

Autel MD909 Pro

Autel MaxiDiag MD909 Pro OBD2 Scanner User Manual

Model: MD909 Pro

1. INTRODUCTION

The Autel MaxiDiag MD909 Pro is a 2025 wireless all-system diagnostic tool designed for comprehensive vehicle analysis and maintenance. This device combines advanced diagnostic capabilities with essential service functions, offering extensive vehicle coverage for US, Asian, and European models from 1996 onwards. It features a user-friendly Android-based touchscreen interface and supports modern communication protocols like CAN FD and DoIP.



Image 1.1: Autel MaxiDiag MD909 Pro main unit and VCI module.

2. PRODUCT OVERVIEW AND KEY FEATURES

The MD909 Pro is engineered to provide professional-grade diagnostics and service functions in a portable, wireless format. Its robust hardware and intuitive software make it suitable for both DIY enthusiasts and professional repair shops.

MaxiDIAG MD909 PRO

Android Touch Screen Tablet

- ✓ Wireless & Portable
- ✓ 1996+ Vehicle Coverage
- ✓ 11 Essential Services
- ✓ All System Diagnostic
- ✓ CAN FD/ DoIP Protocols
- ✓ FCA AutoAuth
- ✓ Pre/Post Scan
- ✓ Clouds Reports
- ✓ Pair with BT506(Purchase seperately)
- ✓ Lifetime Free Updates



Image 2.1: Overview of Autel MaxiDiag MD909 Pro features.

2.1. Core Diagnostic Capabilities

- **All System Diagnostics:** Scans all available vehicle systems and subsystems including Engine, ABS, SRS, EPB, PCM, ECM, EPS, PDM, etc.
- **Read/Erase DTCs:** Retrieves and clears Diagnostic Trouble Codes.
- **Live Data:** Views real-time data streams such as transmission temperature, cylinder balance, and engine speed.
- **Freeze Frame Data:** Captures a snapshot of sensor values when a fault occurs.
- **ECU Information:** Retrieves Electronic Control Unit information.
- **10 Modes OBD2 Functions:** Performs all 10 modes of OBD2 tests for emission conditions, including O2 monitor test and on-board monitor test.

Professional All-Systems Diagnostic Tool for 1996+ Vehicles



Image 2.2: All-Systems Diagnostic capabilities.

2.2. Essential Service Functions

The MD909 Pro supports over 11 common maintenance functions to streamline routine repairs.

- **Oil Reset:** Resets the engine oil life system.
- **EPB Reset:** Resets the Electronic Parking Brake.
- **SAS Reset:** Resets the Steering Angle Sensor.
- **TPMS Relearn:** Relearns Tire Pressure Monitoring System sensors.
- **Brake Bleed:** Performs ABS brake bleeding.
- **DPF Regeneration:** Manages Diesel Particulate Filter regeneration.
- **Battery Registration:** Registers new batteries.
- **Throttle Relearn:** Relearns throttle body settings.
- **Air Fuel Ratio Reset:** Adjusts air/fuel ratio settings.
- **Injector Coding:** Codes new injector numbers.
- **Headlamp Adjustment:** Adjusts headlamp positions.

11 Essential Service Functions



No complicated steps required. Just one click to complete.

Image 2.3: 11 Essential Service Functions.

2.3. Advanced Connectivity and Protocols

- **CAN FD & DoIP Support:** Compatible with newer vehicle models using advanced communication protocols.
- **FCA AutoAuth:** Allows access to security gateways on select Dodge, Chrysler, Jeep, RAM, Alfa Romeo, Fiat, Maserati, and Nissan vehicles (AutoAuth account required).
- **Bluetooth VCI:** Wireless connectivity for flexible operation.

CAN FD/DoIP Support & Security Gateway Access



- The Bluetooth VCI module supports the latest CAN FD protocol and is compatible with new vehicle models after 2020.
- Access to security gateways of brands such as Dodge, Jeep, and Maserati (AutoAuth account required), addressing in-depth diagnostic needs such as anti-theft systems and ECU programming.

Image 2.4: CAN FD/DoIP Support & Security Gateway Access.

2.4. Reporting and Data Management

- **Pre/Post-Scan Reporting:** Generates reports before and after repairs for comparison.
- **Cloud Management Storage:** Stores diagnostic reports in the cloud for easy access and retrieval.
- **Report Sharing:** Share reports via email or SMS.
- **Wireless Printing:** Supports wireless printing of diagnostic reports.

Pre/Post-Scan Reporting & Cloud Sharing

Cloud storage: Access historical diagnostic data at any time

Sharing via email/text: Send to customers or teams with one click

wireless printing: Adapt to the office needs of repair shops

Powerful Hardware for Pro-Level Performance

2025 Autel MaxiDiag MD909 Pro

| Functions\Product |  MD909 PRO |  MD808 PRO |
|-------------------|---|---|
| Connectivity | BT-enabled VCI 150-Lite | Mini USB:obd2 cable |
| System | Android 9 | / |
| Battery | 5000mAh | / |
| Storage | 64G | 32MB |
| Screen | 5.5-inch | 4.0 inch LCD |

Image 2.5: Pre/Post-Scan Reporting & Cloud Sharing.

2.5. Hardware Specifications

- **Display:** 5.5-inch touchscreen.
- **Storage:** 64GB.
- **Battery:** 5000mAh for up to 8 hours of continuous use.
- **Operating System:** Android 9.0.

3. SETUP

Follow these steps for initial setup of your Autel MaxiDiag MD909 Pro:

1. **Charge the Device:** Connect the main unit to the power adapter using the USB Type-C cable and charge it fully before first use.
2. **Power On:** Press and hold the power button to turn on the device.
3. **Connect VCI:** Plug the MaxiVCI 150 Lite into the vehicle's OBD2 port. Ensure the vehicle's ignition is in the ON

position.

4. **Pair VCI:** The main unit will automatically attempt to pair with the VCI via Bluetooth. Follow any on-screen prompts to confirm the connection.
5. **Network Connection:** Connect the MD909 Pro to a Wi-Fi network to enable software updates and cloud services.

4. OPERATING INSTRUCTIONS

The MD909 Pro features an intuitive Android interface. Navigate through the main menu to access various functions.

4.1. Diagnostics

To perform vehicle diagnostics:

1. From the home screen, tap on the 'Diagnostics' icon.
2. Select the vehicle manufacturer from the list.
3. Choose 'Auto Scan' to automatically identify the vehicle and scan all systems, or select specific systems for diagnosis.
4. Review the displayed DTCs, live data, or freeze frame information.
5. Use the 'Clear Codes' function to erase DTCs after repairs are completed.

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Video 4.1: Autel MD909 Pro Full System Diagnostic Tool Overview. This video demonstrates the device's diagnostic capabilities, including vehicle selection, auto-scanning, and viewing live data.

4.2. Service Functions

To access maintenance and service functions:

1. From the home screen, tap on the 'Service' icon.
2. Select the desired service function (e.g., Oil Reset, EPB Reset).
3. Follow the on-screen instructions to perform the specific service task.

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Video 4.2: Autel MaxiDiag MD909 Pro Menu Function Introduction. This video provides a walkthrough of the device's menu, including how to access and utilize various service functions.

4.3. Battery Testing (with BT506, sold separately)

The MD909 Pro can be paired with the Autel BT506 Battery Tester for comprehensive battery and charging system analysis.

1. Ensure the BT506 is connected to the vehicle's battery terminals.
2. On the MD909 Pro, navigate to the 'Battery Test' function.
3. Select 'In-Vehicle Test' or 'Out-of-Vehicle Test' as appropriate.
4. Follow the on-screen instructions to perform the battery health (SOH) analysis, voltage detection, and adaptive conductance test.

Expandable Battery Testing with BT506 Tester

- Battery health status (SOH) analysis
- Voltage detection of the charging system
- Adaptive conductance Test (Quick acquisition of charging status)



Purchase separately



Lifetime Free Updates

Lifetime OTA software updates:
Continuous adaptation to new
models and new features

Image 4.3: Expandable Battery Testing with BT506.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Autel MaxiDiag MD909 Pro:

- **Keep Clean:** Regularly wipe the touchscreen and device body with a soft, damp cloth. Avoid harsh chemicals.
- **Software Updates:** Connect the device to Wi-Fi regularly and perform available software updates to ensure compatibility with new vehicle models and features.
- **Storage:** Store the device in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Care:** Avoid fully discharging the battery frequently. Charge the device regularly, even when not in use, to maintain battery health.

6. TROUBLESHOOTING

If you encounter issues with your MD909 Pro, consider the following common solutions:

- **Device Not Powering On:** Ensure the battery is charged. Connect to 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 main unit to ensure the VCI is paired.
- **No Communication with Vehicle:** Confirm the vehicle is OBD2 compliant (1996 or newer for US, Asian, European models). Check the vehicle's battery voltage. Ensure the VCI is properly connected and the device software is up to date.
- **Software Update Issues:** Ensure a stable Wi-Fi connection. If an update fails, try restarting the device and attempting the update again.
- **Touchscreen Unresponsive:** Restart the device. If the issue persists, contact Autel support.

7. SPECIFICATIONS

| Feature | Detail |
|---------------------|-------------------------------------|
| Manufacturer | Autel |
| Model | Autel MaxiDiag MD909 PRO |
| Item Weight | 2 pounds |
| Package Dimensions | 12.99 x 9.84 x 3.9 inches |
| Operating System | Android 9.0 |
| Connectivity | BT-enabled VCI 150-Lite (Bluetooth) |
| Battery | 5000mAh |
| Storage | 64GB |
| Screen | 5.5-inch touchscreen |
| Automotive Fit Type | Universal Fit |
| UPC | 792499190989 |

8. WHAT'S IN THE BOX

The Autel MaxiDiag MD909 Pro package includes the following items:

- Main Unit (Autel MaxiDiag MD909 PRO)
- MaxiVCI 150 Lite
- USB Type-C Cable
- Power Adapter
- Quick Reference Guide
- Packaging Box

MAXIDIAG

MD909 Pro



Packing Listing







| | | | |
|-------------------|---|-----------------------|---|
| Main Unit |  | USB Type-C Cable |  |
| MaxiVCI V150 Lite |  | Quick Reference Guide |  |
| Power Adapter |  | Packaging box |  |

Image 8.1: Contents of the Autel MaxiDiag MD909 Pro package.

9. WARRANTY AND SUPPORT

The Autel MaxiDiag MD909 Pro comes with lifetime free software updates, ensuring your tool remains current with the latest automotive technologies and vehicle models.

For detailed warranty information, technical support, or service inquiries, please refer to the official Autel website or contact Autel customer service directly. Keep your purchase receipt for warranty claims.



[Autel MaxiDiag MD909 Pro Quick Reference Guide](#)

Concise guide for setting up and using the Autel MaxiDiag MD909 Pro diagnostic tool, including packing contents, initial setup steps, and regulatory compliance information.



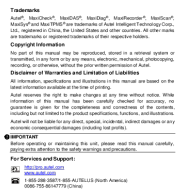
[Autel MaxiCheck MX900 User Manual: Comprehensive Automotive Diagnostic Tool Guide](#)

Master automotive diagnostics with the Autel MaxiCheck MX900 user manual. Learn about its features, special functions, diagnostic procedures, and maintenance for efficient vehicle servicing.



[Autel MaxiCOM MK808 User Manual: Comprehensive Automotive Diagnostics Guide](#)

Explore the features and operations of the Autel MaxiCOM MK808 diagnostic tool. This manual provides detailed instructions for vehicle diagnostics, special functions, maintenance, and support resources from Autel.



[Autel MaxiDiag MD808/MD808 Pro User Manual: Automotive Diagnostics and Service Guide](#)

Discover the capabilities of the Autel MaxiDiag MD808 and MD808 Pro scan tools with this comprehensive user manual. Learn about OBD II diagnostics, special services like Oil Reset, EPB, SAS, DPF, BMS, and efficient vehicle troubleshooting.

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Autel MaxiDiag MD805 User Manual: Comprehensive Guide to Automotive Diagnostics

Explore the Autel MaxiDiag MD805 user manual for detailed instructions on automotive diagnostics, including OBD II functions, EPB maintenance, oil resets, software updates, and troubleshooting. Master your vehicle's health.



Autel MaxiDiag Elite MD802 User Manual: Comprehensive OBD II Diagnostics and Vehicle Maintenance

Explore the Autel MaxiDiag Elite MD802 user manual for detailed guidance on OBD II diagnostics, system coverage, special maintenance functions like Oil Reset and EPB, and software updates. Essential for automotive professionals.

