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Autel MD600CV

Autel MaxiDiag MD600CV Heavy Duty Truck Scanner User Manual

Model: MD600CV
Brand: Autel

1. Introduction

The Autel MaxiDiag MD600CV is a comprehensive diagnostic and service tool designed for light, medium, and heavy-duty vehicles. This Android-based touchscreen tablet provides advanced diagnostic capabilities and extensive service functions for fleet technicians, owners, and operators. It is engineered to perform quick system triage, maintenance, and service tasks, ensuring vehicles remain in optimal operating condition.

2. What's in the Box

The Autel MaxiDiag MD600CV package includes the following components:

- MaxiDiag MD600CV Diagnostic Tablet
- MaxiVCI V200 Wireless Bluetooth Vehicle Communication Interface (VCI)
- Deutsch 6-Pin Connector
- Deutsch 9-Pin Connector
- USB Cable
- Power Adapter
- User Manual (this document)
- Carrying Case



Image: The Autel MD600CV diagnostic tablet, MaxiVCI V200, Deutsch 6-pin and 9-pin connectors, and various cables, all neatly organized within a durable carrying case.

3. Key Features

- **Comprehensive Vehicle Coverage:** Supports Class 3 to Class 9 light, medium, and heavy-duty trucks and commercial vehicles.
- **Advanced Diagnostics:** Performs in-depth diagnostics on various systems including Engine, Exhaust, Gearbox, ABS, EBS, SUS, and BCM. Features Expert Mode for detailed data and specialized tasks.
- **Extensive Service Functions:** Includes over 30 service functions such as DPF Regeneration, Oil Light Reset, Brake Bleed, Throttle Body Relearn, and Injector Coding/Reset.
- **Wireless Communication:** Equipped with MaxiVCI V200 for wireless connection to the vehicle's diagnostic port, supporting J1708, J1939, J1587, J1850, CDL, PLC, and VPW protocols.
- **Android-Based Touchscreen Tablet:** User-friendly interface with a responsive touchscreen for easy navigation.
- **Portable Design:** Compact and lightweight for convenient use on the go or as an in-shop backup tool.

- **High Storage Capacity:** 64GB of internal storage for software and data.
- **Integrated Camera:** 8-megapixel camera for documentation.



Image: A visual representation of the Autel MaxiDiag MD600CV scanner, emphasizing its new release status and key features like 30+ service functions, DPF Regen, VGT Programming, and Deutsch 6 & 9 Pin connectors, with various trucks in the background.



Image: The Autel MD600CV tablet displaying various service functions such as DPF Regen, Idle Shutoff, Brake Bleed, and Injector Coding, with a heavy-duty truck in the background.



Image: An illustration demonstrating the extensive vehicle coverage of the Autel MD600CV, compatible with Class 3 to Class 9 vehicles, listing various supported brands like Volvo, Cummins, Detroit, and more.

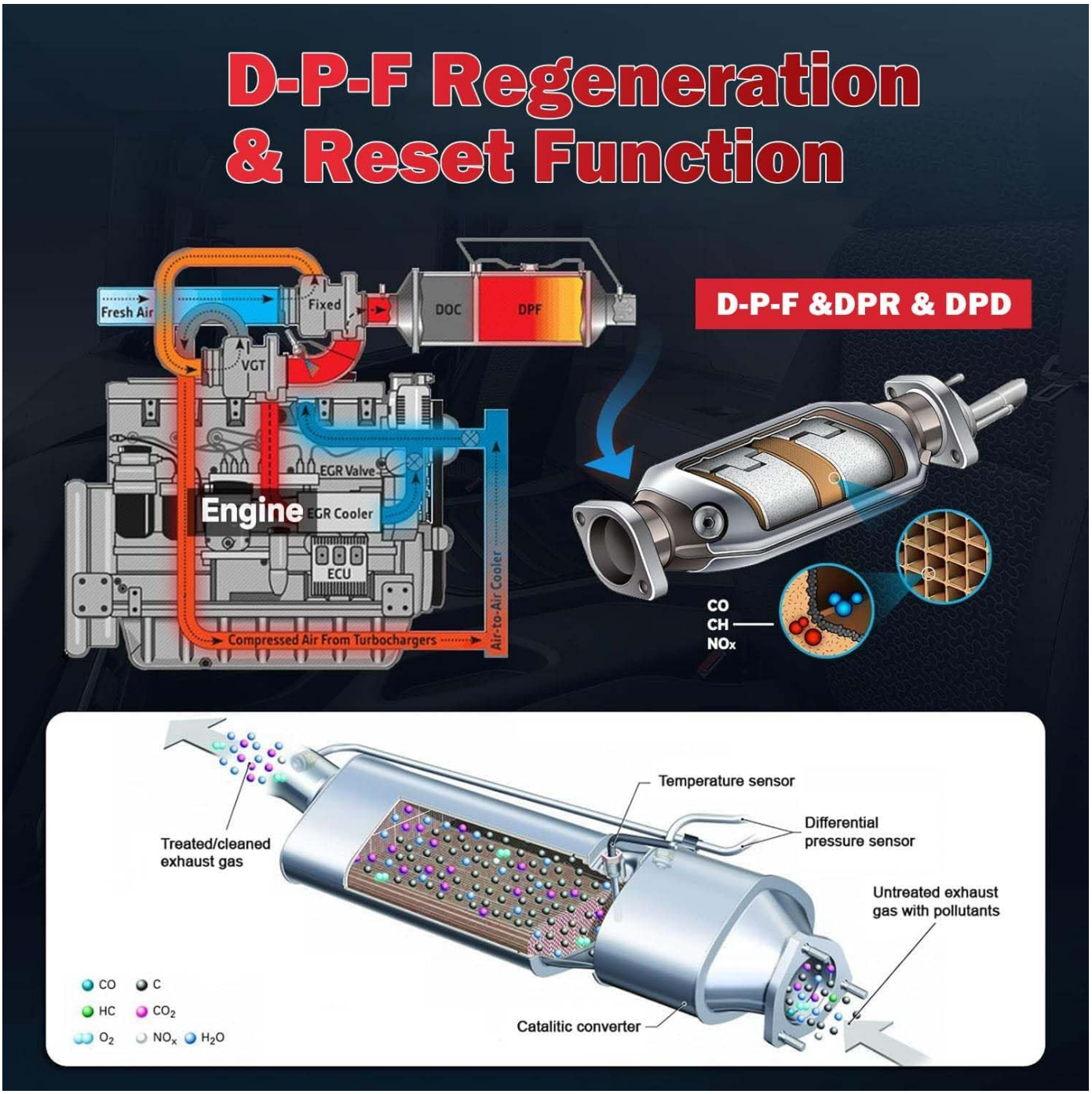


Image: A diagram showing the professional diagnostic capabilities of the Autel MD600CV, highlighting its ability to diagnose various truck systems including Engine, SAS, Oil Light, Braking, Transmission, Fuel, and Body systems, with Deutsch connectors shown.

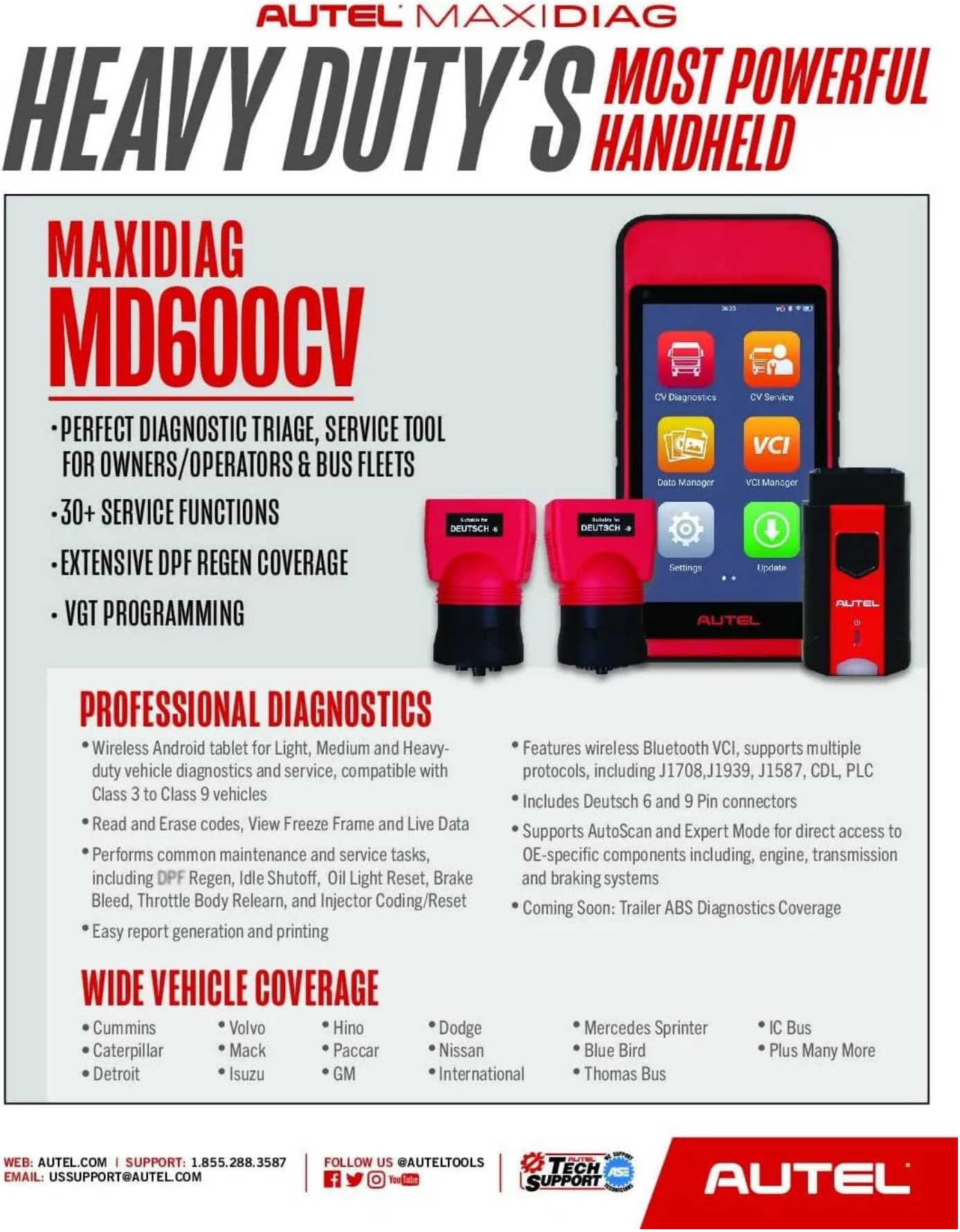


Image: A detailed diagram illustrating the DPF Regeneration & Reset Function, showing the flow of exhaust gases through the DPF and DPD systems, and the catalytic converter process.

4. Setup Guide

4.1 Initial Power-Up and Registration

1. **Charge the Tablet:** Connect the power adapter to the MD600CV tablet and a power outlet. Allow the tablet to fully charge before first use.
2. **Power On:** Press and hold the Power button to turn on the tablet.
3. **Language and Region Settings:** Follow the on-screen prompts to select your preferred language and region.
4. **Wi-Fi Connection:** Connect the tablet to a stable Wi-Fi network to enable software updates and online features.
5. **Autel ID Registration:** Register for an Autel ID or log in with an existing one. This is required for software updates and accessing online services.

4.2 Connecting to Vehicle

1. **Locate Diagnostic Port:** Identify the vehicle's diagnostic port (typically a 6-pin or 9-pin Deutsch connector for heavy-duty vehicles, or an OBDII port for light-duty).
2. **Connect VCI:** Plug the appropriate Deutsch connector (6-pin or 9-pin) into the vehicle's diagnostic port.
3. **Pair VCI with Tablet:** The MaxiVCI V200 will automatically attempt to pair with the MD600CV tablet via Bluetooth. Ensure Bluetooth is enabled on the tablet. A successful connection will be indicated by a solid blue LED on the VCI.
4. **Turn Ignition On:** Switch the vehicle's ignition to the ON position (engine off).

5. Operating Instructions

5.1 Navigating the Interface

The MD600CV operates on an Android platform with a user-friendly touchscreen interface. The main screen displays various application icons:

- **CV Diagnostics:** Access vehicle diagnostic functions.
- **CV Service:** Perform maintenance and reset tasks.
- **Data Manager:** View, manage, and print diagnostic reports and data.
- **VCI Manager:** Manage the VCI connection and firmware.
- **Settings:** Configure system settings, Wi-Fi, and display.
- **Update:** Download and install the latest software updates.

5.2 Performing Diagnostics

1. **Select "CV Diagnostics":** Tap the "CV Diagnostics" icon on the home screen.
2. **Choose Vehicle Type:** Select "Truck," "Light Duty," "Bus," "Trailer," or "Special Vehicle" as appropriate.
3. **Select Vehicle Brand:** Choose the specific vehicle manufacturer from the list.
4. **AutoScan or Manual Selection:** The tool can perform an AutoScan to identify all available systems or allow manual selection of specific systems (e.g., Engine, ABS, Transmission).
5. **Read/Clear Codes:** View Diagnostic Trouble Codes (DTCs) and their descriptions. Clear codes after repairs are completed.
6. **Live Data:** Monitor real-time data streams from various sensors and components. Data can be displayed in text, graph, or analog form.
7. **Freeze Frame Data:** View a snapshot of vehicle conditions at the moment a DTC was set.
8. **Expert Mode:** For advanced users, this mode provides direct access to OE-specific system components for deeper diagnostics and control.

5.3 Performing Service Functions

1. **Select "CV Service":** Tap the "CV Service" icon on the home screen.
2. **Choose Service Function:** Select the desired service function (e.g., DPF Regeneration, Oil Reset, Brake Bleed).
3. **Follow On-Screen Prompts:** The tablet will guide you through the necessary steps for each service function. Ensure all safety precautions are followed.

Your browser does not support the video tag.

Video: An official product video from Autel North America demonstrating the features and capabilities of the Autel MD600CV heavy-duty truck scanner, including its compact size, extensive vehicle coverage, and various diagnostic and service functions.

6. Maintenance

- **Software Updates:** Regularly check for and install software updates via Wi-Fi to ensure optimal performance and the latest vehicle coverage. Access the "Update" icon on the home screen.
- **Cleaning:** Use a soft, damp cloth to clean the tablet screen and body. Avoid abrasive cleaners or solvents.
- **Storage:** Store the device in its protective carrying case when not in use to prevent damage. Keep it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Charge the device regularly, even if not in constant use.
- **VCI Care:** Keep the VCI unit clean and free from debris. Ensure connectors are not bent or damaged.

7. Troubleshooting

Problem	Possible Cause	Solution
Tablet does not power on.	Low battery; Power button not held long enough.	Charge the tablet for at least 30 minutes. Press and hold the Power button for 3-5 seconds.
VCI not connecting to tablet.	Bluetooth off; VCI not properly connected to vehicle; VCI firmware outdated.	Ensure Bluetooth is enabled on the tablet. Re-seat the VCI connector. Update VCI firmware via "VCI Manager" if available.
Unable to communicate with vehicle.	Incorrect vehicle selection; Faulty diagnostic port; Ignition not ON; Software issue.	Verify vehicle make, model, and year. Check vehicle's diagnostic port for damage. Ensure ignition is ON. Perform a software update.
Diagnostic function not working.	Software bug; Vehicle specific limitation.	Ensure software is up to date. Consult the vehicle's service manual or Autel technical support for specific limitations.

8. Technical Specifications

- **Operating System:** Android 9.0
- **Display Resolution:** 1280x720
- **Internal Storage:** 64 GB
- **Camera:** 8 Megapixel
- **Connectivity:** Wi-Fi, Bluetooth (MaxiVCI V200)
- **Supported Protocols:** J1708, J1939, J1587, J1850, CDL, PLC, VPW
- **Item Weight:** 5.95 pounds
- **Package Dimensions:** 14.8 x 11.69 x 4.65 inches
- **Model Number:** MD600CV

- **Manufacturer:** Autel
- **UPC:** 792499188740

9. Warranty and Support

9.1 Product Warranty

This product is typically covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact Autel customer service.

9.2 Extended Protection Plans

Extended protection plans may be available for purchase to provide additional coverage beyond the standard manufacturer's warranty. Options may include:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly subscription covering eligible purchases)

Please check with your retailer or Autel for details on available protection plans.

9.3 Technical Support

For technical assistance, software updates, or troubleshooting not covered in this manual, please contact Autel North America support. Contact information can typically be found on the Autel official website or within the product packaging.
Seller: **Autel North America**

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