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> MUCAR CDE900 Pro + CDL20 Code Reader User Manual

mucar CDE900 Pro, CDL20

MUCAR CDE900 Pro + CDL20 Code Reader User Manual

Model: CDE900 Pro, CDL20

1. INTRODUCTION

This user manual provides comprehensive instructions for the operation, maintenance, and troubleshooting of your MUCAR CDE900 Pro and CDL20 Code Reader. These devices are designed to assist automotive technicians and DIY enthusiasts in diagnosing vehicle issues by reading and clearing diagnostic trouble codes (DTCs), viewing live data, and performing various OBD2 system tests. Please read this manual thoroughly before operating the device to ensure proper usage and to maximize its functionality.

2. PRODUCT OVERVIEW

The MUCAR CDE900 Pro and CDL20 are advanced diagnostic tools. The CDE900 Pro is a full OBD2 scanner, while the CDL20 is a dedicated check engine code reader. Both are essential for maintaining vehicle health.



Figure 2.1: MUCAR CDE900 Pro (bottom) and MUCAR CDL20 (top right) Code Readers. The CDE900 Pro features a larger screen and more comprehensive diagnostic capabilities, while the CDL20 is a compact device focused on basic OBD2 functions.

Full OBD2 Diagnostic Functions



Figure 2.2: MUCAR CDL20 displaying its main diagnostic menu. Options include Read Codes, Erase Codes, I/M Readiness, Data Stream, Freeze Frame, and O2 Sensor Test, among others. This screen provides access to the primary functions of the device.

More Professional Diagnostic Scanner

DTC Lookup

Please input DTC:

P0006

[▼]-change input,
[▲]-select position,
[OK]-confirm.

▲ ▼ OK ↶

Vehicle Information

VIN:

123456789ABCDEFGH

▲ ▼ OK ↶

I/M Readiness

Misfire monitor	OK
Fucl system	OK
Fucl System	OK
Comp.component	OK
Catalyst monitor	OK

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Figure 2.3: MUCAR CDL20 interface demonstrating advanced functions. This image shows the DTC Lookup screen for entering specific codes, the Vehicle Information screen displaying VIN, and the I/M Readiness screen indicating the status of various vehicle monitors.

2.1 Key Features

- Full OBD2 Diagnostic Functions (CDE900 Pro & CDL20)
- Read and Clear Diagnostic Trouble Codes (DTCs)
- View Live Data Stream

- I/M Readiness Status Check
- O2 Sensor Test
- On-Board Monitor Test
- EVAP System Test
- Vehicle Information Retrieval (VIN, CIN, CVN)
- DTC Lookup Library

3. SETUP

3.1 Connecting the Device

1. Locate the vehicle's 16-pin Data Link Connector (DLC). This is typically located under the dashboard on the driver's side.
2. Ensure the vehicle's ignition is in the "OFF" position.
3. Firmly plug the diagnostic cable from the MUCAR device into the vehicle's DLC.

3.2 Powering On

Once connected to the vehicle's DLC, turn the vehicle's ignition to the "ON" position (engine can be off or running, depending on the test). The MUCAR device will automatically power on and initiate communication with the vehicle's onboard computer.

4. OPERATING INSTRUCTIONS

Navigate through the device's menu using the directional buttons (UP, DOWN, LEFT, RIGHT) and confirm selections with the "OK" button. Use the "Return" button to go back to the previous screen.

4.1 Reading Diagnostic Trouble Codes (DTCs)

1. From the main menu, select "Read Codes".
2. The device will scan the vehicle's systems for stored DTCs.
3. A list of codes will be displayed, along with their descriptions. Note down any codes for further diagnosis.

4.2 Clearing Diagnostic Trouble Codes (DTCs)

Warning: Clearing DTCs will erase all diagnostic data from the vehicle's computer. Ensure you have recorded all codes and addressed the underlying issue before clearing.

1. From the main menu, select "Erase Codes" or "Clear Codes".
2. Confirm the action when prompted.
3. The device will attempt to clear the codes and turn off the Malfunction Indicator Lamp (MIL).

4.3 Viewing Live Data Stream

1. From the main menu, select "Data Stream" or "Live Data".
2. Choose the parameters you wish to monitor (e.g., engine RPM, coolant temperature, vehicle speed).
3. The device will display real-time data, often in numerical or graphical format, which can help identify performance issues.

4.4 I/M Readiness Status

This function checks the readiness of the emission-related monitoring systems on the vehicle. It is crucial for passing emissions tests.

1. From the main menu, select "I/M Readiness".
2. The device will display the status of various monitors (e.g., Catalyst Monitor, O2 Sensor Monitor) as "OK" (complete) or "INC" (incomplete).

5. MAINTENANCE

5.1 Cleaning the Device

- Use a soft, dry cloth to clean the device's screen and casing.
- Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the plastic and electronic components.
- Do not immerse the device in water or any other liquid.

5.2 Software Updates

Periodically check the MUCAR official website for software updates. Updates may include new vehicle coverage, bug fixes, and improved functionality. Follow the instructions provided on the website for downloading and installing updates.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Loose connection to DLC; Vehicle ignition off; Vehicle battery low.	Ensure cable is firmly connected. Turn ignition to "ON". Check vehicle battery.
Communication error.	Incorrect protocol; Faulty DLC; Device software issue.	Verify vehicle is OBD2 compliant. Check DLC for damage. Update device software.
Cannot clear codes.	Underlying fault still present; Ignition not in "ON" position.	Repair the fault first. Ensure ignition is "ON" (engine off or running).

7. SPECIFICATIONS

- **Display:** Color LCD (specific size may vary by model)
- **Operating Voltage:** 9-18V DC (via vehicle DLC)
- **Operating Temperature:** 0°C to 50°C (32°F to 122°F)
- **Storage Temperature:** -20°C to 70°C (-4°F to 158°F)
- **Connectivity:** Standard 16-pin OBD2 connector
- **Supported Protocols:** J1850 PWM, J1850 VPW, ISO9141, KWP2000, CAN

8. WARRANTY INFORMATION

MUCAR products typically come with a limited warranty against defects in materials and workmanship. The specific warranty period and terms may vary. Please refer to the warranty card included with your product or visit the official MUCAR website for detailed warranty information and registration. Keep your purchase receipt as proof of purchase.

9. CUSTOMER SUPPORT

For technical assistance, product inquiries, or warranty claims, please contact MUCAR customer support.

- **Website:** www.mucar.com (Please check the official website for the most current contact information)
- **Email:** Refer to the website for support email addresses.
- **Phone:** Refer to the website for support phone numbers.

When contacting support, please have your product model number (CDE900 Pro or CDL20) and purchase information ready.

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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.

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