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⚠️ IMPORTANT

Before operating or maintaining this unit, please read this manual carefully, paying extra attention to the safety warnings and precautions.

For Services and Support:

pro.autel.com
www.autel.com
1-855-288-3587/1-855-AUTELUS (North America)
 0086-755-86147779 (China)
support@autel.com

For details, please refer to the Service Procedures in this manual.
Safety Information

For your own safety and the safety of others, and to prevent damage to the device and vehicles upon which it is used, it is important that the safety instructions presented throughout this manual be read and understood by all persons operating or coming into contact with the device.

There are various procedures, techniques, tools, and parts for servicing vehicles, as well as in the skill of the person doing the work. Because of the vast number of test applications and variations in the products that can be tested with this equipment, we cannot possibly anticipate or provide advice or safety messages to cover every circumstance. It is the automotive technician's responsibility to be knowledgeable of the system being tested. It is crucial to use proper service methods and test procedures. It is essential to perform tests in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area, the device being used, or the vehicle being tested.

Before using the device, always refer to and follow the safety messages and applicable test procedures provided by the manufacturer of the vehicle or equipment being tested. Use the device only as described in this manual. Read, understand, and follow all safety messages and instructions in this manual.

Safety Messages

Safety messages are provided to help prevent personal injury and equipment damage. All safety messages are introduced by a signal word indicating the hazard level.

⚠️ DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.

⚠️ WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.
Safety Instructions

The safety messages herein cover situations Autel is aware of. Autel cannot know, evaluate or advise you as to all of the possible hazards. You must be certain that any condition or service procedure encountered does not jeopardize your personal safety.

⚠️ DANGER
When an engine is operating, keep the service area WELL VENTILATED or attach a building exhaust removal system to the engine exhaust system. Engines produce carbon monoxide, an odorless, poisonous gas that causes slower reaction time and can lead to serious personal injury or loss of life.

⚠️ When using headphones, moderate volume so as not to incur hearing loss.

Listening at high volumes for long periods of time may result in hearing loss.

⚠️ SAFETY WARNINGS:

- Always perform automotive testing in a safe environment.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area, for exhaust gases are poisonous.
- Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while testing.
• Be extra cautious when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.

• Keep a fire extinguisher suitable for gasoline, chemical, and electrical fires nearby.

• Do not connect or disconnect any test equipment while the ignition is on or the engine is running.

• Keep the test equipment dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clean the outside of the equipment as necessary.

• Do not drive the vehicle and operate the test equipment at the same time. Any distraction may cause an accident.

• Refer to the service manual for the vehicle being serviced and adhere to all diagnostic procedures and precautions. Failure to do so may result in personal injury or damage to the test equipment.

• To avoid damaging the test equipment or generating false data, make sure the vehicle battery is fully charged and the connection to the vehicle DLC is clean and secure.

• Do not place the test equipment on the distributor of the vehicle. Strong electro-magnetic interference can damage the equipment.
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</tr>
</tbody>
</table>
1 Using This Manual

This manual contains device usage instructions.

Some illustrations in this manual may contain modules and optional equipment that are not included in your system.

Conventions

The following conventions are used.

Bold Text

Bold text is used to highlight selectable items such as buttons and menu options.

Example:

- Tap OK.

Notes and Important Messages

Notes

A NOTE provides helpful information such as additional explanations, tips, and comments.

Example:

⚠️ NOTE

New batteries reach full capacity after approximately 3 to 5 charging and discharging cycles.

Important

IMPORTANT indicates a situation which, if not avoided, may result in damage to the tablet or the vehicle.
Example:

️ IMPORTANT
Keep the cable away from heat, oil, sharp edges and moving parts. Replace damaged cables immediately.

Hyperlink
Hyperlinks or links that take you to other related articles, procedures, and illustrations are available in electronic documents. Blue italic text indicates a selectable hyperlink and blue underlined text indicates a website link or an email address link.

Illustrations
Illustrations used in this manual are samples, and the actual testing screen may vary for each vehicle being tested. Observe the menu titles and on-screen instructions to make correct option selection.

Procedures
An arrow icon indicates a procedure.

Example:

➢ To use the camera:
1. Tap the Camera button. The camera screen opens.
2. Focus the image to be captured in the view finder.
3. Tap the blue circle. The view finder now shows the captured picture and auto-saves the taken photo.
2 General Introduction

The MaxiSys® ADAS MA600 Diagnostic Platform is an evolutionary smart solution for specialized automotive diagnosis. Utilizing the powerful Cortex A7+A15 six-core processor, and a 9.7 inch LED capacitive touch screen, combined with the best possible coverage of OE-level diagnostics, and based on the revolutionary multitask-capable Android Operating system, the MaxiSys organizes information with test instrumentation to help you diagnose symptoms, codes, and to calibrate Advanced Driver-Assistance Systems (ADAS) easily, quickly and efficiently.

MA600 currently covers vehicles including Volvo, VOLKSWAGEN, Audi, Bentley, VOLKSWAGEN_CV, Lamborghini, Seat, Skoda, FAW Audi, FAW VOLKSWAGEN, SAIC VOLKSWAGEN, SAIC VOLKSWAGEN SKODA, Porsche, Infiniti, Nissan, DF Nissan, DF Venucia, BMW MINI, BMW, BMW Brilliance, Rolls-Royce, Toyota, Lexus, Toyota China, Hyundai, Kia, BJ Hyundai, Dongfeng Yueda Kia, Honda, Acura, DF Honda, GZ Honda, Benz, Sprinter, Smart, Maybach, Ford, Ford EU, Ford China, Mazda, Mazda China, Chrysler, Doge, Jeep, Peugeot, Citroen, DF Peugeot, DF Citroen, DS, Renault, Samsung, Land Rover, Jaguar, GM USA, GM China, Opel, Vauxhall, Fiat, Alfa, and Lancia, etc.

There are two main components to the MaxiSys system:

- **MaxiSys Tablet** – the central processor and monitor for the system.

- **MaxiFlash Elite** – wireless vehicle communication interface (VCI) and pass-thru programming device.

This manual describes the construction and operation of these devices and how they work together to deliver diagnostic solutions.

**NOTE**

For instructions of the calibration equipment, please refer to the User Manual of MaxiSys ADAS MA600 Calibration Tools.
MaxiSys Tablet

Functional Description

Figure 2-1 MaxiSys Tablet Front View

1. 9.7" LED Capacitive Touch Screen
2. Ambient Light Sensor – detects ambient brightness
3. Microphone

Figure 2-2 MaxiSys Tablet Back View

1. Audio Speaker
2. Collapsible Stand – extends from the back to allow hands-free viewing of the tablet at a 30 degree angle
3. Camera Lens
4. Camera Flash

Figure 2-3 MaxiSys Tablet Left Side

1. Mini SD (Secure Digital) Card Slot
2. Mini USB (Universal Serial Bus) Port (it cannot be used at the same time with the No. 4 USB Port in Figure 2-4 MaxiSys Tablet Top View)
3. Head Phone Jack

Figure 2-4 MaxiSys Tablet Top View

1. DC Power Supply Input Port
2. HDMI (High-Definition Multimedia Interface) Port
3. USB Port
4. USB Port (it cannot be used at the same time with the Mini USB Port in Figure 2-3 MaxiSys Tablet Left Side)
5. Lock/Power Button – long press to turn on and off the MaxiSys tablet, or short press to lock the screen.
Power Sources

The tablet can receive power from any of the following sources:

- Internal Battery Pack
- AC/DC Power Supply
- Vehicle Power

⚠️ IMPORTANT

*Do not charge the battery if the ambient temperature is lower than 0°C or higher than 45°C. Charging the battery when the ambient temperature is outside the recommended range may result in overheating and fire.*

**Internal Battery Pack**

The tablet can be powered with the internal rechargeable battery, which if fully charged can provide sufficient power for about 7.5 hours of continuous operation.

**AC/DC Power Supply**

The tablet can be powered from a wall socket using the AC/DC power adapter. The AC/DC power supply also charges the internal battery pack.

**Vehicle Power**

The tablet can be powered from the cigarette lighter or other 12 volt accessory socket on the vehicle. The vehicle power cable connects to the DC power supply port on the top side of the display unit.

Technical Specifications

**Table 2-1 Tablet Specifications**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Android™ 4.4.2, KitKat</td>
</tr>
<tr>
<td>Processor</td>
<td>Samsung Exynos Six-core Processor (1.3GHz Quad-core ARM Cortex-A7 + 1.7GHz Dual-core ARM Cortex-A15)</td>
</tr>
<tr>
<td>Memory</td>
<td>2GB RAM &amp; 64GB On-board Memory</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>9.7 inch LED capacitive touch screen with 1024x768 resolution</td>
</tr>
<tr>
<td><strong>Connectivity</strong></td>
<td>Wi-Fi (802.11 a/b/g/n/ac)</td>
</tr>
<tr>
<td></td>
<td>USB: 2.0</td>
</tr>
<tr>
<td></td>
<td>BT v.2.1 + EDR</td>
</tr>
<tr>
<td></td>
<td>SD Card (Support up to 32GB)</td>
</tr>
<tr>
<td></td>
<td>HDMI</td>
</tr>
<tr>
<td><strong>Camera (rear)</strong></td>
<td>8.0 Megapixel, AF with Flashlight</td>
</tr>
<tr>
<td><strong>Sensors</strong></td>
<td>Gravity Accelerometer, Ambient Light Sensor (ALS)</td>
</tr>
<tr>
<td><strong>Audio Input/output</strong></td>
<td>Microphone</td>
</tr>
<tr>
<td></td>
<td>Dual Speakers</td>
</tr>
<tr>
<td></td>
<td>3-Band 3.5 mm stereo/standard headset jack</td>
</tr>
<tr>
<td><strong>Power and Battery</strong></td>
<td>11000 mAh 3.7 V lithium-polymer battery</td>
</tr>
<tr>
<td></td>
<td>Charging via 12 V AC/DC power supply with the temperature between 0°C and 45°C</td>
</tr>
<tr>
<td><strong>Input Voltage</strong></td>
<td>12 V (9-24 V)</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>6.5 W</td>
</tr>
<tr>
<td><strong>Operating Temp.</strong></td>
<td>0 to 50°C (32 to 122°F)</td>
</tr>
<tr>
<td><strong>Storage Temp.</strong></td>
<td>-20 to 60°C (-4 to 140°F)</td>
</tr>
<tr>
<td><strong>Dimensions (WxHxD)</strong></td>
<td>300 mm (11.81&quot;) x 220 mm (8.66&quot;) x 50 mm (1.97&quot;)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>NW: 1.42 kg (3.13 lb.)</td>
</tr>
<tr>
<td></td>
<td>GW: 8.655 kg (19.08 lb.)</td>
</tr>
</tbody>
</table>
MaxiFlash Elite

Functional Description

1. DC Power Supply Input Port
2. Vehicle Data Connector
3. Vehicle LED
   • Flashes green when the device is communicating with the vehicle's system

⚠️ IMPORTANT
Do not disconnect the programming device while this status light is on. If the flash programming procedure is interrupted while the vehicle's ECU is blank or only partially programmed may result in unrecoverable module damage.

4. Connection LED
   • Lights solid green when the device is properly connected with the tablet via the USB cable
   • Lights solid blue when the device is connected with the tablet via wireless (BT) connection
5. Power LED
   • Lights solid green when the device is powered on
   • Blinks red when system failure occurs
   • Lights amber when device is powered on and is performing a self-test
6. USB Port

MaxiFlash Elite Programming Capability

The MaxiFlash Elite ECU Programming Device is a SAE J2534-1 & -2 compliant PassThru programming interface device. Using the updated OEM software, it is capable of replacing the existing software/firmware in the
Electronic Control Units (ECU), programming new ECUs and fixing software-controlled drivability and emission issues.

**Communication**

The MaxiFlash Elite ECU programming device supports BT and USB communications. It can transmit vehicle data to the tablet with or without a physical connection. The working range of the transmitter through BT communication is 210 feet (about 70 m). If the tablet is brought out of range and loses communication with the VCI, the connection will be restored once brought back in range.

**Power Sources**

The MaxiFlash Elite programming device can receive power from both of the following sources:

- Vehicle Power
- AC/DC Power Supply

**Vehicle Power**

The MaxiFlash Elite programming device operates on 12-volt vehicle power, which it receives through the vehicle data connection port. The device powers on whenever it is connected to an OBD II/EOBD compliant data link connector (DLC). For non OBD II/EOBD compliant vehicles, the device can be powered from a cigarette lighter or other suitable power port on the test vehicle using the auxiliary power cable.

**AC/DC Power Supply**

The MaxiFlash Elite programming device can be powered from a wall socket using the AC/DC power adapter.
Technical Specifications

Table 2-2 MaxiFlash Elite Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communications</td>
<td>Wireless BT V2.1 + EDR USB 2.0</td>
</tr>
<tr>
<td>Wireless Frequency</td>
<td>Wireless BT V2.1+EDR, 2.4GHz</td>
</tr>
<tr>
<td>Input Voltage Range</td>
<td>12 VDC to 24 VDC</td>
</tr>
<tr>
<td>Supply Current</td>
<td>170 mA @ 12 VDC 100 mA @ 24 VDC</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>0°C to 60°C (ambient)</td>
</tr>
<tr>
<td>Storage Temp.</td>
<td>-65°C to 100°C (ambient)</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>149 mm (5.87&quot;) x 86 mm (3.38&quot;) x 35 mm (1.28&quot;)</td>
</tr>
<tr>
<td>Weight</td>
<td>290 g (0.64 lb.)</td>
</tr>
</tbody>
</table>

Accessories Kit

Main Cable

The MaxiFlash Elite can be powered through the Main Cable when connected to an OBD II/EOBD compliant vehicle. The Main Cable connects the MaxiFlash Elite to the vehicle’s data link connector (DLC), through which the MaxiFlash Elite can transmit vehicle data to the tablet.

Figure 2-6 Main Cable – 1.5 m in length

OBD I Adapters

The OBD I adapters are for OBD II vehicles with Data Link Connectors that do not have the standard OBDII 16 pin connector. Adapters are vehicle-specific. The most common adapters are shown below.
Suitable for Benz-14 (EU Only)

Suitable for Chrysler-16 (America Only)

Suitable for BMW-20

Suitable for Kia-20

Suitable for Nissan-14

Suitable for GM/Daewoo-12

Suitable for Honda-3

Suitable for Benz-38

Suitable for Volkswagen / Audi-2+2

Suitable for Mitsubishi/ Hyundai-12+16
Other Accessories

**Standard 2.0 USB Cable**
Connects the tablet to the VCI unit.

**Mini USB Cable**
Connects the tablet to the PC.

**AC/DC External Power Adapter**
Connects the tablet to the external DC power port for power supply.

**Cigarette Lighter**
Provides power to the tablet or the J2534 programming device through connection to the vehicle's cigarette lighter receptacle, as some non-OBD II vehicles cannot provide power via the DLC connection.

**Lighter Fuse x2**
A safety device for the cigarette lighter.
3 Getting Started

Make sure the tablet has sufficient power or is connected to the external power supply (see *Power Sources* on page 6).

**Power Up**

Long Press the Lock/Power button on the top right side of the tablet to switch the unit on. The power LED will light green. The system boots up and displays the lock screen. Press and drag the inner ring to the edge of the circle to unlock the screen; the MaxiSys Job Menu is shown.  

![Sample MaxiSys Menu](image)

**Figure 3-1 Sample MaxiSys Menu**

1. Application Buttons  
2. Locator and Navigation Buttons  
3. Status Icons

⚠️ **NOTE**

The screen is locked by default upon startup. It is recommended to lock the screen when not in use to protect information in the system and conserve the power.

Almost all operations on the tablet are controlled through the touch screen. The touch screen navigation is menu driven, which allows you to quickly locate the test procedure, or data that you need, through a series of choices and questions. Detailed descriptions of the menu structures are found in the chapters for each application.

**Application Buttons**

The table below briefly describes each of the applications in the MaxiSys system.

<p>| Table 3-1 Applications |</p>
<table>
<thead>
<tr>
<th>Name</th>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnostics</td>
<td><img src="https://via.placeholder.com/15" alt="Car" /></td>
<td>Accesses the unit's diagnostics functions. See <em>Diagnostics</em> on page 18.</td>
</tr>
<tr>
<td>Service</td>
<td><img src="https://via.placeholder.com/15" alt="Photo" /></td>
<td>Accesses special functions menu. See <em>Service</em> on page 57 for details.</td>
</tr>
<tr>
<td>Data Manager</td>
<td><img src="https://via.placeholder.com/15" alt="Folder" /></td>
<td>Accesses the organization system for saved data files. See <em>Data Manager</em> on page 65.</td>
</tr>
<tr>
<td>Settings</td>
<td><img src="https://via.placeholder.com/15" alt="Setting" /></td>
<td>Accesses the system settings menu and general tablet menu. See <em>Settings</em> on page 69.</td>
</tr>
<tr>
<td>Update</td>
<td><img src="https://via.placeholder.com/15" alt="Download" /></td>
<td>Accesses system software update menu. See <em>Update</em> on page 75.</td>
</tr>
<tr>
<td>VCI Manager</td>
<td><img src="https://via.placeholder.com/15" alt="VCI" /></td>
<td>Accesses VCI connection menu. See <em>VCI Manager</em> on page 77.</td>
</tr>
<tr>
<td>Support</td>
<td><img src="https://via.placeholder.com/15" alt="TeamViewer" /></td>
<td>Launches the Support platform that synchronizes Autel's on-line service base station with the MaxiSys tablet. See <em>Support</em> on page 79.</td>
</tr>
<tr>
<td>Academy</td>
<td><img src="https://via.placeholder.com/15" alt="Book" /></td>
<td>Accesses technical tutorials and training articles about the device or vehicle diagnostic techniques. See <em>Academy</em> on page 87 for details.</td>
</tr>
<tr>
<td>Remote Desk</td>
<td><img src="https://via.placeholder.com/15" alt="TeamViewer" /></td>
<td>Configures your unit to receive remote support using the TeamViewer application. See <em>Remote Desk</em> on page 88.</td>
</tr>
<tr>
<td>Shop Manager</td>
<td><img src="https://via.placeholder.com/15" alt="Shop" /></td>
<td>Accesses Shop Manager database to store workshop, consumer information and vehicle test history. See <em>Shop Manager</em> on page 90.</td>
</tr>
<tr>
<td>MaxiFix</td>
<td><img src="https://via.placeholder.com/15" alt="Cloud" /></td>
<td>Launches the MaxiFix platform that accesses a large network of Autel users who exchange diagnostics procedures and repair techniques. See <em>MaxiFix</em> on page 96.</td>
</tr>
<tr>
<td>Name</td>
<td>Button</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>--------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Function Viewer</td>
<td></td>
<td>Provides a quick search for supported functions and/or vehicles. See <em>Function Viewer</em> on page 104.</td>
</tr>
<tr>
<td>Digital Inspection</td>
<td></td>
<td>Configures the unit to operate as a video scope device by connecting to an Imager head cable for close vehicle inspections. See <em>Digital Inspection</em> on page 106.</td>
</tr>
<tr>
<td>MaxiScope</td>
<td></td>
<td>Configures the unit to operate as an automotive oscilloscope to perform electrical and electronic circuit tests and monitor signal activities. See <em>MaxiScope</em> on page 112.</td>
</tr>
<tr>
<td>Quick Link</td>
<td></td>
<td>Provides associated website bookmarks to allow quick access to product update, service, support and other information. See <em>Quick Link</em> on page 113.</td>
</tr>
</tbody>
</table>
Locator and Navigation Buttons

Operations of the Navigation buttons at the bottom of the screen are described in the table below:

<table>
<thead>
<tr>
<th>Name</th>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locator</td>
<td><img src="image" alt="Locator" /></td>
<td>Indicates the current screen. Swipe the screen left or right to view the previous or next screen.</td>
</tr>
<tr>
<td>Back</td>
<td><img src="image" alt="Back" /></td>
<td>Returns to the previous screen.</td>
</tr>
<tr>
<td>Android Home</td>
<td><img src="image" alt="Android Home" /></td>
<td>Returns to Android System's Home screen.</td>
</tr>
<tr>
<td>Recent Apps</td>
<td><img src="image" alt="Recent Apps" /></td>
<td>Displays a list of applications that are currently working. Tap an app icon to launch. To remove an app, swipe it to the right.</td>
</tr>
<tr>
<td>Browser</td>
<td><img src="image" alt="Browser" /></td>
<td>Launches the Chrome Internet browser.</td>
</tr>
<tr>
<td>Camera</td>
<td><img src="image" alt="Camera" /></td>
<td>Opens the camera with short press; takes and saves screenshot image with long press. The saved files are auto-stored in the Data Manager application for later reviews. See Data Manager on page 65.</td>
</tr>
<tr>
<td>Display &amp; Sound</td>
<td><img src="image" alt="Display &amp; Sound" /></td>
<td>Adjusts the brightness of the screen and the volume of the audio output.</td>
</tr>
<tr>
<td>MaxiSys Home</td>
<td><img src="image" alt="MaxiSys Home" /></td>
<td>Returns to MaxiSys Job Menu.</td>
</tr>
<tr>
<td>VCI</td>
<td><img src="image" alt="VCI" /></td>
<td>Opens the VCI Manager application. The check at the bottom right corner indicates the tablet is communicating with the VCI, an X will display if the tablet is not connected to VCI.</td>
</tr>
<tr>
<td>MaxiSys Shortcut</td>
<td><img src="image" alt="MaxiSys Shortcut" /></td>
<td>Returns to the Diagnostics screen.</td>
</tr>
<tr>
<td>Service</td>
<td><img src="image" alt="Service" /></td>
<td>Returns to the Service screen.</td>
</tr>
</tbody>
</table>
To use the camera

1. Tap the **Camera** button. The camera screen opens.
2. Focus the image to be captured in the view finder.
3. Tap the inner blue circle. The view finder now shows the captured picture and auto-saves the taken photo.
4. Tap the thumbnail image on the top right corner of the screen to view the stored image.
5. Tap the **Back** or **Home** button to exit the camera application.

Refer to Android documentation for additional information.

System Status Icons

These are the standard status icons of the Android operating system. Your MaxiSys display tablet is a fully functional Android tablet. Refer to Android documentation for additional information.

Power Down

All vehicle communications must be terminated before shutting down the tablet. A warning message displays if a shutdown is attempted while the tablet is communicating with the vehicle. Forcing a shutdown while the tablet is communicating may result in electronic control module ECM errors on some vehicles. Please exit all the applications before turning off the tablet.

To power down the MaxiSys tablet:

1. Long press the Lock/Power Button.
2. Tap the **Power off** option.
3. Tap **OK**.

Reboot System

If the tablet software shuts off unexpectedly (crashes), long press the Lock/Power button and tap Reboot to restart the system.
4 Diagnostics

The Diagnostics application can access the electronic control module (ECM) of various vehicle control systems, such as engine, transmission, antilock brake system (ABS), airbag system (SRS) and more.

Before performing the Diagnostics function, please refer to Establish Vehicle Communication on page 48 to connect the vehicle and the MaxiSys tablet via MaxiFlash Elite. Once the devices are connected, please refer to Vehicle Identification on page 54 to select the test vehicle.

Navigation

This section describes how to navigate the Diagnostics interface and select test options.

Diagnostics Screen Layout

The Diagnostics screens typically include four sections.

Figure 4-1 Sample Diagnostics Screen

1. Diagnostics Toolbar
2. Status Information Bar
3. Main Section
4. Functional Buttons
Diagnostics Toolbar

The Diagnostics Toolbar contains a number of buttons that allow you to perform many functions including printing and saving displayed data. The table below provides a brief description for the operations of the Diagnostics toolbar buttons:

<table>
<thead>
<tr>
<th>Name</th>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home</td>
<td><img src="image" alt="Home Button" /></td>
<td>Returns to the MaxiSys Job Menu.</td>
</tr>
<tr>
<td>Vehicle Swap</td>
<td><img src="image" alt="Vehicle Swap Button" /></td>
<td>Exits the diagnostic session and returns to the vehicle menu screen to select another vehicle for testing.</td>
</tr>
<tr>
<td>Settings</td>
<td><img src="image" alt="Settings Button" /></td>
<td>Opens the setting screen. See <em>Settings</em> on page 69.</td>
</tr>
<tr>
<td>Print</td>
<td><img src="image" alt="Print Button" /></td>
<td>Saves and prints a copy of the displayed data. See <em>Print</em> on page 70.</td>
</tr>
<tr>
<td>Help</td>
<td><img src="image" alt="Help Button" /></td>
<td>Provides instructions or tips for operations of various diagnostic functions.</td>
</tr>
</tbody>
</table>
| Save            | ![Save Button](image) | Taps it to open a submenu, on which there are 3 options available for saving the displayed data.  
  ● Tap *Save This Page* to take a screenshot image  
  ● Tap *Save All Data* to save a PDF file (mostly used to save data that displays on more than one page)  
  ● Tap *Start Saving* to record a video clip (only available for recording Live Data or special graph data)  
  All saved data are stored in the Data Manager application for later reviews. See *Data Manager* on page 65. |
| Data Logging    | ![Data Logging Button](image) | Records the communication data and ECU information of the test vehicle. The saved data can be recorded and sent to the technical center via the Internet.  
  A notification icon will display when a follow up on the reported data log issue is available, see *Data Logging* on page 83. |
<table>
<thead>
<tr>
<th>Name</th>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Send</td>
<td>![upload icon]</td>
<td>Tap to submit the Data Logging report to the technical center via the Internet.</td>
</tr>
</tbody>
</table>

- **To print data in Diagnostics**
  1. Tap the **Diagnostics** application button from the MaxiSys Job Menu. The **Print** button on the diagnostic toolbar is available throughout the Diagnostics operations.
  2. Tap **Print** and a drop-down menu displays.
     a) **Print This Page** – prints a screenshot copy of the current screen.
     b) **Print All Page** – prints a PDF copy of all displayed data.

- **NOTE**
  Make sure the tablet is connected to the computer network, either via Wi-Fi or LAN, before printing. For instructions on printing, see **Print** on page 70 for details.

- **To submit Data Logging reports in Diagnostics**
  1. Tap the **Diagnostics** application button from the MaxiSys Job Menu. The **Data Logging** button on the diagnostic toolbar is available throughout the Diagnostics operations.
  2. Tap the **Data Logging** button to display the error options. Select a specific error, and a submission form will display to let you fill in the report information.
  3. Tap the **Send** button to submit the report form via the Internet, a confirmation message displays when the message is sent successfully.

**Status Information Bar**

The Status Information Bar at the top of the Main Section displays the following items:

1. **Menu Title** – displays the menu subject of the Main Section.
2. **VCI Icon** – displays the communication status between the tablet and the MaxiFlash Elite.
3. **Battery Icon** – displays the battery status of the vehicle.

**Main Section**

The Main Section of the screen varies depending on the stage of operations. The Main Section can show vehicle identification selections, the main menu, test data, messages, instructions and other diagnostic information.
Functional Buttons

The displayed Functional Buttons in this section of the screen varies depending on the stage of operations. They can be used to navigate, save or clear the diagnostic data, exit scanning as well as make other functional controls. The functions of these buttons will be introduced in the following sections of the corresponding test operations.

Screen Messages

Screen messages display when additional input is needed before proceeding. There are three types of on-screen messages as to their purposes: Confirmation, Warning, and Error.

Confirmation Messages

This type of messages displays as an "Information" screen, which informs you when you are about to perform an action that cannot be reversed or when an action has been initiated and your confirmation is needed to continue.

When a user-response is not required to continue, the message displays briefly before automatically disappearing.

Warning Messages

This type of messages informs you when completing the selected action may result in an irreversible change or loss of data. The typical example for this is the "Erase Codes" message.

Error Messages

Error messages inform you when a system or procedural error has occurred. Examples of possible errors include a disconnected cable or communication interruption due to certain reasons.

Making Selections

The Diagnostics application is a menu driven program that presents a series of choices one at a time. As you select from a menu, the next menu in the series displays. Each selection narrows the focus and leads to the desired test.
Main Menu

The Diagnostics application allows you to establish a data link to the electronic control system of the test vehicle via the MaxiFlash Elite for vehicle diagnosis, service or programming. You can operate functional tests, retrieve vehicle diagnostic information such as trouble codes, event codes and live data, and perform ECU reprogramming, for various vehicle control systems, such as engine, transmission, ABS and more.

The Vehicle Diagnostics screen usually has four options:

Diagnosis

This is a comprehensive section which includes all available functions: reading and clearing codes, saving and printing diagnostic information, as well as performing active tests and special functions.

ADAS Calibrate

After a section is made and the tablet establishes communication with the vehicle via the MaxiFlash Elite, the corresponding function menu or selection menu displays. Step-by-step instructions display exact OE-calibration specifications guide the technician to correctly position the frame, targeting components and vehicle.

Service

Select this option to perform regular vehicle maintenance services including oil light and steering angle sensor resets, new battery registration and ABS brake bleed.

Programming

This is a separate section designed for quick access to ECU reprogramming operations.

⚠️ NOTE

The function options vary by vehicle. For some vehicles, there are more options, such as Repair Information and Vehicle Profile.
Hot Function

This option is a separate section designed to perform vehicle scheduled service and maintenance, such as to reset the service lights and perform calibration for various systems.

Pre-scan Report

Via entering the repair order number, record and generate the trouble code and a diagnostic report. ADAS modules are noted with an ADAS icon.

Post-scan Report

Documents completion of vehicle repair and successful calibrations of ADAS devices.

Vehicle Profile

This section describes basic information of the vehicle including vehicle type, vehicle year, model type, and vehicle engine.

Diagnosis

There are two options available when accessing the Diagnosis section:

1. Auto Scan – initiates automatic scan of all available systems and identifies codes if present.
2. Control Units – displays a selectable menu of all available control units on vehicle.

Auto Scan

The Auto Scan function performs a comprehensive scanning of all the systems on the vehicle’s to locate system faults and retrieve DTCs. Below is an example of an Auto Scan screen.
Figure 4-2 Sample Auto Scan Operation Screen

1. Navigation Bar
2. Main Section
3. Functional Buttons

Navigation Bar

1. List Tab – displays the scanned data in list format.
2. Progress Bar – indicates the test progress.

Main Section

Column 1 – displays the system numbers.
Column 2 – displays the scanned systems.
Column 3 – displays the system status of scanned system.

- ! -: Indicates that the scanned system may not support the code reading function, or there is a communication error between the tester and the control system.
- ? -: Indicates that the vehicle control system has been detected, but the tester cannot access it.
- Fault | #: Indicates there is/are detected fault code(s) present; "#" indicates the number of the detected faults.
- Pass | No Fault: Indicates the system has passed the scanning process and no fault has been detected.

Tap the ➤ button to the right of the system status to access Function menu to review additional data or perform active tests. A Function Menu
will then display.

**Functional Buttons**

The table below provides a brief description of the Functional Buttons' operations in Auto Scan:

**Table 4-2 Functional Buttons in Auto Scan**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back</td>
<td>Returns to the previous screen or exit Auto Scan.</td>
</tr>
<tr>
<td>Pause</td>
<td>Suspends scanning. Icon converts to display as <strong>Continue</strong> button.</td>
</tr>
<tr>
<td>OK</td>
<td>Confirms the test result, and continues system diagnosis after selection of vehicle system by choosing the system in the Main Section.</td>
</tr>
<tr>
<td>Quick Erase</td>
<td>Deletes codes. A warning message screen will display to inform user of possible data loss when this function is selected.</td>
</tr>
<tr>
<td>Report</td>
<td>Displays the diagnostic data in report form.</td>
</tr>
</tbody>
</table>

**Control Units**

This option allows you to directly access a system for testing. Select control module and drilldown to needed system.
The Function Menu options vary by vehicle. The function menu may include:

- **ECU Information** – displays the retrieved ECU information in detail. Information is displayed upon user selection.
- **Read Codes** – displays detailed information of DTC records retrieved from the vehicle control module.
- **Erase Codes** – erases DTC records and other data from the ECM.
- **Live Data** – retrieves and displays live data and parameters from the vehicle’s ECU.
- **Active Test** – provides specific subsystem and component tests. This selection may appear as *Actuators*, *Actuator Test*, or *Function Tests* and the tests options vary depending on the vehicle manufacturer and model.
- **Special Functions** – provides component adaptation or variant coding functions for custom configurations, and also allows user to input adaptive values for certain components after making repairs. Depending on the test vehicle, this selection may sometimes displays as *Control Unit Adaptations*, *Variant Coding*, *Configuration* or something similar.

**NOTE**

Print, Save, Help, and Data Logging functions are available via the toolbar located atop the display screen throughout diagnostic sessions.

**To perform a diagnostic function**

1. Establish communication with the test vehicle via the MaxiFlash Elite.
2. Identify the test vehicle by selecting from the menu options.
3. Select the **Diagnosis** section.
4. Initiate Auto Scan or select Control Unit.
5. Select the desired test from the Function Menu.

**ECU Information**

This function retrieves and displays the specific information for the tested control unit, including unit type, version number. An example of the ECU Information screen displays below:

![Sample ECU Information Screen](image)

**Figure 4-4 Sample ECU Information Screen**

1. Diagnostics Toolbar Buttons – see **Table 4-1 Diagnostics Toolbar Buttons** on page 19 for detailed descriptions of the operations for each button.
2. Main Section – the left column displays the item names; the right column displays the specifications or descriptions.
3. Functional Button – in this case, only an ESC (or Back) button is available.

**Read Codes**

This function retrieves and displays the DTCs from the vehicle's control system. The Read Codes screen varies by vehicle. For example, on some vehicles, freeze frame data can also be retrieved for viewing. An example of the Read Codes screen displays below:
1. Diagnostics Toolbar Buttons – see Table 4-1 Diagnostics Toolbar Buttons on page 19 for details.

2. Main Section
   - Code Column – displays the retrieved codes from the vehicle
   - Status Column – indicates the status of the retrieved codes
   - Description Column – detailed descriptions for the retrieved codes
   - Snowflake Icon – indicates freeze frame data is available for viewing. Tap the icon to display data screen.

3. Functional Button
   - Help – tap icon to view more DTC information
   - Freeze – tap to view the freeze frame data relating to the selected DTC
   - Search – tap to search for more information about the selected DTC on the Internet
   - Clear DTC – tap to erase the selected DTC
   - ESC – tap to exit the function

Erase Codes

After reading the retrieved codes from the vehicle and completing repairs, the user may erase the codes from the vehicle using this function. Before performing this function, make sure the vehicle’s ignition key is in the ON (RUN) position with the engine off.

- To erase codes
  1. Tap Erase Codes from the Function Menu.
2. A message displays warning user that code related data will be erased if user continues.
   a) Tap Yes to continue. A confirming screen displays when the operation is completed.
   b) Tap No to exit.
3. Tap ESC on the confirming screen to exit Erase Codes.
4. Re-scan to ensure codes have been erased if Erase Codes function has been selected.

Live Data

When this function is selected, the screen displays a list of system parameters in the selected module. The data available for any control module varies by vehicle. The parameters display in the order that they are transmitted by the ECM, so expect variation among vehicles.

Gesture scrolling provides quick viewing of the data list. The data list often populates more than screen so touch the screen and drag your finger up or down to reposition information. Screen below depicts a typical Live Data screen.

![Figure 4-6 Sample Live Data Screen](image)

1. **Diagnostics Toolbar Buttons** – the drop-down button at the top center of the screen displays the toolbar buttons. See *Table 4-1 Diagnostics Toolbar Buttons* on page 19 for detailed descriptions of the operations of each button.

2. **Main Section**
   * Name Column – this column displays the parameter names.
     a) Check Box – tap the check box at the left side of the parameter name to select an item. Tap the check box again to deselect.
     b) Drop-down Button – tap the drop-down button at the right side of the parameter name to open a submenu that provides optional modes of data display.
   * Value Column – displays the values of the parameter items.
   * Range Column – displays the minimum and the maximum limit values.
   * Unit Column – displays the unit for the parameter values.
     ➢ To change the Unit mode, tap the **Setting** button on the top toolbar and select the needed mode. See *Unit* on page 69.

3. **Display Mode**
There are four types of display modes available for data viewing, allowing the user to view various types of parameters in the most suitable way for better data check-ups.

Tap the drop-down button on the right side of the parameter name to open a submenu. There are 4 buttons to configure the data display mode, plus a Help button and an Information button on the right, active when additional information is available.

Each parameter displays the selected mode independently.

- **Analog Gauge Mode** – displays the parameters in the form of an analog meter graph
- **Text Mode** – the default mode that displays the parameters in texts and list format.

**NOTE**

Some parameters such as Switch status are often simple text such as ON, OFF, ACTIVE and ABORT can only be displayed in Text Mode. Other parameters such as Sensor Reading can be displayed as graphs and as text.

- **Waveform Graph Mode** – displays the parameters in waveform graphs. When this mode is selected, three control buttons will display to the right side of the parameter item, allowing the user to interact with the display.
  - Text Button – resumes Text Display Mode.
  - Scale Button – changes the scale values, which are displayed below the waveform graph. There are four scales available: x1, x2, x4 and x8.
  - Zoom-in Button – tap once to display the selected data graph in full screen.
- **Digital Gauge Mode** – displays the parameters in the form of a digital gauge graph.
- **Full Screen Display** – this option is only available in the waveform graph mode, and mostly used in Graph Merge status for data comparison. There are three control buttons available on the top right side of the screen under this mode.
  - Edit Button – tap to open an edit window. Waveform color and line thickness can be selected to customize graph.
  - Scale Button – tap to change the scale values, which are displayed below the waveform graph. There are four scales available: x1, x2, x4 and x8.
  - Zoom-out Button – tap to exit full screen display.

➢ **To edit the waveform color and line thickness in a data graph**

1. Select 1 to 3 parameter items to display in the Waveform Graph mode.
2. Tap the Zoom-in Button on the right to display the data graph in full screen.
3. Tap the Edit Button to display an edit window.
4. Select a parameter item on the left column.
5. Choose line color from the second column.
6. Choose line thickness from the right column.
7. Repeat steps 4-6 to edit the waveform for each parameter item.
8. Tap **Done** to save the setting and exit or tap Cancel to exit without saving.

4. Functional Buttons

The operations of all the available functional buttons on the Live Data screen are described below:

- **Back** – returns to the previous screen or exit the function.
- **Record** – starts recording the retrieved live data; the recorded data is stored as a video clip in the Data Manager application for future review. This function could be triggered automatically at preset threshold value or manually when reviewing, and the triggering mode and record duration can be configured in the Setting mode of Live Data.
- **Freeze** – displays the retrieved data in freeze mode.
  - Previous Frame – returns to the previous frame in the freeze data.
  - Next Frame – advances to the next frame in the freeze data.
- **Resume** – this button displays when the Record or Freeze function is selected. Tap this button to stop recording data, or to exit from freeze frame mode, and to resume in normal data display mode.
- **Flag** – this button displays when the Record function is applied. Tap this button to set flag points on data that users find meaningful. When replaying the video clip in Data Manager, the set flags can be annotated user notes.
- **Clear Data** – tap button to clear all previously retrieved parameter values at a cutting point whenever you choose.
- **To Top** – moves a selected data set to the top of the list.
- **Graph Merge** – tap button to merge selected data graphs (for Waveform Graph Mode only). This function is useful when comparing the parameters.

⚠️ NOTE

This mode supports Graph Merge for 2 to 3 parameters only, select no less than 2 or and no more than 3 items when merging graphs.

- To cancel Graph Merge mode, tap the drop-down button on the right side
of the parameter name, and select a data display mode.

.publisher: Show Selected/Show All – tap button to switch between the two options; one displays the selected parameter items, the other displays all the available items.

.publisher: Settings – tap button to open settings menu that allows user to set the trigger mode, recording duration, and various threshold values.

![Sample Setting Mode in Live Data]

There are four navigation buttons on top of the Setting mode menu.

a) Range – displays the configuration screen. Set the threshold values, an upper limit and a lower limit, for triggering the buzzer alarm. This function only applies to the Waveform Graph display mode.

b) MIN – tap button to display a virtual keyboard to enter the required lower limit value.

c) MAX – tap button to display a virtual keyboard to enter the required upper limit value.

.d) Buzzer Alarm – switches the alarm off and on. The alarm function makes a beep sound as a reminder when the data reaches the preset minimum or maximum point.

➢ To set threshold limits for the parameter values

1. Tap the Setting button at the bottom of the Live Data screen.

2. Tap the Range navigation button.

3. Select a parameter item on the left column or enter the item name in the Search bar.
4. Tap on the right side of the MIN button and enter the required minimum value.
5. Tap on the right side of the MAX button and enter the required maximum value.
6. Tap the ON/OFF button on the right side of the Buzzer Alarm button to turn it on or off.
7. Tap Done to save the setting and return to the Live Data screen; or tap Cancel to exit without saving.

If the threshold limits are successfully set, two horizontal lines now display on each of the data graphs (when Waveform Graph Mode is applied) to indicate the alarm point. The threshold lines are displayed in different colors from that of the waveforms to distinguish each from the other.

- **Record** – displays the configuration screen for Record Setting. Set the trigger type, duration and trigger point for the data recording function.

a) **Trigger Type** – sets the trigger mode for data recording, mainly of two kinds: Manual and Auto. There are four options available:
   1) Manual – manually start and stop data recording.
   2) DTC – auto triggers data recording when any DTC is detected.
   3) DTC Check Mode – auto triggers data recording when certain pre-selected DTC types are detected.
   4) Parameter – auto triggers data recording when any parameter value reaches the preset threshold.

b) **Duration** – sets the recording time (for Auto trigger mode only).

c) **Trigger Point** – set to save an amount of data prior to the DTC occurrence. (for Auto trigger mode only).

---

**To define settings for live data record**

1. Tap the Setting functional button at the bottom of the Live Data screen.
2. Tap the Record navigation button.
3. Tap the > button on the right of Trigger Type bar and select the required trigger mode.
4. Tap the > button on the right of Duration bar and select a length of time.
5. Tap the > button on the right of Trigger Point bar to save vehicle data prior to DLC being set. The amount of data saved prior to the DLC occurrence is relative to the total length of the data record.
6. Tap Done to save settings and return to the Live Data screen; or tap Cancel to cancel without saving and exit Setting.
- **Done** – confirms and saves settings, and returns to the Live Data screen.
- **Cancel** – cancels the setting operation, and returns to the Live Data screen.

**Active Test**

The Active Test function is used to access vehicle-specific subsystem and component tests. Available test varies by vehicle manufacturer, year, and model, and only the available tests display in the menu.

During an active test, the tablet will send a command to the ECU to activate the actuators. This test determines the integrity of the system or parts by reading the engine ECU data, or by monitoring the operation of the actuators, such as switching a solenoid, relay, or switch, between two operating states.

Selecting Active Test opens a menu of test options that varies by vehicle make and model. Selecting a menu option activates the test. Follow all screen instructions while performing tests. How and what information is presented on the screen varies according to the type of test being performed. Some toggle and variable control tests display Active Test Controls at the top of the screen with data stream information below, or vice versa.

![Sample Active Test Screen](image)

**Figure 4-8 Sample Active Test Screen**

The functional buttons at the lower right corner of the Active Test screen manipulate the test signals. The operational instructions display on the main
section of the test screen. Follow the on-screen instructions and make appropriate selections to complete the tests. Each time an operation is successfully executed, messages such as "Command Finished", "Activation Successful", or something similar display.

Tap the ESC button to exit the test when finished.

**Special Functions**

These functions perform various component adaptations, including calibration and re-configuration of certain components after making repairs or replacement.

The main section of the Adaptation Operation screen displays a list of operational and vehicle status information that mainly consists of four parts:

1. The first part in the top line shows the description of the operation being performed, and the execution status is displayed on the right, such as Completed, or Activated.
2. The second part shows the preconditions or requirements for executing the selected operation.
3. The third part displays the current conditions of the vehicle control module being learned for comparison to the preconditions suggested by the second part. If the current condition of the control module is out of the suggested limit value, the vehicle condition should be adjusted to meet the requirement.
4. The last part displays the instruction for the functional button at the lower right corner of the screen to manipulate the teach-in operations.

![Figure 4-9 Sample Adaptation Operation Screen](image)

Read the information carefully and check the vehicle condition accordingly, when you are sure that the vehicle is ready to perform the adaptation, simply follow the instruction provided to make appropriate selections. When the operation is done, an execution status message such as Completed, Finished or Successful, displays.

Tap the ESC button to exit the function.
ADAS

The intuitive ADAS calibration software with the new Pre-SCAN / Post-SCAN diagnostic report directly presents the existing errors or issues, diagnostic results and repair suggestions. The Pre- and Post-Scans are generated from the AutoScan feature that checks all modules in all systems for fault codes. The MaxiSys ADAS software enhances the AutoScan all module scan feature by displaying an ADAS icon next to the systems requiring calibration, ensuring that after repair these essential calibrations are performed.

✔️ NOTE
ADAS systems and calibration procedures vary by vehicle.

MaxiSys ADAS Calibration Function

*Lane Departure Warning (LDW)*

The Line Departure Warning system is a mechanism designed to warn the driver when the vehicle begins to move out of its lane on freeways and arterial roads. The system is designed to minimize accidents by addressing the main causes of collisions: driver error, distraction and drowsiness.

*Lane Keeping Assist (LKA)*

The Lane Keeping Assist system is a mechanism designed to actively control the vehicle steering when the vehicle begins to move out of its lane on freeways and arterial roads. The system is designed to minimize accidents by addressing the main causes of collisions: driver error, distraction and drowsiness.

Night Vision System (NVS)

The Night Vision System uses a thermographic camera to increase a driver's perception and seeing distance in darkness or poor weather beyond the reach of the vehicle's headlights.

*Adaptive Cruise Control (ACC)*

Adaptive Cruise Control is an optional cruise control system that automatically adjusts the vehicle speed to maintain a safe distance from vehicles ahead. Control is based on information from on-board sensors. With the MaxiSys ADAS, the ACC sensor can be easily calibrated.
Rear Collision Warning (RCW)

Rear Collision Warning system warns the driver of impending rear collision.

Around View Monitoring (AVM)

Around View Monitoring provides a virtual 360-degree view of the car from a bird's-eye view. It assists drivers when parking a vehicle or when the vehicle is exiting a parking space.

Blind Spot Detection (BSD)

Blind Spot Detection system monitors the side and rear of the vehicle and will alert the driver if it detects a vehicle in the blind spot.

Head-up Display (HUD)

Head-up Display is a transparent or miniature display of vehicle dashboard data presented in the driver's line of sight on the windshield, enabling the driver to keep focused on the road ahead.

MA600 ADAS Calibration Operation Example

Enter Diagnostics. Select the model automatically or manually and confirm the vehicle information. Select ADAS Calibrate.

Select ADAS system. Prior to the calibration of any ADAS, the user must select a reason for the calibration. Below, depicts a typical screen that displays prior to calibrating the front camera. Select the reason for the calibration and click OK.
Figure 4-10 *Front Camera Calibration*

The tablet displays all necessary calibrations tools needed.

![Calibration tools display](image1)

**Figure 4-11 Tablet Displays Required Calibration Tools**

Detailed calibration frame setup instructions are displayed. Tap the **Help** button to display screenshots and text detailing installation.

![Calibration frame setup instructions](image2)

**Figure 4-12 Calibration Frame Setup Instructions**

Once the required calibrations tools have been gathered, click "OK" to continue. Follow displayed instructions to perform the calibration.
Programming and Coding

Installing and updating the software of vehicle systems is becoming an essential repair and service procedure often needed to address vehicle operating issues including

- Drivability
- Fuel Efficiency
- Power Loss
- Fault Codes
- Durability of Mechanical Parts

The Programming and Coding function is used to re-flash the vehicle control modules and update it with the latest OEM software, as well as to reprogram adaptive data for certain components after making repairs or replacements.

NOTE
Programming can only be performed with the use of the MaxiFlash Elite that serves as a PassThru interface to establish communication with and transfer data to the vehicle's ECU.

Available programming or coding operations vary by vehicle, and only the available operations display on the menu.

There are two general types of programming operations:

A. Coding – also known as Teach-in Program, Component Adaptation or something similar, is used to reprogram adaptive data for vehicle control modules after repairs or replacements of vehicle parts.

B. Reprogramming Operations – Only select vehicles and vehicle modules can be programmed via the MaxiSYS tablet. For these select vehicles and modules, available software will be automatically downloaded on the tablet. Other programming operations can be performed with the MaxiFlash Elite J2534, a Windows computer and purchased OEM software.

NOTE
Ensure that the tablet is connected to the Internet before applying the ECU programming function, so that the tablet is able to access the manufacturer's server for update service.

Selecting the Programming or Coding function opens a menu of operation options that vary by make and model. Selecting a menu option either displays a programming interface or opens another menu of additional choices. Follow all screen instructions while performing the programming or coding operations.
How and what information is presented on the screen varies according to the type of operation being performed.

**Variant Coding**

![Sample Variant Coding Screen]

The main section of the Variant Coding screen displays a list of vehicle components and the coding information. This information consists mainly of three parts:

1. The top line on the list displays the instruction of how to use the functional button at the lower right corner of the screen to perform the coding operations.
2. The second part under the top line of the list displays all available systems for coding on the left side, and the coding data or value on the right side.
3. The bottom line of the main section displays the functional buttons to complete coding.

Check the vehicle condition and the coding information carefully and use the functional button to edit Codes for the corresponding components. Tap **Send** once coding is complete. A ""Completed,"" ""Finished,"" or ""Successful"" status message will display after coding has been performed.

Tap the **ESC** button to exit the function.

*This section is used for quick access to the ECU reprogramming operation. Typical reprogramming operations require the input and validation of the VIN prior to proceeding with this function. Tap the input box and enter the correct number, the programming interface then displays.*
Figure 4-14 Sample Reprogramming Operation Screen

The main section of the reprogramming interface displays current module hardware version, and installed software versions. The latest software version available to be programmed to the control units.

Throughout the programming procedure, a series of on-screen instructions will display.

Carefully read the on-screen information and follow the instruction to complete programming.

Re-flash Errors

**IMPORTANT**

When reprogramming, always make sure the vehicle battery is fully charged and in good working condition. During reprogramming, there is a risk of operation failure if voltage falls below the proper operation voltage. A battery maintainer should be used when programming.

Occasionally a flash update may not be successfully completed. Common causes of flash errors include poor cable connections between the tablet, VCI, and vehicle. Other causes of programming errors include prematurely turning off the vehicle before the flash procedure is completed or the vehicle's battery voltage is too low.

If the procedure crashes, recheck all the cable connections to assure good communications and reinitialize the flash procedure. The programming procedure will automatically repeat if the previous operation does not succeed.

Vehicle Diagnostic Report

The Vehicle Diagnostic Report contains vehicle information details and the results of pre- and post-scans. These reports document the operating status of all available modules including any ADAS module or system (denoted with an ADAS icon). The Pre-Scan report displays detected module faults prior to any repair, servicing and/or calibration. The Post-Scan report documents the correction of found faults and the successful calibration of any ADAS system.

Note: Only one Pre-scan Report can be generated per repair order. Post-scan reports can be repeatedly generated.
Vehicle Diagnostic Report

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make</td>
<td>Toyota</td>
</tr>
<tr>
<td>Model</td>
<td>Yaris</td>
</tr>
<tr>
<td>Engine</td>
<td>1.5L 1NZ-FE</td>
</tr>
<tr>
<td>VIN</td>
<td>JTEFE5230410</td>
</tr>
<tr>
<td>Mileage</td>
<td>34,567 mi</td>
</tr>
<tr>
<td>Date</td>
<td>03/21/2023</td>
</tr>
</tbody>
</table>

Enter the Repair Order Number to generate diagnostic (PreScan and Post Scan) reports.

**Generic OBD II Operations**

OBD II/EOBD vehicle diagnosis is available on the Vehicle Menu screen. This option presents a quick way to check for Data Trouble Codes (DTC), isolate the cause of an illuminated malfunction indicator light (MIL), check monitor status prior to emissions certification testing, verify repairs, and perform a number of other services that are emissions-related. The OBD direct access option is also used for testing OBD II/EOBD compliant vehicles that are not included in the Diagnostics database. Functions of the diagnostics toolbar buttons at the top of the screen are the same as those available for specific vehicle manufacturers.
vehicle diagnostics. See Table 4-1 Diagnostics Toolbar Buttons on page 19 for details.

General Procedure

- To access the OBD II/EOBD diagnostics functions
  1. Tap the Diagnostics application button from the MaxiSys Job Menu. The Vehicle Menu displays.
  2. Tap the EOBD button. There are two options to establish communication with the vehicle.
     - Auto Scan – select it to establish communication using each protocol in order to determine which one the vehicle is broadcasting on.
     - Protocol – select it to open a submenu of various protocols. A communication protocol is a standardized way of data communication between an ECM and a diagnostic tool. Global OBD may use several different communication protocols.
  3. Select a specific protocol if the Protocol option is selected. Wait for the OBD II Diagnostic Menu to display.

![Sample OBD II Diagnostic Menu](image)

**Figure 4-17 Sample OBD II Diagnostic Menu**

- **NOTE**
  Tap the button beside the protocol name to display additional protocol information.

  4. Select a function option to continue.
- DTC & FFD
- I/M Readiness
- Live Data
- O2 Sensor Monitor
- On-Board Monitor
- Component Test
- Vehicle Information
- Vehicle Status

NOTE
Supported functions may vary by vehicle.

Function Descriptions

This section describes the various functions of each diagnostic option:

DTC & FFD

When this function is selected, the screen displays a list of Stored Codes and Pending Codes. A snowflake icon will display to the right of the code if Freeze Frame data is available. Tap Clear DTC button on the bottom of the screen to erase selected code.

Figure 4-18 Sample DTC Screen

- Stored Codes
Stored Codes are the current emissions-related DTCs from the ECM of the vehicle. OBD II/EOBD Codes have a priority according to their emission severity, with higher priority codes overwriting lower priority codes. The priority of the code determines the illumination of the Malfunction Indicator light (MIL) and the codes erase procedure. Manufacturers rank codes differently, so expect to see differences among vehicles.

- **Pending Codes**

These are codes whose setting conditions were met during the last drive cycle but need to be met on two or more consecutive drive cycles before the DTC actually sets. The intended use of this service is to assist the service technician after a vehicle repair and after clearing diagnostic information, by reporting test results after a single driving cycle.

a) If a test failed during the driving cycle, the DTC associated with that test is reported. If the pending fault does not occur again within 40 to 80 warm-up cycles, the fault is automatically cleared from memory.

b) Test results reported by this service do not necessarily indicate a faulty component or system. If test results indicate another failure after additional driving, then a DTC is set to indicate a faulty component or system, and the MIL is illuminated.

- **Freeze Frame**

In most cases the stored frame is the last DTC that occurred. Certain DTCs, those that have a greater impact on vehicle emission, have a higher priority. In these cases, the highest priority DTC is the one for which the freeze frame records are retained. Freeze frame data includes a "snapshot" of critical parameter values at the time the DTC is set.

- **Erase Codes**

This option is used to clear all emission related diagnostic data such as, DTCs, freeze frame data and manufacturer specific enhanced data from the vehicle's ECM, and resets the I/M Readiness Monitor Status for all vehicle monitors to Not Ready or Not Complete status.

A confirmation screen displays when the clear codes option is selected to prevent accidental loss of data. Select Yes on the confirmation screen to continue, or No to exit.

*I/M Readiness*

This function is used to check the readiness of the monitoring system. It is an excellent function to use prior to having a vehicle inspected for compliance to
a state emissions program. Selecting I/M Readiness opens a submenu with two choices:

- Since DTCs Cleared – displays the status of monitors since the last time the DTCs are erased.
- This Driving Cycle – displays the status of monitors since the beginning of the current drive cycle.

**Live Data**

This function displays the real time PID data from ECU. Displayed data includes analog inputs and outputs, digital inputs and outputs, and system status information broadcast on the vehicle data stream.

Live data can be displayed in various modes, see *Live Data* on page 29 for detailed information.

**O2 Sensor Monitor**

This option allows retrieval and viewing of O2 sensor monitor test results for the most recently performed tests from the vehicle’s on-board computer.

The O2 Sensor Monitor test function is not supported by vehicles that communicate using a controller area network (CAN). For O2 Sensor Monitor tests results of CAN-equipped vehicles, refer to *On-Board Monitor* on page 46.

**On-Board Monitor**

This option allows viewing of On-Board Monitor test results. The tests are useful after servicing or after erasing a vehicle's control module memory.

**Component Test**

This service enables bi-directional control of the ECM so that the diagnostic tool is able to transmit control commands to operate the vehicle systems. This function is useful in determining how well the ECM responds to a command.

**Vehicle Information**

The option displays the vehicle identification number (VIN), the calibration identification, and the calibration verification number (CVN), and other information of the test vehicle.

**Vehicle Status**

This item is used to check the current condition of the vehicle, including communication protocols of OBD II modules, retrieved codes amount, status of the Malfunction Indicator Light (MIL), and other additional information may be displayed.
Exit Diagnostics

The Diagnostics application remains open as long as there is an active communication with the vehicle. You must exit the diagnostics operation interface to stop all communications with the vehicle before closing the Diagnostics application.

NOTE

Damage to the vehicle electronic control module (ECM) may occur if communication is disrupted. Make sure that all connections, such as data cable, USB cable, and wireless or wired network, are properly connected at all times during testing. Exit all tests before disconnecting the test cable or powering down the tool.

➢ To exit the Diagnostics application
1. From an active diagnostic screen, tap the Back or ESC functional button to exit a diagnostic session step-by-step; Or
2. Tap the Vehicle Swap button on the diagnostics toolbar to return to the Vehicle Menu screen.
3. From the vehicle menu screen, tap the Home button on the top toolbar; or tap the Back button on the navigation bar at the bottom of the screen. Or tap the Home button on the diagnostics toolbar to exit the application directly to the MaxiSys Job Menu.

Now, the Diagnostics application is no longer communicating with the vehicle and it is safe to open other MaxiSys applications or exit the MaxiSys Diagnostic System and return to the Android System's Home screen.

Diagnostics

The ADAS application provides calibration functions for vehicles equipped with Advanced Driver-Assistance Systems.

If the camera, radar or other ADAS component on a vehicle is not working properly, use this ADAS application to calibrate these components and correct their operating status.
Establish Vehicle Communication

The Diagnostics operations require connecting the MaxiSys ADAS tablet to the test vehicle through the MaxiFlash Elite using the main cable. To establish proper vehicle communication to the tablet, please perform the following steps:

1. Connect the MaxiFlash Elite to the vehicle's DLC for both communication and power source.
2. Connect the MaxiFlash Elite to the tablet via BT pairing, or USB connection.
3. When the above steps are completed, check the VCI navigation button on the toolbar on the bottom of the screen. A green check mark displays atop the VCI icon when connected.

Vehicle Connection

The method used to connect the MaxiFlash Elite to a vehicle's DLC depends on the vehicle's configuration as follows:

- A vehicle equipped with an On-board Diagnostics Two (OBD II) management system supplies both communication and 12-volt power through a standardized J-1962 DLC.

○ OBD II Vehicle Connection

➢ To connect to an OBD II vehicle
1. Connect the main cable to the Vehicle Data Connector on the MaxiFlash Elite and tighten the captive screws.
2. Connect the cable's 16-pin male adapter to the vehicle's Data Link Connector (DLC), which is generally located under the vehicle dashboard.

○ NOTE

The vehicle's DLC is not always located under the dashboard; refer to the user manual of the test vehicle for additional connection information.

○ Non-OBD II Vehicle Connection

➢ Please note: This refers to a limited number of vehicles that do not have the standard OBDII 16 pin connector.

This type of connection requires both the main cable and a required OBD I adapter for the specific vehicle being serviced.

There are three possible conditions for Non-OBD II vehicle connection:
• DLC connection supplies both communication and power.
• DLC connection supplies communication and power is to be supplied via the cigarette lighter connection.
• DLC connection supplies communication and power is to be supplied via connection to the vehicle battery.

➢ To connect to a Non-OBD II Vehicle
1. Connect the main cable's female adapter to the Vehicle Data Connector on the MaxiFlash Elite, and tighten the captive screws.
2. Locate the required OBD I adapter and connect its 16-pin jack to the main cable's male adapter.
3. Connect the attached OBD I adapter to the vehicle's DLC.

🔍 NOTE
Some adapters may have more than one adapter or may have test leads instead of an adapter. Whatever the case, make the proper connection to the vehicle's Data Link Connector (DLC) as required.

➢ To connect the cigarette lighter
1. Plug the DC power connector of the cigarette lighter into the DC power supply input port on the device.
2. Connect the male connector of the cigarette lighter into the vehicle's cigarette lighter receptacle.

➢ To connect the clipper cable
Connect the tubular plug of the clipper cable to the male connector of the cigarette lighter.

Figure 4-19 Connection between Cigarette Lighter and Clipper Cable
➢ Plug the DC power connector of the cigarette lighter into the DC power supply input port of the MaxiFlash Elite.
➢ Connect the clipper cable to the vehicle's battery.
MaxiFlash Elite Connection

After the MaxiFlash Elite is properly connected to the vehicle, the Power LED on the VCI device lights solid green, and is ready to establish communication with the tablet. MaxiFlash Elite supports two communication methods with the tablet: BT, and USB.

Pairing via BT

Bluetooth (BT) pairing is recommended as the first choice for the communication between the tablet and the MaxiFlash Elite. The working range for BT communication is about 210 feet (70 m); this means you can perform vehicle diagnosis freely around the workshop.

Using Bluetooth communications, especially in busy repair shops, improves diagnostics, servicing and calibrating efficiency by eliminating the cumbersome nature of traditional wired VCIs.

To pair the tablet with the MaxiFlash Elite via BT

1. If not already done, power on the tablet.
2. Select the **VCI Manager** application from the MaxiSys Job Menu.
3. When the **VCI Manager** application is opened, the device automatically scans for an available MaxiFlash Elite to pair. The found devices are listed in the Setting section on the right side of the screen.

NOTE

Failure to detect a MaxiFlash Elite may indicate a week signal strength. Move tablet closer to MaxiFlash Elite, and remove all possible objects that may cause signal interference and tap the **Scan** button at the top right corner to initiate search again.

4. Select MaxiFlash Elite for pairing.
5. When pairing is successful, the connection status displays to the right of the device name displays as Paired.
6. Wait for a few seconds, and the VCI button on the system Navigation bar at the bottom of the screen shall display a green check, indicating the tablet is connected to the MaxiFlash Elite, and is ready to work.

Refer to **BT Pairing** on page 77 for additional information.
USB Cable Connection

The USB cable connection is a simple and quick way to establish communication between the tablet and the MaxiFlash Elite. After properly connecting the USB cable from the tablet to the MaxiFlash Elite, the VCI navigation button at the bottom bar of the screen shows a green check in a few seconds, and the USB LED on the MaxiFlash Elite lights solid green, indicating the connection between the devices is successful.

The MaxiSys ADAS diagnostic platform is now ready to work.

NOTE

Since the USB connection provides the most stable and fastest communication, it is highly recommended to apply this communication method when operating ECU programming or coding. When the two communication methods are applied at the same time, the MaxiSys ADAS system will use the USB communication as the default priority.

No Communication Message

A. If the tablet is not connected to the MaxiFlash Elite, an """"Error"""" message displays. An """"Error"""" message indicates the tablet is not communicating with the MaxiFlash Elite, and so cannot access the vehicle control module. In this case, please do the following:
   - Ensure the MaxiFlash Elite is powered on.
   - If using a wireless connection, check if the network is configured correctly, or if the correct device has been paired.
   - If during the diagnosis process, communication is suddenly interrupted due to the loss of signal, check if there are any objects causing signal interruption.
   - Check that the MaxiFlash Elite is properly positioned with labelled side facing up.
   - Signal stability and strength can be improved by moving the tablet closer to the MaxiFlash Elite. When using the wired connection, check the cable connection between the tablet and the MaxiFlash Elite.
   - Depending on configuration, ensure either the BT LED or the USB LED is lit green.
   - If the MaxiFlash Elite error light is on there may be a communication error between the devices. Try re-establishing the connection again; if this does not work, there may be a hardware problem with the device. In this case please contact Autel technical support.

B. If the MaxiFlash Elite is unable to establish a communication link, a
message will display with possible causes:

- The MaxiFlash Elite is unable to establish a communication link with the vehicle.
- The selected testing system is not supported by the test vehicle.
- There is a loose connection.
- There is a blown vehicle fuse.
- There is a wiring fault on the vehicle, or the data cable or adapter.
- There is a circuit fault in the data cable or adapter.
- Incorrect vehicle identification was entered.

**Getting Started**

Prior to the first use of the ADAS application, the MaxiFlash Elite must be synchronized with the tablet to establish a communication link. See *MaxiFlash Elite Connection* on page 50.

**Vehicle Menu Layout**

When the MaxiFlash Elite is properly connected to the vehicle, and paired to the tablet, the platform is ready to work. Tap the ADAS application button on the MaxiSys Job Menu, the screen then displays the Vehicle Menu.

![Vehicle Menu Layout](image)

**Figure 4-20 Sample ADAS Vehicle Selection**

1. Top Toolbar Buttons
2. Manufacturer Buttons
Top toolbar Buttons

The operations of the Toolbar buttons at the top of the screen are listed and described in the table below:

<table>
<thead>
<tr>
<th>Name</th>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home</td>
<td><img src="image" alt="Home" /></td>
<td>Returns to the MaxiSys Job Menu.</td>
</tr>
<tr>
<td>VIN Scan</td>
<td><img src="image" alt="VIN Scan" /></td>
<td>Tap this button to display dropdown menu; tap <strong>Auto Detect</strong> for auto VIN detection; tap <strong>Manual Input</strong> to enter VIN manually.</td>
</tr>
<tr>
<td>All</td>
<td><img src="image" alt="All" /></td>
<td>Displays all the vehicle makes in the vehicle menu.</td>
</tr>
<tr>
<td>History</td>
<td><img src="image" alt="History" /></td>
<td>Displays the stored test vehicle history records. This option provides you direct access to the previously tested vehicle recorded during previous test sessions. See <strong>Vehicle History</strong> on page 91 Vehicle History.</td>
</tr>
<tr>
<td>USA</td>
<td><img src="image" alt="USA" /></td>
<td>Displays the USA vehicle menu.</td>
</tr>
<tr>
<td>Europe</td>
<td><img src="image" alt="Europe" /></td>
<td>Displays the European vehicle menu.</td>
</tr>
<tr>
<td>Asia</td>
<td><img src="image" alt="Asia" /></td>
<td>Displays the Asian vehicle menu.</td>
</tr>
<tr>
<td>Search</td>
<td><img src="image" alt="Search" /></td>
<td>Tap inside Search field to display the virtual keyboard and manually enter the vehicle make.</td>
</tr>
<tr>
<td>Cancel</td>
<td><img src="image" alt="Cancel" /></td>
<td>Tap this button to exit the search screen, or cancel the operation.</td>
</tr>
</tbody>
</table>
© Manufacturer Buttons

The Manufacturer buttons display the vehicle brand names. After the MaxiFlash Elite is successfully connected to the vehicle, select the vehicle brand name icon to start a diagnostic session.

Vehicle Identification

The MaxiSys diagnostic system supports four methods of Vehicle Identification.

1. Auto VIN Scan
2. Manual VIN Input
4. OBDII Direct Entry

Auto VIN Scan

The MaxiSys diagnostic system features the latest VIN-based Auto VIN Scan function to identify CAN vehicles in just one touch. AutoVIN allows the technician to quickly detect vehicles, scan all the diagnosable modules on every vehicle and run diagnostics on the selected systems.

To perform Auto VIN Scan

1. Tap the Diagnostics application button from the MaxiSys Job Menu. The Vehicle Menu displays.
2. Tap the VIN Scan button on the top toolbar.
3. Select Auto Detect. The tablet initiates a VIN scan on the vehicle's ECU. Once the test vehicle is successfully identified, the system will guide you to the ADAS Function screen directly.
In some cases even when users have selected the vehicle brand instead of Auto VIN Scan, the system will still allow AutoVIN to be used.

Select **Automatic Selection** and the system will proceed to acquire VIN automatically or the user may choose to enter the VIN manually.

**Manual VIN Input**

For vehicles that do not support the AutoVIN Scan, enter the vehicle VIN manually, or simply take a photo of the VIN sticker for quick vehicle identification.
To perform Manual VIN Input

1. Tap the ADAS application button from the MaxiSys Job Menu. The Vehicle Menu displays.
2. Tap the VIN Scan button on the top toolbar.
4. Tap the input box and enter the correct VIN.

5. Tap Done. Once the VIN is successfully matched, the system will display the ADAS Function screen directly.

Manual Vehicle Selection

When the vehicle’s VIN is not automatically retrievable through the vehicle’s ECU, or the specific VIN is unknown, select the vehicle manually.

◎ Step-by-step Vehicle Selection

This mode of vehicle selection is menu driven; follow the screen prompts and make a series of choices. Each selection advances the user through vehicle option screens, so the correct vehicle is identified. Tap Back button at the lower right corner of the screen to return to previous screen. Procedures may vary by vehicles.

Alternative Vehicle Identification

Occasionally, a vehicle cannot be identified, or the vehicle is not supported, or the vehicle maintains unique characteristics that prevent it from communicating to the tablet through normal procedures. In these instances, access the vehicle through generic OBD II or EOBD tests. See Generic OBD II Operations on page 42 for additional information.
5 Service

The Service section is specially designed to provide quick access to the vehicle systems for various scheduled service and maintenance tasks. The typical service operation screen is a series of menu driven commands. Follow on-screen instructions to select appropriate service function, enter correct values or data, and perform necessary actions. The application will display detailed instructions to complete selected service operations.

After entering each special function, the screen will display two application choices: Diagnosis and Hot Functions. Select Diagnosis to the read and clear codes, which sometimes needed after the completion of certain functions. Select Hot Functions to access sub function menu.

Several of the most commonly used services are described in this chapter.

Oil Reset Service

Perform reset for the Engine Oil Life system, which calculates an optimal oil life change interval depending on the vehicle driving conditions and climate. The Oil Life Reminder must be reset each time the oil is changed, so the system can calculate when the next oil change is required.
Always reset the engine oil life to 100% after every oil change. All required work must be carried out before the service indicators are reset. Failure to do so may result in incorrect service values and cause DTCs to be stored by the relevant control module. For some vehicles, the scan tool can reset additional service lights such as maintenance cycle and service interval. On BMW vehicles, for example, service resets include engine oil, spark plugs, front/rear brakes, coolant, particle filter, brake fluid, micro filter, vehicle inspection, exhaust emission inspection and vehicle checks.

Electrical Parking Brake (EPB) Service

This function has a multitude of usages to maintain the electronic braking system safely and effectively. These applications include deactivating and activating the brake control system, assisting with brake fluid control, opening and closing calipers, and setting brakes after disc or pad replacement.

EPB Safety

It can be dangerous to perform Electric Parking Brake (EPB) system maintenance, so before beginning the service work, please keep these rules in mind.

- Ensure that you are fully familiar with the braking system and its operation before commencing any work.
- The EPB control system may be required to be deactivated before carrying out any maintenance/diagnostic work on the brake system. This can be done from the tool menu.
- Only perform maintenance work when the vehicle is stationary and on level ground.
- Ensure that the EPB control system is reactivated after the maintenance work has been completed.

NOTE

Autel accepts no responsibility for any accident or injury arising from the maintenance of the Electric Parking Brake system.
Tire Pressure Monitoring System (TPMS) Service

This function allows the quick retrieval of the tire sensor IDs from the vehicle's ECU. Also, when used with a sensor activation tool, can "relearn" new sensor IDs.

Battery Management System (BMS) Service

The Battery Management System (BMS) allows the tool to evaluate the battery charge state, monitor the close-circuit current, register the battery replacement, activate the rest state of the vehicle and charge the battery via the diagnostic socket.

NOTE
This function is not supported by all vehicles.
The sub functions and actual test screens of the BMS may vary by vehicle, please follow the on-screen instructions to make correct option selection.

The vehicle may use either a sealed lead-acid battery or an AGM (Absorbed Glass Mat) battery. Lead acid battery contains liquid Sulphur acid and can spill when overturned. AGM battery (known as VRLA battery, valve regulated lead acid) also contains Sulphur acid, but the acid is contained in glass mats between terminal plates.

The replacement aftermarket battery should have the same specifications, such as capacity and type, as the exiting battery. If the original battery is replaced with a different type of battery (e.g. a lead-acid battery is replaced with an AGM battery) or a battery with a different capacity (mAh), the vehicle may require reprogramming of the new battery type, in addition to, performing the battery reset. Consult the vehicle manual for additional vehicle-specific information.

Steering Angle Sensor (SAS) Service

Steering Angle Sensor Calibration permanently stores the current steering wheel position as the straight-ahead position in the steering angle sensor EEPROM. Therefore, the front wheels and the steering wheel must be set exactly to the straight-ahead position before calibration. In addition, the vehicle identification number (VIN) is also read from the instrument cluster and stored permanently in the steering angle sensor EEPROM. On successful completion of calibration, the steering angle sensor fault memory is automatically cleared.

Calibration must always be carried out after the following operations:
- Steering wheel replacement
- Steering angle sensor replacement
- Any maintenance that involves opening the connector hub from the steering angle sensor to the column
- Any maintenance or repair work on the steering linkage, steering gear or other related mechanism
- Wheel alignment or wheel track adjustment
- Accident repairs where damage to the steering angle sensor or assembly, or any part of the steering system may have occurred

**NOTE**

1. Autel accepts no responsibility for any accident or injury arising from servicing the SAS system. When interpreting DTCs retrieved from the vehicle, always follow the manufacturer's recommendation for repair.
2. All software screens shown in this manual are examples, actual test screens may vary by test vehicle. Pay attention to the menu titles and on-screen instructions to make correct option selections.
3. Before starting procedure, make sure vehicle has an ESC button. Look for button on dashboard.

**Diesel Particle Filter (DPF) Service**

The Diesel Particle Filter (DPF) function manages DPF regeneration, DPF component replacement teach-in and DPF teach-in after replacing the engine control unit.

The ECM monitors driving style and selects a suitable time to employ regeneration. Cars driven a lot at idling speed and low load will attempt to regenerate earlier than cars driven more with higher load and speed. In order for regeneration to take place, a prolonged high exhaust temperature must be obtained.

In the event of the car being driven in such a way that regeneration is not possible, i.e., frequent short journeys, a diagnostic trouble code will eventually be registered in addition to the DPF light and "Check Engine" indicators.
Before performing a forced DPF regeneration using the tool, check the following items:

- The fuel light is not on
- No DPF-relevant faults are stored in system
- The vehicle has the specified engine oil
- The oil for diesel is not contaminated

⚠️ IMPORTANT
Before diagnosing a problem, vehicle and attempting to perform an emergency regeneration, it is important to obtain a full diagnostic log and read out relevant measured value blocks.

✅ NOTE
1. The DPF will not regenerate if the engine management light is on, or there is a faulty EGR valve
2. The ECU must be re-adapted when replacing the DPF and when topping up the fuel additive Eolys.
3. If the vehicle needs to be driven in order to perform a DPF service, a second person is needed for the function. One person should drive the vehicle while the other person observes the screen on the tool. Do not attempt to drive and observe the scan tool at the same time. This is dangerous and puts your life and the lives of other motorists and pedestrians at risk.

**Immobilizer (IMMO) Service**

An immobilizer is an anti-theft mechanism that prevents an automobile's engine from starting unless the correct ignition key or other device is present. This device prevents thieves from starting the car by a method known as hot wiring. Most new vehicles have an immobilizer as standard equipment. An important advantage of this system is that it doesn't require the car owner to activate it; it operates automatically.
As an anti-theft device, an immobilizer disables one of the systems needed to start a car's engine, usually the fuel supply or the ignition. This is accomplished by radio frequency identification between a transponder in the ignition key and a device called a radio frequency reader in the steering column. When the key is placed in the ignition, the transponder sends a signal with a unique identification code to the reader, which relays it to a receiver in the vehicle's computer control module. If the code is correct, the computer allows the fuel supply and ignition systems to operate and start the car. If the code is incorrect or absent, the computer disables the system, and the car will be unable to start until the correct key is placed in the ignition.

The IMMO service can disable a lost vehicle key and program the replacement key fob. One or more replacement key fobs can be programmed.

**ABS brake exhaust**

Evacuate the air contained in the brake system with the ABS exhaust function to achieve the normal braking performance of the ABS system.

**Fuel injector coding**

In order to achieve an effective fuel injection start point and precise fuel injection quantity, it is necessary to write the fuel injector code or rewrite the original code in the ECU into the code of the corresponding fuel injector of each cylinder.

**Suspension system**

The horizontal adjustment is performed by adjusting the body height sensor to eliminate the faults caused by the replacement of the suspension system components (body height sensor, control module).

**Throttle learning**

Initialize the actuator of the vehicle throttle to make the ECU learned value return to the initial status so as to control the intake air volume more accurately.

**Door and window learning**

It is necessary to initialize the vehicle window, and learn each of the limit positions after the controller, the electronic window lift or the window is replaced (or after the battery is disconnected or the main power fuse is replaced during the repair for some model series).
Seat learning

Driver seat position memory function and key learning: After the vehicle stops, the power seat returns to the rearmost end. The driver unlocks the vehicle with the key or the Passive Entry Passive Start (PEPS) system. When the driver door is open, the driver seat and the exterior rearview mirror move to the set position automatically. After the seat module is replaced, learn each of the limit positions (front, rear, top and bottom).

Language change

The language displayed on the LCD screen of the vehicle central console can be changed according to the user demand.

Headlamp learning

After the headlamp module is replaced, learn each of the limit positions (top, bottom, left and right). Detect the ambient light and decide whether to open the headlamp automatically; monitor the driving speed of the vehicle, the vehicle attitude to timely adjust the lighting angle of the headlamp.

Tire retrofitting/Placard Value Reset

After the tire is replaced, input the data of the new tire size into the ECU.

TEC learning

Perform the adaptation learning of the Crankshaft Position (CKP) sensor. The CKP sensor learns the processing tolerance of the crankshaft teeth and save it to the ECU, to diagnose the engine misfire more accurately.

Transmission learning

The disassembly or repair of the transmission (or the battery disconnection for some model series) can lead to gear shift delay or impact issue. At this time, it is necessary to learn the transmission to make it automatically perform the compensation according to the driving conditions, and reach a more comfortable, ideal quality of gear shift.
**Mileage**

After the Instrument Panel Cluster (IPC) is replaced, write the original total mileage into the new ECU.

**Cylinder**

With the operations on each of the cylinders, check for the cylinder leakage in the engine, check the fuel supply of the cylinders and check if cylinders deviates from others, to eliminate the cylinder-related faults.

**Airbag reset**

After the airbag-related components are replaced, it is necessary to perform this operation to clear the fault entries in the ECU and eliminate the related faults.
6 Data Manager

The Data Manager application is used to store, print, and review the saved files. Most operations are controlled through the toolbar.

Selecting the Data Manager application opens the file system menu. Different file types are sorted separately under different options.

![Sample Data Manager Main Screen](image)

Figure 6-1 Sample Data Manager Main Screen

Operations

Data Manager Operations are based on toolbar controls, details are explained in the following sections.

Image Files

The Image section is an image (JPG/JPEG) database containing all captured screenshot images.

![Sample Image Database Screen](image)

Figure 6-2 Sample Image Database Screen

1. Toolbar Buttons – used to edit, print and delete the image files. See Table 6-1 Toolbar Buttons in JPG Database on page 65 for detailed information.

2. Main Section – displays the stored images.

Table 6-1 Toolbar Buttons in JPG Database

<table>
<thead>
<tr>
<th>Name</th>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back</td>
<td><img src="image" alt="Back Button" /></td>
<td>Returns to the previous screen.</td>
</tr>
<tr>
<td>Enter Edit</td>
<td><img src="image" alt="Edit Button" /></td>
<td>Tap to display the editing toolbar to print, delete or view image information.</td>
</tr>
<tr>
<td>Cancel</td>
<td><img src="image" alt="Cancel Button" /></td>
<td>Tap to close the editing toolbar or cancel file search.</td>
</tr>
<tr>
<td>Search</td>
<td>Quickly locates the image file by entering the vehicle name, test path, file name or file information.</td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Info</td>
<td>Tap to open a window displaying and editing the detail information of the image.</td>
<td></td>
</tr>
<tr>
<td>Print</td>
<td>Tap to print the selected image.</td>
<td></td>
</tr>
<tr>
<td>Delete</td>
<td>Tap to delete the selected image.</td>
<td></td>
</tr>
</tbody>
</table>

- **To edit image information**
  1. Select **Data Manager** from the MaxiSys Job Menu.
  2. Select **Image** to access the JPG database.
  3. Select an image to display it in full screen.
  4. Tap the screen once to display the editing toolbar.
  5. Tap **Info** to open a window displaying the image information.
  6. Tap **Edit** on the top right corner of the window. The editing screen displays.
  7. Edit the image information by entering the new file name, and file information.
  8. Tap **Done** to save the information and exit or tap **Cancel** to exit without saving.

- **To delete selected images**
  1. Select **Data Manager** from the MaxiSys Job Menu.
  2. Select **Image** to access the JPG database.
  3. Tap the **Enter Edit** button ( 않을 수 없음 ) to display the editing toolbar.
  4. Select the images that need to be deleted by tapping the thumbnail images, the selected thumbnail displays a check mark at the bottom right corner.
  5. Tap the **Delete** button, and then **Delete Selected**. The selected images are deleted.

**PDF Files**

The PDF section stores and displays all PDF files of saved data. After entering the PDF database, select a PDF file to view the stored information.

This section uses the standard Adobe Reader application for file viewing and editing. Please refer to the associated Adobe Reader manual for more detailed instructions.
**Review Data**

The Review Data section allows you to playback the recorded data frames of live data streams. On the Review Data main screen, select a record file to playback.

![Sample Data Playback Screen](image)

**Figure 6-3 Sample Data Playback Screen**

1. Dropdown Toolbar – tap the button at the top center of the screen to open the Drop-down Toolbar.
2. Main Section – displays the recorded data frames.
4. Use the Navigation Toolbar buttons to playback the record data from frame to frame.
5. Tap **Back** to exit data playback.

**Apps Uninstall**

Manage the firmware applications installed on the MaxiSys Diagnostics System. Select to open the management screen, to view all available vehicle diagnostic applications.

Select the vehicle firmware you wish to delete by tapping on the vehicle brand icon. The selected item will display a blue check mark at the upper right corner. Tap the **Delete** button on the top bar to delete the firmware from the system database.
Data Logging

The Data Logging section allows you to launch Support platform directly to view all records of sent or unsent (saved) data loggings on the diagnostic system. For more details, please refer to Data Logging on page 83.
7 Settings

Selecting Settings application opens a setup interface. Adjust default setting and view information about the MaxiSys system. There are nine options available for the MaxiSys system settings:

- Unit
- Language
- Printing Setting
- Wired Network
- Notification Center
- Multitask
- Auto Update
- System Settings
- About

Operations

This section describes the operation procedures for the settings.

Unit

This option allows you to adjust the measurement unit for the diagnostic system.

➢ To adjust the unit setting

1. Tap the Settings application on the MaxiSys Job Menu.
2. Tap the Unit option on the left column.
3. Select the required measurement unit, Metric or English. A check mark will display to the right of the selected unit.
4. Tap the Home button on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.
Language

This option allows you to adjust the display language for the MaxiSys system.

➢ To adjust the language setting

1. Tap the **Settings** application on the MaxiSys Job Menu.
2. Tap the **Language** option on the left column.
3. Select a language. A check mark will display to the right of the selected language.
4. Tap the **Home** button on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

Print

*Printing Setting*

Print data or images from the tablet to a network printer via PC network or Wi-Fi.

➢ To setup the printer connection

1. Tap Settings on the MaxiSys Job Menu.
2. Tap Printing Setting on the left column.
3. Tap the Print via Network item to activate the printing function, which enables the device to send files to the printer through a Windows- or Macintosh-based computer via Wi-Fi or Ethernet connection.
4. Tap Home on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

*Printing Operations*

➢ To install the MaxiSys Printer driver program

1. Download Maxi PC Suite from www.autel.com > Supports & Updates > Firmware & Downloads > Update Client, and install to a Windows- or Macintosh-based computer. Use care to select the correct download for your computer.
2. Double click on **Setup.exe** item.
3. Select the installation language and the wizard will load.
4. Follow the instructions on the screen and click **Next** to continue.
5. Click **Install** and the printer driver program will be installed onto the computer.
6. Click **Finish** to complete the installation.

**NOTE**
The MaxiSys Printer runs automatically after the installation.

This section describes how to print from the MaxiSys tablet to a networked printer via a computer:

- **To print through a computer**
  1. Make sure the tablet is connected to the computer network, either via Wi-Fi or LAN, before printing.
  2. Run the **MaxiSys Printer** program on the computer.
  3. Click **Test Print** to make sure the printer is working successfully.
  4. Tap the **Print** button on the toolbar of the tablet. A test document will be sent to the computer.

  - Ensure the **Auto Print** option in the MaxiSys Printer application is selected, the MaxiSys Printer will print the received document automatically.
  - If the **Auto Print** option is not selected, click **Open PDF File** button to view all the temporary files. Select the file(s) to print and click **Print**.

**NOTE**
Make sure the computer installed with the Printing Services program is connected to a printer.

**Scan Report**

When the scan report is opened, tap the "pre-post test" icon. At this time, when the vehicle is selected in the diagnostic application, the "Select Test Type" frame will display.

![Figure 7-1 Sample Scan report Screen](image)

![Figure 7-2 Sample Select Test Type Screen](image)

**Wired Network**

This option is available when a network cable is connected to the tablet via a USB converter. Under this setting, enable or disable the wired network connectivity and configure Ethernet connection.
To operate Ethernet configuration

1. Tap Settings on the MaxiSys Job Menu.
2. Tap Wired Network on the left column.
3. Tap ON/OFF to enable the Wired Network connection. If the connectivity is enabled the button displays blue, or if disabled the button displays gray.
4. Tap the > button to the right of the Ethernet Configuration option, a setup window will display.
5. Select a connection type:
   - DHCP – obtains the LAN IP address automatically.
   - Static IP – allows manual input of IP address.
   If Static IP is selected, enter the IP values manually.

**NOTE**
Please contact network administrator, if unsure of the specific IP address. Tap Save to save the Ethernet configuration setting; or tap Cancel to exit without saving.
Tap the Home button on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

Notification Center

The Notification Center function configures the MaxiSys tablet to receive regular online messages from the server for system update notifications or other service information via the Internet. It is highly recommended to keep this function on all the time, so you won't miss out any new update for MaxiSys or events from Autel. Internet access is required for receiving online messages.

To enable the Notification Center function

1. Tap Settings on the MaxiSys Job Menu.
2. Tap Notification Center on the left column.
3. Tap ON/OFF to enable or disable the Notifications function. If the function is enabled the button displays blue, or if notification is disabled the button displays gray.
4. Tap Home on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

When the Notification Center function is turned on, and new messages are received by the MaxiSys device, a notification message displays on the MaxiSys Job Menu. Press on the message bar and drag it down to display a list of received messages. Slide the list up or down to view additional messages if present.
Tap a specific message to launch the corresponding application. For example, if you tap on an Update notification message, the Update application will be launched.

**Multitask**

The Multitask feature option allows you to turn the Multitask function on or off. The Multitask feature, when activated, enables the user to navigate more freely among different applications in the MaxiSys system. Tap the Multitask button, the Multi Task menu displays all active applications.

- **To enable the Multitask function**
  1. Tap **Settings** on the MaxiSys Job Menu.
  2. Tap **Multitask** on the left column.
  3. Tap **ON/OFF** to enable or disable the Multitask function. If the function is enabled the button displays blue, or if disabled the button displays gray.
  4. Tap **Home** on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

**Auto Update**

This option allows the user to set a specific time for updating software automatically. There are three update options: Android OS Update, MaxiSys Update and Vehicle Update.

Tap **ON/OFF** to enable Auto Update. If Auto Update is enabled, the button displays blue; If Auto Update is disabled, the button displays gray. Then set the time of the day for updating. If a specific time is set, the selected software will be automatically updated at this specific time.

**System Settings**

This option provides direct access to the Android background system setting menu. Adjust system settings for the Android system platform, regarding wireless and network settings, various device settings such as sound and display, as well as system security settings. Basic Android system information is displayed here. Refer to Android documentation for additional information.

**About**

The About option provides information of the MaxiSys diagnostic device including the product name, version, hardware, and serial number.

- **To check the MaxiSys product information in About**
1. Tap the **Settings** application on the MaxiSys Job Menu.
2. Tap the **About** option on the left column. The product information screen displays on the right.
3. Tap the **Home** button on the top left corner to return to the MaxiSys Job Menu, or select another setting option for the system setup, after viewing.
The software of the MaxiSys Diagnostic System, known as the firmware, can be updated using the Update application. Firmware updates increase the MaxiSys applications' capabilities, typically by adding new tests, new vehicle coverage, or enhanced applications to the database.

When connected to the Internet, the MaxiSYS tablet will automatically search for available updates for all of its system software components. Any updates available can be downloaded and installed on the device. This section describes installing an update to the MaxiSys Diagnostic System firmware. A notification message displays if an update is available when the Notifications function is enabled in the Settings application (See Notification Center on page 72.)

**Figure 8-1 Sample Update Screen**

1. Navigation and Controls
   - Home Button – returns to the MaxiSys Job Menu.
   - Update All – available updates for all tablet systems.
   - ADAS – available updates for ADAS function.
   - Diagnose – available updates for Diagnostic function.
   - Search Bar – enables user to quickly locate desired update by imputing application type or vehicle brand name.

2. Status Bar
   - Left Side – displays the MaxiSys device model information and serial number.
   - Right Side – displays an update progress bar indicating the completion status.

3. Main Section
   - Left Column – displays vehicle icons and update firmware version information.
   - Middle Column – displays a brief introduction about the new changes to the firmware operation or capabilities. Tap button to display an information screen to view details. Tap outside information screen to close the window.
- Right Column – the button displays differently depending on the operation status of each firmware item.
  a) Tap **Update** to update the selected item.
  b) Tap **Pause** to suspend the updating procedure.
  c) Tap **Continue** to continue updating the suspended update.

➢ **To update the firmware**

1. Power on the tablet and ensure that it is connected to a power source and has a steady Internet connection.
2. Tap the **Update** application button from the MaxiSys Job Menu; or tap the update notification message when received. The Update application screen displays.
3. Check all available updates:
   - If you decide to update all the items, tap the **Update All** button.
   - If you only want to update some individual items, tap the **Update** button on the right column of the specific item.
4. Tap the **Pause** button to suspend the updating process. Tap **Continue** to resume the update and the process will continue from the pause point.
5. When the updating process is completed, the firmware will be installed automatically. The new version will replace the order version.
9 VCI Manager

This application pairs the tablet with the VCI device, MaxiFlash Elite, and to check the communication status.

![Sample VCI Manager Screen](image)

**Figure 9-1 Sample VCI Manager Screen**

1. **Connection Mode** – there are two connection modes available for selection. The connection state is displayed alongside.
   - BT Pairing – when paired to a wireless device, the connection state displays as Paired; otherwise it displays as Unpaired.
   - Update (for VCI software only) – updates VCI software via Internet through the MaxiSys tablet networking using USB connection.
     - Select a connection mode to manage and set up connection.

2. **Settings** – this section allows you to manage wireless pairing or set up network connection.
   - BT Setting – searches and displays the type and part serial number for all of the devices available for pairing. Tap a required device to start pairing. The BT status icon displayed to the left of the device name indicates the received signal strength.
   - Ethernet Setting – Configure Internet settings for device.

**BT Pairing**

To pair the tablet with the VCI, connect the VCI to the vehicle or to another available power source. Make sure the tablet has a charged battery or is connected to an AC/DC power supply.

- **To pair the VCI device with the tablet**
  1. Power on the tablet.
  2. Connect the 26-pin end of the data cable to the MaxiFlash Elite"s vehicle data connector.
  3. Connect the 16-pin end of the data cable to the vehicle data link connector (DLC).
  4. Tap **VCI Manager** on the MaxiSys Job Menu of the tablet.
  5. Select **BT**, short for Bluetooth, from the connection mode list.
6. Tap **Scan** at the top right corner. Now the device starts searching for available pairing units.

7. The device name will display as Maxi suffixed with a serial number. Select the required device for pairing.

8. When pairing is successful, the connection status displayed to the right of the device name is shown as Paired.

9. A green check mark with display atop the VCI icon on the bottom of the tablet screen once the tablet and the VCI are connected.

10. Tap the paired device listing again to unpair it.

11. Tap **Back** on the top left to return to the MaxiSys Job Menu.

---

**NOTE**

A VCI device can be paired to only one tablet at a time, and once paired, the device will not be discoverable for any other unit.

Before updating the VCI software, please make sure the tablet network connection is stable.

- **To update the VCI device software**

  1. Power on the tablet.
  2. Connect the VCI device to the tablet via USB.
  3. Tap **VCI Manager** on the MaxiSys Job Menu of the tablet.
  4. Select **Update** from the connection mode list.
  5. The current version and the latest version of the VCI software will be displayed after a few seconds, click **Update Now** to update the VCI software if available.
This application launches the Support platform that synchronizes Autel"s online support with the MaxiSys display tablet. In order to synchronize the device to your online account, you need to register it. The Support application is connected to Autel"s service channel and online communities that provide the most efficient problem resolutions, allowing you to submit complaints or send help requests and obtain direct service and support.

**Product Registration**

To access the Support platform and obtain update and other services from Autel, you are required to register the MaxiSys Diagnostic Device the first time you use it.

- **To register the diagnostic device**
  2. If you have an Autel account, Sign in with account ID and password.
  3. If you are a new member to Autel, click on the Create Autel ID button on the left side to create an ID.
  4. Enter the required information in the input fields and click Get Verification Code button to get the verification code for email validation.
  5. The online system will automatically send a verification code to the registered email address. Input the code in the Verification field and fill in the other input fields, read through Autel"s Terms and Conditions and click on Agree, and then click Create Autel ID at the bottom. A product registration screen will display.
  6. The device's serial number and password is located in the About section of the Settings application on the tablet.
  7. Select the product model, enter the product serial number and password on the Product Registration screen, and click Submit to complete registration.

**Support Screen Layout**

The Support application interface is navigated by 4 simple buttons on the top navigation bar, operation of each is described below in turn from left to right:

- Home Button – returns to the MaxiSys Job Menu.
• Back – returns to the previous screen, each press takes you one step backwards.
• Forward – each press moves forward one screen until you’ve reached the last screen visited.
• Refresh – reloads and updates the screen.

![Sample Support Application Screen](image)

The main section of the Support screen is divided into two sections. The narrow column on the left is the main menu; selecting one subject from the main menu displays the corresponding functional interface on the right.

## My Account

The My Account screen displays the comprehensive information about the user and the product, which is synchronized with the online account. This account data includes User Info, Device Info, Update Info and Service Info.

### Personal Info

User Info and Device Info are both included under the Personal Info section.

### Device Info

Displays the registered product information, including the Serial Number, Registration Date, Expire Date, and Warranty Period.

### Update Info

The Update Info section displays a detailed list of the product's software update history, including the serial number, software version or name, and the update time.
**Service Info**

The Service Info section displays a detailed list of any repair history and documents in detailed what was done to the tool at the time of repair.

**User Complaint**

The User Complaint screen allows you to file a complaint and to view a record of any previous complaints.

![Sample Complaint Screen](image)

**Figure 10-2 Sample Complaint Screen**

The User Complaint screen consists of two parts.

1. **Option Bar**
   - Period Filter – displays only a listing of the complaint records within the defined period.
   - Status Filter – displays the corresponding complaint records according to the selected case status
   - New Complaint Button – files a new complaint

2. **Complaint List**
   The complaint list displays a listing of any complaints with its related summary information. This information includes the Subject Name, Ticket ID, User’s Account ID, Date, and the Case Status.

There are four status types:
- Open – the complaint has been started but not processed
- Suspended – the complaint is being processed
- Waiting Customer Reply – the complaint has been replied to by the service
personnel, and requires feedback from the customer.

- Closed – indicates the complaint has been processed, solved, and communication ended.

To view the detailed complaint session, tap the button on the right side of the case item.

➢ To establish a new complaint session

1. Register the product online.
2. Tap Support on the MaxiSys Job Menu. The device information is automatically synchronized with the online account.
3. Tap Complaint on the Main Menu.
4. Tap New Complaint at the upper right corner. A selection menu with a category of service channels displays.
5. Select your target service channel and click Next to continue. A standard complaint form displays, on which you are allowed to enter detailed information, such as personal information, vehicle information, and device information, you can also attach an image or PDF files with the form.
6. Enter in each input field the appropriate information. To settle the complaint more efficiently, it is recommended to fill out the complaint form as detailed as possible.
7. Select the required processing time on the last section according to the urgency of the case.
8. Tap Submit to send the completed form to Autel's online service center or tap Reset to refill it. The submitted complaints will be carefully read and handled by the service personnel.

➢ To make a reply in a complaint session

1. Register the product online.
2. Tap Support on the MaxiSys Job Menu. The device information is automatically synchronized with the online account. Tap Complaint on the Main Menu.
3. Select an existing complaint on the record list by tapping the button on its right side. The screen displays the complaint details.
4. Tap the Post Reply button on the upper right side after viewing, to make a reply. An edit screen will display.
5. Enter the content in the input field, and if necessary, upload an attached file.
6. Tap **Submit** to post the reply.
7. Tap the **States** selection drop-down menu to reset a case state.
8. Tap the **Update** button to commit the newest update.

**Data Logging**

The Data Logging section keeps records of all **Feedback** (submitted), Not **Feedback** (but saved) or **History** (up to the latest 20 test records) data loggings on the diagnostic system. The support personnel will receive and process the submitted reports through the Support platform. The solution will be sent back within 48 hours. You may continue to correspond with Support until the issue is resolved.

![Sample Data Logging Screen](image)

**Figure 10-3 Sample Data Logging Screen**

- **To make a reply in a Data Logging session**
  1. Tap on the **Feedback** tag to view the list of submitted data loggings.
  2. Select the latest message from Support.
  3. Tap on the input field on the bottom of the screen, and enter your reply. Or tap the Audio button to record a voice message, or tap the camera button to take a screenshot.
  4. Tap **Send** to deliver your message to Support.
Communities

The Communities section launches and synchronizes with the Technical Forums on Autel's official website [www.autel.com](http://www.autel.com), where you can discuss technical topics or share information with other members of Autel's online support community.

![Sample Communities Home Screen](image)

**Figure 10-4 Sample Communities Home Screen**

- **To start a discussion**
  1. Tap **Start a discussion** on the Communities Home screen. A list of the major forums is displayed.
  2. Based on your interest, select a discussion topic. For example, if you are going to ask a question about the MaxiSys tablet, tap **MaxiSys** to start a discussion.
  3. Input text in the space provided.
  4. Select a category or edit tags for the discussed post. This will help members with similar interest to find your post.
  5. Tap **OK** to submit the post.

- **To join and reply to a discussion post**
  1. Select a forum group that you are interested in, whether by the product or by the features, on the Communities Home screen. A list of the latest posts is displayed.
  2. Select a specific category on the Categories menu to better pinpoint the topics you are most interested with.
  3. Tap the ▶ button on the right side of the topic item to view the discussion. The content of the selected post is displayed.
  4. Tap **Reply** to reply to a specific post, or tap **Reply to original post** to join and continue the discussion.
  5. Enter your comment in the input field and tap **OK** to submit your post.

**User Profile**

The User Profile section allows you to select a profile photo, check your member status and review your posts in the communities.
Tap the profile photo on the Communities screen to open the User Profile.

- **Profile** – displays the user's personal information and member status. The Related links allow you to check the Top Users (ranked according to their points and levels) in the communities, and to connect with other users.
- **Profile Photo** – allows you to select an image to set as your profile photo to be displayed in the communities.
- **Stuff** – displays all the discussions you've posted on various forums.

**Training Channels**

The Training section provides quick links to Autel's online videos. Select a video channel by language to see all available Autel online tutorial videos on such topics as product usage techniques and vehicle diagnostics practices.

**FAQ Database**

The FAQ section provides you comprehensive and abundant references for all kinds of questions frequently asked and answered about the use of Autel's online member account, and shopping and payment procedures.

- **Account** – displays questions and answers about the use of Autel's online user account.
• Shopping & Payment – displays questions and answers about online product purchase and payment methods or procedures.
Academy

Autel provides various tutorial articles and technical bulletins produced by top-notch technicians and product experts. Please view the materials that are saved on the tablet or view technical articles from our online forum by clicking the links displayed under this application.
Remote Desk

The Remote Desk application launches the TeamViewer Quick Support program, which is a simple, fast and secure Remote Control interface. You can use the application to receive ad-hoc remote support from Autel's support center, colleagues, or friends, by allowing them to control your MaxiSys tablet on their PC via the TeamViewer software.

Operations

If you think of a TeamViewer connection as a phone call, the TeamViewer ID would be the phone number under which all TeamViewer Clients can be reached separately. Computers and mobile devices that run TeamViewer are identified by a globally unique ID. The first time the Remote Desk application is started, this ID is generated automatically based on the hardware characteristics. This ID will not change.

Ensure the tablet is connected to the Internet before launching the Remote Desk application, so that the tablet is able to receive remote support from a third party.

Figure 12-1 Sample Remote Desk Screen

- To receive remote support from a partner
  1. Power on the tablet.
  2. Tap the Remote Desk application on the MaxiSys Job Menu. The TeamViewer interface displays, and the device ID is generated and shown.
  3. Your partner must install the Remote Control software to his/her computer by downloading the TeamViewer full version program online (http://www.teamviewer.com). Start the software on his/her computer at the same time, in order to provide support and take control of the tablet remotely.
  4. Provide your ID to the partner, and wait for him/her to send you a Remote Control request.
  5. A message displays to ask for your confirmation to allow remote control on your device.
6. Tap **Allow** to accept or tap **Deny** to reject.

Refer to the associated TeamViewer documents for additional information.
Shop Manager

The Shop Manager application helps you manage the workshop information, customer information records, and vehicle history records, which can help in dealing with daily workshop business and improves customer service. There are three main functions available:

- **Vehicle History**
- **Workshop Information**
- **Customer Manager**

The operations of these functions of the Shop Manager application are mainly controlled by the toolbar buttons, which are listed and described in the table below:

<table>
<thead>
<tr>
<th>Name</th>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back</td>
<td><img src="image" alt="Back" /></td>
<td>Return to the previous screen.</td>
</tr>
<tr>
<td>Diagnostics</td>
<td><img src="image" alt="Diagnostics" /></td>
<td>Tap to display the Diagnostics screen to activate a direct test session.</td>
</tr>
<tr>
<td>Enter Edit</td>
<td><img src="image" alt="Edit" /></td>
<td>Tap to display the editing toolbar to print or delete the selected file.</td>
</tr>
<tr>
<td>Delete</td>
<td><img src="image" alt="Delete" /></td>
<td>Tap to delete the selected vehicle record item from the list.</td>
</tr>
<tr>
<td>Search</td>
<td><img src="image" alt="Search" /></td>
<td>Quickly locates the vehicle record by entering the vehicle name or test path.</td>
</tr>
<tr>
<td>Cancel</td>
<td><img src="image" alt="Cancel" /></td>
<td>Tap to cancel edit or search.</td>
</tr>
<tr>
<td>Edit</td>
<td><img src="image" alt="Edit" /></td>
<td>Tap to edit information for the displayed file.</td>
</tr>
<tr>
<td>Add Account</td>
<td><img src="image" alt="Add" /></td>
<td>Tap to create a new customer account file.</td>
</tr>
<tr>
<td>History Notes</td>
<td><img src="image" alt="History" /></td>
<td>Tap to open a note form, which allows you to create audio records, attach pictures or videos, or edit text notes.</td>
</tr>
<tr>
<td>Vehicle History</td>
<td><img src="image" alt="Vehicle" /></td>
<td>Tap to open the Vehicle History screen that displays the correlated test vehicle records.</td>
</tr>
<tr>
<td>Done</td>
<td><img src="image" alt="Done" /></td>
<td>Saves the file when completed editing.</td>
</tr>
</tbody>
</table>
Vehicle History

This function stores records of test vehicle history, including vehicle information and the retrieved DTCs from previous diagnostic sessions. Test information is summarized and displayed in an easy-to-view table listing. The Vehicle History also provides direct access to the previously tested vehicle and allows you to restart a diagnostic session without the need to do vehicle identification again.

Figure 13-1 Sample Vehicle History Screen

1. Top Toolbar Buttons – navigation and application controls.
2. Main Section – displays all the vehicle history records.

To activate a test session for the recorded vehicle

1. Tap Shop Manager on the MaxiSys Job Menu.
2. Select Vehicle History.
3. Tap ADAS at the bottom of the thumbnail of a vehicle record item. Or,
4. Select a vehicle record item by tapping the thumbnail.
5. A Historical Test record sheet displays, check the recorded information of the recorded test vehicle, and tap the ADAS button on the upper right corner.
6. The vehicle's ADAS screen displays and a new ADAS diagnostic session is activated.

Historical Test Record

The Historical Test record of the tested vehicle is a detailed data form, which includes all general information of the vehicle such as vehicle year, make and model and the diagnostic trouble codes retrieved from the previous test sessions, as well as other service details that can be added manually by the technicians themselves.

Figure 13-2 Sample Historical Test Record Sheet

To edit the Historical Test record

1. Tap Shop Manager on the MaxiSys Job Menu.
2. Select Vehicle History.
3. Select the specific vehicle history record thumbnail from the main section. The Historical Test record will display.

4. Tap Edit to start editing.

5. Tap on each item to input information or attach files or images.

NOTE
The vehicle VIN number, license number or customer account information are correlated by default. Adding one of these IDs will automatically be associated with the other ID on the test record.

6. Tap Add to Customer to correlate the Historical Test record sheet to an existing customer account or add a new associated account to be correlated with the test vehicle record. See Customer Manager on page 92 for more information.

7. Tap Done to save the updated record, or tap Cancel to exit without saving.

Workshop Information

The Workshop Information form allows you to input, edit, and save the detailed workshop information, such as shop name, address, phone number and other remarks, which, when printing vehicle diagnostic reports and other associated test file, will display as the header of the printed documents.

Figure 13-3 Sample Workshop Information Sheet

➢ To edit the Workshop Information sheet
1. Tap the Shop Manager application on the MaxiSys Job Menu.
2. Select Workshop Information.
3. Tap the Edit button on the top toolbar.
4. Tap on each field to input the appropriate information.

Customer Manager

The Customer Manager function allows you to create and edit customer accounts. It helps you to save and organize all customer information accounts that are correlated with the associated test vehicle history records.

➢ To create a customer account
1. Tap the Shop Manager application on the MaxiSys Job Menu.
2. Select **Customer Manager**.
3. Tap the **Add Account** button. An empty information form displays, tap each field to input the appropriate information.

**NOTE**
The items that must be completed are indicated as required fields.

4. Tap the ✧ photo frame beside the Name chart to add a photo. A sub menu displays, select **Take Photo** to take a new photo for the account, or select **Choose Photo** to choose from the existing files.
5. Some customers may have more than one vehicle for service; you can always add new vehicle information to the account. Tap **Add New Vehicle Information** and complete the vehicle information. Tap the ✗ button to cancel.
6. Tap **Done** to save the account or tap **Cancel** to exit without saving.

➢ **To edit a customer account**

1. Tap **Shop Manager** on the MaxiSys Job Menu.
2. Select **Customer Manager**.
3. Select a customer account by tapping the corresponding name card. A Customer Information record displays.
4. Tap **Edit** on the top toolbar to start editing.
5. Tap on the input field to edit or amend information and enter updated information.
6. Tap **Done** to save the updated information or tap **Cancel** to exit without saving.

➢ **To delete a customer account**

1. Tap **Shop Manager** on the MaxiSys Job Menu.
2. Select **Customer Manager**.
3. Select a customer account by tapping the corresponding name card. A Customer Information record displays.
4. Tap **Edit** on the top toolbar to start editing.
5. Tap **Delete Customer Information**. A confirmation message displays.
6. Tap **OK** to confirm the command, and the account is deleted. Tap **Cancel** to cancel the request.

**History Notes**
The History Notes function allows you to add audio and video records, text notes and photos, for the associated customer account. This is helpful when
dealing with repeat customers. The note-keeping function is a good method to organize customer and vehicle data. This option will display once a customer record is created.

➢ **To access History Notes**

1. Tap **Shop Manager** on the MaxiSys Job Menu.
2. Select **Customer Manager** or **Vehicle History**.
3. Select a customer account by tapping the corresponding name card. A Customer Information sheet displays (if **Customer Manager** is selected). Or, select a vehicle history record to open the Historical vehicle record (if **Vehicle History** is selected).
4. Tap the **History Notes** button on the top bar. The History Notes screen displays.

![Sample History Notes Screen](image)

**Figure 13-4 Sample History Notes Screen**

1. Functional Buttons – navigation and function controls.
2. Main Section – displays a listing of notes in the left column with the details of the selected note displaying in the right column.
## Table 13-2 Function Buttons in History Notes

<table>
<thead>
<tr>
<th>Name</th>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back</td>
<td><img src="image" alt="Back Button" /></td>
<td>Return to the previous screen.</td>
</tr>
<tr>
<td>Delete</td>
<td><img src="image" alt="Delete Button" /></td>
<td>Tap to delete the selected note.</td>
</tr>
<tr>
<td>Search</td>
<td><img src="image" alt="Search Button" /></td>
<td>Quickly locates a note by entering related text.</td>
</tr>
<tr>
<td>Cancel</td>
<td><img src="image" alt="Cancel Button" /></td>
<td>Tap to cancel edit or file search.</td>
</tr>
<tr>
<td>Edit</td>
<td><img src="image" alt="Edit Button" /></td>
<td>Tap to open an edit window to edit notes and attach files.</td>
</tr>
<tr>
<td>Add Notes</td>
<td><img src="image" alt="Add Notes Button" /></td>
<td>Tap to add new note in History Notes.</td>
</tr>
<tr>
<td>Audio Record</td>
<td><img src="image" alt="Audio Record Button" /></td>
<td>Tap to start audio recording.</td>
</tr>
<tr>
<td>Add Photos</td>
<td><img src="image" alt="Add Photos Button" /></td>
<td>Tap to locate and add image to History Notes.</td>
</tr>
<tr>
<td>Take a Video</td>
<td><img src="image" alt="Take a Video Button" /></td>
<td>Tap to record a video and add the file to History Notes.</td>
</tr>
<tr>
<td>Take a Photo</td>
<td><img src="image" alt="Take a Photo Button" /></td>
<td>Take a photo and add the file to History Notes.</td>
</tr>
</tbody>
</table>

To add a note in History Notes

1. Access **History Notes**.
2. Tap **Add Notes**. An editable window displays.
3. Tap on the Title bar to input a note title.
4. Tap on the blank space below to edit a text note or remark.
5. Select a function button on the top to add files in any form you choose.
6. Tap **Save** to save the note; tap **Discard** or **Cancel** to exit without saving.
The MaxiFix application launches the online troubleshooter database, which not only provides you virtually all common diagnostic trouble code (DTC) database for most vehicles, but also serves as a forum allowing you to network with other MaxiSys users, and gives you access to a vast database of repair and diagnostic tips along with proven fixes.

While the MaxiFix makes abundant troubleshooter information available, the database keeps growing with daily troubleshooting resources by recording the reported solution cases, and the advisory reports of the MaxiSys users from all over the world.

Information in the MaxiFix database is organized into a series of diagnostic tips that are designed to quickly lead you to the root cause of a particular problem on the test vehicle and to help you quickly find solutions for various diagnostic problems.

**Navigation**

You need to register the device to your online account before launching the MaxiFix platform, see *Product Registration* for details.

![Sample MaxiFix Home Page](image)

The MaxiFix screen layout consists of three main areas:

1. **The Header** – the tool bar across the top of the screen which allows you to select vehicles and perform searches.
2. **The Main Screen** – located at the center of the screen displaying content based on the vehicle attributes and keywords specified. The tabs on the main screen vary in accordance with the selection made on the Navigation Menu, allowing you to switch between functions.
3. **The Navigation Menu** – the main menu at the bottom of the screen, which provides you access to different sections of MaxiFix.

The **Header**

The Header at the top of the screen, features:
- A Select Vehicle button to open the vehicle identification window, and vehicle information bar, for example "2014 > Hyundai > Accord Coupe > L4-2.4L (K24W1)".
- A search field to find relevant information by entering keywords, codes, or problems.

**Select Vehicle Button**

The "Select Vehicle" button on the Header allows you to specify the vehicle that you want to reference on MaxiFix by selecting each of the vehicle attribute from a sequence of option lists. This feature helps to filter out the searches that allow only the information that applies to the identified vehicle to display.

⚠️ **NOTE**

All attributes must be specified to make a complete vehicle selection for the most efficient search results.

➢ **To select a vehicle**

**Follow the procedure below to select a vehicle:**

1. If you haven't already done so, click the "Select Vehicle" button on the Header.
2. Select the **year** of the vehicle from the list.
3. Select the **make** of the vehicle from the list.
4. Select the **model** of the vehicle from the list.
5. Select the **submodel** of the vehicle from the list.
6. Select the **engine** of the vehicle from the list.

After completing the vehicle selection procedure, the identified vehicle is shown on the Header.

**Terminology**

**MaxiFix Tip**

A MaxiFix Tip provides practical information of a real fix of a specific vehicle repair issue with detailed descriptions. It is combined with proven fix and vehicle specific data and filed into an all-in-one information source to provide you with quick and easy repair solutions.

On MaxiFix community, you can find Tips or share your own Tip to help other community members solve vehicle issues.

➢ **To search for a MaxiFix Tip**
1. Select a Vehicle.
   a) Click the "Select Vehicle" button on the Header at the top of the page.
   b) Select the **year** of the vehicle from the list.
   c) Select the **make** of the vehicle from the list.
   d) Select the **model** of the vehicle from the list.
   e) Select the **submodel** of the vehicle from the list.
   f) Select the **engine** of the vehicle from the list.

After completing the vehicle selection procedure, the identified vehicle is shown on the Header.

2. Enter a Search Term.
MaxiFix has an exclusive one-stop lookup that helps you find all of MaxiFix resources by one click. Simply enter a search term into the search bar on the Header to begin the search.

3. Proven Results!
The powerful MaxiFix database gives you proven results! The typical MaxiFix Tips combine actual workshop fixes and data that may include:
   a) OBD II Fault Codes description and reference – helps in diagnostic assessment by making clear the nature of an automotive problem so that beginner and advanced technicians can make effective repairs.
   b) Real Fix Tips – provides repair tips from actual shop practices and are presented in an easy-to-understand Complaint, Cause and Correction format.

If you still can’t find the information you want, you can ask the MaxiFix community for help by clicking "Ask" on the Navigation Menu at the bottom of the screen.

*Adopted*

The "Adopted" icon that displays at the top right side of a Tip page indicates that the related Tip has been adopted by at least one technician in the community. If a tip has helped you to solve a repair problem, you are encouraged to give an Adopted! count to the tip. The "Adopted!" count helps you easily identify the tips that are really helpful for repairing vehicle issues. You can also post a comment about how the tip has helped you as reference to other members.
Operations

The Navigation Menu is at the bottom of the screen. Selecting the items on the Navigation Menu allows you to switch between the main sections on MaxiFix. These main sections include:

- **Home** – displays all questions posed and allows you to enter your specific question about one or multiple vehicle makes.
- **Search Fix** – allows you to search for information from all available resources on MaxiFix, including: Open Questions, Tips and Real Fixes, and displays search results.
- **Ask** – allows you to ask a question to the community.
- **My MaxiFix** – displays all your posts including Questions and Fixes in the community, and allows you to view your personal profile, select your vehicle preference, and share your tips.
- **My Messages** – displays a list of message notifications relevant to your activities in the Question section.
- **Support** – opens the FAQ page, or a message box for contacting Customer Service by email.

Home

At the bottom of the screen, Home is the first option on the Navigation Menu. Tap to open your MaxiFix home page. There is a list of questions posted on the community, and you can scroll down the page to the bottom and view more questions by tapping "View More". Click on any question and you will be linked to the detailed page in the Ask section.

You can configure your main screen to display questions only related to the vehicle brands you are interested in, by tapping the "Filter" button on the main page of Home, and selecting the desired vehicle makes. This filter can be canceled anytime by tapping the "Remove All Filters" button; the default setting will be restored to display questions about all vehicle makes.

Search Fix Features

Search Fix, the second option on the Navigation Menu at the bottom of the screen, presents search results for the specified vehicle. Search results are divided into the following categories:

- **All** – includes all search results, including search-related Questions, Tips, and Real Fixes.
- **Questions** – presents a list of open Question discussed in the community that may be related to your search.
• Tips – presents a list of Tips that directly relate to your search. Select a Tip from the list to open and review the complete Tip.
• Real Fixes – presents a list of Tips that have been collected from actual shop repair orders and are presented in an easy-to-understand Complaint, Cause, and Correction format.

Ask

Ask, the third option on the Navigation Menu at the bottom of the screen, allows you to ask a question about a particular vehicle repair issue in the community.

➢ To ask a MaxiFix Question

1. Tap Select Vehicle on the Header to specify the vehicle you are asking about.
2. Click Ask on the Navigation Menu at the bottom of the screen to open the Ask page.
3. Find Ask for Help on the Ask page, fill in the following sections to ask a question.

The Ask page has four sections:
• Subject – this is where you enter a brief subject for the question.
• My Question – asks a clear and concise question that you want to ask the community. Be sure to be descriptive and concise when asking your question.
• Problem Description – describes how the vehicle is behaving.
• Repair History – includes any previous diagnostic tests that you performed, including the results of the tests. Also list any parts that were replaced during previous diagnostic work.

Tap the "Cancel" button to cancel your question and return to the Ask page
Tap the "Submit" button to post your question to the community.
Tap the "Attach File" button to include images or reference files with your question.

You are requested to select one Adopted Answer from all of the responses and then close the question. For details, please refer to My Messages section.
My MaxiFix

My MaxiFix, the fourth option on the Navigation Menu at the bottom of the screen, opens your personal MaxiFix page. To access the features on My MaxiFix page you can select from the tabs:

- My Questions – opens a list with links to the opened questions that you have posted to the community
- My Cases – opens a list with links to the closed questions and tips that you have contributed to the community.
- Marked Posts – opens a list with links to Tips and discussions that you are actively participating in.
- My Profile – allows you to view your Autel account information, including your Autel ID, personal information, MaxiFix score, phone number and register time, and edit your portrait.
- Vehicle Preference – use to set up a list of preferred vehicles. The preferred list allows you to limit the choices that displayed on the "Select Vehicle" list to specific years and makes. Click "Set Year" or "Set Make" to set your preferred models. The preferred makes will also be displayed in the "Filter" options on the Home page.
- Share a Tip – allows you to share your personal repair experience with the community.

Click My MaxiFix on the Navigation Menu at the bottom of the screen to display all questions and tips that you have contributed to the community.

Create a Tip

A "Tip" is a concise and complete description of the fix for a particular vehicle repair issue.

➢ To create a new MaxiFix Tip

1. Select My MaxiFix from the Navigation Menu.
2. Tap Select Vehicle from the Header and enter the identifying attributes of the vehicle you are writing the Tip about.
3. Find Share a Tip on the My MaxiFix page; click this link to open the My Tips page.
4. Enter the Tip subject in the Subject field.
5. Compose your Tip in the Description field. Include as much information as possible while keeping the information concise and to the point. A Tip should provide accurate information that is reader-friendly.
Use the **Cancel** button at the bottom right of the page to cancel your tip and return to the My MaxiFix page. Or use the **Submit** button at the bottom right of the page to contribute your tip to the community.

Use the **Attach File** button at the bottom left of the page to include images or other supporting data with your question.

**View Profile Information**

You can view your personal profile by clicking on your account ID or "My Profile" in My MaxiFix section or edit portrait where applicable and visit other community members' profile by clicking their portrait. Information included in your profile influences how you are presented to the community, and what type of information will be sent to you from the community.

**My Messages**

My Messages, the fifth option on the Navigation Menu at the bottom of the screen, shows a list of message notification that is relevant to your activities in the Question section. A notification icon will display on the top-right corner of "My Messages" if there is any new or unread message in the Question section. The number on the notification icon indicates the total number of the new and unread messages. The displayed number will be reduced correspondingly after viewing. The message notification will appear under the following two conditions:

1. Your question or answer is replied to by other MaxiFix community members.
2. Your answer is marked as the "Adopted!" by the MaxiFix community member who asked the question.

Tap **My Messages**, select and open the message you want to read from the list. If your problem is solved according to the reply, you should select one Adopted Answer and close the question. If your answer is marked as "Adopted!", the prompt "Adopted! + 4" will be displayed permanently.

Tap **Clear** to delete all message notifications.

**Select "Adopted Answers"**

Members are requested to select one Adopted Answer from all of the responses on "My Messages" page before closing a question. The community members who provided the Adopted Answer are rewarded with scores for their contribution.

**About Adopted Answer:**
• Only one answer can be selected as "Adopted Answer".
• Answers can only be rated by the MaxiFix member who asked the question.

Close a Question

When a repair question that you've posted to the community is resolved, you are encouraged to mark the adopted answer and close the case. This will help other MaxiFix members to find useful information for practical fix.

To close a question, you need to first choose and select the best response from the message list on "My Messages" page, tap "Adopted Answer" and select "Close Question". Tap the "Cancel" button to cancel your submission and return to My Messages page. It is strongly recommended to share your repair solutions before closing a question. Your question will be converted to a MaxiFix Community Tip after closing.

Score Rewarding System

1. A score of 4 is awarded if your answer is selected as the "Adopted Answer".
2. A score of 3 is awarded when you close a question.
3. A score of 2 is awarded if your closed question is marked as "Adopted!" by no less than 20 community members.
4. A score of 1 is awarded if your answer is selected as the "Adopted Answer" for a closed question that is marked as "Adopted!" by no less than 20 community members.
5. A score of 1 is awarded to each of the first three respondents.

Support

Support, the last option on the Navigation Menu at the bottom of the screen, opens a Support screen with two tabs, one for a form for contacting the MaxiFix administrator and the other to view Frequently Asked Questions.

If you wish to contact the administrator of this site, please use the contact form. Select "Support" from the Navigation Menu to open the comment window. To allow the administrator to respond to your question or issue, the following information should be provided:

• Your name
• A contact email address
• A contact phone number
15 Function Viewer

The Function Viewer allows you to search the functions supported by our tools and the version information. There are two ways of searching, either by searching the tool and the vehicle or searching the functions.

➢ To search by the vehicle

1. Tap the Function Viewer application on the MaxiSys Job Menu. The Function Viewer application screen displays.
2. Tap the tool name on the top left to drop down the tool list, tap the one you want to search.
3. Tap the vehicle brand, model, and year you want to search.
4. All the functions supported by the selected tool for the selected vehicle displays within three columns, function, sub function, and version.
To search by the functions

1. Tap the Function Viewer application on the MaxiSys Job Menu. The Function Viewer application screen displays.
2. Tap the tool name on the top left to drop down the tool list, tap the one you want to search.
3. Type in the function you want to search for. All the vehicles with this function will be listed with an eight-column table with the headings of Brand, Model, Year, System, Sub system, Function, Sub function, and Version.

NOTE
Fuzzy search is supported. Type in part of the function name to initiate search for function.
16 Digital Inspection

The Digital Inspection application configures the MaxiSys Diagnostic Device to operate as a digital video scope by simply connecting the tablet to a Digital Inspection Camera. This function allows you to examine difficult-to-reach areas normally hidden from sight, with the ability to record digital still images and videos, which offers you an economical solution to inspect machinery, facilities, and infrastructure in a safe and quick way.

⚠️ WARNINGS & IMPORTANT INSTRUCTIONS:

Follow these instructions to reduce the risk of injury from electric shock, entanglement and other causes and prevent tool damage.

- Do not place the imager head and cable into anything or anywhere that may contain a live electric charge or moving parts, which increases the risk of electric shock or entanglement injuries.
- Do not use the imager head cable to modify surroundings, clear pathways or clogged areas.
- When inspection is completed, carefully withdraw the imager head cable from the inspection area.
- The imager head cable is waterproof to a depth of 3m (10’), greater depths may cause leakage into the imager head cable and cause electric shock or damage the tool.
- The working temperature of the imager head is between 32°F (0°C) and 113°F (45°C).

Check-Ups:

✓ FOR AUTOMOBILES: Ensure the automobile is not running during inspection. Metal and liquid under the hood may be hot. Don't get oil or gas on the imager head.

✓ FOR PIPES: If you suspect a metal pipe could contain an electric charge, have a qualified electrician check the pipe before using.

✓ FOR WALLS: For inspecting the inside walls, be sure to shut off the circuit breaker to the entire house before using the tool.

✓ WORK AREA: Ensure the work area has sufficient light.
Additional Accessories

The Digital Inspection Camera and its fittings are the additional accessories. Both sizes (8.5 mm and 5.5 mm) of the imager head are optional and available for purchase along with the standard MaxiSys tool kit.

Digital Inspection Camera

1. Removable Imager Head Cable – connects to the tool when performing digital inspections for image and video viewing.
2. Handgrip – ergonomically designed handle for comfortable grip and agile operation.
3. USB Cable – connects the Digital Inspection Camera to the MaxiSys tablet.

Imager Head Accessories

Figure 16-1 Digital Inspection Camera

Figure 16-2 8.5mm Imager Head Accessories
1. Magnet – picks up small metal objects.
2. Hook – unclogs obstacles and picks up wires in pipes or confined areas.
3. Mirror – aides in viewing difficult to reach areas.

![Figure 16-3 5.5mm Imager Head Accessories](image)

Figure 16-3 5.5mm Imager Head Accessories

1. Mirror – aides in viewing difficult to reach areas.
2. Magnet – picks up small metal objects.

**Accessory Assembly**

*For 8.5mm Imager Head*

The three accessories, including the Magnet, Hook, and Mirror, can be attached to the Imager Head in the manner described below:

1. Hold the accessory and the imager head.

![Accessory Assembly Diagram](image)

2. Slip the end of the accessory over the imager head and tighten the accessory.

*For 5.5mm Imager Head*

The two accessories, including the Magnet and Mirror, can be attached to the Imager Head in the manner described below:
1. Hold the accessory and the imager head.

2. Screw the thread part of the accessory over the imager head to tighten the accessory.
Technical Specifications

Table 16-1 Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optimal Viewing Distance</td>
<td>1&quot; to 14&quot; (2.54 cm to 35.56 cm) with 8.5 mm diameter imager head 3/8&quot; to 12&quot; (0.95 cm to 30 cm) with 5.5 mm diameter imager head</td>
</tr>
<tr>
<td>Image Capture</td>
<td>JPG images (640x480) AVI videos (320 x 240)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>Main Unit: 0°C to 55°C (ambient)</td>
</tr>
<tr>
<td></td>
<td>Cable: -10°C to 70°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20°C to 75°C (ambient)</td>
</tr>
<tr>
<td>Waterproof</td>
<td>Imager head and cable to 1m</td>
</tr>
<tr>
<td>Weigh</td>
<td>0.3 kg with 8.5 mm diameter imager head</td>
</tr>
<tr>
<td></td>
<td>0.2 kg with 5.5 mm diameter imager head</td>
</tr>
</tbody>
</table>

Operations

Before performing the Digital Inspection application, the Imager Head Cable must be connected to the tablet via the USB port. Install the correct imager head accessories for use in the appropriate application.

NOTE

If needed to access, and subsequently, view a particularly hard to reach area or part, the imager head cable can be bent without causing damage to the cable.

➢ To take pictures using the Digital Inspection application

1. Connect the Imager Head Cable to the USB port on the top side of the tablet.
2. If not already done, power on the tablet.
3. Tap the Digital Inspection application on the MaxiSys Job Menu. The Digital Inspection application interface displays, showing a camera operating screen. The default camera is now the Imager head.
4. Select the **camera** icon at the lower right corner to take photos.
5. Focus the image to be captured in the view finder by adjusting and properly positioning the imager head cable.
6. Tap the blue ring on the operating screen. The view finder now displays the captured picture and auto-saves the taken photo.
7. Tap the thumbnail image on the top right corner of the screen to view the stored image, slide the screen left and right to view the images one by one.
8. Tap on the selected image and the edit toolbar will display.
9. Tap the appropriate button to **share**, **delete**, or **edit** the image.
10. Tap the Back or Home button on the Navigation bar at the bottom of the screen to exit the Digital Inspection application.

➢ **To record a video using the Digital Inspection application**

1. Connect the Imager Head Cable to the USB port on the top side of the tablet.
2. If not already done, power on the tablet.
3. Tap the **Digital Inspection** application on the MaxiSys Job Menu. The Digital Inspection application interface displays, showing a camera operating screen. The default camera is now the Imager head.
4. Select the **video** icon at the lower right corner to record a video.
5. Properly position the imager head cable for recording.
6. Tap the red ring on the operating screen to start recording.
7. Tap the red circle again to stop recording. The recorded video is automatically saved to the system Gallery.
8. Tap the thumbnail image on the top right corner to review the recorded video.
9. Tap the **Play** button to play the video.
10. Tap on the selected video and the edit toolbar will display.
11. Tap the appropriate button to **share**, **delete**, or **edit** the video.
12. Tap the **Back** or **Home** button on the Navigation bar at the bottom of the screen to exit the Digital Inspection application.

➢ **To configure various settings for the work mode of the imager head**

1. Tap button at the bottom edge of the circle.
2. Select each item to make appropriate adjustments.

**For more tips and detailed information about the camera application, please refer to associated Android documentations.**
MaxiScope

The MaxiScope application configures the MaxiSys Diagnostic Device to operate as an automotive oscilloscope. This application can perform electrical and electronic circuit tests and monitor signal voltages on any modern vehicles. Perfect as a diagnostic aide in identifying difficult electrical system faults.

Quick Link

The Quick Link application provides you with convenient access to Autel's official website and many other well-known sites in automotive service, which offers you abundant information and resources, such as technical help, knowledge base, forums, training, and expertise consultations.

To open a quick link

1. Tap Quick Link on the MaxiSys Job Menu. The Quick Link application screen displays.
2. Select a website thumbnail from the main section. The Chrome browser is launched and the selected website is opened.
3. Now you can start exploring the website!
19 Maintenance and Service

To ensure that the tablet and the combined VCI unit perform at their optimal level, we advise that the product maintenance instructions covered in this section are read and followed.

Maintenance Instructions

The following shows how to maintain your devices, together with precautions to take.

- Use a soft cloth and alcohol or a mild window cleaner to clean the touch screen of the tablet.
- Do not use any abrasive cleansers, detergent, or automotive chemicals on the tablet.
- Maintain the devices in dry conditions and keep them within normal operating temperatures.
- Dry your hands before using the tablet. The touch screen of the tablet may not work if the touch screen is moist, or if you tap the touch screen with wet hands.
- Do not store the devices in humid, dusty or dirty areas.
- Check the housing, wiring, and connectors for dirt and damage before and after each use.
- At the end of each work day, wipe the device housing, wiring, and connectors clean with a damp cloth.
- Do not attempt to disassemble the tablet or the VCI unit.
- Do not drop or cause severe impact to the devices.
- Use only authorized battery chargers and accessories. Any malfunction or damage caused by the use of unauthorized battery charger and accessories will void the limited product warranty.
- Ensure that the battery charger does not come in contact with conductive objects.
- Do not use the tablet beside microwave ovens, cordless phones and some medical or scientific instruments to prevent signal interference.
**Troubleshooting Checklist**

A. **When the tablet does not work properly:**
   - Make sure the tablet has been registered online.
   - Make sure the system software and diagnostic application software are properly updated.
   - Make sure the tablet is connected to the Internet.
   - Check all cables, connections, and indicators to ensure the signal is being received.

B. **When battery life is shorter than usual:**
   - This may happen when you are in an area with low signal strength. Turn off your device when not in use.

C. **When you cannot turn on the tablet:**
   - Make sure the tablet is connected to a power source or the battery is charged.

D. **When you are unable to charge the tablet:**
   - Inspect charger for damage. If the charger appears damaged or continues to fail, contact your local distributor.
   - You may be attempting to use the device in an overly hot/cold temperature. Charge the device in a cooler or warmer area.
   - Your device may have not been connected to the charger properly. Check the connector.

⚠️ **NOTE**
If the problems persist, please contact Autel's technical support personnel or your local distributor.

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**About Battery Usage**

Your tablet is powered by a built-in Lithium-ion Polymer battery. Unlike other forms of battery technology, Lithium-Ion batteries can be recharged while some charge remains without reducing the tablet's autonomy.

⚠️ **DANGER**
The built-in Lithium-ion Polymer battery is factory replaceable only; incorrect replacement or tampering with the battery pack may cause an explosion.

- Do not use a damaged battery charger.
- Do not disassemble or open, crush, bend or deform, puncture or shred.

- Do not modify or remanufacture, attempt to insert foreign objects into the battery, expose to fire, explosion or another hazard.

- Use only the included charger and USB cables. Failure to use Autel-authorized charger and/or USB cables, may result in device malfunction or failure.

- Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or another hazard.

- Avoid dropping the tablet. If the tablet is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.

- The closer you are to your network's wireless router, the longer your tablet usage time because less battery power is consumed for the connection.

- The battery recharging time varies depending on the remaining battery capacity.

- Battery life inevitably shortens over time.

- Since overcharging may shorten battery life, remove the tablet from its charger once it is fully charged. Unplug the charger once charging is complete.

- Leaving the tablet in hot or cold places, especially inside a car in summer or winter, may reduce the capacity and life of the battery. Always keep the battery within normal temperatures.
Service Procedures

This section introduces information for technical support, repair service, and application for replacement or optional parts.

Technical Support

If you have any question or problem on the operation of the product, please contact us.

AUTEL NORTH AMERICA

- Phone: 855-AUTEL-US (855-288-3587) Monday-Friday 9am-6pm EST
- Website: www.autel.com
- Email: ussupport@autel.com
- Address: 175 Central Avenue, Suite 200, Farmingdale, New York, USA 11735

AUTEL EUROPE

- Phone: 0049 (0) 61032000522
- Website: www.autel.eu
- Email: sales.eu@autel.com, support.eu@autel.com
- Address: Robert-Bosch-Strasse 25, 63225, Langen, Germany

AUTEL CHINA HQ

- Phone: 0086-755-86147779
- Website: www.autel.com
- Email: support@autel.com
- Address: 6th-10th floor, Building B1, Zhiyuan, Xueyuan Road, Xili, Nanshan, Shenzhen, 518055, China.

AUTEL SOUTH AMERICA
Phone: (+507) 308-7566

Website: www.autel.com/es

Email: sales.latin@autel.com, latsupport@autel.com

Address: Office 103, Building 3845, International Business Park, Veracruz, Panamá Pacífico, Panamá

AUTEL AUSTRALIA

Phone: 03 9480 2978 / +61 476293327

Website: www.autel.com.au

Email: sales@autel.com.au

Address: 155 Islington Street, Melbourne, Collingwood, VIC 3066

For technical assistance in other markets, please contact your local distributor.

Repair Service

If it becomes necessary to return your device for repair, please download the repair service form from www.autel.com, and fill in the form. The following information must be included:

• Contact name
• Return address
• Telephone number
• Product name
• Complete description of the problem
• Proof-of-purchase for warranty repairs
• Preferred method of payment for non-warranty repairs

NOTE

For non-warranty repairs, payment can be made with Visa, Master Card, or with approved credit terms.

Send the device to your local distributor, or to the below address:
Other Services

You can purchase the optional accessories directly from Autel's authorized tool suppliers, and/or your local distributor or agent.

Your purchase order should include the following information:

- Contact information
- Product or part name
- Item description
- Purchase quantity
FCC Compliance

FCC ID: WQ8MAXISYSMS908S

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. **This device may not cause harmful interference, and**

2. **this device must accept any interference received, including interference that may cause undesired operation.**

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

**SAR**

The radiated output power of this device is below the FCC radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact is minimized during normal operation.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/Kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power.
level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. To avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to antenna should be minimized.
21 Warranty

12-Month Limited Warranty

Autel Intelligent Technology Corp., Ltd. (the Company) warrants to the original retail purchaser of this MaxiSys Diagnostic Device that should this product or any part thereof during normal usage and under normal conditions be proven defective in material or workmanship that results in product failure within twelve (12) months period from the date of purchase, such defect(s) will be repaired, or replaced (with new or rebuilt parts) with Proof of Purchase, at the Company’s option, without charge for parts or labor directly related to the defect(s).

The Company shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the device. Some states do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty does not apply to:

a) Products subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
b) Products whose mechanical serial number or electronic serial number has been removed, altered or defaced;
c) Damage from exposure to excessive temperatures or extreme environmental conditions;
d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
e) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts.
f) Products damaged from external causes such as fire, dirt, sand, battery leakage, blown fuse, theft or improper usage of any electrical source.

⚠️ IMPORTANT

All contents of the product may be deleted during the process of repair. You should create a back-up copy of any contents of your product before delivering the product for warranty service.