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› Creator C502 OBD2 Diagnostic Scanner User Manual

Creator C502

Creator C502 OBD2 Diagnostic Scanner

USER MANUAL

1. Introduction

The Creator C502 is a multi-functional diagnostic tool designed for vehicle owners and professional workshops. It supports comprehensive diagnostics for Mercedes-Benz vehicles manufactured before 2016 and is compatible with all OBDII/EOBD compliant vehicles (US, Asian, and European models from 1996 onwards for petrol, and 2004 onwards for diesel). This manual provides essential information for setting up, operating, maintaining, and troubleshooting your C502 diagnostic scanner.



Figure 1: Creator C502 Diagnostic Scanner displaying its main menu.

2. Package Contents

Verify that all items listed below are included in your package:

- 1 x Creator C502 Diagnostic Scanner Unit
- 1 x User's Manual (this document)



Figure 2: Contents of the Creator C502 package, including the scanner, manual, and carrying case.

3. Setup

Follow these steps to prepare your C502 scanner for use:

1. **Locate the Vehicle's OBDII Port:** The OBDII port is typically located under the dashboard on the driver's side, though its exact position may vary by vehicle model. Consult your vehicle's owner's manual if you cannot locate it.
2. **Connect the Scanner:** Plug the C502 scanner's OBDII connector securely into the vehicle's OBDII port. Ensure a firm connection.
3. **Power On the Vehicle:** Turn the vehicle's ignition to the 'ON' position. The engine does not need to be running. The scanner will power on automatically.
4. **Initial Language Setup:** Upon first use, or after a reset, you may be prompted to select your preferred language. Use the navigation buttons to select and confirm.



Figure 3: The Creator C502 scanner with its integrated OBDII cable, ready for connection to a vehicle.

4. Operating Instructions

The C502 scanner features a color LCD display and a user-friendly interface. Navigation is performed using the directional buttons and selection keys.



Figure 4: Detailed views of the C502 scanner's interface, including its navigation buttons and display.

4.1. Main Menu Navigation

Upon powering on, the device will display the main menu. Use the **UP** and **DOWN** arrow buttons to scroll through options, and the **ENTER** button (green arrow) to select.

- **Read Trouble Code:** Accesses diagnostic trouble codes (DTCs).
- **O2 Sensor Monitoring Test:** Displays live O2 sensor data.
- **Language Setup:** Allows changing the interface language.
- **Automatically Search:** Initiates an automatic scan for vehicle systems.

4.2. Diagnostic Functions

The C502 supports a range of diagnostic functions for both Mercedes-Benz and generic OBDII/EOBD systems:

- **Read Codes:** Retrieves current, pending, and permanent Diagnostic Trouble Codes (DTCs) from the vehicle's Engine Control Unit (ECU).
- **Erase Codes:** Clears DTCs from the ECU and turns off the Check Engine Light (MIL). This also resets monitors.
- **ECU Information:** Displays vehicle information such as Vehicle Identification Number (VIN), Calibration ID (CIN), and Calibration Verification Number (CVN).

- **Live Datastream:** Shows real-time data from various vehicle sensors and components. This data can also be displayed graphically.
- **I/M Readiness Status:** Indicates whether the various emissions-related systems on the vehicle are operating correctly and are ready for inspection and maintenance testing.
- **O2 Sensor Test Data:** Displays the results of oxygen sensor monitoring tests.
- **Modules Present Test:** Identifies which control modules are present in the vehicle.



Figure 5: The Creator C502 scanner in use within a vehicle, demonstrating its practical application.

4.3. Mercedes-Benz Specific Functions

For Mercedes-Benz models before 2016, the C502 supports reading and clearing diagnostic faults across multiple systems. This includes various chassis types such as 117, 129, 140, 156, 163, 164, 166, 168, 169, 170, 171, 172, 176, 197, 199, 202, 203, 204, 205, 207, 208, 209, 210, 211, 212, 215, 216, 217, 218, 219, 220, 221, 222, 230, 231, 240, 245, 246, 251, 253, 292, 461, 463, X164, X204.

4.4. OBDII/EOBD Specific Functions

The C502 is compliant with OBDII/EOBD protocols, supporting:

- All 2001 and later OBDII compliant PETROL European vehicles.
- All 2004 and later OBDII compliant DIESEL European vehicles.

- All 1996 and later OBDII compliant US and Asian vehicles.
- Support for CAN (Controller Area Network) and all other current OBD-II protocols.

5. Maintenance

To ensure optimal performance and access to the latest vehicle data and features, it is recommended to keep your C502 scanner's software updated. The device offers free lifetime updates from the official website. Refer to the official Creator website for detailed instructions on how to perform software updates.

6. Troubleshooting

6.1. Vehicle Linking Error

A communication error occurs if the scan tool fails to communicate with the vehicle's ECU (Engine Control Unit). If this happens, perform the following checks:

1. Verify that the vehicle's ignition is in the 'ON' position.
2. Check if the scan tool's OBDII connector is securely connected to the vehicle's Data Link Connector (DLC).
3. Verify that the vehicle is OBD2 compliant.
4. Turn the ignition off and wait for approximately 10 seconds. Then, turn the ignition back to 'ON' and attempt the test again.
5. If the issue persists, verify that the control module itself is not defective.

7. Specifications

Feature	Detail
Model Number	C502 (Manufacturer Part Number: SC347)
Brand	Creator
Operating Voltage	DC 8-36V (as indicated on device back)
Supported Protocols	CAN and all other current OBD-II protocols
Display	Color LCD
Languages Supported	English, German
Item Weight	465 g
Package Dimensions	28.3 x 17 x 6.6 cm
UPC	889327030804



Figure 6: Rear view of the C502 scanner, displaying its operating voltage range and serial number.

8. Support

For further assistance, software updates, or detailed product information, please visit the official Creator website. The product includes free lifetime software updates to ensure compatibility with new vehicle models and diagnostic protocols.

