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MUCAR CDL20 (TCDE-CDL20)

MUCAR CDL20 OBD2 Diagnostic Tool
USER MANUAL

Model: CDL20 (TCDE-CDL20) | Brand: MUCAR

1. Introduction and Overview

The MUCAR CDL20 is a professional OBD2/EOBD diagnostic tool designed to help users quickly identify and resolve vehicle fault codes. This device allows for efficient repairs, road tests, status checks, emissions monitoring, and general engine problem diagnosis, saving both time and money on workshop repairs.

It supports all 10 OBDII diagnostic functions, including reading and clearing codes, live data streaming, and I/M readiness checks. The CDL20 features a user-friendly interface and does not require batteries or app downloads, making it a convenient tool for car owners.



Image: The MUCAR CDL20 OBD2 Diagnostic Tool, showcasing its compact design and user interface.

2. Setup

Setting up the MUCAR CDL20 is straightforward:

1. Locate your vehicle's OBDII port. This is typically found under the dashboard on the driver's side.
2. Plug the MUCAR CDL20's connector firmly into the vehicle's OBDII port.
3. Turn the vehicle's ignition to the 'ON' position (do not start the engine). The device will power on automatically and begin the diagnostic process.

PROFESSIONELLERE OBD-II DIAGNOSEWERKZEUGE

DTC-SUCHE

BITTE DTC EINGEBEN:

P0006

[▼]-eingang ändern

[▲]-stelle auswählen

[OK]-bestätigen sie

▲ ▼ OK ↩

I/M-Bereitschaft

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

1/4

Überwachen Sie den Zustand

Teas ID	\$05
Value	0.180s
Min	0.000s
Max	0.150s
Status	Pass

▲ ▼ OK ↩



Image: The MUCAR CDL20 connected to a vehicle's OBDII port, ready for operation.

3. Operating Instructions

The MUCAR CDL20 supports 10 OBDII diagnostic functions:

- **Read Codes:** Displays Diagnostic Trouble Codes (DTCs) that have caused the Malfunction Indicator Lamp (MIL) to illuminate.
- **Clear Codes:** Erases DTCs from the vehicle's computer and turns off the MIL. Note: If the underlying fault is still

present, the code may reappear.

- **MIL (Malfunction Indicator Lamp):** Indicates a problem with the vehicle's emission control system.
- **Live Data:** Displays real-time data stream from the vehicle's sensors, switches, and actuators, including values like voltage, RPM, temperature, and speed, as well as system status information (e.g., open/closed loop, fuel system status).

LÖSCHEN DER MOTORKONTROLLLEUCHE



The diagram illustrates the process of reading and clearing Diagnostic Trouble Codes (DTCs) from a vehicle's instrument cluster. It is divided into two panels. The left panel, labeled 'DTCs Lesen' (Read DTCs), shows a speedometer with a red needle and an illuminated orange Malfunction Indicator Lamp (MIL). The right panel, labeled 'DTCs Löschen' (Clear DTCs), shows the same speedometer but with the MIL turned off. Both panels display a fuel gauge and a trip meter showing 232 km.



The bottom section of the image shows the MUCAR CDL20 diagnostic tool interface and a technician working on a car. The MUCAR CDL20 screen displays 'DTC-SUCHE' (DTC Search) and 'BITTE DTC EINGEBEN:' (Please enter DTC:). The entered code is 'P0006'. Below the code, instructions are provided: '[▼]-eingang ändern' (change entry), '[▲]-stelle auswählen' (select position), and '[OK]-bestätigen sie' (confirm). At the bottom of the screen are buttons for 'DTC', 'Freeze data', 'I/M', and 'OBD II'. To the right, a technician in a grey uniform is shown working on a car, with a blue circular icon containing 'Px' and the text 'DTC-Suche' (DTC Search) overlaid.

Image: The MUCAR CDL20 displaying live data stream and diagnostic codes, providing real-time vehicle insights.

- **EVAP System Test:** Initiates a leak test for the vehicle's Evaporative Emission Control System.
- **On-Board Monitor Test:** Retrieves results for emission-related powertrain components and systems that are not continuously monitored.

- **O2 Sensor Test:** Retrieves O2 sensor monitor test results for the most recently completed tests from the vehicle's on-board computer.
- **Freeze Frame:** Displays a snapshot of operating conditions at the time an emission-related fault occurred.
- **Vehicle Information:** Retrieves the Vehicle Identification Number (VIN), Calibration ID (CID), and Calibration Verification Number (CVN) of the vehicle.

FAHRZEUGINFORMATIONEN LESEN



Image: The MUCAR CDL20 displaying vehicle information such as VIN, CID, and CVN.

- **I/M Readiness:** Checks the readiness of the vehicle's monitoring systems to determine if they are ready for an emissions test.
- **DTC Code Search:** Utilizes a built-in DTC library to provide detailed descriptions of diagnostic trouble codes,

eliminating the need for online searches.



Image: The MUCAR CDL20 demonstrating the clearing of a check engine light and the DTC search function.

The MUCAR CDL20 supports up to 8 languages, including English, German, French, Spanish, Russian, Italian, Polish, and Portuguese.

UNTERSTÜTZUNG FÜR 90% AUTOMARKEN & 8 SPRACHEN

1996



Autos aus den USA
Seit 1996

2000



EU-basierte Autos
Seit 2000

2008



Autos aus Asien
Seit 2008

Kompatibel mit allen OBDII-Protokollen

ISO 14230-4
(KWP2000)

ISO 14229
(uds)

SAEJ 1850
(VPW&PWM)

ISO 15765-4
(CAN) (EN ANGLAIS)

ISO9 141-2
(iso) (en anglais)

8
Sprachen



Image: The MUCAR CDL20 displaying I/M Readiness status and illustrating its broad vehicle compatibility across different regions and years.

4. Maintenance

To ensure the longevity and optimal performance of your MUCAR CDL20 diagnostic tool, follow these simple maintenance guidelines:

- Keep the device clean by wiping it with a soft, dry cloth. Avoid using abrasive cleaners or solvents.

- Store the tool in a cool, dry place away from direct sunlight, extreme temperatures, and excessive moisture.
- Avoid dropping the device or subjecting it to strong impacts.
- Do not attempt to disassemble or repair the device yourself, as this will void the warranty.

5. Troubleshooting

If you encounter issues while using your MUCAR CDL20, consider the following:

- **Cannot Clear Fault Code:** If a fault code cannot be cleared, it indicates that the underlying issue or fault in your vehicle's hardware or system is still present. The MUCAR CDL20 can only clear codes once the actual problem has been resolved. You must address the vehicle's hardware or related issues first.
- **Cannot Find Corresponding Car Brand:** If you connect the OBD2 interface and cannot find your specific car brand, please select the "Any Car Brand" option to diagnose your vehicle.
- **Still Unable to Read/Diagnose:** If you are still unable to read barcodes or perform diagnostics after trying the above steps, please contact MUCAR customer support for assistance. They can verify if your car model is supported by the CDL20.

6. Specifications

Feature	Detail
Manufacturer	MUCAR
Model Number	TCDE-CDL20
Item Weight	200 g
Product Dimensions	11 x 6.56 x 1.97 cm
Supported Protocols	ISO 14230-4 (KWP2000), ISO 15765-4 (CAN), ISO9141-2 (ISO), ISO14229 (UDS), SAEJ1850 (VPW&PWM)
Vehicle Coverage (US)	Most US cars from 1996 onwards
Vehicle Coverage (EU)	Most EU cars from 2000 onwards
Vehicle Coverage (Asia)	Most Asian cars from 2008 onwards
Supported Languages	English, German, French, Spanish, Russian, Italian, Polish, Portuguese

7. Warranty and Support

MUCAR provides comprehensive customer support for the CDL20 diagnostic tool.

- **Professional Support:** MUCAR offers 24/7 professional support to assist with any questions or issues you may encounter.
- **Contact:** If you require assistance, you can contact the official MUCAR brand customer service via email. A professional customer service team is available to serve you.

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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

Open the live page

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