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mucar CS4

MUCAR CS4 OBD2 Scanner User Manual

Comprehensive Guide for Your Car Diagnostic Tool

1. Introduction

The MUCAR CS4 OBD2 Scanner is a professional diagnostic tool designed to help users identify and resolve issues within their vehicle's systems. This device offers comprehensive diagnostics for Engine, Transmission, ABS, and SRS systems, along with five essential maintenance reset functions. Featuring a 5-inch HD touchscreen and automatic VIN recognition, the CS4 provides an efficient and user-friendly experience for vehicle maintenance and troubleshooting.



Figure 1: MUCAR CS4 OBD2 Scanner main unit.

2. Setup

1. **Unboxing:** Carefully remove the MUCAR CS4 OBD2 Scanner, Type-C Cable, and User Manual from the packaging.
2. **Powering On:** Connect the scanner to your vehicle's OBD2 port. The device will power on automatically.
3. **Initial Setup:** Follow the on-screen prompts to select your preferred language and configure Wi-Fi settings. A stable Wi-Fi connection is recommended for software updates.
4. **Software Update:** It is recommended to update the system software to the latest version upon receiving the product to ensure optimal performance and access to the newest features and vehicle models. Navigate to the "Update" section on the main menu and follow the instructions.



Figure 2: Connecting the MUCAR CS4 to the vehicle's OBD2 port.



Figure 3: MUCAR CS4 main menu interface.

3. Operating Instructions

3.1. System Diagnostics

The MUCAR CS4 supports diagnostics for four main vehicle systems: Engine (ECM), Transmission (TCM), Anti-lock Braking System (ABS), and Supplemental Restraint System (SRS).

- **Engine System (ECM):** Reads and clears engine fault codes, views live data, and turns off the Malfunction Indicator Light (MIL).
- **Transmission System (TCM):** Diagnoses transmission issues, reads and clears transmission fault codes.
- **ABS System:** Reads and clears ABS fault codes, performs live data streams for ABS components.
- **SRS System (Airbag):** Detects electronic parameters to check the health status of the airbag system.



Figure 4: Overview of the 4 System Diagnostics capabilities.

3.2. Maintenance Functions (5 Reset Services)

The CS4 provides five commonly used maintenance reset functions to ensure vehicle safety and proper operation after repairs.

- **Oil Reset:** Resets the oil maintenance light after an oil change, enabling a new maintenance cycle.
- **EPB (Electronic Parking Brake) Reset:** Resets the electronic parking brake system after brake pad replacement.
- **SAS (Steering Angle Sensor) Reset:** Performs steering angle learning after vehicle disassembly or replacement of steering-related parts.
- **TPMS (Tire Pressure Monitoring System) Reset:** Resets the TPMS system and turns off the tire pressure fault indicator light after tire pressure adjustments or sensor replacement.
- **Throttle Body Adaptation (ETS Reset):** Performs throttle matching when replacing the electronic control unit, powering off the electronic control unit, replacing or disassembling the electronic throttle assembly, or cleaning the throttle.



Figure 5: The 5 Maintenance Reset Functions.

3.3. Full OBDII Functions

The CS4 supports all 10 OBDII test modes, providing comprehensive diagnostic capabilities.

- **Read/Clear Codes:** Reads Diagnostic Trouble Codes (DTCs) and clears them after repairs.
- **Live Data Stream:** Displays real-time data parameters from the vehicle's sensors in text or graph format. Up to 4 parameters can be displayed simultaneously.
- **Freeze Frame Data:** Captures a snapshot of vehicle conditions at the moment a fault code is set.
- **I/M Readiness:** Checks the readiness of emission-related monitors.
- **O2 Sensor Test:** Retrieves O2 sensor monitor test results.
- **On-Board Monitor Test:** Retrieves results for emission-related powertrain components and systems.
- **EVAP Test:** Initiates a test of the Evaporative Emission Control System.
- **Vehicle Information:** Retrieves vehicle identification number (VIN), calibration ID (CALID), and calibration verification number (CVN).
- **DTC Code Lookup:** Provides definitions for diagnostic trouble codes.



Figure 6: Full OBDII Functions supported by MUCAR CS4.

3.4. Auto VIN and Scan

The MUCAR CS4 can automatically obtain the vehicle's VIN (Vehicle Identification Number) for quick and accurate vehicle identification. This feature streamlines the diagnostic process.



Figure 7: Auto VIN Scan feature.

3.5. Data Recording and Playback

The device allows for recording of live data streams, which can be played back later for detailed analysis. This is useful for identifying intermittent issues or reviewing diagnostic sessions.

3.6. Report Generation and Sharing

After a diagnostic session, the MUCAR CS4 can auto-generate a health report. This report can be printed or shared, facilitating communication with mechanics or for personal record-keeping.

3.7. Battery Voltage Monitoring

The scanner includes a real-time battery voltage graphing service, which helps in judging the state of the vehicle's battery.

3.8. Official Product Video

▶ **Watch video online**
OBD2 Scanner Code Reader

Video 1: An official product video demonstrating the MUCAR CS4 OBD2 Scanner's features and ease of use, including system diagnostics and reset functions. This video provides a visual guide to the device's operation.

4. Maintenance

- **Software Updates:** Regularly check for and install software updates via Wi-Fi. Updates provide new features, expanded vehicle coverage (up to 2024 models), performance optimizations, and bug fixes.
- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the scanner in a cool, dry place away from direct sunlight and extreme temperatures when not in use.

5. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Loose connection to OBD2 port; vehicle ignition off; vehicle battery low.	Ensure the scanner is securely plugged into the OBD2 port. Turn the vehicle ignition to the ON position. Check vehicle battery voltage.
Cannot connect to Wi-Fi.	Incorrect Wi-Fi password; out of Wi-Fi range; Wi-Fi network issue.	Verify Wi-Fi password. Move closer to the Wi-Fi router. Restart the Wi-Fi router.
Fault code remains after clearing.	Underlying hardware fault still exists in the vehicle.	The fault code indicates a persistent issue. Repair the vehicle's hardware fault first, then attempt to clear the code again. Clearing codes without addressing the root cause will not resolve the issue.
Slow operation or freezing.	Outdated software; too many applications running (if applicable); low memory.	Perform a software update. Restart the device. If issues persist, contact customer support.

6. Specifications

- **Model:** MUCAR CS4
- **Operating System:** Android 7.0
- **Display:** 5-inch HD Touchscreen (800x480 resolution)
- **Dimensions:** Approximately 8 x 4 x 1 inches
- **Weight:** Approximately 2 pounds
- **Connectivity:** Wired (OBD2), Wi-Fi
- **Supported Protocols:** ISO 14230-4 KWP, ISO 15765-4 CAN, ISO 9141-2 ISO, SAE J1850 VPW, SAE J1850 PWM
- **Vehicle Coverage:** Supports 94+ car brands, OBDII-compliant vehicles worldwide (America since 1996, EU since 2000, Asia since 2008).
- **Languages Supported:** EN/FR/DE/SP/PT/RU/JP/IT/CH/KR/PO/TK, etc. (19 languages)
- **Updates:** Lifetime Free Update via Wi-Fi

7. Warranty and Support

MUCAR provides lifetime free software updates for the CS4 OBD2 Scanner. For any product issues, technical assistance, or support, please contact MUCAR's mechanics and technicians directly via email at service@mucarco.com.
Please refer to the official MUCAR website or the included user manual for detailed warranty information.

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