battery is turned on, it indicates that your vehicle's battery is not a lead-acid battery.*

One-Touch Detection Function

The tool features a one-touch detection function with a DTC fault signal light that quickly indicates whether the vehicle has a fault code.

ONE-TOUCH DETECTION FUNCTION

With a DTC fault signal light that quickly indicates whether the vehicle has a fault code



Image: A user holding the diagnostic tool connected to a car's OBD port, with the screen displaying a fault code P0230 for "Fuel Pump Primary Circuit". This demonstrates the one-touch detection feature.

Battery Test Function

The integrated battery test function quickly reads battery voltage and evaluates battery life.

BATTERY TEST FUNCTION

Quickly reads battery voltage and evaluates battery life



Standard
9 protocol



5-18V
Voltage



2.4 inch
display



Data stream
in real time

This OBDII battery life detection function is only available for lead-acid batteries.



Image: The diagnostic tool displaying battery test results, categorizing battery health as "Poor", "Medium", or "Good". It also highlights support for 9 standard protocols, 5-18V voltage, 2.4-inch display, and real-time data stream.

BLUETOOTH CONNECTIVITY

The AUTOUTLET OBD2 Diagnostic Tool supports wireless Bluetooth connection, allowing you to pair it with your mobile device for extended functionalities.

BLUETOOTH DETECTION FUNCTION

One-key full-vehicle inspection, statistical analysis of fuel consumption, vehicle performance test and other functions



Image: The diagnostic tool displaying a Bluetooth icon, indicating active Bluetooth mode. A smartphone screen next to it shows a compatible OBD app (YMOBD) displaying vehicle data like engine coolant temperature, battery voltage, and engine RPM. This illustrates the wireless Bluetooth connection feature.

Using a compatible OBD software application on your mobile phone (available for download from app stores or via QR code in the manual), you can:

- Perform a full vehicle inspection with one button.
- Store and playback data streams.
- Conduct statistical analysis of fuel consumption.
- Perform vehicle performance tests.
- Simulate annual vehicle inspections.
- Receive firmware OTA (Over-The-Air) upgrades via Bluetooth.

For the companion app, visit ymobd.com or scan the QR code provided in the physical manual.

LANGUAGE SUPPORT

The OBD2 tester supports 10 display languages, allowing users to view DTC definitions directly without needing to search online.

SUPPORT FOR 10 LANGUAGES



German



English



French



Spanish



Italian



Dutch



Polish



Finnish



Portuguese



Chinese



Supports 9 internationally used protocols

1. SAE J1850 PWM (41.6Kbaud)
2. SAE J1850 VPW (10.4Kbaud)
3. ISO9141-2(5 baud init, 10.4Kbaud)
4. ISO14230-4 KWP (5 baud init, 10.4 Kbaud)
5. ISO14230-4 KWP (fast init, 10.4 Kbaud)
6. ISO15765-4 CAN (11bit ID, 500 Kbaud)
7. ISO15765-4 CAN (29bit ID, 500 Kbaud)
8. ISO15765-4 CAN (11bit ID, 250 Kbaud)
9. ISO15765-4 CAN (29bit ID, 251 Kbaud)

Image: Flags of Germany, English, French, Spanish, Italian, Dutch, Polish, Finnish, Portuguese, and Chinese, indicating the 10 supported languages. Below, a world map shows vehicle compatibility: US (after 1996), EU (after 2000), and Asia (after 2000).

Supported languages include: German, English, French, Dutch, Spanish, Chinese, Italian, Polish, Finnish, and Portuguese.

VEHICLE COMPATIBILITY

This car fault code reader offers broad compatibility with 99% of OBDII-compliant vehicles.

- Most US vehicles manufactured after 1996.
- EU vehicles manufactured after 2000.
- Asian vehicles manufactured after 2009.

It is compatible with the following 9 OBDII protocols:

- 1. SAE J1850 PWM (41.6 Kbaud)
- 2. SAE J1850 VPW (10.4 Kbaud)
- 3. ISO9141-2 (5 Baud init, 10.4 Kbaud)
- 4. ISO14230-4 KWP (5 Baud init, 10.4 Kbaud)
- 5. ISO14230-4 KWP (fast init, 10.4 Kbaud)
- 6. ISO15765-4 CAN (11 bit ID, 500 KBaud)
- 7. ISO15765-4 CAN (29 bit ID, 500 KBaud)
- 8. ISO15765-4 CAN (11 bit ID, 250 KBaud)
- 9. ISO15765-4 CAN (29 bit ID, 251 Kbaud)

Important Note: This OBD2 diagnostic tool uses the international common 9-protocol to support 12V gasoline cars and light trucks (non-electric). It is not compatible with diesel cars or other trucks that use a different protocol. If the vehicle has been modified or the OBD interface is defective, the OBD function may be affected. Please contact support for feedback in such cases.

The tool can read and clear engine information from OBDII systems. However, it does not support non-OBDII systems, including subsystem faults (e.g., air conditioning stepper motor faults), ABS with airbags, and oil service indicator lights.

SPECIFICATIONS

Display	2.4 inch, 128 x 64 pixels
Operating Temperature	0 °C to 60 °C (32 °F to 140 °F)
Storage Temperature	-20 °C to 70 °C (-1 °F to 158 °F)
Power Supply	5.0 V to 18.0 V via vehicle battery
Dimensions (L x W x H)	133 mm (5.2 in) x 78 mm (3.1 in) x 21 mm (0.82 in)
Net Weight	138 g (0.3 lb)
Operating System	Linux
Model Number	EFU127-V

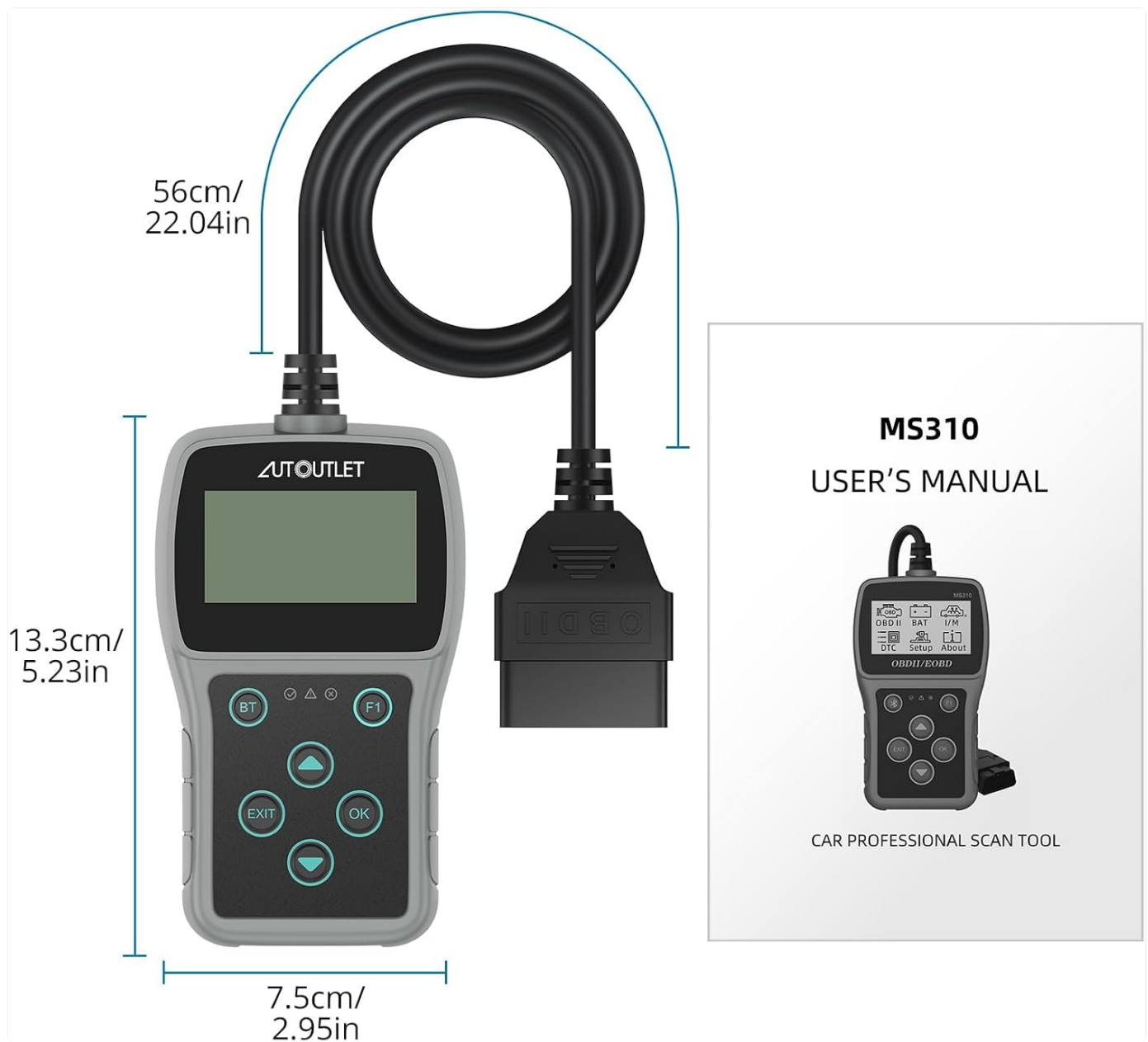


Image: Diagram showing the physical dimensions of the AUTOUTLET OBD2 Diagnostic Tool (Model MS310, which is likely a generic model name for EFU127-V), with measurements of 13.3cm (5.23in) length, 7.5cm (2.95in) width, and a cable length of 56cm (22.04in).

TROUBLESHOOTING

If you encounter issues with your diagnostic tool, consider the following:

- **No Power:** Ensure the OBDII connector is securely plugged into the vehicle's DLC and the ignition is in the ON position. Check the vehicle's battery voltage.
- **Link Error:** Verify that the vehicle is OBDII compliant. Check for a secure connection to the DLC. Turn the ignition off, wait 10 seconds, then turn it back on and retry.
- **Tool Does Not Respond:** If the tool freezes, a software error might have occurred. Disconnect the tool from the vehicle, wait a few seconds, and reconnect. If the problem persists, contact customer support.
- **Battery Test Inaccurate:** Remember the battery test function is for lead-acid batteries only. If your vehicle uses a different battery type (e.g., in hybrid vehicles), this function will not provide accurate results.
- **Limited Functionality:** Ensure your vehicle is compatible with the supported OBDII protocols and is not a diesel vehicle or a truck using a different protocol. Non-OBDII systems (like ABS or airbag faults) are not supported by this tool.

MAINTENANCE

To ensure the longevity and proper functioning of your AUTOUTLET OBD2 Diagnostic Tool:

- Store the tool in a clean, dry environment away from extreme temperatures.
- Avoid dropping the device or subjecting it to strong impacts.
- Clean the exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Regularly check the cable and connector for any signs of damage.
- Keep the software updated via Bluetooth OTA upgrades when available.

PACKAGE CONTENTS

The package includes:

- 1 x AUTOUTLET OBD2 Scanner Code Reader
- 1 x User Instructions Manual

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official AUTOUTLET website. If you encounter issues not covered in this manual, or if your vehicle's OBD interface is defective, please contact customer support for assistance.

ASK A QUESTION ABOUT THIS MANUAL

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

Anonymous

Email

you@example.com

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

