

## Autel MD906 PRO

# Autel MaxiDiag MD906 PRO OBD2 Scanner Instruction Manual

Model: MD906 PRO | Brand: Autel

## 1. INTRODUCTION

The Autel MaxiDiag MD906 PRO is a professional diagnostic scan tool designed for comprehensive vehicle system analysis and maintenance. This device offers full system diagnostics, a variety of service functions, and supports advanced vehicle communication protocols. This manual provides detailed instructions for setting up, operating, and maintaining your MD906 PRO scanner.



Figure 1: The Autel MaxiDiag MD906 PRO diagnostic tablet and its VCI (Vehicle Communication Interface) unit.

## 2. PACKAGE CONTENTS

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

- Autel MaxiDiag MD906 PRO Diagnostic Tablet
- VC1150 Lite Bluetooth Vehicle Communication Interface
- Main Cable
- USB Cable
- Power Adapter
- User Manual



Figure 2: Illustration of the items included in the MD906 PRO package.

### 3. PRODUCT OVERVIEW AND SPECIFICATIONS

The MD906 PRO is equipped with advanced hardware and software features to provide efficient and accurate vehicle diagnostics.

#### 3.1 Key Features

- Full System Diagnostics: Accesses all available vehicle systems.
- 11+ Service Functions: Performs common maintenance and reset procedures.
- Enhanced OBD2 Modes: Supports all 10 OBD2 test modes.
- CAN FD Protocol Support: Compatible with newer vehicle models.
- FCA AutoAuth & VW-SFD Access: Enables secure gateway access for specific brands.
- Wireless VCI: Bluetooth connectivity for flexible operation.
- Wi-Fi Printing & Cloud Report: Facilitates report management and sharing.
- Lifetime Free Updates: Ensures continuous access to the latest software and vehicle coverage.

#### 3.2 Hardware Specifications

- Operating System: Android 9.0
- Processor: Advanced Quad-core Processor
- Memory: 2GB RAM, 64GB ROM
- Display: 5.5-inch LCD touchscreen with 1280x720 resolution
- Battery: 5000mAh Lithium-Polymer battery
- Connectivity: Bluetooth VCI150 Lite, Wi-Fi (2.4G)



Figure 3: Overview of the MD906 PRO's hardware components and specifications.

## 4. SETUP

### 4.1 Charging the Device

Before initial use, fully charge the MD906 PRO tablet using the provided power adapter. The 5000mAh battery provides extended operating time.

### 4.2 Powering On/Off

- To Power On: Press and hold the Power button until the Autel logo appears.
- To Power Off: Press and hold the Power button, then select 'Power Off' from the options.

### 4.3 Initial Setup and VCI Connection

1. Upon first startup, follow the on-screen prompts to select your preferred language and region.
2. Connect the MD906 PRO to a Wi-Fi network for software updates and online features.
3. Plug the VCI150 Lite unit into the vehicle's OBD2 port. The VCI will automatically establish a Bluetooth connection with the tablet. Ensure the VCI indicator light is solid blue, indicating a successful connection.

### 4.4 Software Updates

The MD906 PRO includes lifetime free software updates. Regularly check for updates to ensure optimal performance and the latest vehicle coverage. To update, navigate to the 'Update' application on the tablet's main menu and follow the instructions.

## 5. OPERATING INSTRUCTIONS

### 5.1 Connecting to the Vehicle

Locate the vehicle's 16-pin OBD2 Data Link Connector (DLC), typically found under the dashboard on the driver's side. Plug the VCI150 Lite unit into the DLC. Ensure the vehicle's ignition is in the 'ON' position or the engine is running, as required by the diagnostic procedure.

### 5.2 Full System Diagnostics

The MD906 PRO can perform OE-level diagnostics on all available electronic systems, including Engine, ABS, SRS, Transmission, EPB, HVAC, and more.



- **Read/Clear DTCs:** Retrieve and erase Diagnostic Trouble Codes from all control modules.
- **View Live Data:** Display real-time data streams from various sensors and components.
- **Freeze Frame Data:** View a snapshot of vehicle conditions at the time a fault code was set.
- **Retrieve ECU Information:** Access specific information about the Electronic Control Unit.
- **Auto Scan 2.0:** Automatically identify the vehicle and scan all systems for faults, providing a quick overview of vehicle health.



Figure 4: The MD906 PRO interface displaying an all-system diagnostic scan, showing various vehicle modules.

### 5.3 Special Service Functions

The MD906 PRO supports over 11 common maintenance and reset services. Note that the availability of specific functions may vary by vehicle make, model, and year.

- **Oil Reset:** Resets the oil life system after an oil change.
- **EPB Reset:** Resets the Electronic Parking Brake system after brake pad replacement.
- **SAS Reset:** Calibrates the Steering Angle Sensor.
- **Battery Registration:** Registers a new battery with the vehicle's ECU.
- **Throttle Relearn:** Adapts the throttle position sensor.

- **ABS Bleeding:** Performs brake bleeding procedures.
- **Injector Coding:** Codes new injector numbers to the ECU.
- **TPMS Reset:** Resets Tire Pressure Monitoring System sensors.
- **AFS Headlamp:** Adapts the Adaptive Front Lighting System.
- **A/F Adjustment:** Adjusts air/fuel ratio parameters.
- **DPF Regeneration:** Initiates Diesel Particulate Filter regeneration.



Figure 5: A visual representation of the various service functions available on the MD906 PRO.

## 5.4 OBD2 Test Modes

The MD906 PRO supports all 10 modes of OBD2 tests for emissions-related diagnostics on most OBD2-compliant vehicles (1996 and newer).

- Read/Clear Codes
- Live Data
- Freeze Frame Data
- I/M Readiness Status
- O2 Monitor Test
- On-Board Monitor Test
- Component Test
- Vehicle Information
- Modules Present
- DTC Lookup



# ENHANCED FULL OBD2 FUNCTIONS

Annual Inspection Can Be Done Once!



Figure 6: The MD906 PRO interface illustrating the various enhanced OBD2 functions available for vehicle inspection.

## 5.5 Live Data Display

The device offers multiple ways to view live data, aiding in the diagnosis of intermittent vehicle problems:

- **Text Mode:** Displays parameters as a list.
- **Waveform Graph Mode:** Presents data in waveform graphs for visual analysis and comparison.
- **Analog Gauge Mode:** Shows parameters in gauge charts.

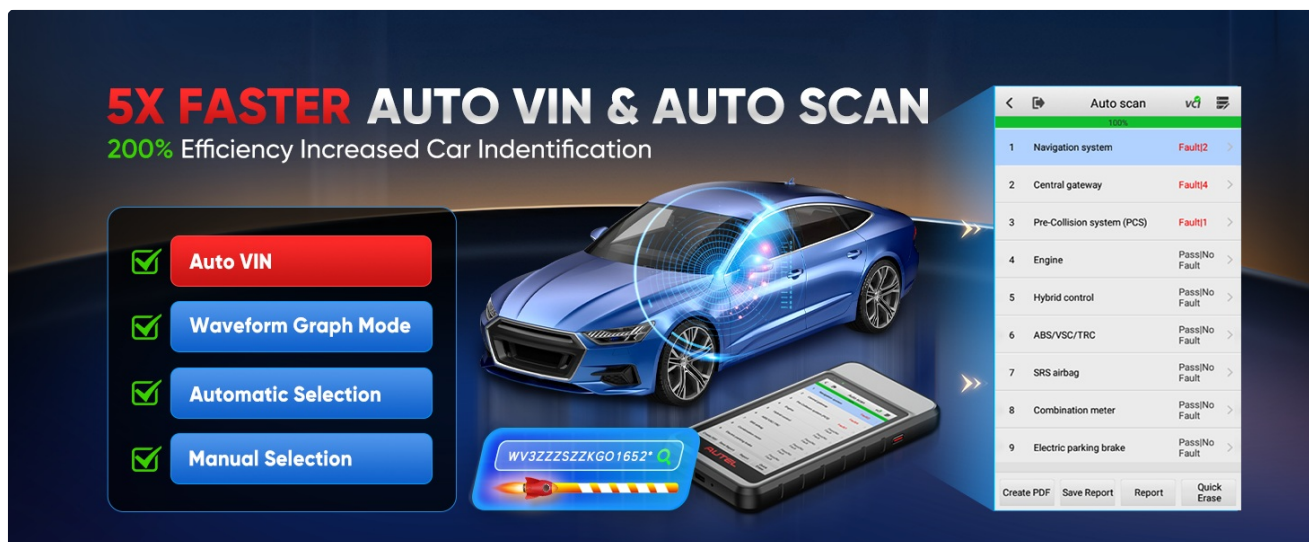


Figure 7: Examples of live data display modes on the MD906 PRO, including text, graph, and analog gauge.

## 5.6 CAN FD and FCA AutoAuth Support

The MD906 PRO supports the latest CAN FD protocol, offering faster data transmission for newer vehicle models (e.g., 2020+ GM and 2021+ Chrysler vehicles). It also provides access to secure gateways for FCA (2018+ Chrysler/Dodge/Jeep/Alfa Romeo/Fiat) and VW-SFD (2020+ VAG models) vehicles. Access to these secure gateways typically requires an AutoAuth account.



Figure 8: Information on CAN FD protocol support and secure gateway access for FCA and VW-SFD vehicles.

## 5.7 Reporting and Printing

Diagnostic reports can be generated and managed directly from the device:

- **Wi-Fi Printing:** Print diagnostic reports directly to a Wi-Fi enabled printer.
- **Upload Report to Cloud:** Automatically synchronize diagnostic information to the cloud, allowing for easy access and sharing via SMS, QR codes, or email.





Figure 9: The MD906 PRO demonstrating its Wi-Fi printing capability for diagnostic reports.



Figure 10: The MD906 PRO's feature for uploading diagnostic reports to the cloud for storage and sharing.

## 6. MAINTENANCE

### 6.1 Software Updates

Regularly update the software to ensure the scanner operates with the latest vehicle data and features. Connect the device to Wi-Fi and use the 'Update' application.

### 6.2 Battery Care

To prolong battery life, avoid fully discharging the device frequently. Charge the device when the battery level is low. Store the device in a cool, dry place when not in use for extended periods.

### 6.3 Cleaning

Clean the device with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the screen or casing.

## 7. TROUBLESHOOTING

### 7.1 DTC Lookup

The MD906 PRO includes a built-in DTC library. When a Diagnostic Trouble Code is displayed, use the 'DTC Lookup'

function to retrieve detailed definitions and potential causes, facilitating faster diagnosis.

## 7.2 Common Issues

- **Device not powering on:** Ensure the battery is charged. Connect the power adapter and try again.
- **VCI not connecting:** Verify the VCI is securely plugged into the vehicle's OBD2 port and the vehicle's ignition is on. Check Bluetooth settings on the tablet.
- **Communication errors:** Ensure the vehicle's ignition is on. Check for loose connections. Verify vehicle compatibility for the specific function being performed.
- **Software freezing:** Restart the device. Ensure the software is up to date.

## 8. WARRANTY AND SUPPORT


Autel provides comprehensive support for the MD906 PRO:

- **Lifetime Free Updates:** Enjoy continuous software updates without additional cost.
- **1-Year Warranty:** The device is covered by a one-year warranty from the date of purchase.
- **30-Day Replacement/Return Policy:** Refer to your purchase agreement for details on returns and replacements.
- **Multilingual Support:** The MD906 PRO supports over 15 languages. To change the language, please contact Autel support with your device's serial number.



Figure 11: Overview of Autel's commitment to customer support, including updates and warranty.

### Related Documents - MD906 PRO

	<p><a href="#">Autel MaxiDiag MD906 Pro Quick Reference Guide   Automotive Diagnostic Tool</a></p> <p>Get started with your Autel MaxiDiag MD906 Pro. This quick reference guide provides essential information on packing, setup, and initial vehicle diagnosis using the MaxiVCI V150 Lite.</p>
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