Autel US-MaxiIM IM508S

Autel MaxiIM IM508S User Manual

Model: US-MaxiIM IM508S | Brand: Autel

1. Introduction

The Autel MaxiIM IM508S is a professional automotive diagnostic and key programming scan tool designed for both primary technicians and skilled professionals. It offers a comprehensive suite of functions including advanced key programming with the XP200 programmer, extensive OE-level diagnostics for all available vehicle systems, and over 40 hot maintenance services. This device is an upgraded version of previous models, featuring enhanced hardware and software for faster and more efficient operation.

The IM508S supports both Smart Mode, which provides guided functions with step-by-step instructions, and Expert Mode, allowing experienced users to perform individual functions directly. Its bidirectional control capabilities enable active testing of various vehicle components, aiding in precise fault diagnosis.

2. What's in the Box

Carefully unpack all items from the carrying case. The following components are included with your Autel MaxiIM IM508S:

Image: All components included in the Autel MaxiIM IM508S package.

- Autel IM508S Main Unit
- XP200 Key Programmer
- OBDII Cable
- Mini USB Cable
- Plug Adapter
- ACC001 Cable
- APB001 Adapter
- APB002 Adapter
- APA001 EEPROM Clamp Integrated Cable
- APA002 EEPROM Socket
- KIA-10 Adapter
- KIA-20 Adapter
- Honda-3 Adapter

- Mazda-17 Adapter
- Quick Reference Guide
- Packing List
- Soft Cloth
- Rugged Plastic Carrying Case (504x360x133mm)

3. Setup

Follow these steps for initial setup of your Autel MaxiIM IM508S:

1. **Power On:** Press and hold the power button on the device to turn it on.
2. **Initial Configuration:** Upon first use, the device will guide you through initial setup steps, including language selection, time zone, and Wi-Fi connection. Ensure a stable internet connection for software updates and online functions.
3. **Software Updates:** It is highly recommended to update the system software and vehicle diagnostic software to the latest versions immediately after initial setup. This ensures optimal performance and access to the newest vehicle coverage and functions.
4. **Connect to Vehicle:** Connect the OBDII cable to the vehicle's OBDII port and to the MaxiIM IM508S. The device will automatically establish communication with the vehicle.
5. **AutoVIN & AutoScan:** For most 2006+ vehicles, the AutoVIN feature can automatically identify the vehicle's make, model, and year. The AutoScan function will then automatically scan all available ECUs for fault codes, significantly speeding up the diagnostic process.

4. Operating Instructions

4.1. Smart Mode and Expert Mode

The IM508S offers two distinct operational modes to cater to different user needs:

Image: Comparison of Smart Mode and Expert Mode interfaces.

- **Smart Mode:** This mode provides a guided function menu with step-by-step instructions, making it ideal for primary technicians or those less familiar with specific procedures.
- **Expert Mode:** Designed for skilled technicians, this mode presents a function menu where each function is separated, offering a convenient way to perform individual tasks as needed without guided prompts.

4.2. Bidirectional Control (Active Tests)

The bidirectional control feature allows the IM508S to send commands to vehicle ECUs to control and test specific components. This is crucial for quickly checking if actuators like windows, rear mirrors, sunroof, wipers, headlights, or throttle are functioning correctly.

Image: Examples of bidirectional control and active tests.

4.3. OE-Level All Systems Diagnostics

The IM508S can scan all available modules in a vehicle to perform comprehensive OE-level diagnostics. This includes:

Image: OE-Level Full Systems Diagnostics interface.

- **Reading/Clearing Codes:** Access and clear diagnostic trouble codes (DTCs) from all vehicle systems.
- **Displaying ECU Info:** View detailed information about the Electronic Control Units.
- **Live Data:** Monitor real-time sensor data in various formats (text, wave graph, histogram, meter diagram).
- **Freeze Frame Data:** Capture a snapshot of vehicle conditions at the moment a fault code was set.

4.4. Maintenance Services

The IM508S provides access to over 40 hot maintenance and reset services for a wide range of vehicle makes and models. These services help in routine maintenance and post-repair procedures.

Image: Overview of various maintenance services.

Examples of supported services include:

- Oil Reset
- SAS (Steering Angle Sensor) Calibration
- ABS Bleeding
- Injector Coding
- Battery Registration (BMS Reset)
- Electronic Parking Brake (EPB) Reset
- Throttle Adaptation
- Suspension Calibration
- And many more.

4.5. Key Programming with XP200

When used with the included XP200 programmer, the IM508S supports various key programming functions, such as reading PIN codes, key learning, remote learning, ECU reset, adaptation, and coding. This functionality is essential for locksmiths and automotive technicians dealing with immobilizer systems.

5. Troubleshooting

This section addresses common issues and provides solutions.

- **Compatibility Issues:** All functions are vehicle-specific and not universal to all cars. Before performing any advanced function, especially key programming, it is crucial to verify compatibility with the specific vehicle's VIN, make, model, and year. For compatibility inquiries, contact Autel support.
- **Toyota/Lexus Smart Key Lost Reset:** Please note that the IM508S does not support Toyota/Lexus's smart key lost reset function.
- **Device Not Powering On:** Ensure the device is fully charged or connected to a power source. Check the power cable and adapter for any damage.
- **Communication Errors:** Verify that the OBDII cable is securely connected to both the vehicle's port and the IM508S. Ensure the vehicle's ignition is on.
- **Software Freezing/Lagging:** Ensure the device has sufficient storage space. Perform regular software updates to resolve potential bugs and improve performance.

For persistent issues or advanced technical support, please refer to the Warranty and Support section.

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your Autel MaxiIM IM508S:

- **Cleaning:** Use a soft, damp cloth to clean the device's screen and exterior. Avoid abrasive cleaners or solvents.
- **Storage:** Store the device in its rugged carrying case when not in use to protect it from dust, moisture, and physical damage. Store in a cool, dry place.
- **Software Updates:** Regularly check for and install software updates. Autel provides 12 months of free updates, which include new features, bug fixes, and expanded vehicle coverage.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. If storing for an extended period, charge the battery to about 50-70% before storage.

7. Specifications

Feature	Specification
Brand	Autel
Model	US-MaxiIM IM508S
Product Dimensions	6.9"L x 1.4"W x 10"H
Operating System	Android 11.0
Display Resolution	1024x600
Item Weight	1.95 pounds
Batteries	1 Lithium Polymer battery (included)
Automotive Fit Type	Vehicle Specific Fit
Special Features	Extendable
UPC	849438083267

8. Warranty and Support

Autel is committed to providing excellent customer service and support for the MaxiIM IM508S.

- **Warranty:** The product comes with a 1-year brand warranty.
- **Software Updates:** Enjoy 12 months of free software updates from the date of purchase.
- **Technical Support:** Lifetime technical support is available for the device.
- **Return and Replacement:** A free return and replacement policy is offered.
- **Resubscription Discount:** Discounts are available for resubscription of Autel scanners after the free update period.

For any questions, technical assistance, or compatibility checks, please contact Autel support atauteldirect@outlook.com. Support is available 24/7/365.