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Autel AL549

Autel AutoLink AL549 OBD2 Scanner User Manual

Comprehensive instructions for operating your Autel AutoLink AL549 diagnostic tool.

1. Product Overview

The Autel AutoLink AL549 is a versatile OBD2 diagnostic scanner designed to assist in vehicle maintenance and troubleshooting. It combines essential OBD2 functions with ABS diagnosis and battery/charging system testing, making it a comprehensive tool for both automotive professionals and enthusiasts.



Image 1.1: Autel AutoLink AL549 device highlighting key features.

2. Setup and Initial Use

2.1. Package Contents

Verify that your package contains the following items:

- Autel AutoLink AL549 Main Unit
- OBDII Cable
- USB Cable (for software updates and printing)
- User Manual (this document)

2.2. Connecting the Scanner

1. Locate the vehicle's 16-pin Data Link Connector (DLC). This is typically found under the dashboard on the driver's side.
2. Ensure the vehicle's ignition is in the OFF position.
3. Connect the OBDII cable from the AL549 scanner to the vehicle's DLC.
4. Turn the vehicle's ignition to the ON position (engine off). The scanner will power on automatically.

3. Operating Instructions

3.1. Main Menu Navigation

Use the navigation buttons (Up, Down, Left, Right) and the OK button to select options from the main menu. The ESC/Return button allows you to go back to the previous screen.

3.2. OBD2 Diagnostic Functions

The AL549 supports all 10 modes of OBDII testing for comprehensive vehicle diagnostics:

- **Read Codes:** Retrieves Diagnostic Trouble Codes (DTCs) from the vehicle's computer.
- **Erase Codes:** Clears DTCs and turns off the Malfunction Indicator Light (MIL) after repairs are made.
- **Live Data:** Displays real-time data stream from the vehicle's sensors.
- **View Freeze Frame Data:** Shows a snapshot of operating conditions at the time a fault code was set.
- **I/M Readiness:** Checks the operational status of emission-related monitoring systems.
- **O2 Sensor Test:** Retrieves O2 sensor monitor test results.
- **On-Board Monitor Test:** Retrieves results for emission-related powertrain components and systems.
- **Component Test:** Allows testing of specific components or systems.
- **Retrieve Vehicle Information:** Displays vehicle identification number (VIN), calibration ID, and calibration verification number (CVN).
- **Module Present:** Identifies communication modules present in the vehicle.



Image 3.1: The AL549 supports all 10 modes of OBDII functions.



Image 3.2: Examples of Read/Erase Codes and Live Data functions.

3.3. ABS Diagnosis

The AL549 can retrieve and clear codes from the Anti-lock Braking System (ABS) for OBD2 standard vehicles manufactured prior to 2020. This function helps diagnose issues that may cause the ABS warning light to illuminate.

Note: ABS diagnosis function is not universally compatible with all cars and does not support newer car models after 2020.

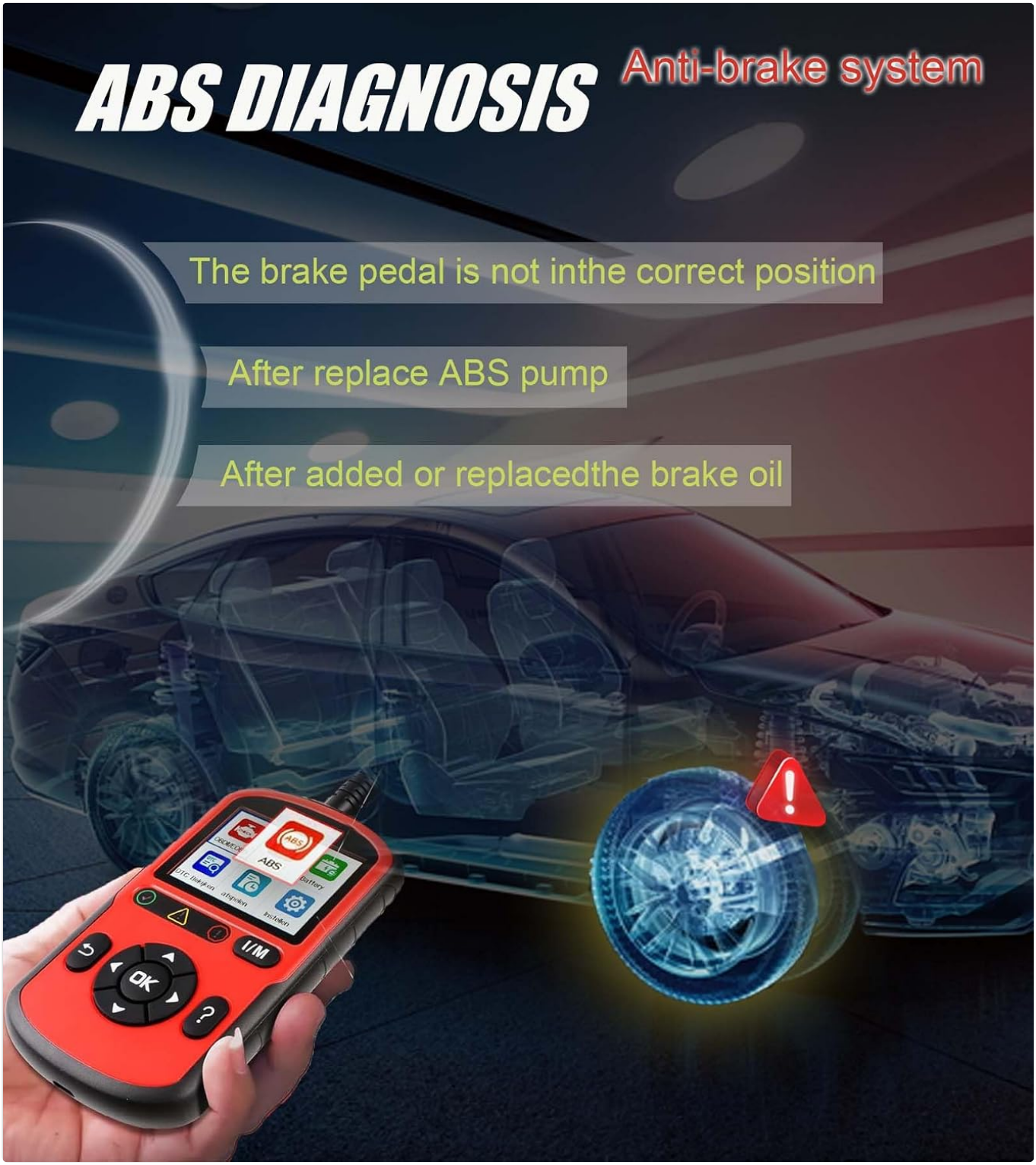


Image 3.3: ABS Diagnosis in progress with the AL549.

3.4. Battery and Charging System Test

This function assesses the vehicle's starting and charging systems. It provides a quick and accurate check of the battery and alternator to ensure proper operation. Follow the on-screen instructions for intuitive test results and potential fix tips.



Image 3.4: Performing a Battery Starting/Charging System Test with the AL549.

3.5. AutoVin Function

The AL549 features an AutoVin function that automatically detects the vehicle's identification number, streamlining the diagnostic process.

3.6. I/M Readiness Check

The one-click I/M Readiness function allows for a quick check of the vehicle's emission system status. It uses color-coded LEDs:

- **RED LED:** Indicates a problem with one or more of the vehicle's systems.
- **GREEN LED:** Indicates that engine systems are operating normally.

- **YELLOW LED:** With the MIL off, there may be pending conditions that could cause the MIL to illuminate later.



Image 3.5: I/M Readiness status display on the AL549.

3.7. DTC Lookup

The DTC Lookup function provides definitions for Diagnostic Trouble Codes, helping you understand the nature of a detected fault.



Image 3.6: Example of a DTC Lookup result.

3.8. Product Introduction Video

▶ **Watch video online**
Autolink Al549 Introduction

Video 3.1: Introduction to the Autel AutoLink AL549 OBD2 Scanner.

4. Maintenance and Updates

4.1. Software Updates

The Autel AutoLink AL549 offers lifetime free software updates. To update the device:

1. Download the Maxi PC Suite software from the official Autel website.
2. Install the software on a Windows-based PC.
3. Connect the AL549 to your PC using the supplied USB cable.
4. Follow the on-screen instructions in the Maxi PC Suite to perform the update.

4.2. Printing Data

The Print Data function allows you to print recorded DTC data. Connect the tool to a Windows-based PC via the USB cable and use the Maxi PC Suite software to access and print the data.

5. Troubleshooting

This section addresses common issues you might encounter with your AL549 scanner.

5.1. No Power

- Ensure the OBDII cable is securely connected to both the scanner and the vehicle's DLC.
- Verify that the vehicle's ignition is in the ON position.
- Check the vehicle's fuse for the DLC port (consult your vehicle's owner's manual).

5.2. Link Error / Communication Failure

- Confirm the vehicle supports the OBDII protocol (most vehicles from 1996 onwards).

- Verify the ignition is ON and the engine is off.
- Check for any damaged pins on the vehicle's DLC or the scanner's cable.
- Try the scanner on a different OBDII-compliant vehicle to rule out scanner malfunction.

5.3. ABS Function Not Working on Newer Vehicles

The ABS diagnostic function is designed for OBD2 standard vehicles prior to 2020. It may not support newer car models after 2020 due to evolving vehicle communication protocols.

6. Specifications

Feature	Detail
Brand	Autel
Model Number	AL549
Power Source	Corded Electric (via OBDII port)
Operating System	Proprietary (updates via Maxi PC Suite)
Screen Size	2.8 inches
Native Resolution	320x240
UPC	792499858483
Included Components	AL549 unit, OBDII cable, USB cable

7. Warranty Information

The Autel AutoLink AL549 comes with a 1-year manufacturer's warranty. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the official Autel website or contact customer support.

8. Customer Support

For any questions, technical assistance, or support regarding your Autel AutoLink AL549, please contact Autel customer service. Contact information can typically be found on the official Autel website or within your product packaging.

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

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