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› Autel MaxiIM IM608 PRO II Automotive Diagnostic Tool User Manual

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Autel MaxiIM IM608 PRO II User Manual

Advanced Automotive Diagnostic and Key Programming Tool

1. INTRODUCTION

The Autel MaxiIM IM608 PRO II is a state-of-the-art automotive diagnostic and key programming tool. This device combines advanced key programming, all systems diagnostics, and a wide range of service functions into one powerful tablet. Designed for professional technicians, it provides comprehensive coverage and capabilities for modern vehicles.



Figure 1.1: Autel MaxiIM IM608 PRO II main unit with XP400 PRO, G-BOX3, APB112, and IMKPA kit.

2. PRODUCT OVERVIEW AND KEY FEATURES

The IM608 PRO II is built with advanced hardware and software to deliver superior performance and functionality:

- **Advanced Hardware:** Features Android 10 OS, Qualcomm SDM660 8-Core Processor, 4GB RAM, 128GB ROM, 10.1-inch touchscreen, 16MP camera, and a 15000mAh battery.
- **Comprehensive Diagnostics:** Offers OE-level diagnostics for all available vehicle modules, including reading/clearing DTCs, viewing live data, and performing bi-directional tests.
- **Advanced ECU Coding:** Provides online ECU coding for reprogramming adaptive data, disabling unwanted features, and activating hidden functions. Supports both online and offline ECU adaptation.
- **Key Programming Capabilities:** Equipped with XP400 PRO, G-BOX3, and APB112 for extensive immobilizer and key programming functions.
- **Extensive Service Functions:** Includes over 40 commonly used service functions such as Oil Reset, ABS Brake Bleeding,

SRS, SAS, BMS Reset, EPB Reset, Injector Coding, and Throttle adaptation.

- **Latest Protocol Support:** Compatible with DoIP/CAN FD, D-PDU/RP1210 protocols for wider vehicle coverage.
- **Vehicle Coverage:** Supports over 15,000 US, EU, and Asian car models from 1996 to 2025.

2024
NEWEST MAXIIM

IM608 PRO II FULL KIT

Upgraded of IM608 PRO/ IM608S/ IM608/ IM508S PRO

SAME AS
MK908II/ Elite II/
MS908S PRO II

- Advanced ECU Coding
- 40+ Services
- Full Active Tests/ Bidirectional
- Dealer-level All Systems Diagnostic
- CAN FD & DoIP, D-PDU, RP1210
- Remote Expert
- Pre Scan & Post Scan, WIFI Print
- FCA AutoAuth SGW

Hyundai
Y1.06
Accord(EU)
(133MHz/100)201
Check Diagnostics Programming Release VCI 12.20V

PSI

ID (HEX)	PSN Code
LF F1111111	F1111111
RF 1 sensor(s) Programming	81%
RR F3333333	F3333333
LR F4444444	F4444444

Copy by CDS Auto Create 1-20 Sensors Back

AUTEL

AUTEL
MaxFlash /VCI+
SAE J2534
RP1210
ISO 22900

Figure 2.1: Overview of the IM608 PRO II's advanced diagnostic and key programming capabilities.

5X LEVELED-UP HARDWARE FOR FASTER DIAGNOSTICS

Autel MaxiIM IM608 PRO II



ANDROID
10



Qualcomm
SDM660 Octa-
core Processor



4GB
RAM



128GB
ROM



2.4 & 5
GHz WIFI



10.1 inch
Screen



16MP HD
Rear Camera



15000mAh
Battery

2024

NEWEST FEATURES

1. Fastest Auto Scan 2.0
2. Pre-Scan & Post-Scan
3. Cloud Report Management
4. WFI Print
5. D-PDU/RP1210/ DoIP/CAN FD



Figure 2.2: Detailed view of the IM608 PRO II's leveled-up hardware configuration.

3. WHAT'S IN THE BOX

The Autel MaxiIM IM608 PRO II package includes the following components:

- IM608 PRO II Main Unit
- MaxiFlash JVC1 (J2534 Pass-Thru Programming Device)
- XP400 Pro Key Programmer
- G-BOX3 (Adapter for Benz & BMW)
- APB112 (Autel Smart Data Collector)
- IMKPA Kit (12PCS Adapters: APB113, APB114, APB115, APB118, APB119, APB120, APB121, APB122, APB123, APB126, APB127, APB128)
- Main Cable

- USB Cable (2m)
- Mini USB Cable
- AC/DC Adapter (12V)
- Spare Fuse 6x30 mm (2pcs)
- Auxiliary Power Outlet
- USB to Ethernet Cable
- AAC001, APC101, APB104, APB105, APB106, APB107, APB108, APB129, APB125, APA002
- APA101, APA103, APA107, APA108, APA109, Connect Cable
- Quick Reference Guide
- Packing List
- Carrying Case (634x170x404mm)



Figure 3.1: All components of the Autel MaxiIM IM608 PRO II kit neatly organized in its carrying case.

4. SETUP AND INITIAL USE

To begin using your Autel MaxiIM IM608 PRO II, follow these general setup steps:

1. **Unpack the Device:** Carefully remove all components from the carrying case.
2. **Charge the Tablet:** Connect the AC/DC adapter to the main unit and a power outlet. Ensure the tablet is fully charged before first use.
3. **Power On:** Press and hold the power button to turn on the tablet.
4. **Initial Configuration:** Follow the on-screen prompts to select your language, time zone, and connect to a Wi-Fi network. A stable internet connection is crucial for software updates and online functions.
5. **Register and Update:** Register your device with Autel to activate the warranty and access the latest software updates. Perform all available system and vehicle software updates to ensure optimal performance and the widest vehicle coverage.
6. **Connect VCI:** Connect the MaxiFlash JVCI to the vehicle's OBDII port. Ensure the VCI is properly paired with the main unit via Bluetooth or USB.

5. OPERATING THE DEVICE

The IM608 PRO II offers a variety of functions accessible through its intuitive interface:

5.1. Diagnostics

Access the 'Diagnostics' application to perform comprehensive vehicle system scans:

- **Auto Scan 2.0:** Quickly identifies the vehicle and scans all available systems for diagnostic trouble codes (DTCs).
- **Read/Clear Codes:** Retrieve and erase DTCs from all electronic control units (ECUs).
- **Live Data:** View real-time data streams from various sensors and components in text, graph, or analog format.
- **Freeze Frame:** Capture a snapshot of vehicle conditions at the moment a fault code was set.
- **Bi-directional Control (Active Tests):** Send commands to vehicle systems to test component functionality (e.g., turn on/off radiator fan, perform injector tests, operate windows).



Figure 5.1: Illustration of the IM608 PRO II's full bi-directional control and system diagnostic capabilities.

5.2. Immobilizer (IMMO) Functions

The IMMO application, combined with the XP400 PRO, G-BOX3, and APB112, allows for advanced key programming and immobilizer system operations:

- **Key Learning:** Add new keys or program replacement keys.
- **Remote Control Learning:** Program remote controls for vehicle entry.
- **IMMO ECU Reset/Adaptation:** Reset or adapt immobilizer control units.
- **IMMO ECU Refresh/Coding:** Perform refresh or coding for immobilizer ECUs.
- **Read PIN/CS (Component Security):** Retrieve necessary security codes for key programming.

5.3. Programmer Functions (XP400 PRO)

The XP400 PRO is a versatile chip programmer that works in conjunction with the IM608 PRO II for advanced key and chip

operations:

- **EEPROM/MCU Read/Write:** Read and write data from EEPROM and MCU chips.
- **Key Chip Read/Write:** Read and write data to key chips.
- **IMMO ECU Read/Write:** Access and modify immobilizer ECU data.
- **Transponder Read/Write/Identification:** Identify, read, and write transponder data.

5.4. Service Functions

The 'Service' section provides quick access to common maintenance and reset functions:

- **Oil Reset:** Reset the oil life system after an oil change.
- **EPB (Electronic Parking Brake):** Deactivate and activate the brake control system, assist with brake fluid control, open and close brake pads, and set brakes after disc or pad replacement.
- **SAS (Steering Angle Sensor):** Perform steering angle sensor calibration.
- **BMS (Battery Management System):** Register the new battery after replacement.
- **ABS Bleeding:** Perform ABS brake bleeding to restore ABS braking sensitivity.
- **Injector Coding:** Write new injector codes into the ECU for accurate communication and control.
- **Throttle Adaptation:** Initialize the throttle actuators to the default state.
- And many more, including Airbag Reset, Zero Point Calibration, Fuel Trim Reset, VGT Turbo Calibration, Crankshaft Sensors Relearn, HVAC Control Module Calibrate.

40+ COVERING ALL YOUR DAILY DEMANDS MAINTENANCE SERVICES

MaxiIM IM608 PRO II



EPB



Injector
Coding



SAS



Seats



Throttle



Airbag
Reset



BMS



Zero Point
Calibration



ABS
Bleeding



more
...



Cylinder Power Balance



Fuel Trim Reset



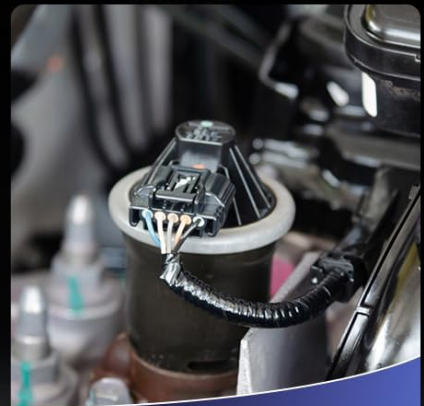
Oil Reset



HVAC Control Module
Calibrate



VGT Turbo Calibration



Crankshaft Sensors Relearn

Figure 5.2: A selection of the 40+ maintenance services available on the IM608 PRO II.

5.5. ECU Coding

The ECU Coding function allows for advanced vehicle customization and repair:

- **Online Coding:** Reprogram adaptive data for various car brands after repairs or replacements.
- **Offline Adaptation:** Supports offline ECU adaptation for a range of car brands.
- **Module Replacement:** Match new ECUs to the vehicle.
- **Hidden Functions Activation:** Unlock and activate hidden features present in the vehicle's software.
- **Disable Annoying Features:** Turn off unwanted functions.

DEALER-LEVEL ADVANCED ECU CODING SAME AS

Elite II PRO/ MK908 II/ MS908S PRO II

- ▶ Update Adaptive Data
- ▶ Install Pre-Programmed Modules
- ▶ Disable Annoy Features
- ▶ Simulate High-end Car Functions

ECU

VAG Guided
Functions

Offline Coding

Figure 5.3: The IM608 PRO II's dealer-level advanced ECU coding functions.

6. CONNECTIVITY AND PROTOCOLS

The IM608 PRO II supports modern vehicle communication protocols to ensure compatibility with the latest vehicle models:

- **CAN FD (Controller Area Network Flexible Data-Rate):** Supports newer GM models (MY2019-) and other vehicles utilizing this high-speed communication protocol.
- **DoIP (Diagnostics over Internet Protocol):** Compatible with modern vehicles that use Ethernet-based diagnostics, such as Volvo (MY2018-), Jaguar & Land Rover (MY2017-), and BMW F/G chassis.
- **D-PDU & RP1210:** Supports these industry standards for vehicle communication interfaces, expanding compatibility with various OEM diagnostic software.
- **FCA AutoAuth:** Allows access to protected FCA (Fiat Chrysler Automobiles) vehicle modules for diagnostics and service functions on models after 2018.
- **Wi-Fi:** Supports 2.4 & 5 GHz Wi-Fi for fast software updates, cloud services, and remote expert assistance.

7. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your Autel MaxiIM IM608 PRO II:

- **Software Updates:** Regularly check for and install software updates to ensure the device has the latest vehicle coverage and functions.
- **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 in a cool, dry place when not in use. Avoid extreme temperatures.
- **Battery Care:** Do not allow the battery to fully discharge for extended periods. Charge the device regularly, even if not in frequent use, to maintain battery health.
- **Cable Inspection:** Periodically inspect all cables and connectors for damage. Replace any worn or damaged components immediately.

8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter:

- **Device Not Powering On:** Ensure the battery is charged. Connect the AC/DC adapter and try again. If the issue persists, contact technical support.
- **VCI Not Connecting:** Verify the VCI is properly connected to the vehicle's OBDII port and powered on. Check Bluetooth pairing between the VCI and the tablet. Ensure the VCI's firmware is up to date.
- **Communication Errors with Vehicle:** Confirm the vehicle's ignition is on. Check the OBDII cable connection. Ensure the correct vehicle make, model, and year are selected in the software. Verify the vehicle's battery voltage is sufficient.
- **Software Freezing/Crashing:** Restart the application or the tablet. Ensure sufficient storage space is available. Perform a system update if one is pending.
- **Key Programming Failure:** Double-check all connections to the XP400 PRO and vehicle. Ensure all necessary pre-programming steps (e.g., reading PIN code) are completed. Verify key compatibility.

For more complex issues, refer to the detailed user manual (PDF) or contact Autel technical support.

9. SPECIFICATIONS

Feature	Specification
Brand	Autel
Model	MaxiIM IM608 PRO II
Operating System	Android 10.0
Processor	Qualcomm SDM660 8-Core
Memory	4GB RAM, 128GB ROM

Display	10.1-inch LCD with 1920x1200 resolution
Camera	16MP Rear
Battery	15000mAh Lithium Polymer
Connectivity	Wi-Fi (2.4 & 5 GHz), USB, Bluetooth
Dimensions	11.81 x 8.66 x 1.97 inches
Item Weight	26.8 pounds
Supported Protocols	DoIP, CAN FD, D-PDU, RP1210, J2534

10. WARRANTY AND SUPPORT

Autel provides comprehensive support for the MaxiIM IM608 PRO II:

- **Warranty:** The product typically comes with a 1-year warranty from the date of purchase. Please refer to your purchase documentation for specific warranty terms and conditions.
- **Technical Assistance:** Autel offers technical assistance to help with any operational or technical queries.
- **Customer Service:** 365/24/7 service is available for customer inquiries and support.
- **Compatibility Check:** For vehicle compatibility inquiries, it is recommended to send your VIN to autelusa@outlook.com before purchase or for any specific questions during use.

For additional resources, including the full user manual in PDF format, please visit the official Autel website or refer to the documentation included with your device.

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For more information, visit www.autel.com

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