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> Autel MaxiSys MS909 S2 Diagnostic Scanner Instruction Manual

Autel MS909 S2

Autel MaxiSys MS909 S2 Diagnostic Scanner Instruction Manual

INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your Autel MaxiSys MS909 S2 Diagnostic Scanner. Please read this manual thoroughly before using the device to ensure proper and safe operation.



Image: Autel MaxiSys MS909 S2 Diagnostic Scanner with its main components.

SETUP

1. Unpacking and Initial Inspection

Carefully unpack all items from the carrying case. Verify that all components listed below are present and undamaged. If any items are missing or damaged, contact customer support.

Included Components:

- Autel MaxiSys MS909 S2 Diagnostic Scan Tool
- MaxiFlash VCI (Vehicle Communication Interface)
- Power Adapter
- USB Cable
- User Manual (this document)
- Carrying Case

AUTEL MS909 S2 COMPLETE PACKAGE LIST

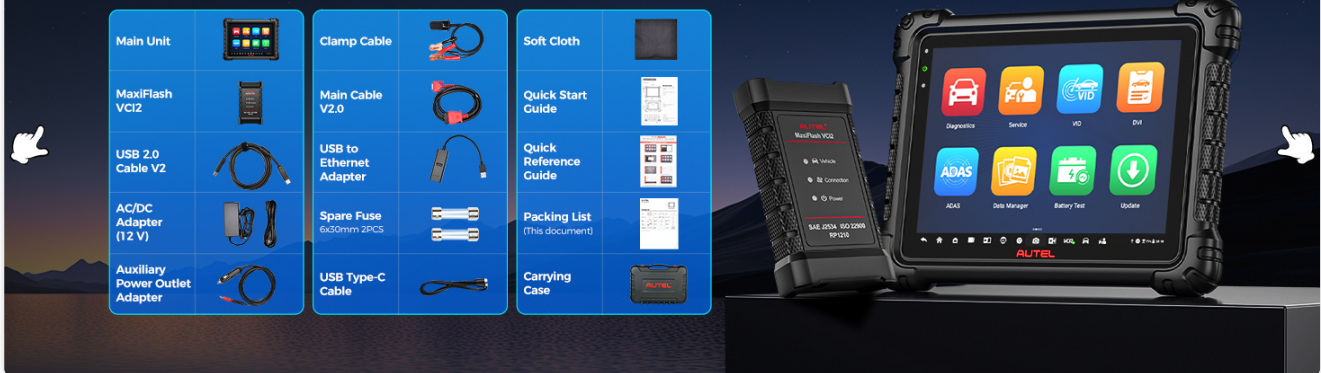


Image: A visual representation of the complete accessory list included with the Autel MaxiSys MS909 S2.

2. Charging the Device

Connect the power adapter to the scan tool and a power outlet. Allow the device to charge fully before first use. The battery indicator on the screen will show charging status.

3. Powering On and Initial Configuration

Press and hold the power button to turn on the device. Follow the on-screen prompts to complete the initial setup, including language selection, time zone, and Wi-Fi connection. Ensure a stable internet connection for software updates.

4. Software Updates

It is recommended to update the software to the latest version upon initial setup. Navigate to the 'Update' section on the main menu and download any available updates. The MS909 S2 includes 2 years of free software updates.

OPERATING INSTRUCTIONS

The Autel MaxiSys MS909 S2 is an advanced diagnostic tool designed for comprehensive vehicle analysis and maintenance. It operates on Android 13 and features a 2.7G 8-core processor for fast performance.

2026
AUTEL

MAXISYS MS909 S2



2026 NEW AI

- Ultra S2/ MS919 S2
- Ultra/UltraEV/ MS919/MS909

- ▶ Digital Vehicle Inspection (DVI) **New**
- ▶ Topology Mapping 3.0 **New**
- ▶ Data Stream 3.0 **New**
- ▶ AI-Powered Virtual Assistant "MAX" **New**
- ▶ AI-Powered Image Analysis **New**
- ▶ Live Data Fusion / Enhanced Graphing **New**
- ▶ Multi-PID Analysis & Reference Sampling **New**
- ▶ Enhanced Split-Screen Diagnostics **New**



Flagship Autel Scanner, Superior to Sn.ap on

- ▶ Motor TruSpeed Repair
- ▶ 48+ Services & OE All Systems
- ▶ ECU Pr0, gramming & C0.ding
- ▶ 3000+ Bidirectional & Auto Scan 2.0
- ▶ D-PDU, J2534, CAN-FD, DoIP
- ▶ FCA SGW / VAG SFD Access
- ▶ Remote Expert & Auto Cloud
- ▶ Pre & Post Scan & WIFI Print

10X Faster



Android
13.0 OS



15000
mAh



11inch
2176*1600



16MP
+16MP



2.7G 8-core
Processor



WiFi 6



12GB
+256GB



More



Image: Overview of the Autel MaxiSys MS909 S2 highlighting its AI features and enhanced hardware specifications.

1. Connecting to a Vehicle

Connect the MaxiFlash VCI to the vehicle's OBD-II port. Connect the VCI to the MS909 S2 via Bluetooth or USB cable. The device will automatically establish communication with the vehicle.

2. Diagnostic Functions

The MS909 S2 offers a wide range of diagnostic capabilities:

- **OE All System Diagnosis:** Perform comprehensive scans of all available vehicle systems (e.g., Engine, ABS, Airbag, Transmission).
- **Auto Scan 3.0:** Quickly identify vehicle information and perform a full system scan.
- **Read/Clear Codes:** Retrieve and erase Diagnostic Trouble Codes (DTCs).
- **Live Data Fusion:** View real-time data parameters from multiple systems simultaneously for dynamic analysis.
- **Enhanced PID Analysis:** Visualize multiple parameters, detect system anomalies, and compare pre/post-repair data.



Image: Depiction of the OE Full System Diagnosis capability of the MS909 S2.

3. Advanced Features

- **Topology Mapping 3.0:** Provides an OE-style system analysis, visual ECU mapping, and color-coded module status for quick fault identification.
- **Motor TruSpeed Repair:** Access verified OEM-grade repair data, including procedures, wiring diagrams, DTCs, and specifications. (Note: This feature is optional and may require an additional subscription for US and Canada regions).
- **ECU Programming & Coding:** Program blank ECUs, reflash modules, and perform online coding for specific BMW, Mercedes-Benz, Audi, Porsche, VW, Infiniti, and Hyundai vehicles.
- **48+ Service Functions:** Perform various maintenance services such as Oil Reset, EPB Reset, BMS Reset, SAS Reset, Throttle Reset, ABS Bleed, and more.
- **3000+ Bidirectional Control:** Actuate vehicle components directly from the scanner to test their functionality.
- **Multi-Point Digital Vehicle Inspection (DVI):** Utilize AI-powered image analysis for dent/scratch detection and integrate with Autel TBE200/ITS600 for tire analysis.
- **MAX Virtual Assistant:** Use voice commands for hands-free navigation, system scans, and accessing maintenance tasks.
- **Split-Screen Diagnostic:** View multiple applications or data streams simultaneously for enhanced comparison and analysis.

SMART TOPOLOGY MAP 3.0

AUTO SCAN 3.0
All Modules

Color-Coded for Easy Analysis

Active Module and Network Analysis

VISUALLY CHECK DTCs & Structure



MOTOR TRUSPEED REPAIR



DTC Analysis



Technical Service Bulletins



Maintenance Schedules



Repair Procedures



Wiring Diagrams



Specifications



Component Location



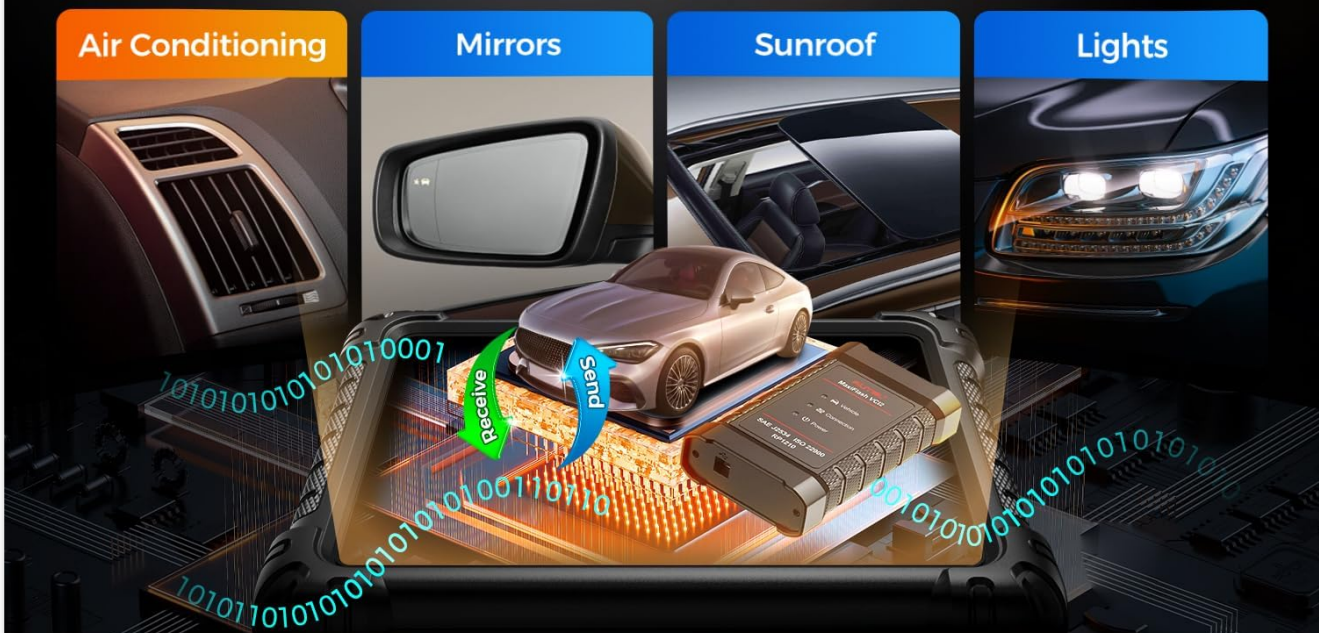
ADAS-related Repair



650 USD/YR
Design for US/CA IP

Image: Illustration of Smart Topology Map 3.0 and Motor TruSpeed Repair functionalities.

FULL 3000+ ACTIVE TESTS



OE ECU PROGRAMMING & CODING



OE ECU Programming For BENZ/BMW

- Program Blank ECUs
- Reprogram Adaptive Data
- Replace Old ECU Software
- Update ECU Software
- Fix Software Issues



Advanced ECU Coding

- Component Matching
- More Hidden Functions
- Customize OE-Settings
- Improve Vehicle Performance
- More...

Image: Demonstrates the extensive active test capabilities and OE ECU programming/coding features.

4. Vehicle Coverage and Protocols

The MS909 S2 supports a wide range of vehicles, including 95% of post-2000 models and 85% of post-2019 models, with support for some 2026 production models. It incorporates new DOIP and CAN FD protocols for enhanced compatibility.

- **FCA AutoAuth & SFD:** Provides access to protected functions for 2017 & later FCA vehicles (Chrysler, Dodge, Jeep, Alfa Romeo, Fiat). (Note: FCA Auto Auth is for US, Canada, Mexico).

MAINTENANCE

1. Software Updates

Regularly check for and install software updates to ensure optimal performance, access to new features, and expanded vehicle coverage. Updates are available for 2 years free of charge.

2. Cleaning and Storage

Keep the device clean by wiping it with a soft, damp cloth. Avoid using abrasive cleaners or solvents. Store the scanner in its carrying case in a dry, cool environment away from direct sunlight and extreme temperatures.

3. Battery Care

To prolong battery life, avoid fully discharging the battery frequently. Charge the device regularly, especially if it will be stored for an extended period.

TROUBLESHOOTING

If you encounter issues with your Autel MaxiSys MS909 S2, refer to the following common problems and solutions:

- **Device Not Powering On:** Ensure the battery is charged. Connect the power adapter and try again. If the issue persists, contact customer support.
- **VCI Malfunction:** Check the connection between the VCI and the vehicle, and between the VCI and the scanner. Ensure the VCI is powered on.
- **Registration Issues:** Verify your internet connection. Double-check your registration details. If problems persist, contact Autel customer support.
- **Function Not Supported:** Vehicle compatibility varies by function. Ensure the vehicle model and year are supported for the specific function you are attempting. Consult the vehicle coverage list or contact support with your VIN.
- **Slow Performance:** Ensure the device has sufficient storage space. Close unnecessary applications. Perform a software update if available.

SPECIFICATIONS

Feature	Specification
Brand	Autel
Model	MaxiSys MS909 S2
Operating System	Android 13
Processor	2.7G 8-core
Screen Size	11 Inches
Screen Resolution	2176*1600
Memory	12GB RAM + 256GB ROM
Battery Capacity	15000mAh
VCI	Upgraded VCI 2
Connectivity	Wi-Fi 6
Camera	16MP Front & 16MP Rear Dual Camera
Power Source	Battery Powered

Automotive Fit Type	Universal Fit
Vehicle Coverage	95% of post-2000 vehicles, 85% of post-2019 vehicles, some 2026 models. Supports DOIP/CAN FD.
UPC	849438096700
ASIN	B0FXMRS5FR



2026 Autel MaxiSys MS909 S2

Model	Autel MS909 S2	MS919 S2	Ultra S2	MS909
Price	👍 3599	4399	5681	2999
Software Update	👍 2-Year (worth \$3000)	2-Year	2-Year	1-Year
Processor	👍 2.7G 8-core	2.7G 8-core	2.7G 8-core	Octa-Core
System	👍 Android 13	Android 13	Android 13	Android 7.0
Screen	👍 11" 2176*1600	11" 2176*1600	13.7" 2176*1600	9.7" 2048*1536
Memory	👍 12GB+512GB	12+256GB	12+512GB	4+128G
Camera	👍 R:16M, F:16M	R:16M, F:16M	R:16M, F:16M	R:16M, F:5M
VCI	👍 VCI 2	VCMi2	VCMi2	MaxiFlash VCI
WiFi	👍 Dual Wi-Fi 6	Dual Wi-Fi 6	Dual Wi-Fi 6	Dual Wi-Fi
Motor TureSpeed	👍 ✓	✓	✗	✗
Reset Services	👍 48+	48+	48	40
Topology Mapping 3.0	👍 ✓	✓	✓	✗
"MAX" Virtual Assistant	👍 ✓	✗	✗	✗
Multi-Point (DVI) Digital Vehicle Inspection	👍 ✓	✗	✗	✗
Read Multi- System PID	👍 ✓	✗	✗	✗
Data Visualization (Enhanced Graphing)	👍 ✓	✗	✗	✗
Split-Screen Analysis	👍 ✓	✓	✗	✗
Remote Expert Online	👍 ✓	✗	✗	✗
ECU Pr0gramming&Coding	👍 ✓	✓	✓	✓
Pre/Post & Wifi Print	👍 ✓	✓	✓	✓
DOIP/CANFD/J2534/D-PDU	👍 ✓	✓	✓	✓

Image: A detailed comparison table outlining the specifications of the Autel MS909 S2 against other Autel models.

WARRANTY AND SUPPORT

1. Warranty Information

The Autel MaxiSys MS909 S2 comes with a 1-year manufacturer's warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

2. Customer Support

For technical assistance, warranty claims, or any other inquiries, please contact Autel customer support:

- **Email:** AutelStoreOnline@outlook.com
- **Technical Support:** 24/7 professional technical support is available.
- **Updates:** Enjoy 2 years of free software updates.
- **After-Sales Service:** Lifetime after-sales service is provided.
- **Returns/Exchanges:** 30-day refund and exchange policy.

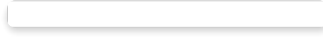


Image: Representation of Autel's 24/7 customer support services.