Autel MX900

Autel MaxiCheck MX900 OBD2 Scanner User Manual

Comprehensive Diagnostic Scan Tool for Automotive Professionals and Enthusiasts

1. Product Overview

The Autel MaxiCheck MX900 is an advanced OBD2 diagnostic scanner designed for comprehensive vehicle system analysis and maintenance. It serves as an upgraded version of the popular MK808 series, offering enhanced performance and expanded functionalities.



Figure 1: Autel MaxiCheck MX900 diagnostic tablet and its robust carrying case.

Key Features:

- **Android 11 Operating System:** Provides a fast and intuitive user experience.
- **Enhanced Hardware:** Features longer battery life, increased memory (4GB RAM + 64GB ROM), and a faster processor compared to previous models.
- **40+ Service Functions:** Offers a wide range of maintenance and reset services, including Oil Reset, EPB Reset, SAS Reset, ABS Bleed, and more.
- **Active Test/Bi-directional Control:** Allows sending commands to vehicle ECUs to test components and systems directly.
- **All System Diagnostics:** Capable of reading/clearing codes, viewing live data, and retrieving ECU information across all vehicle systems (ABS, SRS, ECM, TCM, etc.).
- **Auto VIN & Auto Scan:** Quickly identifies vehicle information and performs thorough system scans.
- **Cloud Report Management:** Enables uploading and sharing diagnostic reports for convenient record-keeping.
- **Extensive Vehicle Coverage:** Compatible with over 10,000+ OBD2/EOBD car models from American, European,

and Asian manufacturers (1996-2024).

- **Advanced Protocols Support:** Supports newer communication protocols like DoIP and CAN FD.



Figure 2: Overview of the Autel MaxiCheck MX900's enhanced features and capabilities.

Product Introduction Video:

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Video 1: An introductory overview of the Autel MaxiCheck MX900, detailing its design and primary functions.

2. Setup

This section guides you through the initial setup of your Autel MaxiCheck MX900, from unboxing to preparing the device for its first use.

Unboxing the MX900:

Upon receiving your MaxiCheck MX900, carefully open the packaging. The device comes securely packed in a durable carrying case designed for protection and portability.

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Video 2: A detailed unboxing video showcasing the contents and initial presentation of the Autel MX900.

What's in the Box:

The standard package for the Autel MaxiCheck MX900 includes the following components:

- AUTEL MaxiCheck MX900 scan tool (main unit)
- Main OBD2 cable
- Power adapter
- USB cable
- Soft cloth for cleaning
- Quick guide and user manual
- Packing list

3. Operating Instructions

The Autel MaxiCheck MX900 is designed for ease of use, providing powerful diagnostic capabilities through a user-friendly interface.

Connecting to a Vehicle:

1. Locate the vehicle's OBD2 port, typically found under the dashboard on the driver's side.
2. Connect the main OBD2 cable to the MX900 and then to the vehicle's OBD2 port.
3. Turn on the MX900. The device will automatically power on when connected to the vehicle's OBD2 port.

Performing Diagnostics:

The MX900 offers comprehensive diagnostics across all vehicle systems. Use the "Diagnostics" icon on the main menu to begin.

- **Auto VIN & Auto Scan:** This feature automatically identifies the vehicle's VIN and performs a full system scan, detecting all available modules and their status.
- **Read/Clear Codes:** View diagnostic trouble codes (DTCs) and clear them after repairs.
- **Live Data Stream:** Monitor real-time data from various sensors and components, displayed in text, graph, or analog formats.
- **ECU Information:** Retrieve detailed information about the vehicle's Electronic Control Units.



Figure 3: The MX900's capability for OE level all systems diagnostics, showing communication with various vehicle systems.

Active Test / Bi-directional Control:

This advanced function allows you to send commands from the MX900 to the vehicle's ECUs to activate specific components or perform system tests. This is crucial for quickly identifying faulty parts.

- Examples include: Injector tests, headlamp control, fuel pump activation, A/C cycling, clutch activation, and more.



Figure 4: Illustration of bi-directional control capabilities, showing the scanner sending commands to vehicle components.

40+ Service Functions:

The MX900 provides an extensive suite of service and reset functions to address common vehicle maintenance needs. Access these functions via the "Service" icon on the main menu.

- **Oil Reset:** Reset the oil life system after an oil change.
- **EPB Reset:** Reset the electronic parking brake system.
- **SAS Reset:** Calibrate the steering angle sensor.
- **ABS Bleed:** Perform ABS brake bleeding procedures.
- **TPMS Reset:** Reset tire pressure monitoring system.
- **Battery Registration:** Register new battery replacements.
- **DPF Regeneration:** Initiate diesel particulate filter regeneration.
- And many more, covering various systems like transmission, immobilizer, sunroof, and throttle.

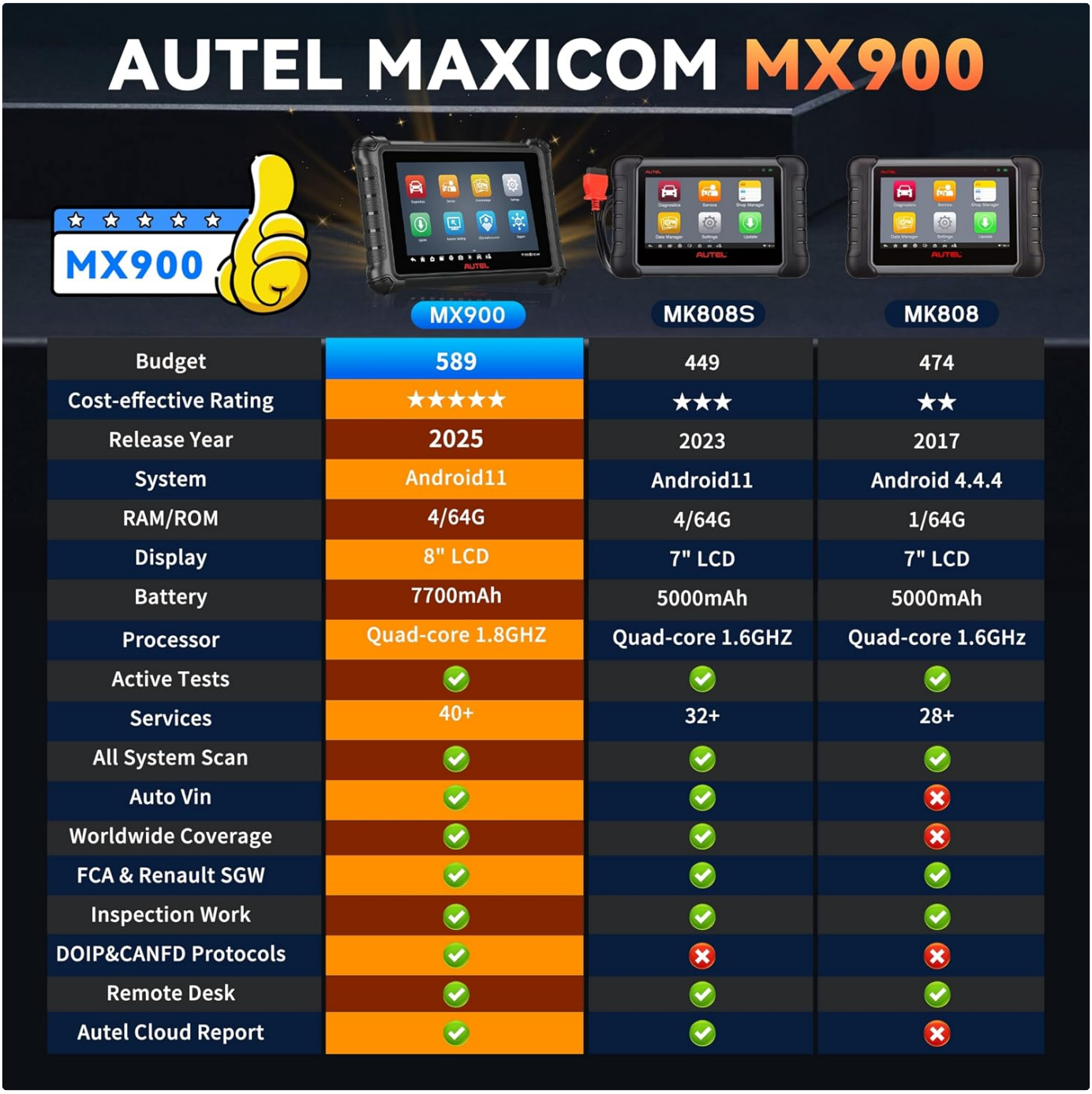


Figure 5: A visual representation of the numerous hot service functions available on the MX900.

Operational Demonstration:

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Video 3: A demonstration of the Autel MaxiCheck MX900 in action, showcasing its diagnostic and service capabilities.

4. Maintenance

Proper maintenance of your Autel MaxiCheck MX900 ensures its longevity and optimal performance.

Software Updates:

Regular software updates are crucial for maintaining compatibility with new vehicle models and accessing the latest diagnostic features. The device comes with a one-year free upgrade period. After this period, the device will continue to

function with its current features, but new software updates and advanced online services will require an additional one-year upgrade card or subscription.

- Connect the MX900 to a stable Wi-Fi network.
- Navigate to the "Update" icon on the main menu to check for and install available updates.

Cloud Report Management:

Utilize the cloud report management feature to securely store and manage your diagnostic reports. This ensures that your data is backed up and accessible from anywhere, preventing loss and facilitating easy sharing with clients or colleagues.

- Access the "Data Manager" feature to upload diagnostic reports to the Autel Cloud.
- Customer and vehicle records, scanner data, and technician notes can be saved for future reference.

General Care:

- Keep the device clean using the provided soft cloth. Avoid abrasive cleaners.
- Store the MX900 in its protective carrying case when not in use to prevent damage.
- Ensure the device's battery is charged regularly to maintain optimal performance.

5. Troubleshooting

This section provides solutions to common issues you might encounter while using your Autel MaxiCheck MX900.

Common Issues and Solutions:

- **Device not powering on:**
  - Ensure the OBD2 cable is securely connected to both the device and the vehicle's OBD2 port.
  - Verify the vehicle's battery has sufficient charge.
  - Check the device's internal battery level and charge it if necessary using the power adapter.
- **Communication errors with vehicle:**
  - Confirm the vehicle's ignition is in the ON position (engine off).
  - Check for loose connections of the OBD2 cable.
  - Ensure the vehicle model and year are correctly selected in the software.
  - Some services are not universal; verify compatibility for your specific car VIN before attempting advanced functions.
- **Software freezing or slow performance:**
  - Restart the device.
  - Ensure sufficient storage space is available.
  - Perform a software update to ensure you have the latest optimizations.
  - Close any unnecessary applications running in the background.
- **Unable to connect to Wi-Fi:**
  - Verify Wi-Fi settings on the device are correct.

- Ensure the Wi-Fi network is active and within range.
- Restart your Wi-Fi router.

For persistent issues, refer to the detailed user manual or contact Autel customer support.

6. Specifications

Feature	Detail
Brand	Autel
Model	MaxiCheck MX900
Operating System	Android 11.0
Display Resolution	1080x800
Product Dimensions	7"L x 2"W x 10"H
Item Weight	7.48 pounds
Batteries	1 Lithium Ion battery required (included)
UPC	792499857042

7. Warranty and Support

Autel provides comprehensive support for its products to ensure customer satisfaction.

Warranty Information:

The Autel MaxiCheck MX900 typically includes a manufacturer's warranty. Please refer to the warranty card included in your product packaging for specific terms and conditions, including the duration of coverage and what is covered.

Software Update Policy:

As mentioned in the Maintenance section, the device includes one year of free software updates. To continue receiving the latest vehicle coverage and functional enhancements beyond this period, an annual subscription or upgrade card can be purchased.

Customer Support:

For technical assistance, troubleshooting, or inquiries regarding your Autel MaxiCheck MX900, please contact Autel's official customer support. Support contact details can typically be found in the Quick Guide, User Manual, or on the official Autel website.

For additional protection, extended protection plans may be available for purchase separately. These plans offer coverage beyond the standard manufacturer's warranty.

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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