

## Autel ML519

# Autel MaxiLink ML519 OBD2 Scanner Instruction Manual

Model: ML519

## 1. INTRODUCTION

The Autel MaxiLink ML519 is an advanced OBDII/EOBD scanner designed to assist in diagnosing vehicle issues. This tool provides comprehensive diagnostic functions, including reading and clearing trouble codes, viewing live data, performing I/M readiness tests, and more. It is compatible with most OBDII-compliant vehicles manufactured from 1996 onwards in the US, and from 2000 for EU-based and Asian cars.

## 2. PRODUCT OVERVIEW

### 2.1 Key Features

- Reads and clears generic (P0, P2, P3, U0) and manufacturer-specific (P1, P3, U1) codes, and pending codes.
- Turns off the Check Engine Light (MIL), clears codes, and resets monitors.
- Patented One-Click I/M Readiness Status Key for quick emissions readiness check.
- Views freeze frame data.
- Displays live PCM data stream in text and graphing formats.
- Performs O2 Monitor Test, On-Board Monitor Test (Mode 6), and Component Test.
- Retrieves vehicle identification information (VIN, CALID, and CVN).
- Built-in DTC lookup library for code definitions.
- Memory backup for off-vehicle data review and analysis.
- Internet updatable for software and language.
- Prints data via Windows-based PC.

### 2.2 Package Contents

The Autel MaxiLink ML519 package typically includes the following items:

- MaxiLink ML519 Unit
- OBD II Connector Cable
- USB Data Line
- Quick Guide
- Storage Bag



Image: Contents of the Autel MaxiLink ML519 package, including the scanner unit, cables, quick guide, and storage bag.

## 3. SETUP

### 3.1 Connecting the Scanner to the Vehicle

1. Turn the vehicle's ignition off.
2. Locate the vehicle's 16-pin Data Link Connector (DLC). The DLC is usually located under the dashboard on the driver's side.
3. Connect the OBD II connector cable from the ML519 scanner to the vehicle's DLC. Ensure a secure

connection.

4. Turn the vehicle's ignition to the ON position (engine off). The scanner will automatically power on.



Image: The Autel MaxiLink ML519 scanner connected to a vehicle's OBD-II port, displaying its main menu.

## 4. OPERATING INSTRUCTIONS

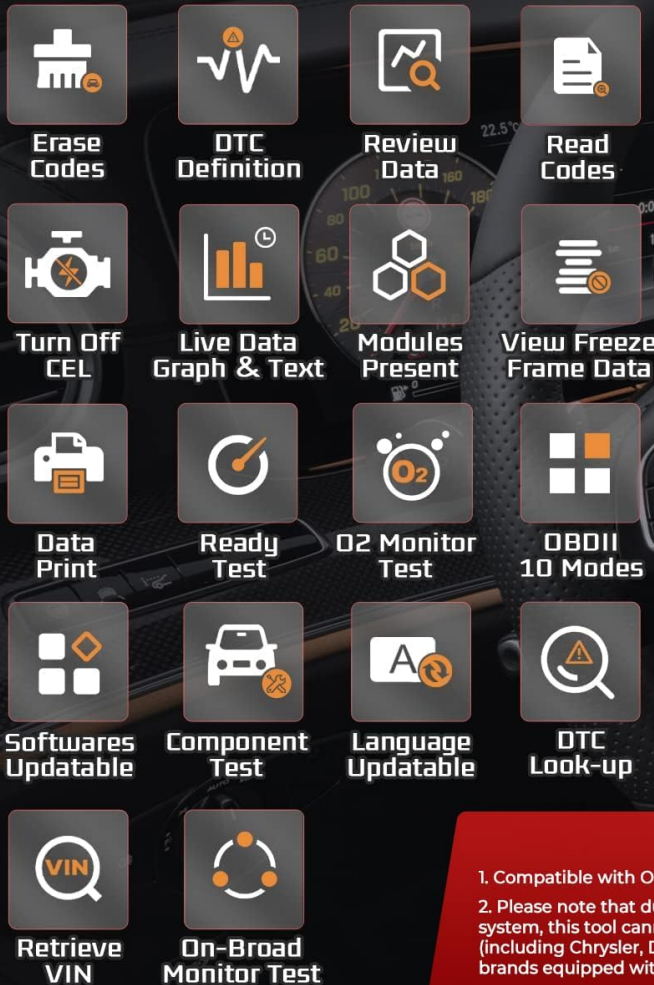
### 4.1 Full OBDII Scan Tool Functions

The ML519 supports all 10 modes of OBD II operation, providing comprehensive diagnostic capabilities.

# FULL OBDII SCAN TOOL



Supporting all 10 OBD II Modes of Operation (Mode 6 Enhanced)



## Tips

1. Compatible with OBD II vehicles from 1996 onward in the US market.
2. Please note that due to the Safe Gateway (SGW) / FCA AutoAuth security system, this tool cannot access OBDII modules to clear codes for FCA vehicles (including Chrysler, Dodge, Jeep, etc.) manufactured after 2017. Other vehicle brands equipped with SGW are not supported either.
3. Functions not universal, please s-end mes-sage via Ama-zon to check before order.

Image: An overview of the Autel MaxiLink ML519's full OBDII scan tool functions, including erase codes, DTC definition, live data, and more.

## 4.2 Reading and Clearing Diagnostic Trouble Codes (DTCs)

To read DTCs:

1. From the main menu, select '**Read Codes**'.
2. The scanner will display any stored or pending DTCs.

To clear DTCs:

1. From the main menu, select '**Erase Codes**'.
2. Confirm the action when prompted. This will turn off the Check Engine Light (MIL) and reset monitors.

## 4.3 One-Click I/M Readiness (Ready Test)

This function allows you to quickly check the readiness status of the vehicle's emission system, which is crucial for annual emission tests. The ML519 provides visual and audible indications.

1. Press the dedicated **I/M Readiness** button on the scanner.
2. The screen will display the status of various monitors (e.g., Misfire, Fuel System, O2 Sensors, EVAP). A

green checkmark indicates readiness, while an 'X' indicates not ready.



Image: The Autel MaxiLink ML519 displaying the I/M Readiness screen, showing the status of various emission monitors with checkmarks and 'X' symbols.

#### 4.4 Viewing Live Data

The ML519 can display real-time sensor data from the vehicle's Powertrain Control Module (PCM) in both text and graphical formats. This allows for detailed analysis of vehicle performance.

1. From the main menu, select '**Live Data**'.
2. Choose between 'View Data' (text list) or 'Graph Data' (graphical representation).
3. Use the navigation buttons to scroll through parameters or zoom in/out on graphs.

# VIEW LIVE DATA IN TEXT OR GRAPH

You can not only read the live data but also record data for later review



Image: The Autel MaxiLink ML519 displaying live data, showing RPM in a graphical format and a list of data parameters.

## 4.5 DTC Lookup Function

The built-in DTC lookup library provides detailed definitions for generic and manufacturer-specific trouble codes, helping you understand the cause of a fault.

1. From the main menu, select '**DTC Lookup**'.
2. Enter the DTC code using the scanner's buttons.
3. The scanner will display the definition of the entered code.



Image: The Autel MaxiLink ML519 displaying the DTC Lookup function, showing how to input a code and view its definition.

## 4.6 Other Diagnostic Tests

- **O2 Monitor Test:** Retrieves O2 sensor monitor test results for the most recently completed tests from the vehicle's on-board computer.
- **On-Board Monitor Test (Mode 6):** Retrieves test results for emission-related powertrain components and systems that are not continuously monitored.
- **Component Test:** Allows initiation of a leak test for the vehicle's EVAP system.
- **Retrieve Vehicle Information:** Displays the Vehicle Identification Number (VIN), Calibration ID (CALID), and Calibration Verification Number (CVN).

## 4.7 Data Printing

The ML519 allows you to print diagnostic data via a Windows-based PC. Connect the scanner to your PC using the provided USB cable and use the Autel PC Suite software (available for download from the Autel website) to manage and print data.

## 5. MAINTENANCE

## 5.1 General Care

- Keep the scanner dry and clean. Avoid exposure to moisture or extreme temperatures.
- Do not use abrasive cleaners or solvents on the unit. Use a soft, damp cloth for cleaning.
- Store the scanner in its protective storage bag when not in use to prevent damage.

## 6. TROUBLESHOOTING

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### 6.1 Common Issues and Solutions

- **Scanner does not power on:** Ensure the OBD II cable is securely connected to the vehicle's DLC and the vehicle's ignition is in the ON position. Check the vehicle's battery voltage (must be 8.0 to 18.0 V).
- **Link error:** Verify the vehicle is OBDII compliant. Check the connection of the OBD II cable. Turn the ignition off, wait 10 seconds, then turn it back on.
- **No communication with vehicle:** Confirm the vehicle supports OBDII protocols. Try connecting to a different OBDII-compliant vehicle to rule out scanner issues.
- **Screen freezes:** Disconnect the scanner from the vehicle, then reconnect. If the issue persists, perform a software update.

## 7. SPECIFICATIONS

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Specification	Value
Display	TFT color display (320 x 240 dpi)
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
External Power	8.0 to 18.0 V via vehicle battery
Screen Size	3.5 Inches
Operating System (for PC connection)	Windows XP (or later for updates)
Item Weight	300 Grams

## 8. SOFTWARE UPDATES

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The Autel MaxiLink ML519 comes with lifetime free software updates. Regular updates ensure compatibility with newer vehicle models and provide enhanced features. To update the software:

1. Download the Autel PC Suite software from the official Autel website.
2. Install the software on a Windows-based PC.
3. Connect the ML519 scanner to your PC using the provided USB cable.
4. Follow the on-screen instructions in the PC Suite to download and install the latest software updates to your device.

## 9. WARRANTY AND SUPPORT

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## **9.1 Warranty Information**

The Autel MaxiLink ML519 is backed by a 12-month warranty against defects in materials and workmanship from the date of purchase. This warranty covers repair or replacement of the product under normal use conditions.

## **9.2 Customer Support**

For any questions, technical assistance, or warranty claims, please contact Autel customer service. Refer to the official Autel website for the most current contact information or use the email provided in your product documentation.