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Autel AL609P

Autel AL609P Pro Service Tool User Manual

Model: AL609P | Brand: Autel

1. Introduction

The Autel AL609P Pro Service Tool is a professional diagnostic device designed to help users determine the cause of Malfunction Indicator Light (MIL) or ABS warning light illumination. It is compatible with most 1996 and newer vehicles, both domestic and import, supporting OBDII and CAN protocols. This tool provides comprehensive diagnostic functions including reading and clearing codes, viewing live data, and accessing vehicle information.

What's in the Box

- Autel AL609P Pro Service Tool
- OBDII Cable
- USB Cable
- Quick Guide
- Carry Case

2. Product Overview

The Autel AL609P features a compact design with a 2.8-inch LCD screen for clear display of diagnostic information. It includes intuitive navigation buttons for easy operation.





Figure 2.1: Front view of the Autel AL609P Pro Service Tool, showing the display screen and control buttons.


AutoLink®
CHECK
ABS
OBDII/EOBD
ABS
SRS
DTC Lookup
Playback
Setup
AL609P
ESC
OK
?



Figure 2.2: The Autel AL609P displaying its main menu icons for OBDII/EOBD, ABS, SRS, DTC Lookup, Playback, and Setup.

Device Components

- **LCD Display:** 2.8-inch screen with 320x240 resolution for displaying diagnostic data.
- **Function Buttons:** Dedicated buttons for navigation (up, down, left, right), OK (confirm), ESC (exit), and ? (help).
- **OBDII Connector:** Standard 16-pin connector for vehicle communication.
- **USB Port:** For connecting to a PC for updates and data printing.

3. Setup

Before using the AL609P, ensure the vehicle's ignition is in the ON position and the battery is adequately charged.

Initial Connection

1. Locate the vehicle's 16-pin Data Link Connector (DLC). This is usually located under the dashboard on the driver's side.
2. Plug the OBDII cable into the vehicle's DLC.
3. Connect the other end of the OBDII cable to the AL609P tool. The tool will power on automatically.
4. The tool will perform a system check and display the main menu.

Software Updates

The AL609P supports lifetime free updates to ensure compatibility with the latest vehicle models and diagnostic protocols. Updates are performed via a Windows PC.

1. Visit the official Autel website to download the Maxi PC Suite software.
2. Install the software on your Windows PC.
3. Connect the AL609P to your PC using the provided USB cable.
4. Follow the on-screen instructions in the Maxi PC Suite to register your device and download available updates.

4. Operating Instructions

Navigate the tool's menu using the directional buttons and the OK button. The ESC button returns to the previous screen, and the ? button provides help or information.

Main Menu Functions

- **OBDII/EOBD:** Accesses standard OBDII diagnostic functions.
- **ABS:** Performs Anti-lock Braking System diagnostics.
- **SRS:** Performs Supplemental Restraint System (airbag) diagnostics.
- **DTC Lookup:** Provides definitions for Diagnostic Trouble Codes.
- **Playback:** Reviews previously recorded data.

- **Setup:** Configures tool settings such as language and units.

Functions	AL609	AL609P
Read MIL Status	Y	Y
View Freeze Frame Data	Y	Y
View Live Data	Y	Y
Read/Erase DTCs	Y	Y
View Vehicle Information	Y	Y
AutoVIN for Quick DTC definition		Y
O2 Monitor test	Y	Y
On-board Monitor test	Y	Y
Component Test	Y	Y
Modules Present	Y	Y
Save and Playback Data	Y	Y
DTCs Help	Y	Y
Print Data Via PC	Y	Y
Read/Erase DTCs for ABS	Y	Y
Read/Erase DTCs for SRS		Y
ABS Diagnosis (Read/Erase Codes)	Y	Y
SRS Diagnosis (Read/Erase Codes)		Y

Figure 4.1: Illustration of the AL609P's easy-to-use software navigation and the DTC Lookup feature with Code Breaker functionality.

Diagnostic Functions

- **Read Codes:** Retrieves generic (P0, P2, P3, and U0), manufacturer-specific (P1, P3, and U1) codes, and pending codes.
- **Erase Codes:** Clears Diagnostic Trouble Codes from the vehicle's computer.
- **Live Data:** Displays real-time data stream from the vehicle's sensors in text and graph format.
- **Freeze Frame Data:** Shows a snapshot of vehicle operating conditions at the time a fault code was set.
- **I/M Readiness:** Checks the readiness of the emission monitoring systems.
- **On-Board Monitor Test:** Retrieves test results for emission-related powertrain components and systems.
- **O2 Monitor Test:** Retrieves O2 sensor monitor test results.
- **Component Test:** Allows initiation of a leak test for the vehicle's EVAP system.
- **Vehicle Information:** Retrieves the Vehicle Identification Number (VIN), Calibration ID (CALID), and Calibration Verification Number (CVN).
- **ABS/SRS Diagnosis:** Reads and clears codes specifically for the Anti-lock Braking System and Supplemental Restraint System.



Figure 4.2: Display of diagnostic features including Freeze Frame Data, I/M Readiness, and On-Board Monitor Testing results on the AL609P screen.

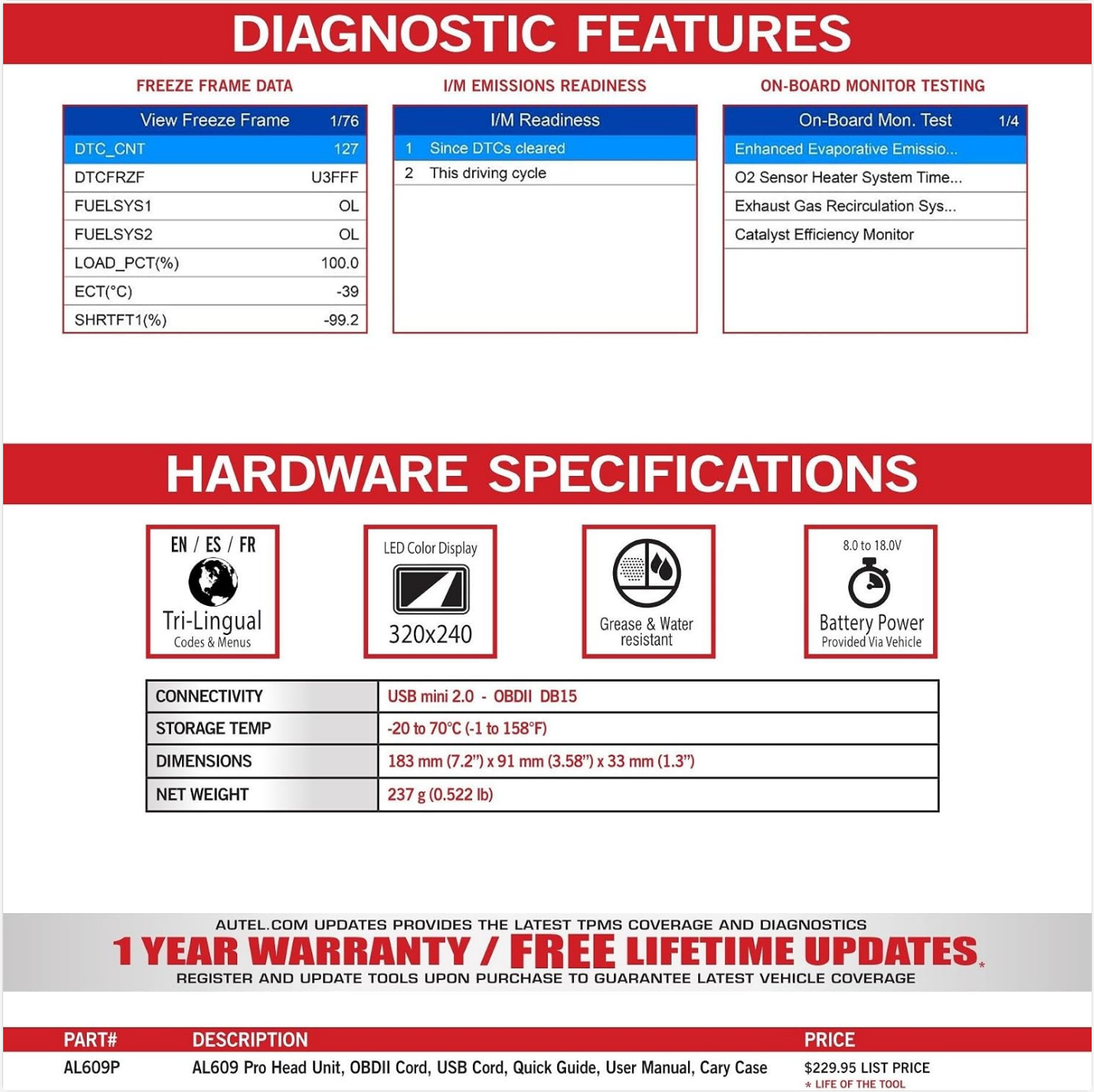


Figure 4.3: A table comparing the diagnostic functions available on the Autel AL609 and the AL609P models, highlighting the enhanced capabilities of the AL609P including ABS and SRS diagnosis.

5. Maintenance

Proper maintenance ensures the longevity and reliable operation of your Autel AL609P tool.

Cleaning

- Use a soft, damp cloth to clean the exterior of the tool.
- Do not use abrasive cleaners or solvents.
- Keep the screen clean and free from scratches.

Storage

- Store the tool in its protective carry case when not in use.

- Keep the tool in a dry environment, away from direct sunlight and extreme temperatures.
- Recommended storage temperature: -20°C to 70°C (-1°F to 158°F).

Software Updates

Regularly check for software updates on the official Autel website to ensure optimal performance and compatibility with new vehicle models. Refer to Section 3 for detailed update instructions.

6. Troubleshooting

This section addresses common issues you might encounter while using the AL609P.

Common Issues and Solutions

- **Tool does not power on:**
  Ensure the OBDII cable is securely connected to both the vehicle's DLC and the tool. Verify the vehicle's ignition is in the ON position. Check the vehicle's battery voltage; the tool requires 8.0 to 18.0V.
- **Communication error with vehicle:**
  Verify the vehicle supports OBDII protocols (most 1996 and newer vehicles do). Check for loose connections. Turn the ignition off, wait 10 seconds, then turn it back on and retry.
- **Screen is blank or frozen:**
  Disconnect the tool from the vehicle and reconnect it. If the issue persists, connect the tool to a PC and attempt a software update or contact Autel support.
- **Unable to update software:**
  Ensure you have downloaded and installed the correct Maxi PC Suite software from the official Autel website. Verify your internet connection. Ensure the tool is properly connected to the PC via USB. Some users report issues with online registration; ensure all required information is entered correctly and contact Autel customer service if the problem persists.
- **Incorrect data displayed:**
  Ensure the vehicle's VIN is correctly identified by the tool. Perform a software update to ensure the tool has the latest vehicle definitions.

If you encounter issues not covered here or require further assistance, please contact Autel customer support through their official channels.

7. Specifications

Detailed technical specifications for the Autel AL609P Pro Service Tool.



Figure 7.1: A table detailing the hardware specifications of the Autel AL609P, including display, connectivity, dimensions, and power requirements.

Feature	Specification
Display	2.8-inch LCD (320x240 resolution)
Operating System (for PC connection)	Windows
Connectivity	USB mini 2.0, OBDII DB15
Input Voltage	8.0 to 18.0V (provided via vehicle battery)
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-20°C to 70°C (-1°F to 158°F)
Dimensions (L x W x H)	183 mm (7.2") x 91 mm (3.58") x 33 mm (1.3")
Weight	237 g (0.522 lb) / 8.3 ounces

8. Warranty and Support

Autel provides comprehensive support for its products.

Warranty Information

The Autel AL609P Pro Service Tool comes with a**1-Year Limited Warranty** from the date of purchase. Additionally, Autel provides **Free Lifetime Updates** for the tool's software. Registration and update of the tool are required to guarantee access to the latest vehicle coverage and features.

Customer Support

For technical assistance, product inquiries, or warranty claims, please visit the official Autel website. The website provides access to FAQs, software downloads, and contact information for customer service. Ensure you have your tool's serial number ready when contacting support.

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